

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

Wednesday, July 23, 2014

6:30 PM

**8820 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.

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

Recognition of Salvador Mendoza for 5 years of service.

Associate Director Comment

Public Comment

2. Overview of the Solano Resource Conservation District

(Chris Rose, Executive Director)

Associate Director Comment

Public Comment

3. Introduction of Katie Dahl, Association of California Water Agencies Regional Affairs Representative

Associate Director Comment

Public Comment

4. Consent Calendar (Stefani Phillips, Secretary and Dennis Coleman, Finance Manager)

- a. Minutes of the Regular Board Meeting of June 25, 2014
- b. FRCD Cash Flow Worksheet – June, 2014
- c. Warrants Paid – June, 2014
- d. Active Accounts – June, 2014
- e. Bond Covenant Status for FY 2013-2014 – June, 2014
- f. Revenues and Expenses – Actual vs Budget FY 2013-2014 – June, 2014
- g. Cash Accounts – June, 2014
- h. Consultants Expenses – June, 2014
- i. Conservation Activities – June, 2014

Associate Director Comment

Public Comment

Recommended Action: Approve FRCD Consent Calendar

5. Operations Report – June, 2014 (Mark J. Madison, PE, General Manager)

Associate Director Comment

Public Comment

6. Adoption of the American River Basin Integrated Regional Water Management Plan (Mark Madison, General Manager)

Associate Director Comment

Public Comment

Recommended Action: Adopt Resolution No. 07.23.14.01 Adopting the American River Basin Integrated Regional Water Management Plan

7. Amendment to Water Shortage Contingency Plan and Implementation of Stage 1 – Water Alert (Ellen Carlson, Management Analyst)

Associate Director Comment

Public Comment

Recommended Action: Adopt Ordinance No. 07.23.14.01 Amending the Water Shortage Contingency Plan's Outdoor Irrigation Schedule and Order Implementation of Stage 1 – Water Alert

8. Professional Services Agreement for Preparation of Asset Management Plan (Bruce Kamilos, Associate Civil Engineer)

Associate Director Comment

Public Comment

Recommended Action: Approve a Motion Authorizing the

General Manager to Execute a Professional Services Agreement with Kennedy/Jenks Consultants in the Amount of \$73,370 for the Preparation of an Asset Management Plan

9. Amendment to FY 2014/15 Capital Improvement Program and Hampton Village Water Treatment Plant Refurbishment Project Contract
(Bruce Kamilos, Associate Civil Engineer)

Associate Director Comment

Public Comment

Recommended Action: Approve a Motion Amending the FY 2015-19 Capital Improvement Program (CIP), Appropriating an Additional \$711,039 of Unrestricted Funds to the FY 2014-15 CIP Reserve Fund, and Authorizing the General Manager to Execute a Construction Contract in the Amount \$999,039 with TNT Industrial Contractors, Inc. for the Hampton Village Water Treatment Plant Refurbishment Project.

10. Legislative Update (Ellen Carlson, Management Analyst)

Associate Director Comment

Public Comment

11. Committee Meeting(s) Update (Chairman Barrie Lightfoot)

Associate Director Comment

Public Comment

12. Directors Comments and Information

13. Closed Session

PUBLIC EMPLOYEE PERFORMANCE EVALUATION
Pursuant to Section 54957
Title: General Counsel

Adjourn to Regular Meeting – August 27, 2014.

July 23, 2014

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

RECOMMENDATION

Approve the Consent Calendar.

Summary

By this action, the Board will approve 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, SECRETARY

SP

Attachments

MINUTES OF THE REGULAR MEETING OF THE FRCD BOARD

Wednesday, June 25, 2014

The regular meeting of the Board of Directors of the Florin Resource Conservation District was called to order at 6:30 p.m. by Barrie Lightfoot, Chair, at 8820 Elk Grove Blvd, Elk Grove CA.

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

Directors Present: Barrie Lightfoot, Chuck Dawson, Don Menasco, Elliot Mulberg and Tom Nelson
Directors Absent: None
Staff Present: Mark J. Madison, General Manager; Dennis Coleman, Finance Manager; Bruce Kamilos, Associate Civil Engineer; Donella Ouellette, Finance Supervisor; Board Secretary Stefani Phillips; and Water Distribution Foreman Jose Carrillo
Associate Directors Present: Mike Schmitz and Davies Ononiwu
Consultants Present: Ann Siprelle, General Counsel

Public Comment

None

1. Proclamations and Announcements

Presentation of Certificate of Achievement for Excellence in Financial Reporting received from Government Finance Officers Association (GFOA) for Fiscal Year 2012-13.

General Manager Mark Madison presented the certificate and stated that this achievement had been obtained for four consecutive years. He complimented Finance Manager Dennis Coleman, Finance Supervisor Donella Ouellette, Human Resources Specialist Stefani Phillips, and Management Analyst Ellen Carlson and noted that other staff members were involved in helping to achieve the certificate.

Chairman Barrie Lightfoot thanked Finance Manager Dennis Coleman for his service with the District (Mr. Coleman resigned from the District after receiving an offer with the City of Indio).

2. Consent Calendar

- a. Minutes of the Regular Board Meeting of May 28, 2014 and Minutes of the Special Meeting of the Board from June 10, 2014.
- b. FRCD Cash Flow Worksheet – May, 2014
- c. Warrants Paid – May, 2014
- d. Active Accounts – May, 2014
- e. Bond Covenant Status for FY 2013-2014 – May, 2014
- f. Revenues and Expenses – Actual vs Budget FY 2013-2014 – May, 2014
- g. Cash Accounts – May, 2014
- h. Consultants Expenses – May, 2014
- i. Conservation Activities – May, 2014

Director Elliot Mulberg requested to pull item I for discussion.

MSC (Mulberg/Dawson) to approve Consent Calendar items a-h, 5/0: Ayes: Dawson, Menasco, Mulberg, Nelson, and Lightfoot.

Director Elliot Mulberg inquired if there were any funding opportunities heard at the California Financing Coordinating Committee Funding Fair.

General Manager Mark Madison commented that he was not overly impressed with the available funding options. He stated most of the funding options were loans. Mr. Madison mentioned that there were some grants and staff is looking into those opportunities. Director Elliot Mulberg inquired for if staff was pursuing all options for EGWD or FRCD.

General Manager Mark Madison responded that staff is trying to pursue anything we can find.

A discussion was held regarding funding for agriculture water efficiency.

MSC (Mulberg/Nelson) to approve Consent Calendar item i, 5/0: Ayes: Dawson, Menasco, Mulberg, Nelson, and Lightfoot.

3. NRCS Activities Update

District Conservationist Dwane Coffey presented the NRCS Activities Update and stated he would like to have a meeting to update the long range plan to include irrigation. Mr. Coffey also stated he would like to be included in the 2x2x2 workshop for some strategic planning, date to be determined.

Chairman Barrie Lightfoot commented that the Regional Conservation Partnership Program sounds like a pretty good way to get involved.

Director Tom Nelson stated that he attended a USDA Farm Bill Workshop in Davis to get information on Grant opportunities and there was some funding available, but the application is due July 15, 2014, and it is not enough time to coordinate efforts to meet the deadline. Mr. Nelson stated that we can try next year. He stated that the USDA staff said they can help us with the application.

A discussion followed regarding additional funding opportunities. Mr. Coffey indicated that it would be a great idea to invite a representative from the California Association Resource Conservation District to join the strategic planning workshop.

4. Appointment of Associate Director to the Florin Resource Conservation District

Board Secretary Stefani Phillips presented the Appointment of Associate Director to the Florin Resource Conservation District. She stated that Robert L. Gray applied for the Associate Director position. Ms. Phillips commented that he provided a resume and a letter of interest and that she made an error in the staff report indicating Mr. Gray had not met the criteria of the application process. Ms. Phillips indicated that the first sentence of the application process was interpretive.

Robert Gray spoke to the Board and highlighted that he has a background in Finance.

Director Elliot Mulberg commented that he appreciated Mr. Gray's input in the past.

Vice-Chairman Chuck Dawson commented that he had participated in two of the Community Advisory Committees and would recommend him as an Associate Director.

Director Tom Nelson stated that Mr. Gray brings a lot of different views and he appreciates his input.

MSC (Dawson/Mulberg) to appoint Robert L. Gray as Associate Director to the Florin Resource Conservation District Board of Directors, 5/0: Ayes: Dawson, Menasco, Mulberg, Nelson, and Lightfoot.

Vice-Chairman Chuck Dawson requested that staff provide clarity to the first sentence in the application process contained in the Associate Directors Policy "The application consist of a letter of interest stating qualifications and background in one of the areas of interest to the District and a resume or a letter of interest and three letters of recommendation by individuals familiar with the applicants work or qualifications."

5. Operations Report – May, 2014

General Manager Mark Madison highlighted the following activities:

- Door hangers – down from 336
- Meters installed – Distribution Department
 - 2 residential and 3 commercial
- Meters Retrofit –Utility Department
 - 39 residential and 1 commercial
- Well 1D – no water
- Well 4D – ran some
- Well 11D – heavy producer, ran often
- Well 14D – ran some
- Well 3 Marvell – ran a fair amount, air problem continues
- Well 8 Williamson – ran often
- Well 9 Polhemus – heavy producer, ran continually
- No additional water purchased from Sacramento County
- Combined total production down from last year – seem to be due to conservation/awareness.(same as last month)
- Static pumping levels – are up (same as last month)
- All samples were regular and submitted on time.
 - Additional samples were taken on the warf hydrant retrofits
- No discharge water
- Backflow prevention
 - Robust tracking system
 - 41 notices sent out
 - 23 passed
 - 6 failed
 - 18 Sis not respond – notices re-issued
 - 4 subsequently responded (3 passed, and 1 failed)
 - 14 remain outstanding
- Safety meetings - 5
- EGWD leaks – 7 service line leaks (corroded saddles)
- Main leaks – 1 (Caused by a contractor at Well 7)

Director Chuck Dawson inquired about whether or not the District properly marked for Underground Service Alert. General Manager Mark Madison replied that he is looking into the matter. Mr. Madison stated that the District will work with the other party and be fair.

6. Florin Resource Conservation District Fiscal Year 2014-15 Budget

Finance Manager Dennis Coleman presented the Florin Resource Conservation District Fiscal Year 2014-15 Budget.

Director Elliot Mulberg stated that the only service provided for the FRCD is sponsorship. He stated he would like to amend the budget allocating \$20,000 for a part-time individual who will search/obtain grants for the FRCD.

A discussion followed regarding how to fund the part-time individual.

Director Tom Nelson stated that the funds from the grant could pay for the salary of the individual.

Director Elliot Mulberg stated that maybe they could receive a percentage of the grant money as an incentive.

MSC (Mulberg/Dawson) to adopt Resolution No. 06.25.14.01 approving the Florin Resource Conservation District Fiscal Year 2014-15 Budget as amended, 5/0: Ayes: Dawson, Menasco, Mulberg, Nelson, and Lightfoot.

Director Don Menasco stated it takes money to make money.

Director Chuck Dawson stated he agreed with Director Elliot Mulberg.

7. Susie Gaines-Mitchell Building Fiscal Year 2014-15 Budget

Finance Manager Dennis Coleman presented the Susie Gaines-Mitchell Building Fiscal Year 2014-15 Budget.

No comments were made.

MSC (Lightfoot/Dawson) to adopt Resolution No. 06.25.14.02 approving the Economic Development Corporation Fiscal Year 2014-15 Budget, 5/0: Ayes: Dawson, Menasco, Mulberg, Nelson, and Lightfoot

8. Elk Grove Water District FY 2015-19 Capital Improvement Program

Associate Civil Engineer Bruce Kamilos presented the Elk Grove Water District FY 2015-19 Capital Improvement Program.

Mr. Kamilos presented the highlights captured from the Infrastructure Committee Meetings:

- Bull-head Replacements project
 - Board members were concerned with redundancy in work and asked staff to verify that none of the bullheads to be replaced are connected to 4" water mains. The Board stated that if some of the bullheads were connected to 4" water mains, those bullheads should be deferred and replaced at the same time the 4" water mains are replaced with larger mains.

At the May 12th Infrastructure Committee Meeting, staff presented exhibits showing that all the bullheads to be replaced are connected to water mains that are larger than 4" in diameter. The committee agreed that the Bullhead Replacements project as presented in the FY 2015-19 CIP was fine.

Mr. Kamilos stated that he would most likely be returning to the Board next month with an amendment to the FY 2015-19 CIP. The low bid for the Hampton Village Water Treatment

Plant Refurbishment project was in excess of the budgeted amount in the CIP. EGWD staff is meeting with the low bidder to discuss ways in which the bid may be reduced. The amendment to the CIP would be required to pay for the project.

Director Elliot Mulberg commented good job recapping the Infrastructure Committee Meetings.

Bob Gray inquired about the number of variable frequency drives planned for the "VFDs Booster Pumps" capital improvement project at the treatment plant. The description in the published CIP stated two booster pumps. Bruce Kamilos responded that most likely only one VFD would be required.

Mr. Gray also inquired about the backyard mains and if we were figuring the costs on that twice with the two separate CIP projects – one that replaces 4" water mains and the other that replaces the backyard mains.

Mr. Kamilos replied that the District would not be double dipping.

MSC (Nelson/Dawson) to adopt Resolution No. 06.25.14.03 adopting the Elk Grove Water District FY 2015-19 Capital Improvement Program and approving an appropriation of \$2,775,000 of unrestricted funds to the FY 2014-15 CIP Reserve Fund, 5/0: Ayes: Dawson, Menasco, Mulberg, Nelson, and Lightfoot

9. Proposed Elk Grove Water District Employee Policy Manual Changes

Human Resource Specialist Stefani Phillips presented the proposed Elk Grove Water District Employee Manual Changes.

Ms. Phillips highlighted the proposed changes:

Section 4.3.1 "Overview", amending policy:

The last sentence "Employees may be eligible to receive up to ten days paid leave per year or cash equivalent for meritorious service at the General Manager's discretion and consistent with an adopted FRCD budget" is proposed to be removed.

Section 4.3.7 "Longevity Pay", adding policy:

Longevity pay is to recognize long-term service. Effective July 1, 2014, full-time regular employees who have at least six (6) years of service shall receive a lump sum payment annually as outlined below.

Annual Longevity Pay amounts are based on the length of service with the District, beginning at year six (6) and capping at year 15, and a percentage of the employee's annual rate of base salary on their anniversary date. Employees will receive 1/2% percent of their salary, per year, up to the 15th year where it will cap. The employee will continue to receive the Longevity pay annually, for every year following the 15th year at the capped amount. Longevity amounts are computed by multiplying the employee's base salary by the appropriate percentage from the following table (not included in the minutes).

Payment shall be made during the same pay period following the employee's anniversary date in which they are eligible to receive longevity pay. This includes employees on workers' compensation leave.

Longevity Pay is reportable to California Public Retirement Systems as Incentive Pay under Special Compensation and is added to the yearly computations of an employee's annual pay.

Section 5.5.2 "Group Medical Premiums", amending policy:

For all employees who have submitted proof of group coverage, provided by a spouse through their employer by June 30, 2014, the eligible employee will be paid \$700 per month by EGWD. The Internal Revenue Service (IRS) considers this a taxable benefit and, as such, EGWD is required to report appropriately on an employee's W-2 form.

Associate Director Davies Ononiwu inquired if we were going to eventually discontinue the Opt-out.

Ms. Phillips responded that all the employees that currently have the benefit will continue to receive it and it will not be offered to anyone after July 1, 2014.

Mr. Ononiwu inquired why the policy is being revised.

The Board followed up with a response, stating that it was costing the District more to offer that benefit.

MSC (Lightfoot/Dawson) to adopt Resolution No. 06.25.14.04 of the Board of Directors of the Florin Resource Conservation District amending Sections 4.3.1 and 5.5.2 and adding section 4.3.7 to the Florin Resource Conservation District/Elk Grove Water District Employee Policy Manual regarding Longevity Pay and Opt-Out Pay, 5/0: Ayes: Dawson, Menasco, Mulberg, Nelson, and Lightfoot

10. Elk Grove Water District Fiscal Year 2014-15 Operating Budget

Finance Manager Dennis Coleman presented the Elk Grove Water District Fiscal Year 2014-15 Operating Budget.

No comments were made.

MSC (Dawson/Lightfoot) to adopt Resolution No. 06.25.14.05 approving the Elk Grove Water District Fiscal Year 2014-15 Operating Budget, 5/0: Ayes: Dawson, Menasco, Mulberg, Nelson, and Lightfoot

11. Legislative Update

General Manager Mark Madison presented the Legislative Update to the FRCD Board of Directors.

Mr. Madison presented the following highlights:

- AB 1739 and SB1168 (Groundwater basin management)
 - Both of these bills are significant and important to track. California is unregulated. SB1168 is being advocated to have local agencies regulate groundwater. If passed, this would represent hallmark change.
- SB848 (Safe Drinking Water, Water Quality and Flood Protection Act of 2014) – Water Bond
 - The proposals on this were most accepted and it did not pass on Monday, June 23, 2014. They plan to ignore the deadline. Staff will monitor closely.

- AB2043 (Safe, Clean and Reliable Water Supply Act of 2014) – minimal bond funding
 - This is not being supported by ACWA
- SB1250 and AB2686 (Safe, Clean and Reliable Water Supply Act of 2014) – higher bond financing, especially for Delta projects
 - This is being supported by ACWA

12. Committee Meeting(s) Update

No comments were made.

13. Directors Comments and Information

Vice-Chairman Chuck Dawson commented that he would like the District to look at converting the vehicles, as they are replaced, to natural gas as a conservation measure and tying it to asset management.

Director Tom Nelson stated the District will need to look at what the replacement cost would be.

Director Elliot Mulberg stated he would like for the District to schedule a Strategic Planning Workshop for the RCD activities.

Director Don Menasco stated he would like the District to look into solar energy also tying it to conservation and asset management.

General Manager Mark Madison responded that he would like to look at that as an option when the parking lot for the Railroad Water Treatment Plant is put in. He said that staff will present options.

Chairman Barrie Lightfoot asked if August would work.

Mr. Madison replied okay.

Bob Gray stated that installing solar panels at the parking lot may present problems.

Mr. Madison responded that the District will need to be careful how we proceed working with the vendors.

14. Closed Session

CONFERENCE WITH LABOR NEGOTIATORS (Gov't. Code Section 54957.6)

Agency designated representatives: Mark Madison and Stefani Phillips

Unrepresented employee: Finance Manager

This item was removed from the agenda by a consensus of the Board of Directors.

Respectfully submitted,

Stefani Phillips

Stefani Phillips, Secretary



**FRCD Cash Flow
For the Month Ended June 30, 2014**

Cash in Bank – Beginning	\$143,645.63
Receipts:	
Interest Earned	9.45
Disbursements:	
Service Charge Debit	
Cash in Bank – Ending	\$ 143,655.08



Check History Report

6/1/2014 to 6/30/2014
Elk Grove Water District

Check Number	Check Date	Vendor Number	Vendor Name	Check	Explanation
036711	6/2/2014	ACWAJPI	CB&T/ACWA-JPIA	46,064.50	May-14
036712	6/2/2014	ACWAJPI	CB&T/ACWA-JPIA	46,064.50	Jun-14
036713	6/2/2014	JAN PRO	JAN-PRO CLEANING SYSTEMS	270.00	Janitorial
036714	6/2/2014	KIASER2	JOYCE E. KIASER	823,680.38	Loan Payoff for 9257 Elk Grove Blvd Trash/Recycle-ADMIN
036715	6/2/2014	REPUBLI	REPUBLIC SERVICES #922	674.24	
036716	6/2/2014	KIASER2	JOYCE E. KIASER	9,412.58	
036737	6/4/2014	COUNTY5	COUNTY OF SACRAMENTO	5,775.00	Sacramento County Radio Services- Radios
036738	6/4/2014	CRF DGW	DEBORAH & GREYLIN WILLIAMS	6.08	Account Closed- Customer Refund
036739	6/4/2014	CRF GKW	GREG & KOOKYE WILLIAMS	40.22	Account Closed- Customer Refund
036740	6/4/2014	CRF HJ	HEATHER JONES	5.81	Account Closed- Customer Refund
036741	6/4/2014	CRF HSP	HARI & SUNIL PRASAD	17.51	Account Closed- Customer Refund
036742	6/4/2014	CRF NR	NICOLE ROGERS	8.94	Account Closed- Customer Refund
036743	6/4/2014	CRF NT	NORTH AMERICAN TITLE COMPANY	11.66	Account Closed- Customer Refund
036744	6/4/2014	CRF29	29 SAC INCU, LP	437.86	Account Closed- Customer Refund
036745	6/4/2014	EFFECT	EFFECTIVE PHONE SOLUTIONS INC.	1,120.22	Disaster Recovery Backup offsite
036746	6/4/2014	FTB 3	FRANCHISE TAX BOARD	169.60	
036747	6/4/2014	JAN PRO	JAN-PRO CLEANING SYSTEMS	245.00	Janitorial
036748	6/5/2014	T NELSO	TOM NELSON	527.95	Reimbursement for Lodging-ACWA
036749	6/12/2014	ABBEY	ABBEY FLOORING, INC	3,803.00	Final payment for Carpet Replacement-ADMIN
036750	6/12/2014	ALAN AR	ALAN ARAGON	496.48	Clothing Reimbursement
036751	6/12/2014	BG SOLU	SOLUTIONS BY BG INC.	2,475.00	Daily Tasks & Help Tickets
036752	6/12/2014	BG SOLU	SOLUTIONS BY BG INC.	156.00	Daily Tasks & Help Tickets
036753	6/12/2014	BSK4	BSK ASSOCIATES	600.00	Sampling-Treatment
036754	6/12/2014	CLAYBAR	CLAYBAR ENGINEERING	4,604.00	RRWTF Parking Lot Improvements
036755	6/12/2014	COMSTOC	COMSTOCK JOHNSON ARCHITECTS	770.00	ADMIN- Building Improvements
036756	6/12/2014	CONSOLI	CONSOLIDATED COMMUNICATIONS	1,212.72	Phones-MOC/ADMIN
036757	6/12/2014	COUNTY	COUNTY OF SACRAMENTO	338,910.49	Sacramento County Water Charges-March/April
036758	6/12/2014	DATAPRO	DATAPROSE LLC	7,802.13	Monthly Billing
036759	6/12/2014	EG FORD	ELK GROVE FORD	33,106.43	Replacement Vehicle for truck 203-Distribution
036760	6/12/2014	GRAINGE	GRAINGER	1,136.85	Safety Supplies-Operations
036761	6/12/2014	HANFORD	HANFORD READY MIX INC.	271.65	Fuel
036762	6/12/2014	INT STA	INTERSTATE OIL COMPANY	2,653.96	Materials/Supplies-Metro Distribution
036763	6/12/2014	JAYS	JAY'S TRUCKING SERVICE	324.33	Materials/Supplies-Metro Retro
036764	6/12/2014	PACE	PACE SUPPLY CORP	4,918.81	Materials/Supplies-Metro Retro
036765	6/12/2014	PLATT2	PLATT	55.84	
036766	6/12/2014	RADIAL	RADIAL TIRE OF ELK GROVE	252.75	Various invoices-Repairs and Maintenance on Vehicles
036767	6/12/2014	RCB DC	CARD SERVICE CENTER	729.23	New Printer-Finance, Computer Supply-OPS
036768	6/12/2014	RCB EC	CARD SERVICE CENTER	902.00	Seminars/Conventions-AWWA, Hotel
036769	6/12/2014	RCB MM	CARD SERVICE CENTER	969.21	Hotel-AWWA, Meals, Contracted Services, Parking
036770	6/12/2014	RCB RS	CARD SERVICE CENTER	1,318.60	Materials/Supplies-Meter Retro
036771	6/12/2014	RCB SP	CARD SERVICE CENTER	63.51	Meeting (Lunch), Employee Recognition
036772	6/12/2014	RCB SS	CARD SERVICE CENTER	743.97	Materials/Supplies-Treatment
036773	6/12/2014	SAC BEE	THE SACRAMENTO BEE	700.00	Advertisement-Administrative Assistant/Distribution
036774	6/12/2014	SIERRA	SIERRA OFFICE SUPPLIES	934.77	
036775	6/12/2014	SIGN CE	THE SIGN CENTER	84.50	

Account Number	Date	Description	Amount	Category
036776	6/12/2014	TELSTAR	4,993.24	Trouble Shooting/Repair Rectify for Cloretec Unit
036777	6/12/2014	TOSHIBA	528.93	Admin-Copier
036778	6/12/2014	TRAFF S	32.40	Air cards-Laptops/On call Phone
036779	6/12/2014	VERIZON	649.47	Clothing Reimbursement
036780	6/18/2014	WIL	387.32	
036781	6/18/2014	ADT	95.68	
036782	6/18/2014	ARC	146.83	
036783	6/18/2014	BEST	225.90	Legal
036784	6/18/2014	BG SOLU	2,200.00	Daily Tasks & Help Tickets
036785	6/18/2014	BRINKS	270.19	Security-Admin
036786	6/18/2014	CHUCKS	236.69	Ethernet Service
036787	6/18/2014	CONSOLI	236.86	Account Closed- Customer Refund
036788	6/18/2014	COUNTY4	93.23	Account Closed- Customer Refund
036789	6/18/2014	CR NTC	139.93	Account Closed- Customer Refund
036790	6/18/2014	CR TC	258.42	Account Closed- Customer Refund
036791	6/18/2014	CR TC	51.02	Account Closed- Customer Refund
036792	6/18/2014	CR TC	59.98	Account Closed- Customer Refund
036793	6/18/2014	CRCHTC	61.43	Account Closed- Customer Refund
036794	6/18/2014	CRF COF	15.51	Account Closed- Customer Refund
036795	6/18/2014	CRF FT	15.09	Account Closed- Customer Refund
036796	6/18/2014	CRF FT	39.69	Account Closed- Customer Refund
036798	6/18/2014	CRF IMC	31.73	Account Closed- Customer Refund
036799	6/18/2014	CRF JAL	1,203.84	Account Closed- Customer Refund
036800	6/18/2014	CRF JLL	16.81	Account Closed- Customer Refund
036801	6/18/2014	CRF JOS	55.48	Account Closed- Customer Refund
036802	6/18/2014	CRF NT	130.97	Account Closed- Customer Refund
036803	6/18/2014	CRF NT	72.63	Account Closed- Customer Refund
036804	6/18/2014	CRF OC	110.14	Account Closed- Customer Refund
036805	6/18/2014	CRF OLD	141.96	Account Closed- Customer Refund
036806	6/18/2014	CRF R R	186.22	Account Closed- Customer Refund
036807	6/18/2014	CRF RCM	76.46	Account Closed- Customer Refund
036808	6/18/2014	CRF SEF	193.82	Account Closed- Customer Refund
036809	6/18/2014	CRF SZS	0.25	Account Closed- Customer Refund
036810	6/18/2014	CRF YUZ	1,602.62	Account Closed- Customer Refund
036811	6/18/2014	CRFGS	16.95	Account Closed- Customer Refund
036812	6/18/2014	CRFGTR	32.58	Account Closed- Customer Refund
036813	6/18/2014	CRNTF	38.23	Account Closed- Customer Refund
036814	6/18/2014	CRNTF	69.28	Account Closed- Customer Refund
036815	6/18/2014	CROCTC	180.57	Account Closed- Customer Refund
036816	6/18/2014	E&M	82.07	Account Closed- Customer Refund
036817	6/18/2014	FASTENA	26,902.31	Annual Support/Redundancy a License costs for System-Wonderware
036818	6/18/2014	GFOA	44.99	
036819	6/18/2014	HMS	160.00	Annual Membership Dues-Finance
036820	6/18/2014	INT STA	850.00	Materials/Supplies-Treatment
036821	6/18/2014	LAKE V	1,913.00	Fuel
036822	6/18/2014	PACE	212.50	Materials/Supplies-Metro Retro/Distribution
036823	6/18/2014	PAULA M	11,745.47	Yearly shirts & Hats-Operations-June 2014
036824	6/18/2014	PEST	1,609.20	
036825	6/18/2014	PG&E	160.00	
036826	6/18/2014	PHENIX	8.12	
036827	6/18/2014	PIT 4	3,250.00	CCR-Postage
036828	6/18/2014	POLLARD	520.99	Postage Machine-ADMIN
036829	6/18/2014	POWER	135.78	
036830	6/18/2014	RADIAL	61.93	
036831	6/18/2014	RDO 1	1,732.69	Various invoices-Repairs and Maintenance on Vehicles
			97.37	

036832	6/18/2014	SALAS	RICHARD SALAS	481.41	Clothing Reimbursement
036833	6/18/2014	SIERRA	SIERRA OFFICE SUPPLIES	685.13	Materials/Supplies-Treatment
036834	6/18/2014	T&T VAL	T&T VALVE AND INSTRUMENT	732.81	
036835	6/18/2014	TRAFF S	TRAFFIC SIGN SPECIALTIES	33.75	
036836	6/26/2014	AFLAC	AFLAC	2,461.52	Daily Tasks & Help Tickets
036837	6/26/2014	BG SOLU	SOLUTIONS BY BG INC.	2,488.75	Daily Tasks & Help Tickets
036838	6/26/2014	BG SOLU	SOLUTIONS BY BG INC.	770.00	OPEB-June 2014
036839	6/26/2014	CALPER3	CALPERS FISCAL SERVICES DIV	46,519.00	Clothing Reimbursement
036840	6/26/2014	CARRILL	JOSE CARRILLO	475.07	
036841	6/26/2014	CDPH	CDPH-OCF	60.00	
036842	6/26/2014	FASTENA	FASTENAL COMPANY	132.47	
036843	6/26/2014	GOLDEN	GOLDEN STATE FLOW MEASUREMENT	403.86	Materials/Supplies-Metro Retro/Distribution
036844	6/26/2014	HANFORD	HANFORD READY MIX INC.	547.05	Materials/Supplies-Metro Retro/Distribution
036845	6/26/2014	HEWITT	Aaron Hewitt	108.95	Clothing Reimbursement
036846	6/26/2014	INT STA	INTERSTATE OIL COMPANY	2,255.10	Fuel
036847	6/26/2014	JAYS	JAY'S TRUCKING SERVICE	854.21	Materials/Supplies-Metro Retro/Distribution
036848	6/26/2014	M COSTA	MICHELLE A. COSTA-NORWOOD	32.51	
036849	6/26/2014	MENDOZA	SALVADOR MENDOZA	205.15	Clothing Reimbursement
036850	6/26/2014	PAC BEN	PACIFIC BENEFIT CONSULTANTS	100.00	
036851	6/26/2014	PACE	PACE SUPPLY CORP	21,033.98	Materials/Supplies-Metro Retro/Distribution
036852	6/26/2014	PAPE	PAPE'S MATERIAL HANDLING.	486.86	Materials/Supplies-Treatment
036853	6/26/2014	PAULA M	PAULA MAITA & COMPANY	1,851.79	Yearly shirts & Hats-Operations-June 2014
036854	6/26/2014	RCBJC	CARD SERVICE CENTER	699.11	Materials/Supplies-Distribution
036855	6/26/2014	ROOCO	ROOCO RENTS	25.00	
036856	6/26/2014	SIERRA	SIERRA OFFICE SUPPLIES	343.12	
036857	6/26/2014	VALL MO	VALLEY MOTOR PARTS	4.74	
036858	6/26/2014	ZOOM	ZOOM IMAGING SOLUTIONS, INC	115.11	
036859	6/26/2014	PETTY	PETTY CASH	269.80	
036860	6/30/2014	HEWITT	Aaron Hewitt	213.80	
036861	6/30/2014	HINTON	SEAN HINTON	258.00	Clothing Reimbursement
036862	6/30/2014	J MELLO	JUSTIN MELLO	173.60	Clothing Reimbursement
036863	6/30/2014	JMENDOZ	JOSE MENDOZA	267.39	Clothing Reimbursement
036864	6/30/2014	MENDOZA	SALVADOR MENDOZA	93.80	Clothing Reimbursement
036865	6/30/2014	MONTIEL	MICHAEL MONTIEL	170.99	Clothing Reimbursement
036866	6/30/2014	VANCE	JOHN VANCE	433.02	Clothing Reimbursement
036867	6/30/2014	SHAW	STEVE SHAW	201.60	Clothing Reimbursement
036868	6/30/2014	B WAGNE	BRANDON WAGNER	173.57	Clothing Reimbursement
				Total:	1,495,075.07

Elk Grove Water District
Active Account Information
6/30/2014

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE
Water Accounts:												
Non-metered												
Residential	938	947	813	594	475	422	384	342	294	241	187	137
Commercial	110	110	110	110	108	102	102	89	81	51	50	47
Metered												
Residential	10,605	10,595	10,724	10,949	11,034	11,093	11,141	11,163	11,213	11,271	11,381	11,543
Commercial	388	392	397	394	394	397	397	414	421	451	454	458
Fire Service	123	123	123	123	123	123	123	123	123	121	121	122
Total Accounts	12,164	12,167	12,167	12,170	12,134	12,137	12,147	12,131	12,132	12,135	12,193	12,307

Elk Grove Water District
Active Account Information
FY 2012/2013

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE
Water Accounts:												
Non-metered												
Residential	2,967	2,769	2,342	2,323	2,176	2,071	1,874	1,615	1,350	1,471	1,315	1,074
Commercial	123	123	123	123	123	117	116	118	117	116	116	119
Metered												
Residential	8,717	8,933	9,269	9,287	9,400	9,583	9,662	9,988	10,166	10,163	10,344	10,449
Commercial	380	380	380	380	380	382	383	381	384	382	383	382
Fire Service	118	118	118	118	118	119	129	123	123	123	123	124
Total Accounts	12,305	12,323	12,232	12,231	12,197	12,272	12,164	12,225	12,140	12,255	12,281	12,148

Consent
Calendar Item# d

Elk Grove Water District

Bond Covenant Status

For Fiscal Year 2013-14

As of June 30, 2014

Operating Revenues:

Charges for Services	\$	13,871,983
----------------------	----	------------

Operating Expenses:

Salaries & Benefits		3,210,019
Seminars, Conventions and Travel		18,368
Office & Operational		3,562,507
Outside Services		467,275
Equipment Rent, Taxes, and Utilities		401,037
Depreciation & Amortization		1,931,820
Total Operating Expenses		9,591,027

Income From Operations	\$	<u>4,280,956</u>
-------------------------------	-----------	-------------------------

Covenant Number 1

Income From Operations		4,280,956
Add: Depreciation & Amortization Expenses		1,931,820 *
Add: Rate Stabilization Fund (See note)		971,782 *
Total		7,184,558

Interest & Principal Payments		
2,595,984 interest + 1,175,000 principal		3,770,984

Coverage Ratio:

Actual		1.91
Required		1.25

Covenant Number 2

Income From Operations		4,280,956
Add: Depreciation & Amortization Expenses		1,931,820
Total		6,212,776

Interest & Principal Payments		
2,595,984 interest + 1,175,000 principal		3,770,984

Coverage Ratio:

Actual		1.65
Required		1.15

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

**Florin Resource Conservation District
CASH - Detail Schedule of Investments
6/30/2014**

Consent
Calendar Item# 9

G/L Account #	Money Market Fund	Account number / name	Investment Name	Investment Type	Restrictions	Market Value
HELD BY BOND TRUSTEE:						
1130-000-30	Building	BNY 113518 FRCD OB 2003 A/B Rev Fd	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	\$ 431,961.94
	Building	BNY 113522 FRCD OB 2003 B SUB IPF	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	0.00
	Building	BNY 113591 FRCD OB 03 A/B O/M RES FD	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	180,323.49
1132-000-30	Building	BNY 113594 FRCD OB 03 A/B RES FD	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	460,000.00
	Building	BNY 113598 FRCD 03 A INST PMT FD	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	0.00
	Building	BNY 113599 FRCD OB 03 A SR IPF	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	0.00
1133-000-30	Building	BNY 113601 FRCD 2003 A/B CAR/PAINT EXP	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	3,774.72
1134-000-30	Building	BNY 113602 FRCD 2003 A/B ADMIN EXP FD	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	20,740.30
1103-000-20	Water	BNY 113757 FRCD 2002 INST PMT SER B	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	1.00
	Water	BNY 113759 FRCD 2002 INST PMT SER B	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	0.01
	Water	BNY 113756 FRCD INST PMT SER A	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	0.00
1102-000-20	Water	BNY 113576 FRCD 2003 A CONST FUND	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	1,320.94
1107-000-20	Water	BNY 113584 FRCD 2005 A CONST FUND	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	0.00
1122-000-20	Water	BNY 113585 FRCD 2005 A INST PM	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	1.00
1123-000-20	Water	BNY 113586 FRCD 2005 A RATE STAB	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	192,417.68
1121-000-20	Water	BNY 113587 FRCD 2005 A RES FD	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	1.00
1101-000-20	Water	BNY 113764 FRCD 2002 A/B RATE STABILIZATION	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	779,363.83
			Subtotal			\$ 2,069,905.91
1001-000-20	Water	CASH ON HAND			Unrestricted	\$ 300.00
HELD BY RIVER CITY BANK:						
1010-000-10	FRCD	RCB 1111057982 CHECKING ACCOUNT			Unrestricted	143,655.08
1010-000-20	Water	RCB 1111063486 GENERAL CHECKING			Unrestricted	254,827.91
1020-000-20	Water	RCB 1111028001 MONEY MARKET			Unrestricted	5,216,526.22
1030-000-20	Water	RCB 1111025851 CHARGE CARD ACCOUNT			Unrestricted	103,790.74
1040-000-20	Water	RCB 1111096589 HIGH YIELD MONEY MARKET			Unrestricted	3,178,134.16
1050-000-20	Water	RCB 1111099502 DEBT SERVICE ACCOUNT			Unrestricted	30,405.41
1060-000-20	Water	RCB 1111097844 PAYROLL ACCOUNT			Unrestricted	203,362.45
1070-000-20	Water	RCB 1111097933 WEB PAYMENT RECEIPTS			Unrestricted	333,516.81
			Subtotal			\$ 9,464,218.78
1080-000-20	Water	Office of the Treasurer - Sacramento California	LAIF	Investment Pool	Unrestricted	\$ 2,827,345.40
				N/A		
			Total			\$ 14,361,770.09
			Total Restricted			\$ 2,069,905.91
			Total Unrestricted			\$ 12,291,864.18

July 23, 2014

TO: Chairman and Directors of the Florin Resource Conservation District
FROM: Mark J. Madison, General Manager
SUBJECT: OPERATIONS REPORT – JUNE 2014

RECOMMENDATION

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

Summary

The Operations Report is a standing item on the regular board meeting agenda.

All regulatory requirements were met for the month of June. 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 Operations Report.

Present Situation

The June Operations Report highlights are as follows:

- **Operations Activity Report** – Information yielded in this section is derived from the District's Cityworks database. Notable items in the activity report are that the District hung 361 door hangers for past due balances which resulted in 50 shutoffs.
- **Production** – The Combined Total Production graph on page 13 shows that production during the month of June decreased compared to June 2013. The

OPERATIONS REPORT - June 2014

Page 2

production decrease is likely attributable to reductions in customer water consumption due to the drought.

- **Static/Pumping Levels** – No soundings were taken during June. The next quarterly soundings will be completed in July, 2014.
- **Treatment** – All samples taken during the month of June 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.
- **Maintenance** – All preventative maintenance activities were performed during the month of June in conformance with the District's Preventative Maintenance Program. The tables included in this section of the report also include certain activities completed to date in June. Below is a list of out-of-ordinary maintenance work completed in June.
 - Treatment staff assisted the other divisions by performing various required bacteriological sampling during district construction projects.
 - Technicians made repairs to the air conditioning unit in the VFD cabinet at Well 4D.
 - A SMUD Transformer failed at the Railroad Treatment Plant prompting its replacement without delay.
 - The Drinking Water Monitoring Schedule, sampling plan, and archived records were cross-checked and proofread to confirm complete accuracy.
 - Certain staff members attended an AWWA conference.
 - The Annual Employee Appreciation party was held at the Railroad Operations Yard.
- **Backflow** –There were forty one (41) notices issued with a due date of June, 2014. Twenty (20) devices passed on the initial test. A total of three (3) devices failed on the initial test, but two of them passed on the final test performed. There were nineteen (19) secondary notices issued for devices that were not received by the due date of June 30, 2014. There are a total of 30 devices overall that are outstanding as of the date of this report, which will require further investigation.
- **Leak Map** – There were seven (8) service line leaks and one (1) main line leak reported in June.
- **Meter Retrofit** – The Utility Department installed fourteen (14) meters for residential backyard services.

OPERATIONS REPORT - June 2014

Page 3

- **Safety Report** – There were five (5) safety training sessions conducted in June. Only two (2) safety sessions are required by OSHA standards.

Information Technology – To protect the network, the District has a strong commercial grade firewall that runs a real-time intrusion detection system. All ports by default are blocked, except the ones we need to allow through for public access (web and secure web, as well as remote desktop and email). The monthly report is generated by the District's firewall. Attempts against the network in June were 553 compared to 1051 last month.

Strategic Plan Conformity

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

Elk Grove Water District

Operations Report

Table of Contents

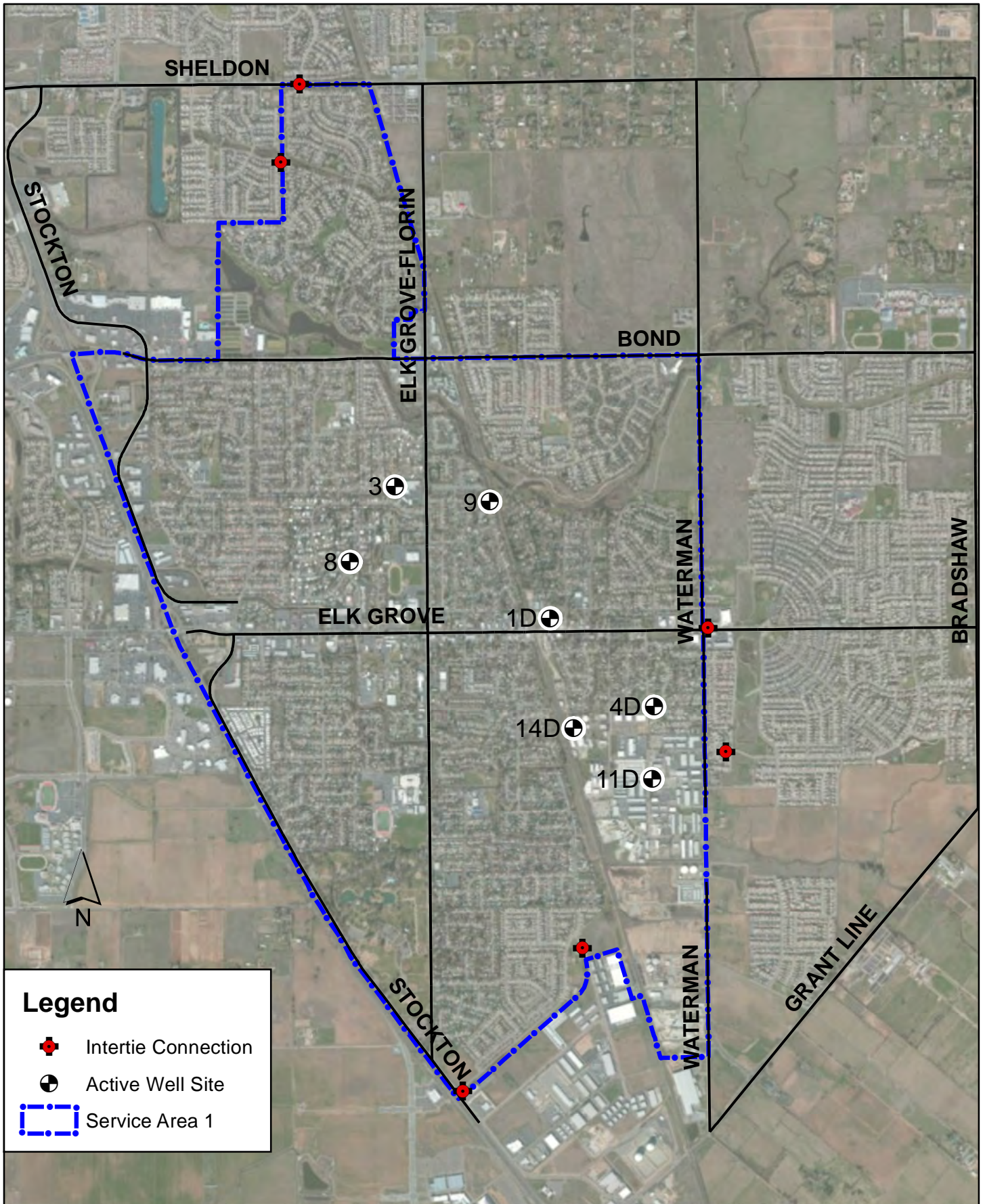
1. Operations Activity Report.....	3
2. Production Reports.....	4
a. Overall Map	
<i>i. Well 1D School Street</i>	5
<i>ii. Well 4D Webb Street</i>	6
<i>iii. Well 11D Dino</i>	7
<i>iv. Well 14D Railroad</i>	8
<i>v. Well 3 Marvel</i>	9
<i>vi. Well 8 Williamson</i>	10
<i>vii. Well 9 Polhemus</i>	11
<i>viii. SCWA Turnout</i>	12
b. Combined Comparison	13
3. Static/Pumping Levels.....	14
a. Graph	
<i>i. Well 1D School Street</i>	14
<i>ii. Well 4D Webb</i>	15
<i>iii. Well 11D Dino</i>	16
<i>iv. Well 14D Railroad</i>	17
<i>v. Well 3 Marvel</i>	18
<i>vi. Well 8 Williamson</i>	19
<i>vii. Well 9 Polhemus</i>	20
4. Treatment.....	21
a. Monthly Water Sample Report	21
<i>i. Well 1D School Street</i>	
<i>ii. Well 4D Webb Street</i>	
<i>iii. Well 11D Dino</i>	
<i>iv. Well 14 D Railroad</i>	
<i>v. Well 3 Marvel</i>	
<i>vi. Well 8 Williamson</i>	
b. CDPH Reports	25
<i>i. Monthly</i>	26
c. Monthly SRCSD Report	27

5. Maintenance.....	30
a. Master Schedule	
<i>i. MCC & Lab</i>	30
<i>ii. Chlor – Tec</i>	31
<i>iii. Filter Vessels</i>	32
<i>iv. Booster Pumps</i>	33
<i>v. Backwash System/Storage Tanks</i>	34
<i>vi. Standby Generator</i>	35
<i>vii. Well 1D School</i>	36
<i>viii. Well 4D Webb</i>	37
<i>ix. Well 11D Dino</i>	38
<i>x. Well 14D Railroad</i>	39
<i>xi. Well 3 Marvel</i>	40
<i>xii. Well 8 Williamson</i>	41
<i>xiii. Well 9 Polhemus</i>	42
6. Backflow Report	43
a. Report	
7. Safety Report.....	44
a. Safety Meeting Weekly Report	
8. Meter Retrofit Program Report	45
a. Map	
9. Water Main/Service Leak Map.....	46
a. Map	
10. Sample Station Pressure Zone Maps.....	47
a. Overall Map	47
b. Zone Maps	48
11. Information Technology.....	58




Operations Activity Report

<u>Service Requests:</u>	Jun-14		YTD (Since July 1, 2013)	
<u>Division</u>	<u>Service Request</u>	<u>Hours</u>	<u>Service Request</u>	<u>Hours</u>
Distribution				
Low Pressure	8	3.25	46	15.85
Water Quality	4	2	28	13.5
Door Hangers	361	18.75	4973	262.5
Shut offs	55	8.75	758	167.5
Turn ons	59	9.75	878	126
Investigations	124	31	1116	357.3
USA Locates	112	28	669	171.85
Customer Complaints	0	0	1	0.25

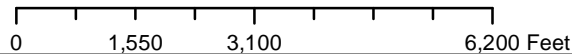
<u>Work Orders:</u>	Jun-14		YTD (Since July 1, 2013)	
<u>Division</u>	<u>Work Orders</u>	<u>Hours</u>	<u>Work Orders</u>	<u>Hours</u>
Treatment:				
Preventative Maint.	28	54.5	223	800.25
Corrective Maint.	4	17.5	30	217.5
Water Samples	14	38	113	384.5
Distribution:				
Meters Installed	0	0	65	539.63
Preventative Maint	0	0	14	237.75
Corrective Maint	12	78.5	280	1379.54
Valve Exercising	124	25.5	1201	320.75
Valve Locates	0	0	15	117.5
Hydrant Maintenance	25	63.25	550	559.25
Hydrant Flushing	0	0	321	256.5
Utility:				
Meters Installed	14	576	784	11573
Corrective Maint	0	0	0	0



Legend

-  Intertie Connection
-  Active Well Site
-  Service Area 1

Active Well Sites & Intertie Connections



Elk Grove Water District



Elk Grove Water District

Monthly Production

Well 1D School St -- June 2014

Selected Month Production
224,684 Gallons

Average GPM:
1,872

Motor:

Volts: 469
Volts (Rated): 460
RPM: 2118
RPM (Rated): 2115
Amps A: 181
Amps A (Rated): 222
Amps B: 182
Amps B (Rated): 222
Amps C: 171
Amps C (Rated): 222

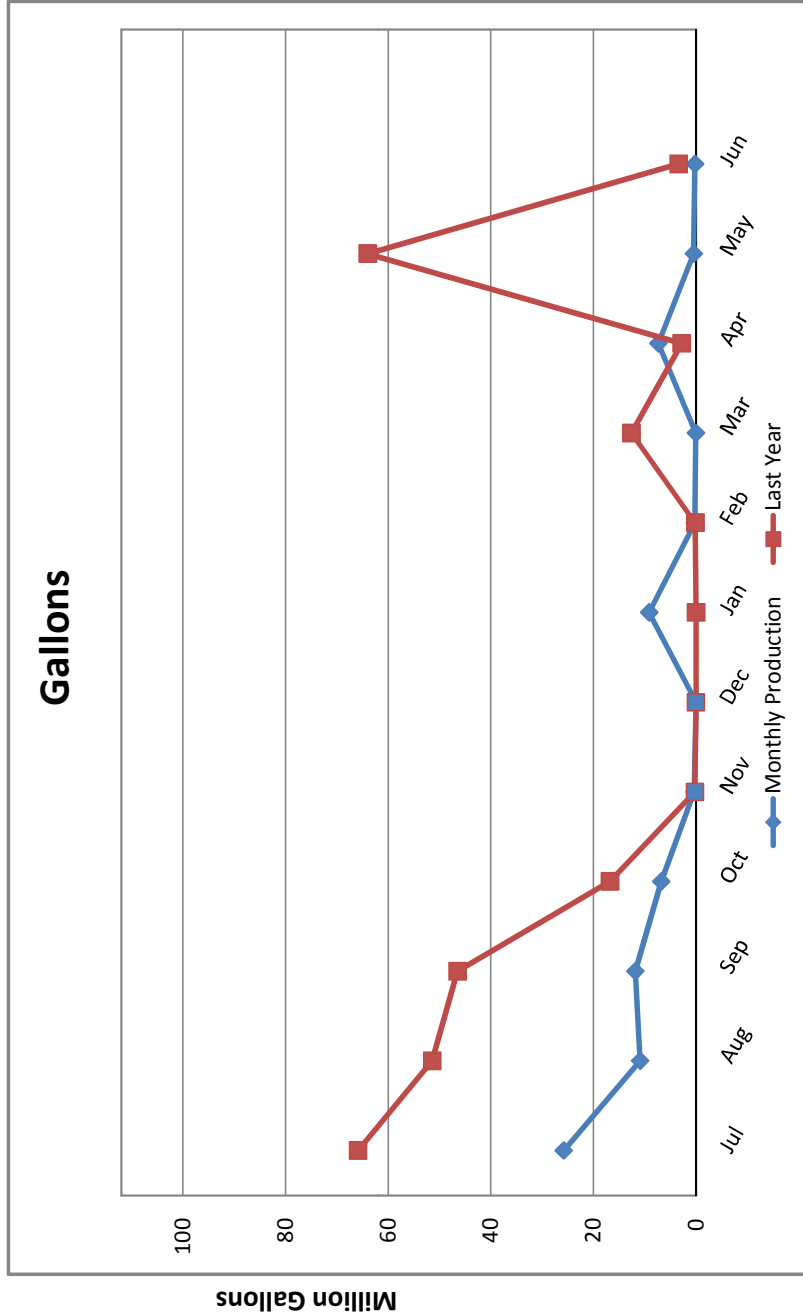
Motor Temp: 93.9
Hour Meter: 2.00
KW Hour Total: 960.00

Chlorine:

Dosing: 1.58 mg/L
Demand: 0.75 mg/L
Residual: 0.83 mg/L

Vibration Reading:

Base Line: 0.02 in/sec
Current: 0.03 in/sec





Elk Grove Water District

Monthly Production

Well 4D Webb St -- June 2014

Selected Month Production
24,092,866 Gallons

Average GPM:
1,705

Motor:

Volts: 428
Volts (Rated): 460
RPM: 1863
RPM (Rated): 1775
Amps: 178
Amps (Rated): 225

*Due to safety reasons, three separate AMP readings were not collected.

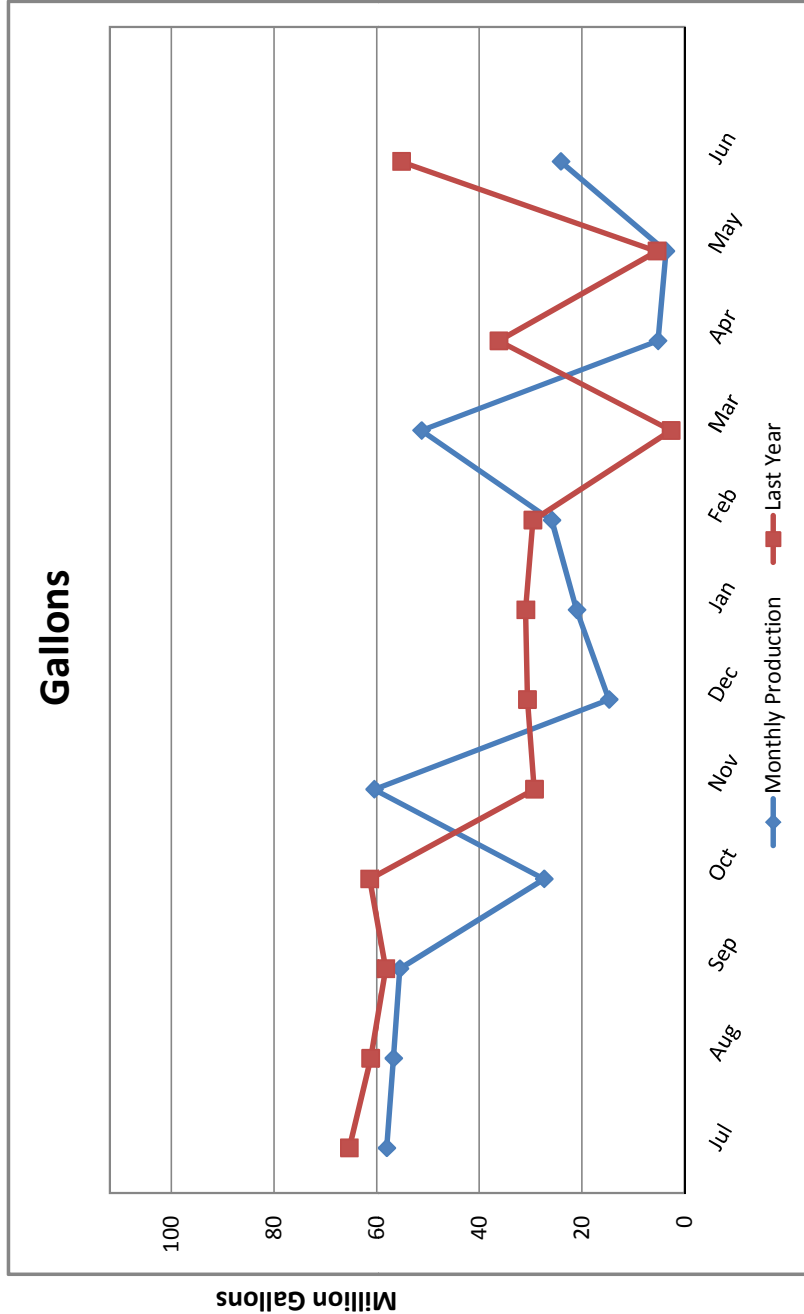
Motor Temp: 143.7
Hour Meter: 235.50
KW Hour Total: 28,860.00

Chlorine:

Dosing: 1.58 mg/L
Demand: 0.75 mg/L
Residual: 0.83 mg/L

Vibration Reading:

Base Line: 0.02 in/sec
Current: 0.04 in/sec





Elk Grove Water District

Monthly Production

Well 111D Dino -- June 2014

Selected Month Production
73,400,755 Gallons

Average GPM:
1,703

Motor:

Volts: 409
Volts (Rated): 460
RPM: 1855
RPM (Rated): 1775
Amps: 181
Amps (Rated): 225

*Due to safety reasons, three separate AMP readings were not collected.

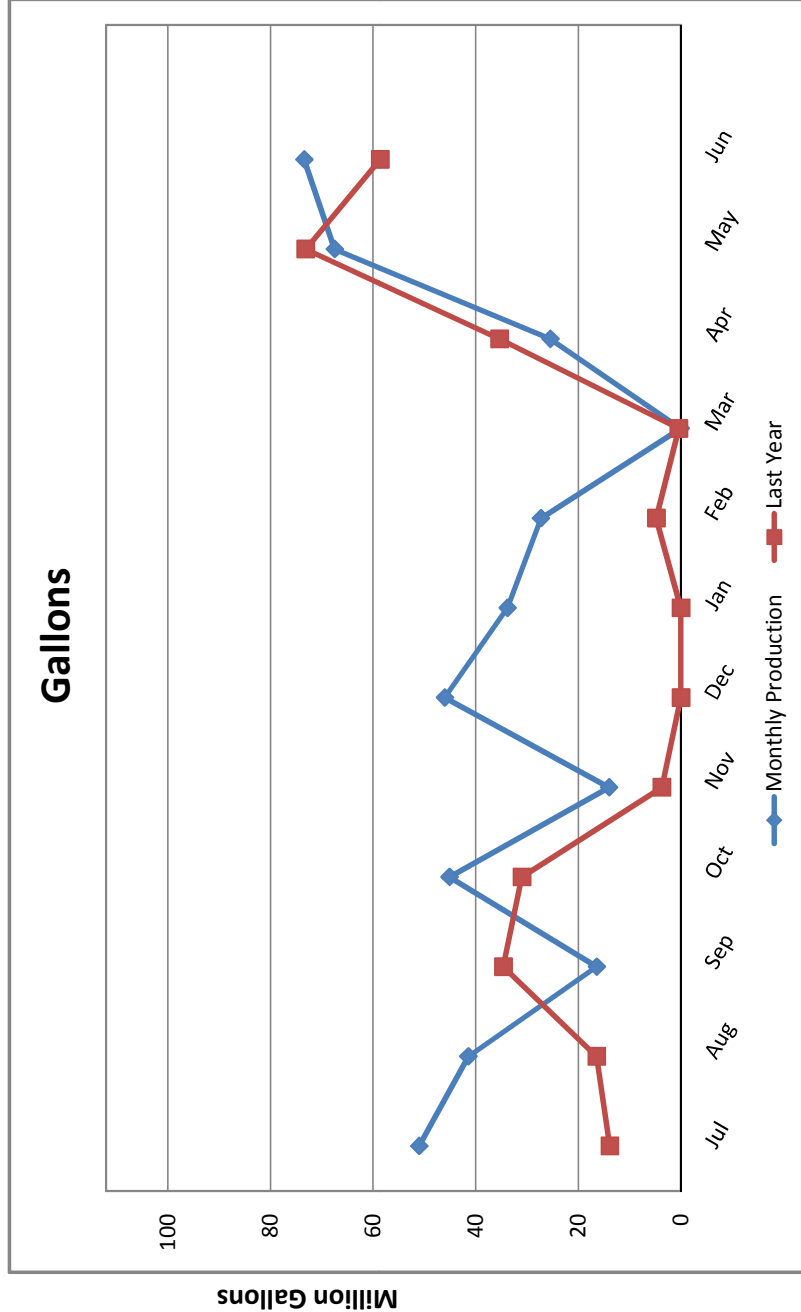
Motor Temp: 138
Hour Meter: 718.10
KW Hour Total: 83,160.00

Chlorine:

Dosing: 1.62 mg/L
Demand: 0.75 mg/L
Residual: 0.87 mg/L

Vibration Reading:

Base Line: 0.02 in/sec
Current: 0.04 in/sec





Elk Grove Water District

Monthly Production

Well 14D Railroad -- June 2014

Selected Month Production
17,073,318 Gallons

Average GPM:
1,580

Motor:

Volts: 481
 Volts (Rated): 460
 RPM: 2081
 RPM (Rated): 1785
 Amps A: 165
 Amps A (Rated): 171
 Amps B: 165
 Amps B (Rated): 171
 Amps C: 155
 Amps C (Rated): 171

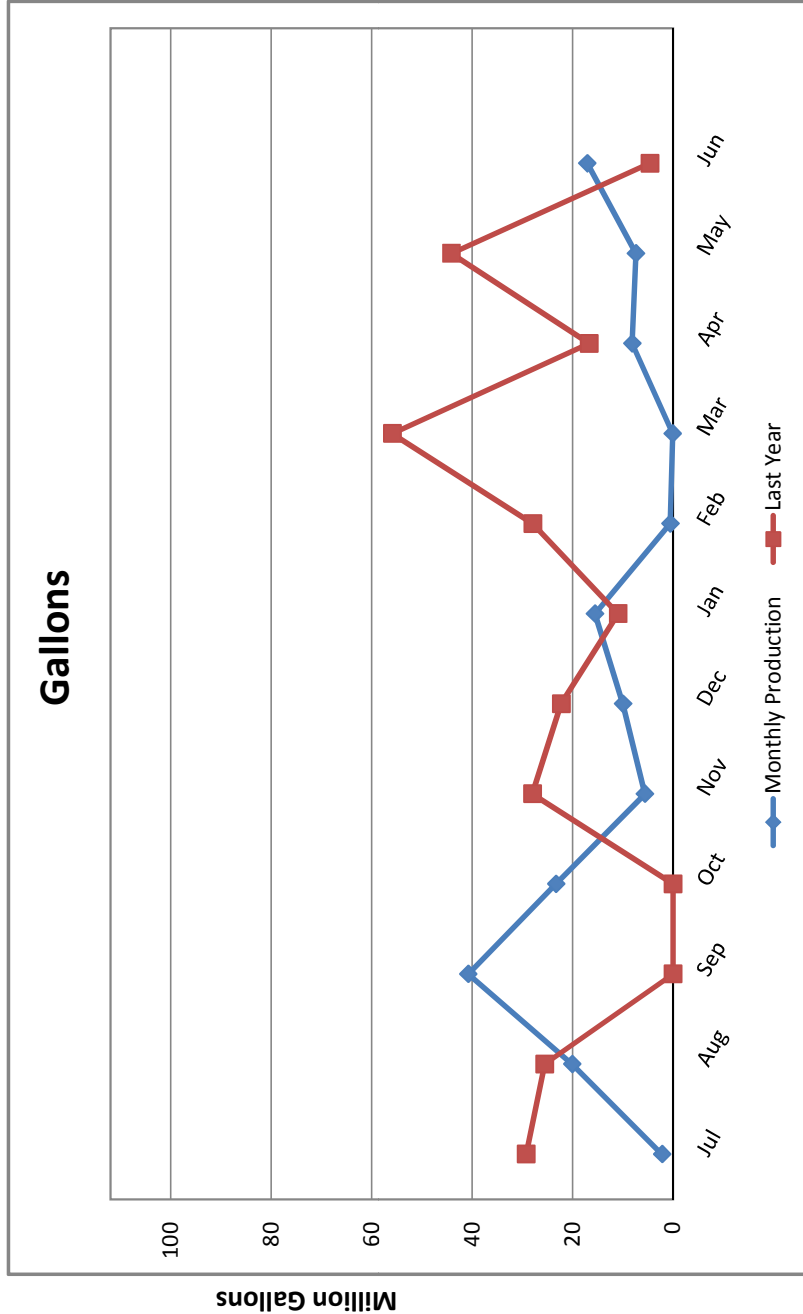
Motor Temp.: 118.7
 Hour Meter: 180.10
 KW Hour Total: 98,400.00
 (KWH total is for the entire facility)

Chlorine:

Dosing: 1.73 mg/L
 Demand: 0.86 mg/L
 Residual: 0.87 mg/L

Vibration Reading:

Base Line: 0.02 in/sec
 Current: 0.04 in/sec





Elk Grove Water District

Monthly Production

Well 3 Marvell -- June 2014

Selected Month Production
7,085,000 Gallons

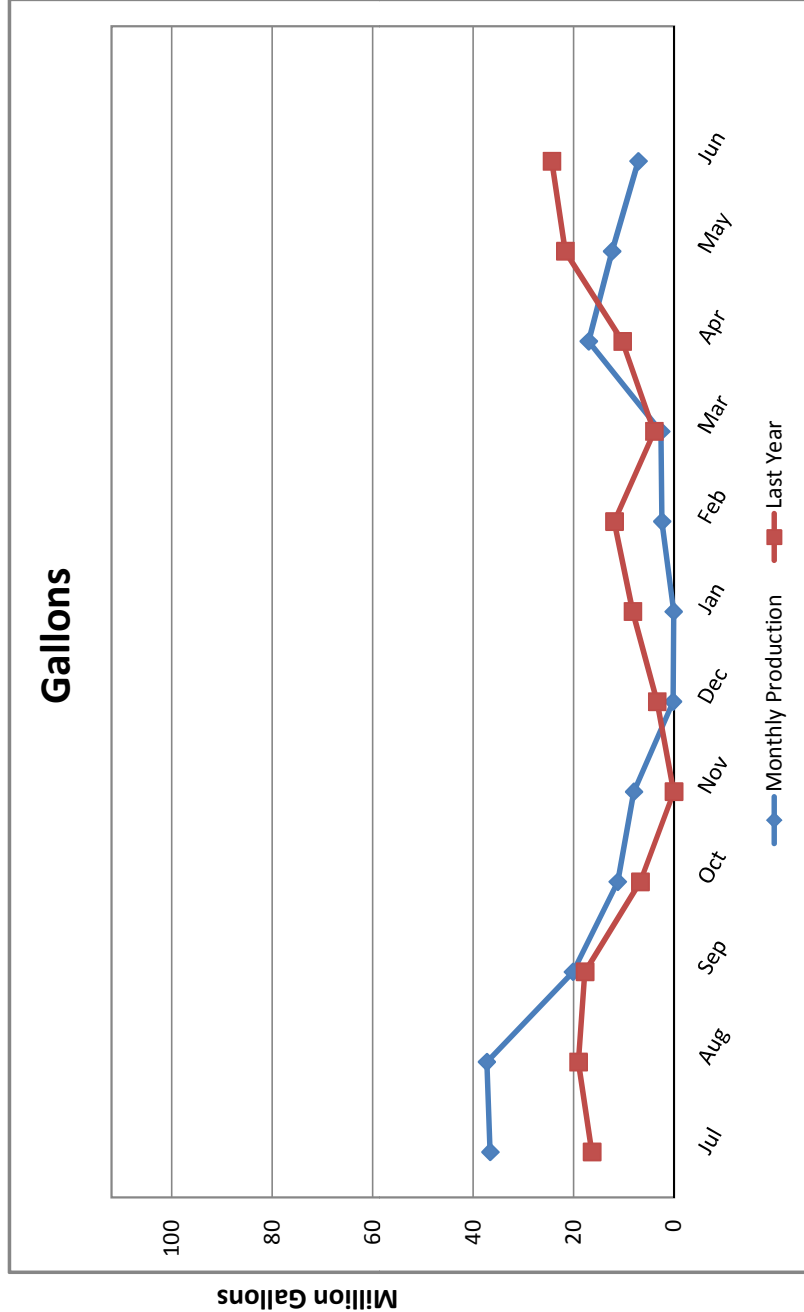
Average GPM: 890

Motor:
Volts: 477
Volts (Rated): 460
RPM: 2017
RPM (Rated): 2007
Amps A: 88
Amps A (Rated): 88
Amps B: 87
Amps B (Rated): 88
Amps C: 88
Amps C (Rated): 88

Motor Temp.: 144.5
Hour Meter: 132.60
KW Hour Total: 8,215.00

Chlorine:
Dosing: 1.01 mg/L
Demand: 0.24 mg/L
Residual: 0.77 mg/L

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





Elk Grove Water District

Monthly Production

Well 8 Williamson -- June 2014

Selected Month Production
27,229,000 Gallons

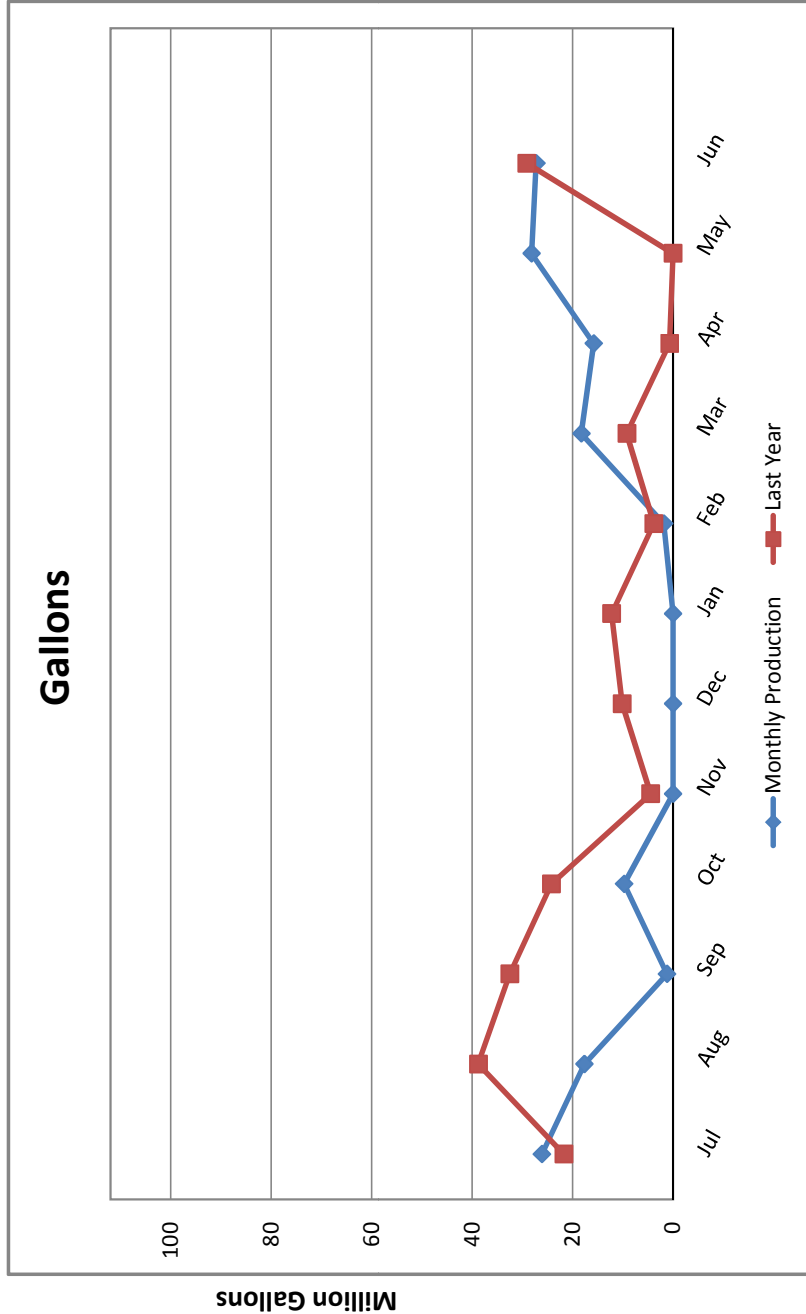
Average GPM: 822

Motor:
 Volts: 459
 Volts (Rated): 460
 RPM: 2002
 RPM (Rated): 1780
 Amps A: 88
 Amps A (Rated): 87
 Amps B: 86
 Amps B (Rated): 87
 Amps C: 88
 Amps C (Rated): 87

Motor Temp.: 139.4
 Hour Meter: 551.70
 KW Hour Total: 32,646.00

Chlorine:
 Dosing: 1.19 mg/L
 Demand: 0.16 mg/L
 Residual: 1.03 mg/L

Vibration Reading:
 Base Line: 0.03 in/sec
 Current: 0.08 in/sec





Elk Grove Water District

Monthly Production

Well 9 Polhemus -- June 2014 (Submersible)

Selected Month Production
21,002,000 Gallons

Average GPM: 486

Motor:

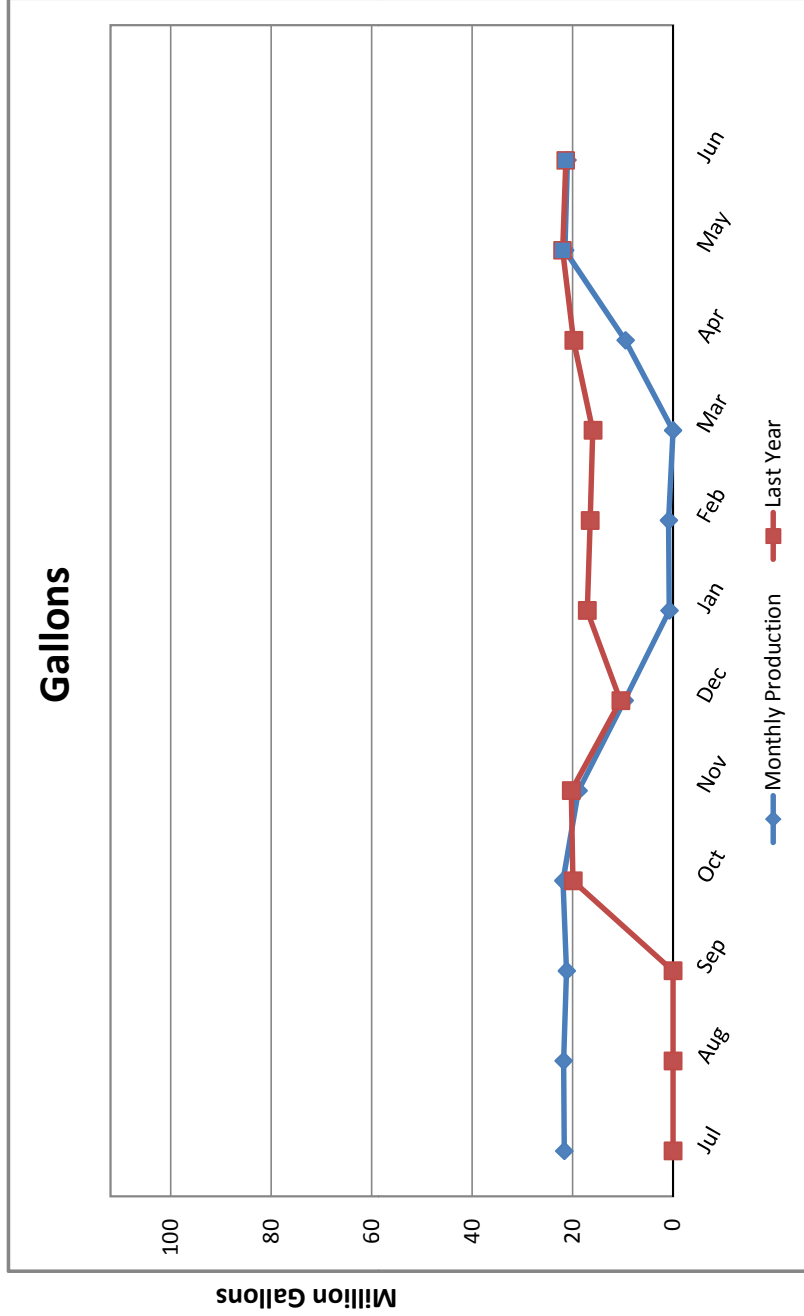
Volts: 479
Volts (Rated): 460

Amps A: 58
Amps A (Rated): 65
Amps B: 58
Amps B (Rated): 65
Amps C: 60
Amps C (Rated): 65

Hour Meter: 719.40
KW Hour Total: 28,540.00

Chlorine:

Dosing: 1.14 mg/L
Demand: 0.26 mg/L
Residual: 0.88 mg/L





Elk Grove Water District

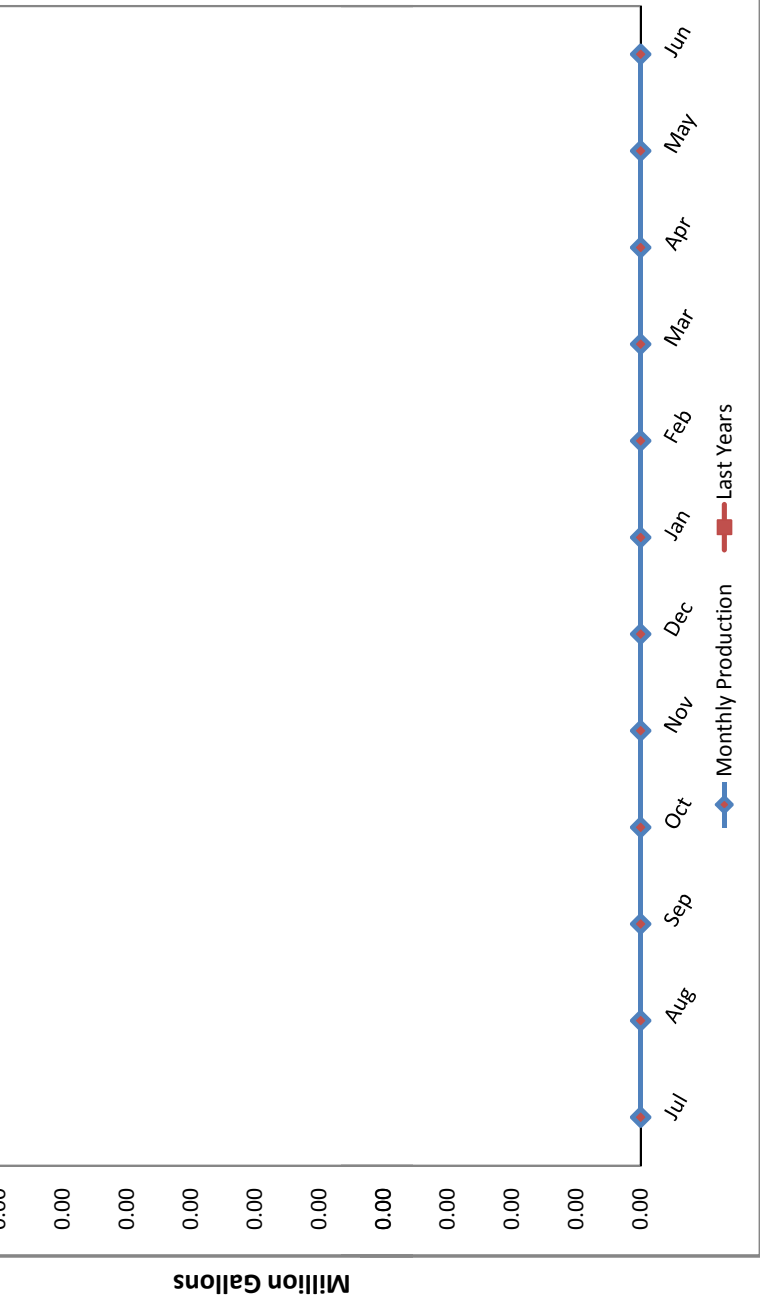
Monthly Production

SCWA Turnout - June 2014

Selected Month Production
0 Gallons

Average GPM:
0.00

Peak Hour Demand
-



Peak Day Demand
-

Monthly Tiered Usage

Tier	Gallons Used
Tier 1	-
Tier 2	-
Tier 3	-

Year To Date

Peak Hr Demand	0
Peak Day Demand	0

Usage	Cost
Tier 1	0
Tier 2	0
Tier 3	0
Total	\$0.00



Elk Grove Water District

Combined Total Production

Jun-2014

Current Month Production:

170,107,623 Gallons

Highest Day Demand of the Month:

6,261,000

Date of Occurrence

30-Jun-14

Highest Day Demand of the Fiscal Year:

8,001,000

Date of Occurrence

5-Jul-13

"Water Year" Rainfall: (Oct-13 to Sep-14)

Current Month:

0.00 in

Year To Date:

8.13 in

"Water Year" Rainfall: (Oct-12 to Sep-13)

June 2013

0.22 in

Year To Date:

14.49 in

Last Year Total:

15.08 in

Temperature:

This Month High

106 F

This Month Low

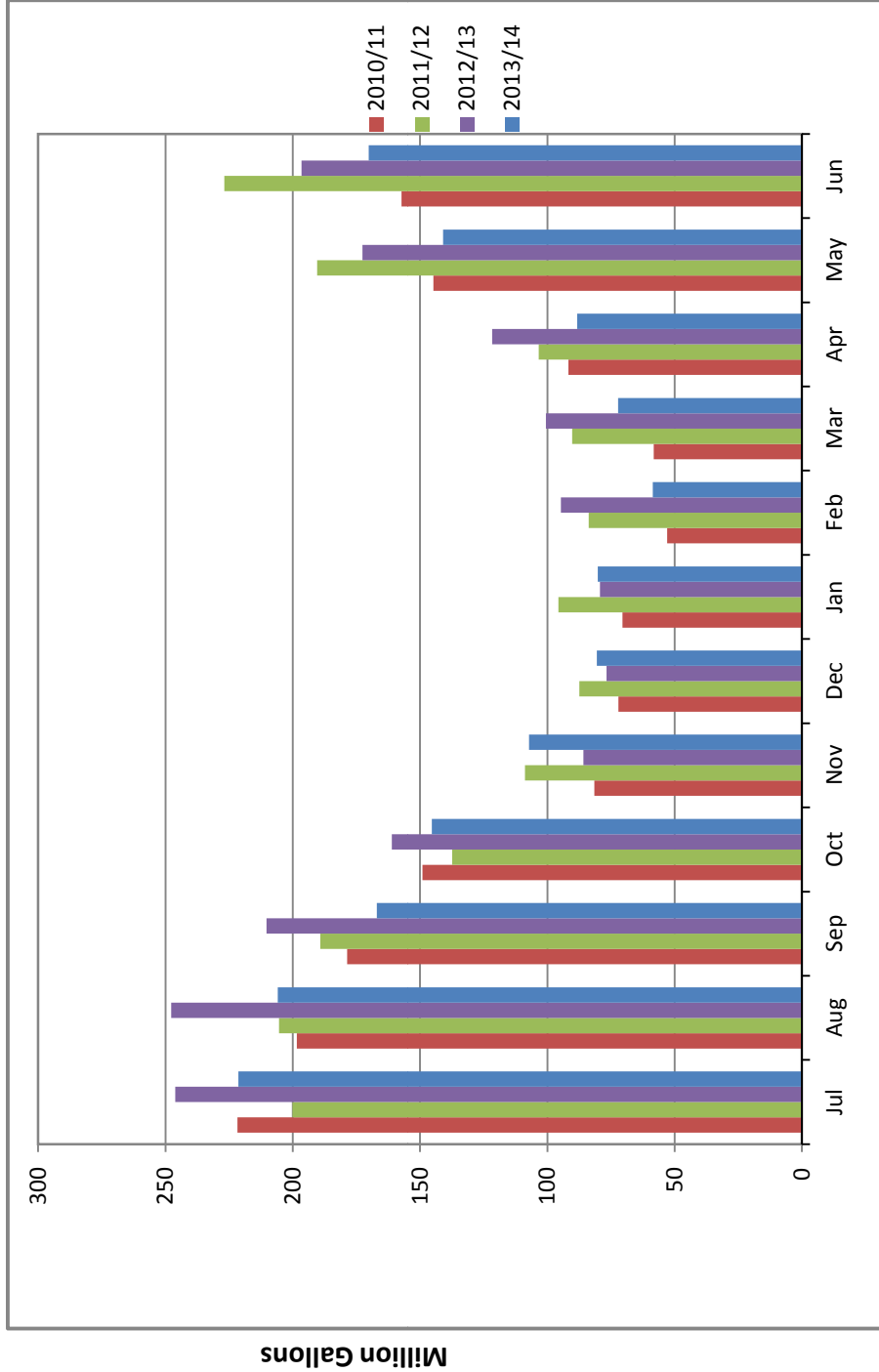
52 F

JUNE-13 High

108 F

JUNE-13 Low

50 F

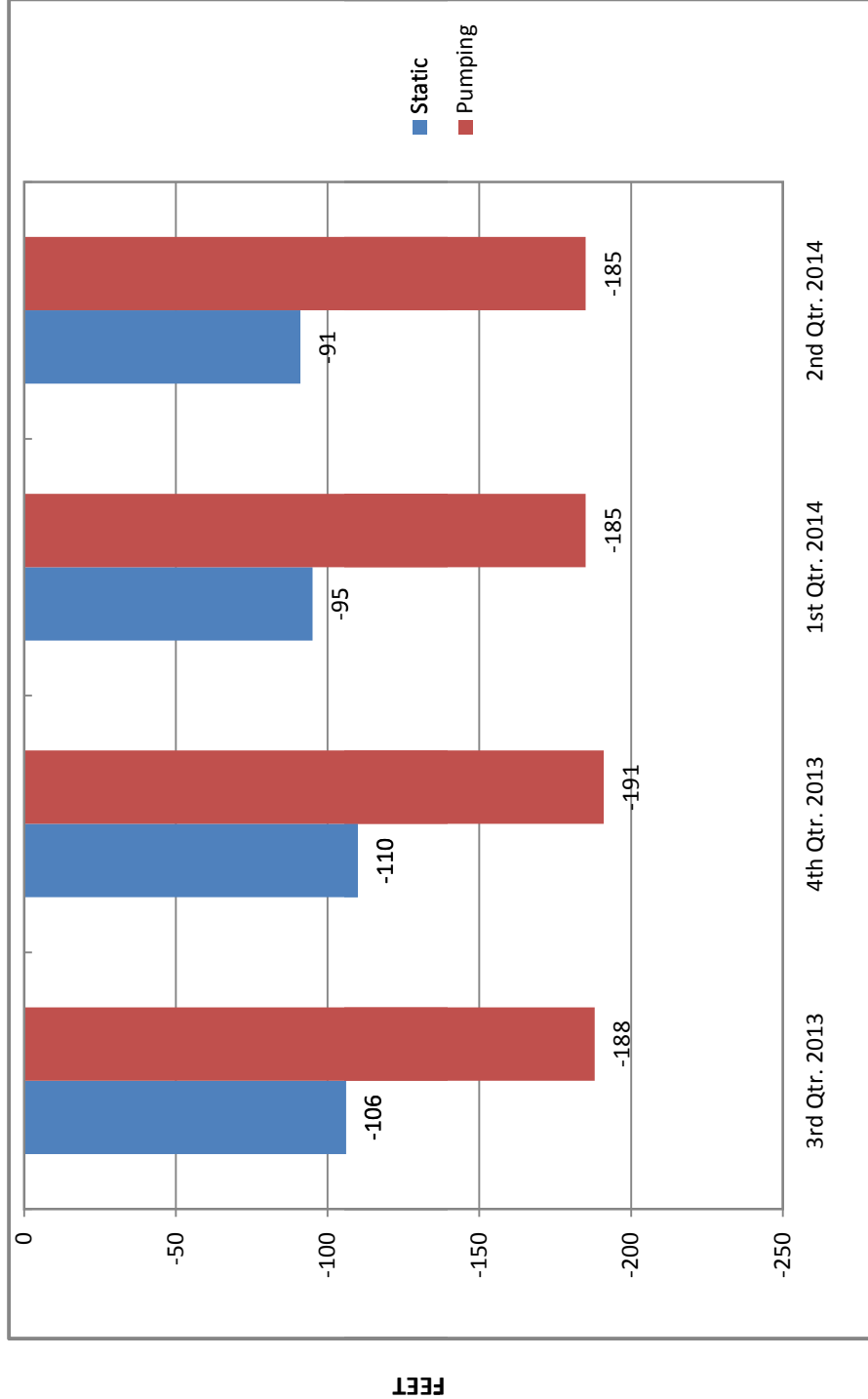




Elk Grove Water District

Static and Pumping Levels

Well 1D School St



Latest Well Sounding

Static: 91 Ft

Pumping: 185 Ft

Drawdown: 94 Ft

GPM: 1,920.00

Specific Capacity: 20.426

Latest Sand Tester Results:

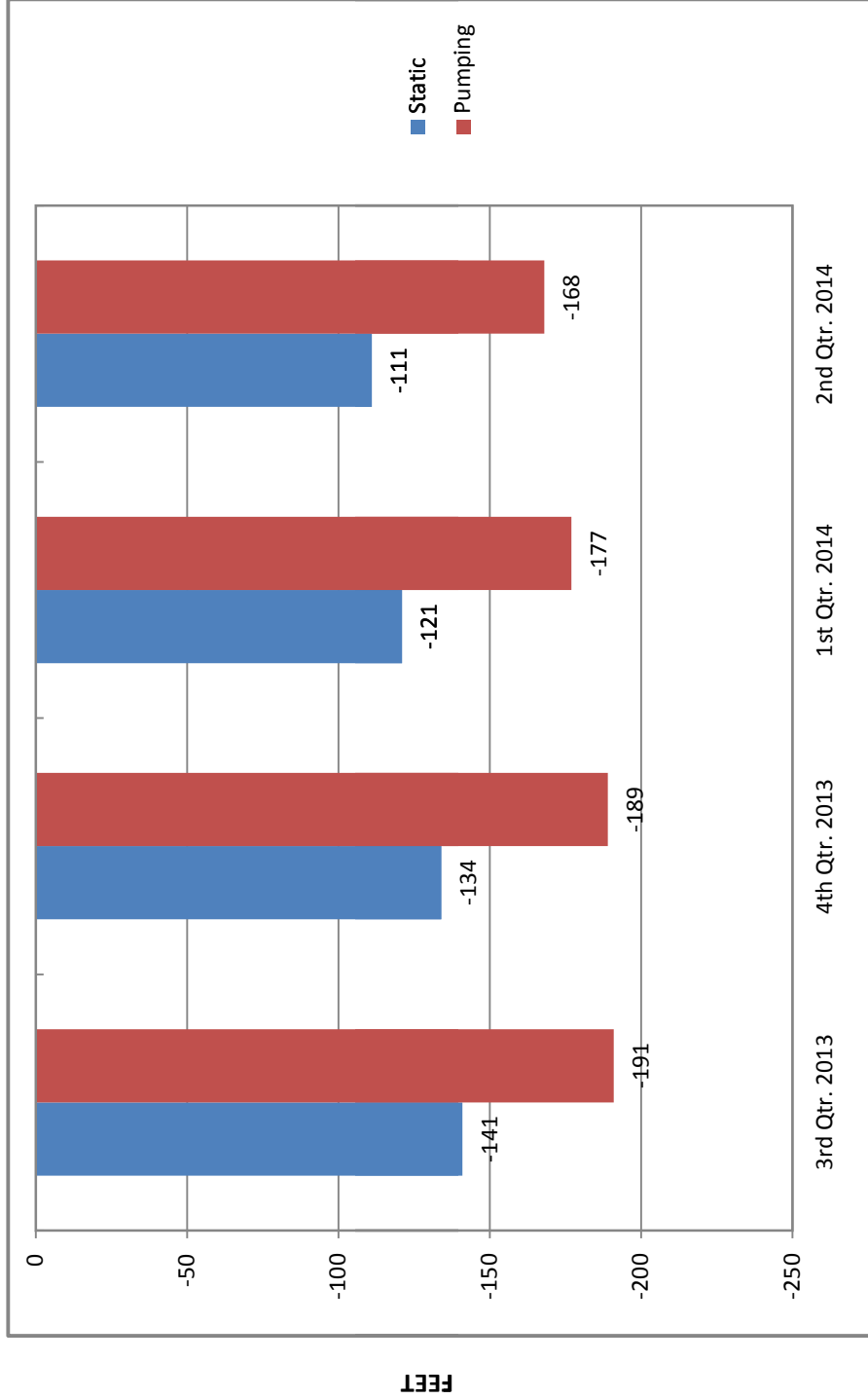
15 Min: < 5 ppm



Elk Grove Water District

Static and Pumping Levels

Well 4D Webb St



Latest Well Sounding

Static: 111 Ft
Pumping: 168 Ft
Drawdown: 57 Ft
GPM: 1,702.00
Specific Capacity: 29.860

Latest Sand Tester Results:

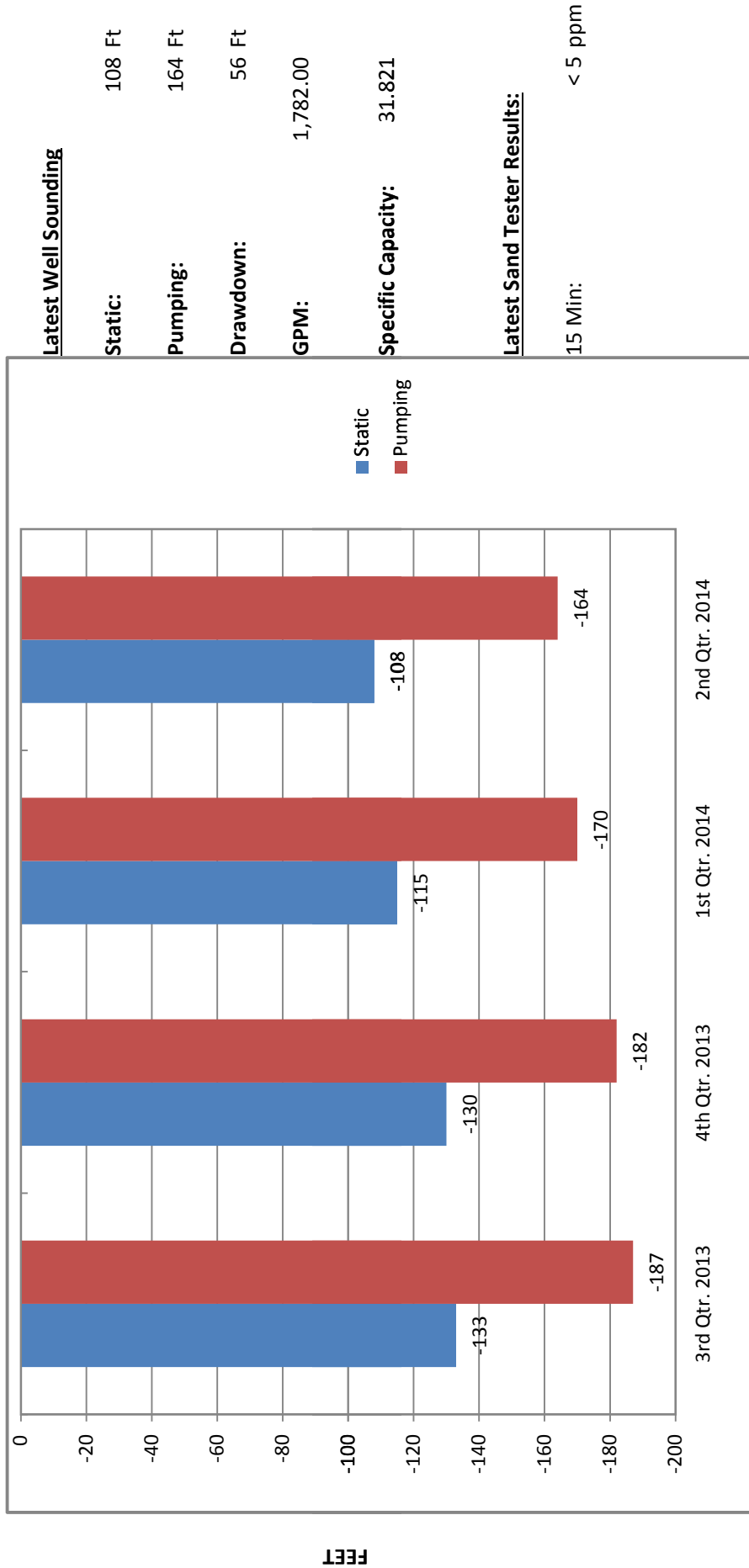
15 Min: < 5 ppm



Elk Grove Water District

Static and Pumping Levels

Well 11D Dino



Latest Well Sounding

Static: 108 Ft
 Pumping: 164 Ft
 Drawdown: 56 Ft
 GPM: 1,782.00
 Specific Capacity: 31.821

Latest Sand Tester Results:

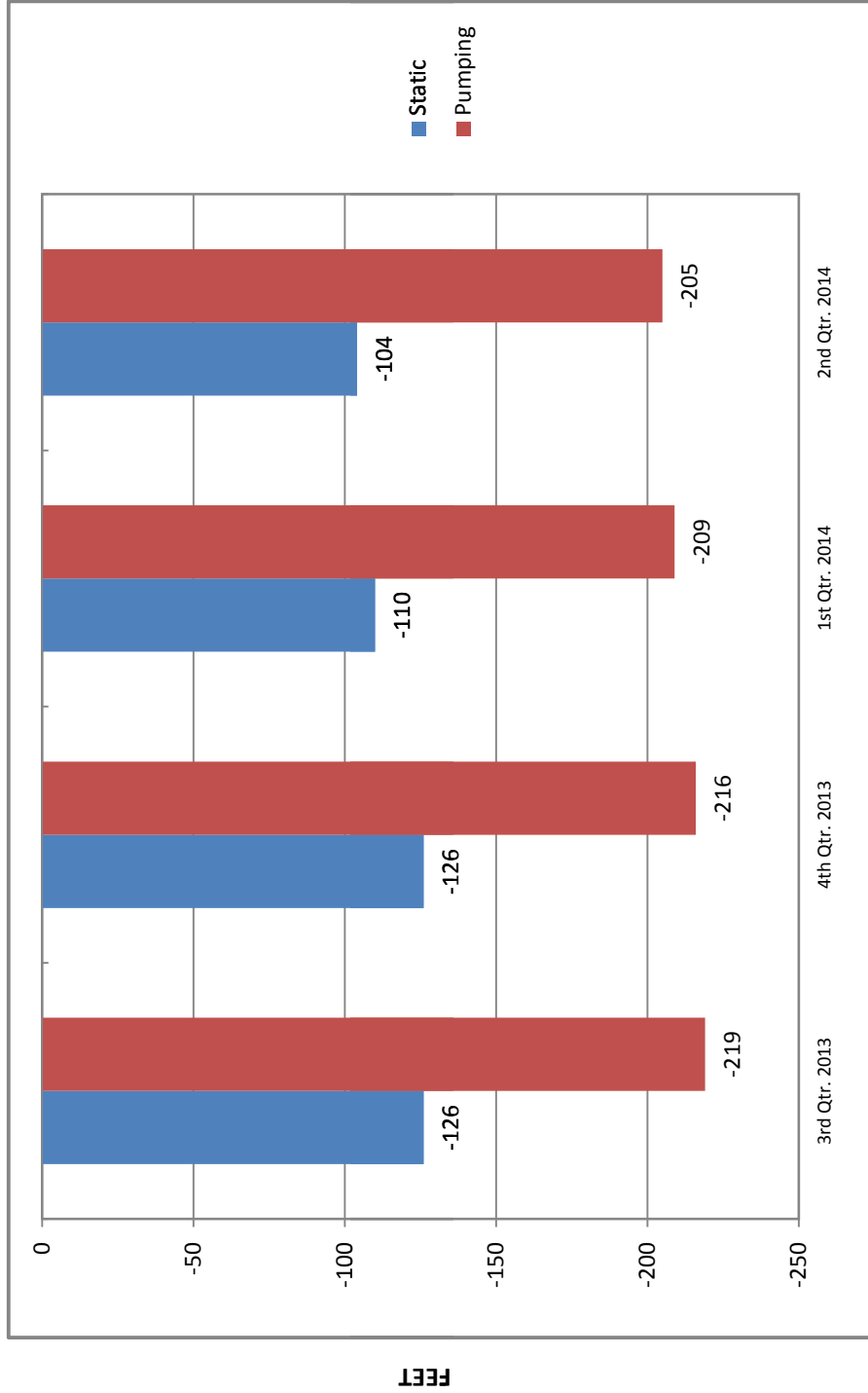
15 Min: < 5 ppm



Elk Grove Water District

Static and Pumping Levels

Well 14D Railroad



Latest Well Sounding

Static: 104 Ft
Pumping: 205 Ft
Drawdown: 101 Ft
GPM: 1,671.00
Specific Capacity: 16.545

Latest Sand Tester Results:

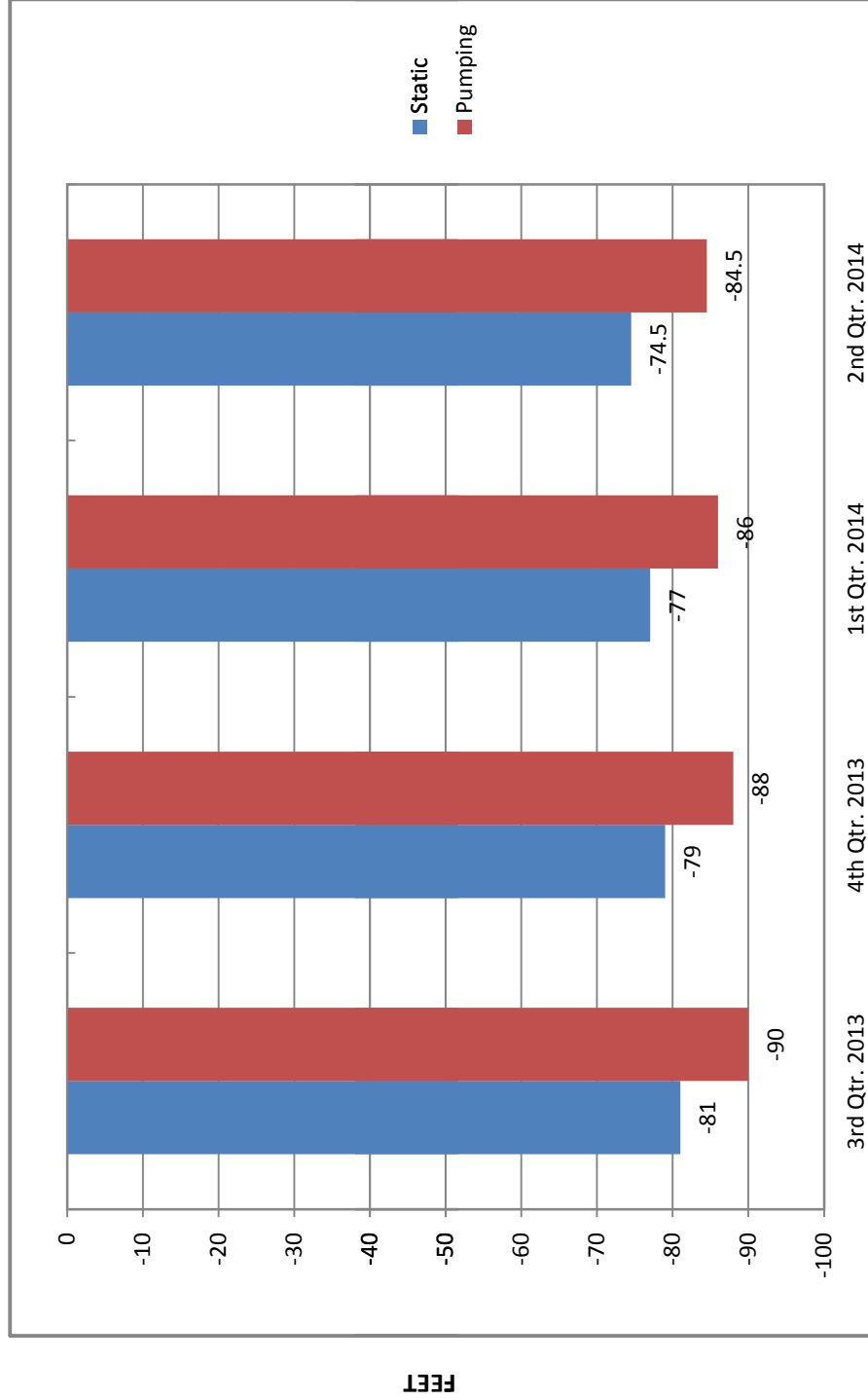
15 Min: < 5 ppm



Elk Grove Water District

Static and Pumping Levels

Well 3 Marvel



Latest Well Sounding

Static: 74.5 Ft
Pumping: 84.5 Ft
Drawdown: 10 Ft
GPM: 890.00
Specific Capacity: 89.000

Latest Sand Tester Results:

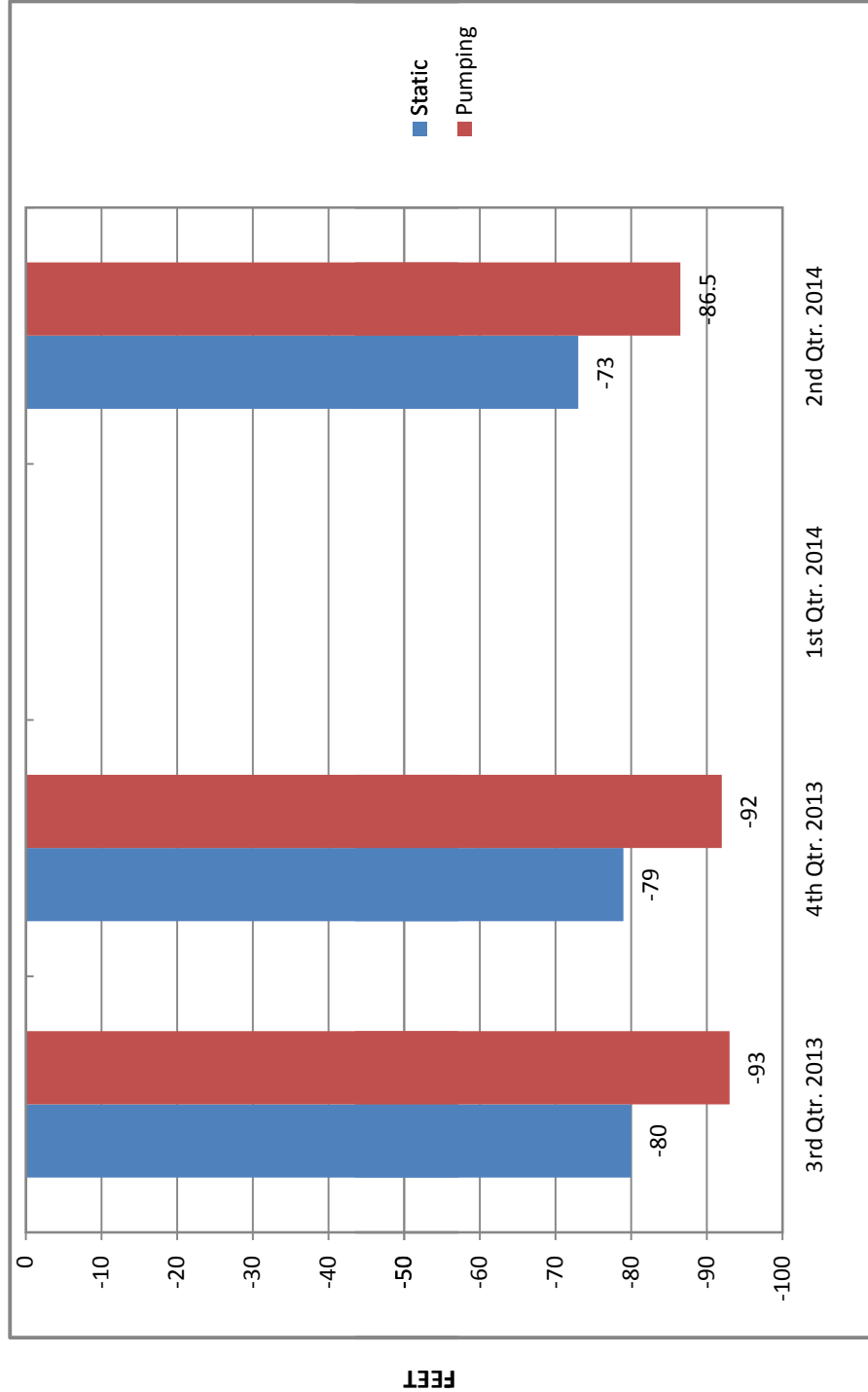
15 Min: < 5 ppm



Elk Grove Water District

Static and Pumping Levels

Well 8 Williamson



Latest Well Sounding

Static: 73 Ft
 Pumping: 86.5 Ft
 Drawdown: 13.5 Ft
 GPM: 811.00
 Specific Capacity: 60.074

Latest Sand Tester Results:

15 Min: 17.4 ppm

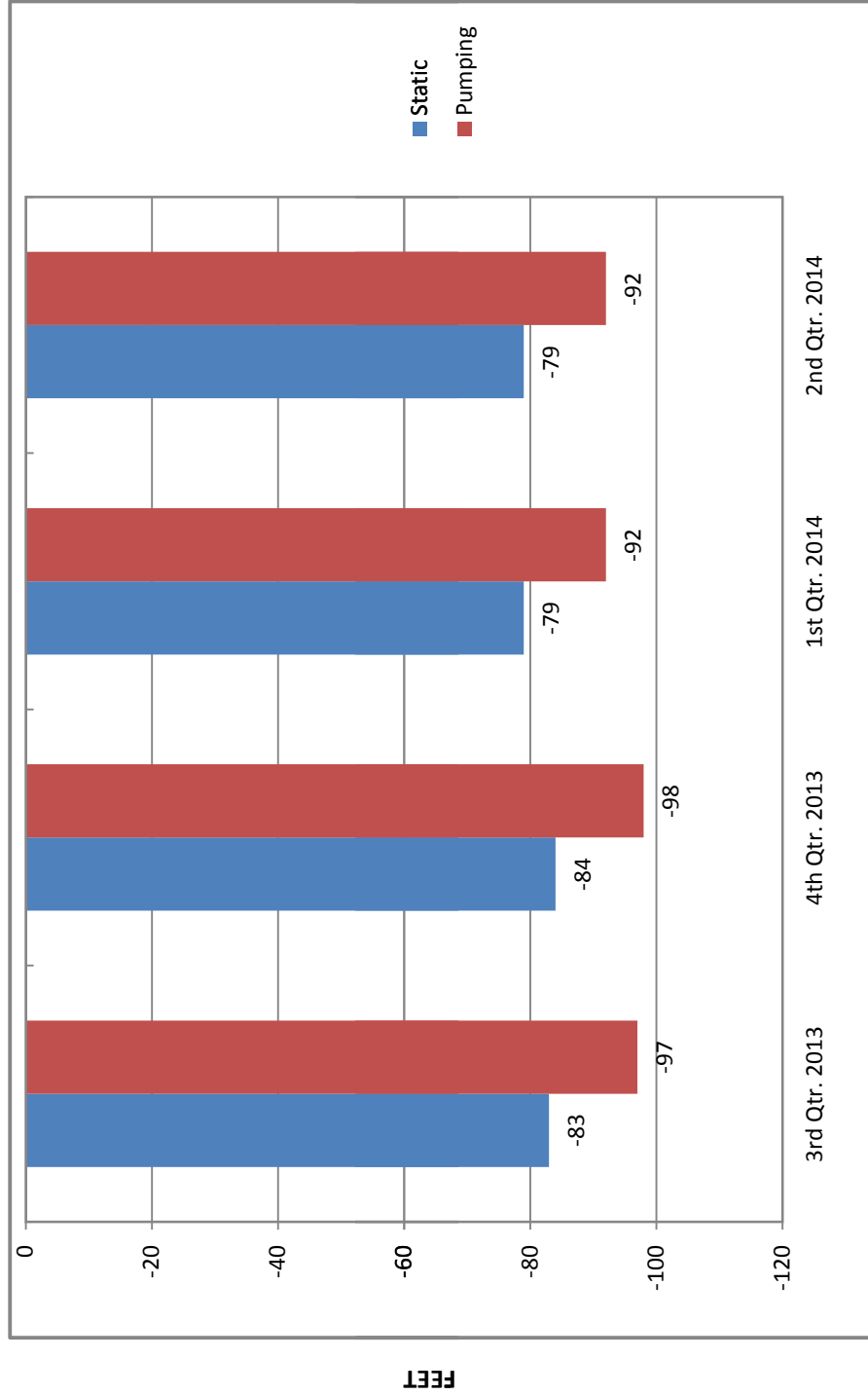
* Due to construction, no sounding was completed during the first quarter.



Elk Grove Water District

Static and Pumping Levels

Well 9 Polhemus



Latest Well Sounding

Static: 79 Ft

Pumping: 92 Ft

Drawdown: 13 Ft

GPM: 480.00

Specific Capacity: 36.923

Latest Sand Tester Results:

15 Min: < 5 ppm

2014 Monthly Sample Report -June, 2014
Water System: Elk Grove Water System

Colors:
Black = Complete 41
Green = Unscheduled 11
Red = Incomplete Sample 0

Sampling Point: 01 - 8693 W. Camden

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date
6/3/2014	Distribution System	1 wk - Bacteriological	Week	01 - 8693 W. Camden	6/3/2014
6/10/2014	Distribution System	1 wk - Bacteriological	Week	01 - 8693 W. Camden	6/10/2014
6/17/2014	Distribution System	1 wk - Bacteriological	Week	01 - 8693 W. Camden	6/17/2014
6/24/2014	Distribution System	1 wk - Bacteriological	Week	01 - 8693 W. Camden	6/24/2014

Sampling Point: 01D School Well - Raw Water

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date

Sampling Point: 02 - 9425 Emerald Vista

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date
6/3/2014	Distribution System	1 wk - Bacteriological	Week	02 - 9425 Emerald Vista	6/3/2014
6/10/2014	Distribution System	1 wk - Bacteriological	Week	02 - 9425 Emerald Vista	6/10/2014
6/17/2014	Distribution System	1 wk - Bacteriological	Week	02 - 9425 Emerald Vista	6/17/2014
6/24/2014	Distribution System	1 wk - Bacteriological	Week	02 - 9425 Emerald Vista	6/24/2014

Sampling Point: 03 - Marval Well Raw Water

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date

Sampling Point: 03 - 8809 Valley Oak

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date
6/3/2014	Distribution System	1 wk - Bacteriological	Week	03 - 8809 Valley Oak	6/3/2014
6/10/2014	Distribution System	1 wk - Bacteriological	Week	03 - 8809 Valley Oak	6/10/2014
6/17/2014	Distribution System	1 wk - Bacteriological	Week	03 - 8809 Valley Oak	6/17/2014
6/24/2014	Distribution System	1 wk - Bacteriological	Week	03 - 8809 Valley Oak	6/24/2014

Sampling Point: 04D Webb Well - Raw Water

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date

Sampling Point: 04 - 10122 Glacier Point

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date
6/3/2014	Distribution System	1 wk - Bacteriological	Week	04 - 10122 Glacier Point	6/3/2014
6/10/2014	Distribution System	1 wk - Bacteriological	Week	04 - 10122 Glacier Point	6/10/2014
6/17/2014	Distribution System	1 wk - Bacteriological	Week	04 - 10122 Glacier Point	6/17/2014
6/24/2014	Distribution System	1 wk - Bacteriological	Week	04 - 10122 Glacier Point	6/24/2014

Sampling Point: 05 - 9230 Amsden Ct..

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date
6/3/2014	Distribution System	1 wk - Bacteriological	Week	05 - 9230 Amsden Ct..	6/3/2014
6/10/2014	Distribution System	1 wk - Bacteriological	Week	05 - 9230 Amsden Ct..	6/10/2014
6/17/2014	Distribution System	1 wk - Bacteriological	Week	05 - 9230 Amsden Ct..	6/17/2014
6/24/2014	Distribution System	1 wk - Bacteriological	Week	05 - 9230 Amsden Ct..	6/24/2014

Sampling Point: 06 - 9227 Rancho Dr.

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date
6/3/2014	Distribution System	1 wk - Bacteriological	Week	06 - 9227 Rancho Dr.	6/3/2014
6/10/2014	Distribution System	1 wk - Bacteriological	Week	06 - 9227 Rancho Dr.	6/10/2014
6/17/2014	Distribution System	1 wk - Bacteriological	Week	06 - 9227 Rancho Dr.	6/17/2014
6/24/2014	Distribution System	1 wk - Bacteriological	Week	06 - 9227 Rancho Dr.	6/24/2014

Sampling Point: 07 - AI Gates Park Mainline Dr.

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date
6/3/2014	Distribution System	1 wk - Bacteriological	Week	07 - AI Gates Park Mainline Dr.	6/3/2014
6/10/2014	Distribution System	1 wk - Bacteriological	Week	07 - AI Gates Park Mainline Dr.	6/10/2014
6/17/2014	Distribution System	1 wk - Bacteriological	Week	07 - AI Gates Park Mainline Dr.	6/17/2014
6/24/2014	Distribution System	1 wk - Bacteriological	Week	07 - AI Gates Park Mainline Dr.	6/24/2014

Sampling Point: 08-Williamson Well Raw Water

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date

Sampling Point: 08- 9436 Hollow Springs Wy.

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date
6/3/2014	Distribution System	1 wk - Bacteriological	Week	09- 8417 Blackman Wy.	6/3/2014
6/10/2014	Distribution System	1 wk - Bacteriological	Week	09- 8417 Blackman Wy.	6/10/2014
6/17/2014	Distribution System	1 wk - Bacteriological	Week	09- 8417 Blackman Wy.	6/17/2014
6/24/2014	Distribution System	1 wk - Bacteriological	Week	09- 8417 Blackman Wy.	6/24/2014

Sampling Point: 09- Polhemus Well Raw Water

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date
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Sampling Point: 09- 8417 Blackman Wy.

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date
6/3/2014	Distribution System	1 wk - Bacteriological	Week	09- 8417 Blackman Wy.	6/3/2014
6/10/2014	Distribution System	1 wk - Bacteriological	Week	09- 8417 Blackman Wy.	6/10/2014
6/17/2014	Distribution System	1 wk - Bacteriological	Week	09- 8417 Blackman Wy.	6/17/2014
6/24/2014	Distribution System	1 wk - Bacteriological	Week	09- 8417 Blackman Wy.	6/24/2014

Sampling Point: 10-9373 Oreo Ranch Cir.

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date
6/3/2014	Distribution System	1 wk - Bacteriological	Week	10-9373 Oreo Ranch Cir.	6/3/2014
6/10/2014	Distribution System	1 wk - Bacteriological	Week	10-9373 Oreo Ranch Cir.	6/10/2014
6/17/2014	Distribution System	1 wk - Bacteriological	Week	10-9373 Oreo Ranch Cir.	6/17/2014
6/24/2014	Distribution System	1 wk - Bacteriological	Week	10-9373 Oreo Ranch Cir.	6/24/2014

Sampling Point: 11D Dino Well -Raw Water

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date
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Sampling Point: 14D Railroad Well -Raw Water

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date
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Sampling Point: Railroad WTP Effluent

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date
6/10/2014	Treated Plant Effluent	1 mo - WTP Eff - Fe,Mn,As Total	Month	Railroad WTP Effluent	6/10/2014

6/10/2014 Treated Plant Effluent 1 mo - WTP Eff - Fe,Mn,As Dissolved Month Railroad WTP Effluent 6/10/2014

Sampling Point: Special Distribution/ Construction Samples

Collection Due Date	Schedule Class	Schedule Name	Collection Tolerance	Sampling Point	Sample Collected Date
6/2/2014	Distribution System	Bacteriological	N/A	8962 Gafon Ct.	6/2/2014
6/3/2014	Distribution System	Bacteriological	N/A	8986 Lansdowne Ct.	6/3/2014
6/10/2014	Distribution System	Bacteriological	N/A	9240 Meadow Grove	6/10/2014
6/11/2014	Distribution System	Bacteriological	N/A	9204 Chianti Way	6/11/2014
6/17/2014	Distribution System	Bacteriological	N/A	9096 Locust St.	6/17/2014
6/17/2014	Distribution System	Bacteriological	N/A	9432 Mary Ellen	6/17/2014
6/23/2014	Distribution System	Bacteriological	N/A	9240 Chianti Way	6/23/2014
6/24/2014	Distribution System	Bacteriological	N/A	9208 Meadow Grove	6/24/2014
6/25/2014	Distribution System	Bacteriological	N/A	9989 Park Terrace Ct.	6/25/2014
6/30/2014	Distribution System	Bacteriological	N/A	10054 Elk Glen Ct.	6/30/2014



July 8, 2014

Division of Drinking Water and Environmental Mgmt.
California Dept. of Public Health
P.O. Box 997377, MS 7418
1616 Capital Ave
Sacramento, CA 95899-7377

MONTHLY SUMMARY OF DISTRIBUTION SYSTEM COLIFORM MONITORING

Enclosed is the Monthly Summary of Distribution System Coliform Monitoring report from Elk Grove Water District for June 2014.

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". The signature is stylized and somewhat cursive.

STEVE SHAW
WATER TREATMENT FOREMAN

MONTHLY SUMMARY OF DISTRIBUTION SYSTEM COLIFORM MONITORING

System Name ELK GROVE WATER SERVICE	System Number 3410008
Sampling Period Month June	Year 2014

	Number Required	Number Collected	Number Total Coliform Positives		Number Fecal/E.coli Positives
1. Routine Samples (see note 1)	<input type="text" value="40"/>	<input type="text" value="40"/>	<input type="text" value="0"/>		<input type="text" value="0"/>
2. Repeat Samples Following Samples Which are Total Coliform Positive and Fecal/E.coli Negative (see notes 5 and 6)		<input type="text" value="0"/>	<input type="text" value="0"/>		<input type="text" value="0"/>
3. Repeat Samples Following Routine Samples Which are Total Coliform Positive and Fecal/E.coli Positive (see notes 5 and 6)		<input type="text" value="0"/>	<input type="text" value="0"/>		<input type="text" value="0"/>
4. MCL Computation For Total Coliform Positive Samples					
a. Totals (sum of columns)	<input type="text" value="40"/>	<input type="text" value="0"/>	<input type="text" value="0"/>		
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]	<input type="text" value="0"/>				
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 only to systems subject to the Groundwater Rule - see notes 7 and 8)		<input type="text" value="0"/>	<input type="text" value="0"/>		<input type="text" value="0"/>

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: steve shaw

Signature 	Title <input style="width: 90%;" type="text" value="Water Treatment Foreman"/>	Date <input style="width: 90%;" type="text" value="7/8/2014"/>
---------------	---	---

NOTES AND INSTRUCTIONS:

1. Routine samples include:
 - a. Samples required per 22 CCR, Section 64423;
 - b. Extra samples 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 must be tracked on the worksheet on the other side.
6. For systems collecting more than one routine sample per month, three repeat samples must be collected for each total coliform positive sample. Repeat samples must be collected within 24 hours of being notified of the positive results.
7. For systems collecting one or less routine samples per month, four repeat samples must be collected for each total coliform positive sample.



July 8, 2014

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 June 2014.

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 light blue horizontal line.

STEVE SHAW
WATER TREATMENT FOREMAN



COMPLIANCE REPORT FORM

Attn: Nicole Sears	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:	6	Year:	2014
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<input checked="" type="checkbox"/> Water use/flow meter report	Railroad WTP: <input style="width:50px;" type="text" value="0"/> Hampton WTP: <input style="width:50px;" type="text" value="0"/>													
<input type="checkbox"/> Monitoring results/analytical report	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;"></td> <td style="width:33%; text-align: center;">Date</td> <td style="width:33%; text-align: center;">Time</td> <td style="width:33%; text-align: center;">pH</td> </tr> <tr> <td style="border: 1px solid black;">Hampton WTP</td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> </tr> <tr> <td style="border: 1px solid black;">Railroad WTP</td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> </tr> </table>		Date	Time	pH	Hampton WTP				Railroad WTP				
	Date	Time	pH											
Hampton WTP														
Railroad WTP														

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	<input style="width:50px;" type="text" value="3"/>	<input style="width:50px;" type="text" value="19"/>	<input style="width:50px;" type="text" value="25"/>	<input style="width:100px;" type="text" value="1425"/>
Office	<input style="width:50px;" type="text" value="2"/>	<input style="width:50px;" type="text" value="19"/>	<input style="width:50px;" type="text" value="20"/>	<input style="width:100px;" type="text" value="760"/>
Drivers/Field	<input style="width:50px;" type="text" value="17"/>	<input style="width:50px;" type="text" value="19"/>	<input style="width:50px;" type="text" value="5"/>	<input style="width:100px;" type="text" value="1615"/>
Total				<input style="width:100px;" type="text" value="3800"/>

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 Foreman
(Name)	(Title)

DATE:

7-8-2014



Date: 6/2014

Operator	Date	Waste Meter	Gallons
jcarrillo@egws.lan	6/1/2014 8:00:00 AM	10634762	0
jvance@egws.lan	6/2/2014 8:08:00 AM	10634762	0
jvance@egws.lan	6/3/2014 8:08:00 AM	10634762	0
jvance@egws.lan	6/4/2014 8:10:00 AM	10634762	0
jvance@egws.lan	6/5/2014 8:07:00 AM	10634762	0
jcarrillo@egws.lan	6/6/2014 7:00:00 AM	10634762	0
jcarrillo@egws.lan	6/7/2014 7:30:00 AM	10634762	0
jvance@egws.lan	6/8/2014 7:30:00 AM	10634762	0
jvance@egws.lan	6/9/2014 8:20:00 PM	10634762	0
jvance@egws.lan	6/10/2014 8:15:00 AM	10634762	0
jvance@egws.lan	6/11/2014 8:03:00 AM	10634762	0
jvance@egws.lan	6/12/2014 7:43:00 AM	10634762	0
jvance@egws.lan	6/13/2014 8:26:00 AM	10634762	0
jcarrillo@egws.lan	6/14/2014 7:30:00 AM	10634762	0
jcarrillo@egws.lan	6/15/2014 7:45:00 AM	10634762	0
jvance@egws.lan	6/16/2014 8:19:00 AM	10634762	0
jvance@egws.lan	6/17/2014 8:13:00 AM	10634762	0
jvance@egws.lan	6/18/2014 8:14:00 AM	10634762	0
jvance@egws.lan	6/19/2014 8:10:00 AM	10634762	0
smendoza@egws.lan	6/20/2014 8:30:00 AM	10634762	0
smendoza@egws.lan	6/21/2014 7:50:00 AM	10634762	0
smendoza@egws.lan	6/22/2014 7:50:00 AM	10634762	0
jvance@egws.lan	6/23/2014 8:05:00 AM	10634762	0
jvance@egws.lan	6/24/2014 8:20:00 AM	10634762	0
jvance@egws.lan	6/25/2014 8:11:00 AM	10634762	0
jvance@egws.lan	6/26/2014 9:25:00 AM	10634762	0
jvance@egws.lan	6/27/2014 7:50:00 AM	10634762	0
wquintero@egws.lan	6/28/2014 8:20:00 AM	10634762	0
wquintero@egws.lan	6/29/2014 7:40:00 AM	10634762	0
jvance@egws.lan	6/30/2014 7:54:00 AM	10634762	0

Grand Total

0

M.C.C. AND LAB

Item	Quarterly				Annual
	1st	2nd	3rd	4th	Refer. 2014
Fume Hood	JV 3/3/14 10324	JV 6/19/14 11047			AH 4/21/14 2968
	Sect: 1.1.1				Sect: 1.2.3
Dulco-meter	AH 2/21/14 10321	AH 6/2/14 11047			
	Sect: 1.1.2				Sect: 1.2.1
M.C.C.					
	Sect: 1.1.3				Sect: 1.2.2
Circuit Breaker	JV 3/4/14 10324	AH 6/19/14 11047			
	Sect: 1.1.3				Sect: 1.2.2
C12 DPP Handheld					

Year: 2014

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.	2014	
CL2 Meter System	4.2.1	JV 1/28/14 10188	AH 2/19/14 10457	JV 3/12/14 10459	AH 4/23/14 10480	JV 5/22/14 10964	AH 6/19/14 11085								AH 3/25/14 10581	AH 5/29/14 11001		4.4.1	AH 2/5/14 10311	
Exhaust Fan																				
Hydrogen Blow/Det.																				
CeH4nd Electrode																				
Hypo/Brine Tank	4.3	AH 1/27/14 10188	AH 2/19/14 10457	JV 3/12/14 10459	AH 4/23/14 10480	JV 5/22/14 10964	AH 6/19/14 11085								AH 3/26/14 10581	AH 6/16/14 11001		4.3.2		
Water Softener																				
Rectifier	4.2.4	AH 1/30/14 10188	AH 2/19/14 10457	JV 3/12/14 10459	AH 4/23/14 10480	JV 5/22/14 10964	AH 6/19/14 11085												4.4.6	
Clor-Tec Unit	4.2.2	AH 1/27/14 10188	AH 2/19/14 10457	JV 3/12/14 10459	AH 4/23/14 10480	JV 5/22/14 10964	AH 6/19/14 11085												4.4.4	AH 6/16/14 10311

= Deferred Maintenance

Year: 2014

FILTER VESSELS

Item	Monthly												Semi-annual		Annual	
	Refer	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer:	2014	
Air/Vac Valves	Initials Date W.O. #													Refer: 5.2.1		
Bray Valves	Initials Date W.O. #													Refer: 5.2.2		
CLA-VAL	Initials Date W.O. #													Refer: 5.3.1		
Pilot Valves	Initials Date W.O. #	AH 1/15/14 10172	JV 2/12/14 10313	AH 3/7/14 10430	AH 4/7/14 10452	AH 5/19/14 10913	AH 6/19/14 11063						Refer: 5.3.2			
Press. Diff. Trnsdr.	Initials Date W.O. #													Refer: 5.3.3		
Vessels	Initials Date W.O. #													Refer: 5.3.4		

= Deferred Maintenance

Year: 2014

BACKWASH SYSTEM and Storage Tanks

Item	MONTHLY												Semi-annual		Annu./Bi-annu.	
	Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer.	2014	Periodic
Mag meter														Sect: 2.3.2		
MCC														Sect: TBD		
Pressure Transdr														Sect: 2.2.1		
Backwash Tank														Sect: 2.3.4		
Return Pumps	Sect: TBD	AH 1/27/14 10246	AH 2/19/14 10458	AH 3/24/14 10455	JV 4/29/14 10456	AH 5/27/14 10966	AH 6/19/14 11067							Sect: TBD	AH 5/2/14 11137	
Storage Tanks														Sect: 2.4.1		
Bray Valves														Sect: 2.2.2		

= Deferred Maintenance

Year: 2014

WELL 1D SCHOOL

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.	2014			
Pump	Initials	JV	AH	AH	JV	JV	AH								AH/JV						
	Date	1/6/14	2/13/14	3/13/14	4/28/14	5/28/14	6/18/14								5/12/14						
	W.O. #	10165	10307	10481	10482	10891	11036								10895						
	Sect:													13.2.1							
Motor	Initials	JV	AH	AH	AH	AH	JV								JV						
	Date	1/6/14	2/13/14	3/13/14	4/3/14	5/15/14	6/12/14								6/12/14						
	W.O. #	10165	10307	10481	10482	10891	11036								10895						
	Sect:													13.2.2							
Press/Lvl Transducer	Initials																				
	Date																				
	W.O. #																				
	Sect:													13.3.2							
Isolation Valves	Initials																				
	Date																				
	W.O. #																				
	Sect:													13.3.6							
Cla-Val	Initials																				
	Date																				
	W.O. #																				
	Sect:													13.3.1							
Mag-Meter	Initials																				
	Date																				
	W.O. #																				
	Sect:													13.3.3							
A.R.V.	Initials														JV						
	Date														6/12/14						
	W.O. #														108958						
	Sect:													13.2.3							
M.C.C.	Initials																				
	Date																				
	W.O. #																				
	Sect:													13.3.5							

WELL 4D WEBB

Item	Monthly												Semi-annual		Annual/Biannual		
	Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer.	2014	Periodic	
Pump	Initials	JV	AH	AH	AH	JV	AH										
	Date	1/10/14	2/13/14	3/13/14	4/1/14	5/28/14	6/18/14										
	W.O. #	10168	10304	10477	10478	10890	11034							Sect: 8.2.1	JV	6/12/14	10898
Motor	Initials	JV	AH	AH	JV	AH	JV										
	Date	1/10/14	2/13/14	3/13/14	4/22/14	5/15/14	6/12/14										
	W.O. #	10168	10304	10477	10478	10890	11034							Sect: 8.2.2	AH/JV	5/6/14	10898
Transdr. Press/LV	Initials																
	Date																
	W.O. #													Sect: 8.3.2			
Isolation Valves	Initials																
	Date																
	W.O. #													Sect: 8.3.6			
Cla-Val	Initials																
	Date																
	W.O. #													Sect: 8.3.1			
Mag-Meter	Initials																
	Date																
	W.O. #													Sect: 8.3.3			
A.R.V.	Initials																
	Date																
	W.O. #													Sect: 8.3.4			
M.C.C.	Initials																
	Date																
	W.O. #													Sect: 8.2.3	JV	6/12/14	10898
Portable Generator	Initials	JV	AH	AH	AH	JV	JV										
	Date	1/10/14	2/13/14	3/13/14	4/1/14	5/28/14	6/12/14										
	W.O. #	10168	10304	10477	10478	10890	11034							Sect: 8.2.4	JV	6/12/14	10898
Generator Set	Initials																
	Date																
	W.O. #													Sect: 8.4.2			

= Deferred Maintenance

WELL 11D DINO

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.	2014	Periodic	
Pump	9.1.1	1/6/14 AH 10131	2/13/14 AH 10303	3/13/14 AH 10475	4/3/14 AH 10476	5/28/14 JV 10889	6/19/14 AH 11086							9.2.1	6/19/14 JV 10897					
Motor	9.1.2	1/6/14 AH 10131	2/13/14 AH 10303	3/13/14 AH 10475	4/7/14 JV 10476	5/15/14 AH 10889	6/19/14 JV 11086							9.2.2	5/7/14 AH/JV 10897					
Press/Lvl Transdcr.																				
Isolation Valves																				
Cla-Val																				
Mag-Meter																				
A.R.V.														9.2.3	6/19/14 JV 10897					
M.C.C.																				
Portable Generator	9.1.3	1/6/14 AH 10131	2/13/14 AH 10303	3/13/14 AH 10475	4/3/14 AH 10476	5/28/14 JV 10889	6/19/14 JV 11086							9.2.4	6/19/14 JV 10897					
Generator Set																				

WELL 8 WILLIAMSON

Item	Monthly												Quarterly				Semi-annual		Annual				
	Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1st	2nd	3rd	4th	1st	2ND	Refer.	2014		
Motor	Section: 11.1.2	AH 2/13/14 10309	AH 3/21/14 10487	AH 4/8/14 10488	AH 5/15/14 10892	AH 6/13/14 11030												AH/IV 5/7/14 10832	11.3.2				
Pump	Section: 11.1.1	AH 2/13/14 10309	AH 3/21/14 10487	AH 4/28/14 10488	AH 5/15/14 10892	AH 6/13/14 11030												AH 6/13/14 10832	11.3.1				
Chlorine Pump	Section: 11.2.1													AH 3/21/14 10579	AH 4/28/14 10851				11.3.3				
Air Charer	Section: 11.2.2													AH 3/24/14 10579	AH 6/13/14 10851				11.3.4				
4 Check Valve	Section: 11.3.3													AH 6/13/14 10832					11.3.3				
A.R.V.	Section: 11.3.4													AH 6/13/14 10832					11.3.4				
M.C.C.	Section: 11.4.1																			11.4.1			
Pneumat Tank	Section: 11.4.5																			11.4.5			
Isolation Valves	Section: 11.4.3																			11.4.3			
Propeller Meter	Section: 11.4.2																			11.4.2			

■ = Deferred Maintenance

Year: 2014

WELL 9 POLHEMUS

Item	Monthly												Quarterly				Annual			
	Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1st	2nd	3rd	4th	Refer.	2014	
Check Valve	Initials																			
	Date																			
	W.O. #																			
Chlorine Pump	Initials	AH	AH	AH	AH	AH	AH	AH						AH	AH					
	Date	1/6/14	2/12/14	4/28/14	5/15/14	6/13/14								4/16/14	10815					
	W.O. #	10135	10297	10483	10894	11032								10483	10815					
		Sect: TBD												Section: TBD						
Air Charer	Initials	AH	AH											AH	AH					
	Date																			
	W.O. #													10483	10815					
		Section: TBD												Section: TBD						
Isolation Valves	Initials																			
	Date																			
	W.O. #																			
A.R.V.	Initials																			
	Date																			
	W.O. #																			
M.C.C.	Initials																			
	Date																			
	W.O. #																			
Pneumat Tank	Initials																			
	Date																			
	W.O. #																			
Propeller Meter	Initials																			
	Date																			
	W.O. #																			

■ = Deferred Maintenance

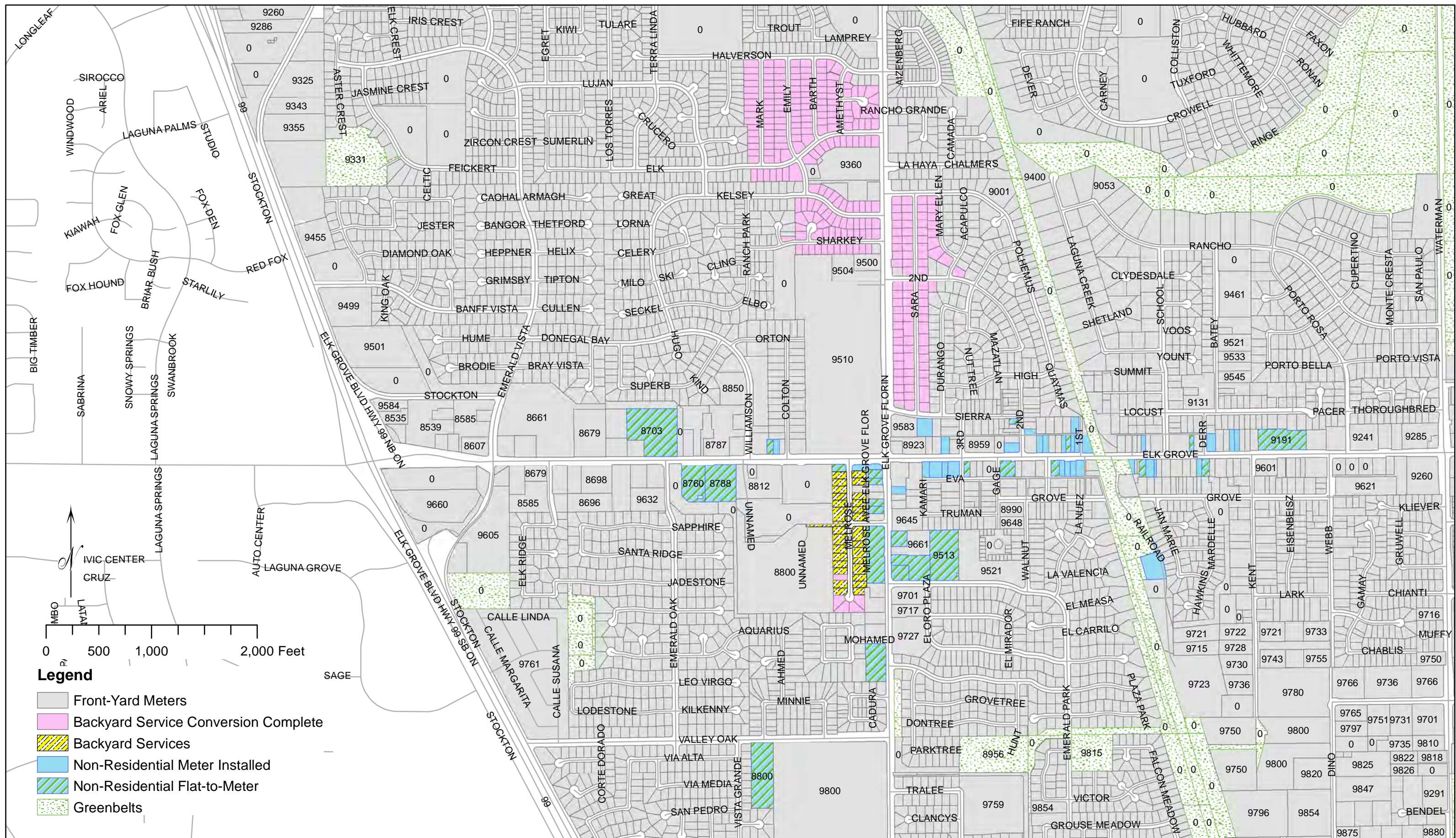
Elk Grove Water District
Backflow Cross-Connection Program 2014

Backflow Reports	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
CURRENT												
Notices Issued	3	37	45	1	41	41						
Pass:	3	18	33	1	17	20						
Fail:		3	0		6	3						
Failed Devices Retested----Passed		3	0		6	2						
Outstanding Results Due		16	12		18	19						

DELINQUENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Previous Month Carryover		16	4	0	0	11						
Sent:		16	12		18	18						
Received:		12	12		7	0						
Sent:		4	4		11	4						
Received:			4		0	0						
Service Discontinued												

Elk Grove Water District Weekly Safety Meetings/Training June 2014

Date	Topic	Attendees:	Hosted By:
6/2/2014	Plan the Work and Work the Plan	Jose C, Jose M, David, John V, Sean, Richard, Gerardo, Eliseo, Sal, Brandon, Steve, Aaron, Wilfredo, Sal, Joel, Michael	Steve Shaw
6/9/2014	An Open and Shut Case for Gate Valve Safety	Jose C, Jose M, David, John V, Sean, Michael, Justin, Richard, Gerardo, Eliseo, Joel, Alan, Sal, Brandon, Steve, Aaron, Wilfredo, Marcell	Steve Shaw
6/16/2014	Construction Site Safety Part 1: Moving Vehicles	Marcell, Jose C, Jose M, David, John V, Sean, Michael, Justin, Richard, Gerardo, Eliseo, Joel, Alan, Brandon, Aaron, Wilfredo, Sal	Aaron Hewitt
6/23/2014	Trench Safety: Serious Business	Jose C, Jose M, David, John V, John D, Marcell, Sean, Justin, Richard, Gerardo, Eliseo, Joel, Alan, Sal, Brandon, Steve, Aaron, Wilfredo, Michael	Steve Shaw
6/25/2014	Protecting Yourself When You're Outside Mosquitoes	Staff Meeting (All staff members required to attend)	Ellen Carson
6/30/2014	Safe Fueling Handling Practices	Steve, John D, Justin, John V, Eliseo, Jose M, Joel, Gerardo, Alan, Sal, Richard, Wilfredo, Brandon, David, Aaron Sean	Steve Shaw



Legend

- Front-Yard Meters
- Backyard Service Conversion Complete
- Backyard Services
- Non-Residential Meter Installed
- Non-Residential Flat-to-Meter
- Greenbelts

Backyard Services Converted: 14	(June 2014)
Backyard Service Remaining: 29	
Non-Residential Meters Installed: 1	
Non-Residential Meters Remaining: 24	



Elk Grove Water District

Meter Retrofit Program

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: July 16, 2014	



Legend

Main Leaks

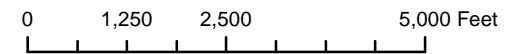
- June 2014
- July 2013 - Previous Month
- July 2012 - June 2013
- July 2011 - June 2012

Service Leaks

- ★ June 2014
- ★ July 2013 - Previous Month
- ★ July 2012 - June 2013
- ★ July 2011 - June 2012

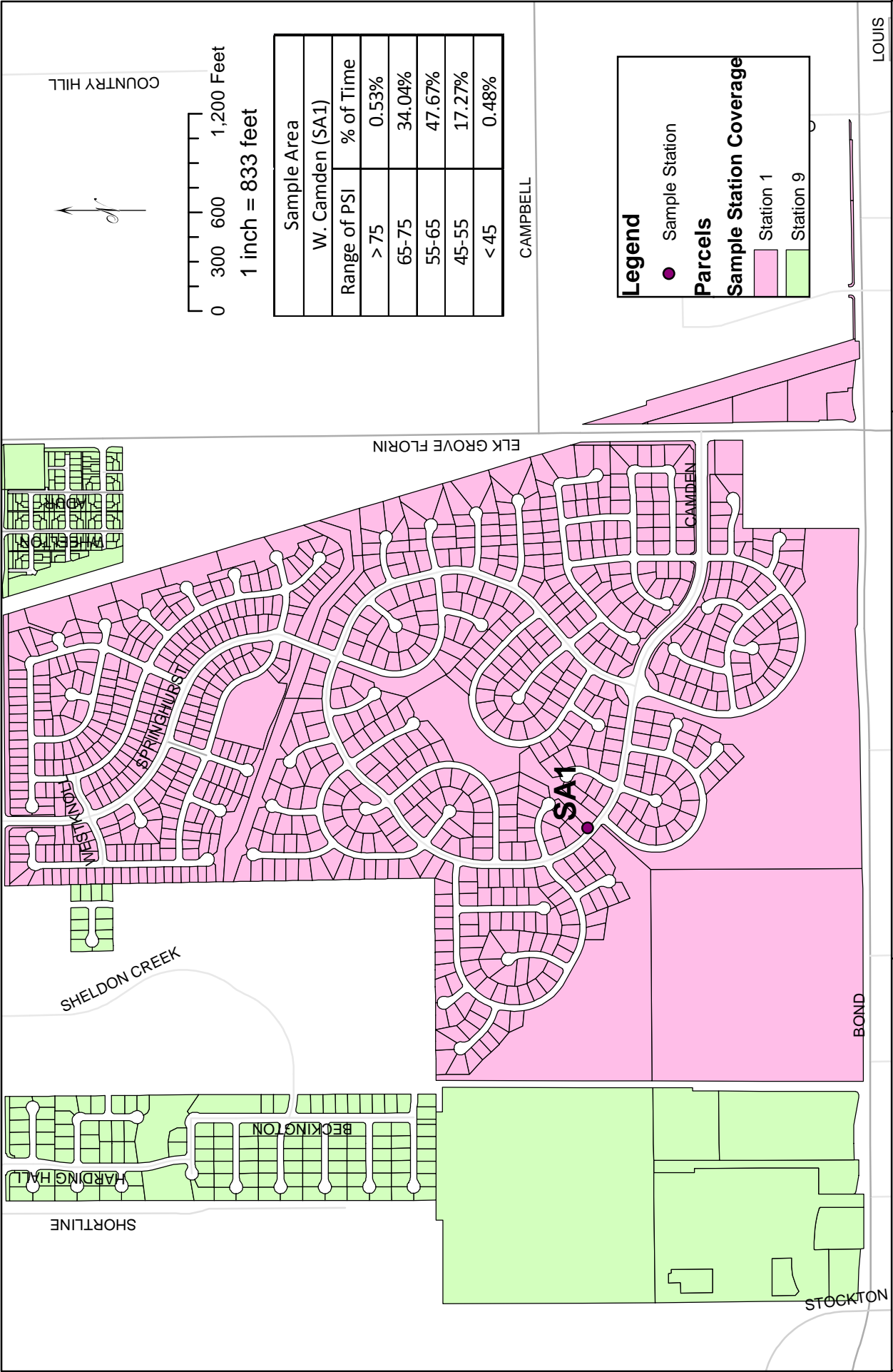


EGWD Leaks



June 2014	
Main line Leaks: 1	YTD: 6
Service line Leaks: 4	YTD: 53
Total Leaks: 5	YTD: 59

Elk Grove Water District
Service / Main Leaks
Created by: Travis Franklin
Date: July 8, 2014



Sample Area	
W. Camden (SA1)	
Range of PSI	% of Time
> 75	0.53%
65-75	34.04%
55-65	47.67%
45-55	17.27%
< 45	0.48%

Legend

- Sample Station

Parcels

Sample Station Coverage

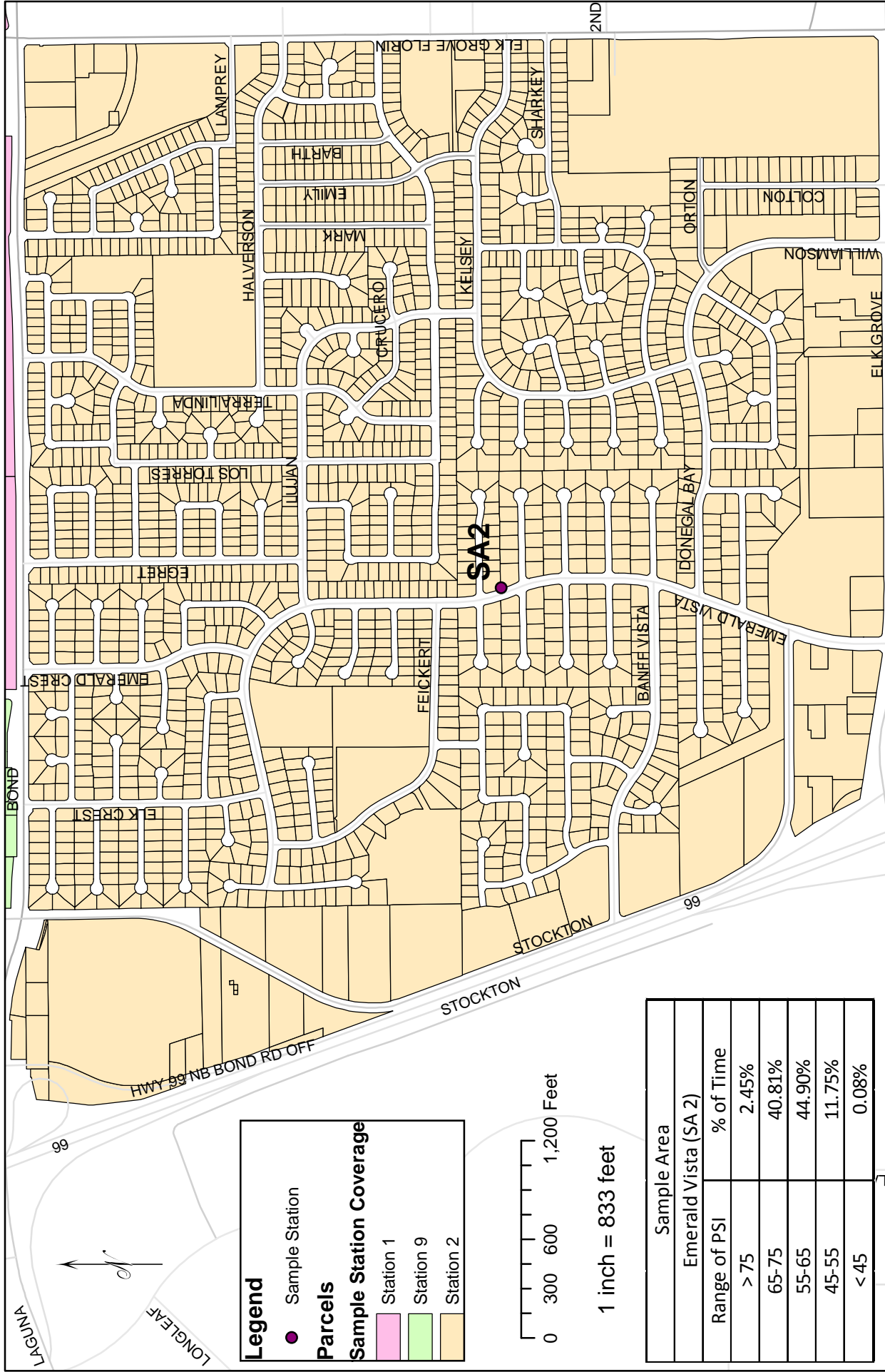
- Station 1 (Pink)
- Station 9 (Green)

Projected Coordinate System:
 NAD 83 State Plane CA II FIPS 0402
 Source:EGWD GIS database
 Created by: Travis Franklin
 July 7, 2014

Elk Grove Water District
 System Pressure Monitoring



Sample Station #1
 Note: Sample Station takes a reading every 5 minutes.
 June 2014



Legend

- Sample Station

Parcels

Sample Station Coverage

- Station 1
- Station 9
- Station 2

0 300 600 1,200 Feet

1 inch = 833 feet

Sample Area	% of Time
Emerald Vista (SA 2)	2.45%
Range of PSI	40.81%
> 75	44.90%
65-75	11.75%
55-65	0.08%
45-55	
< 45	

Sample Station #2

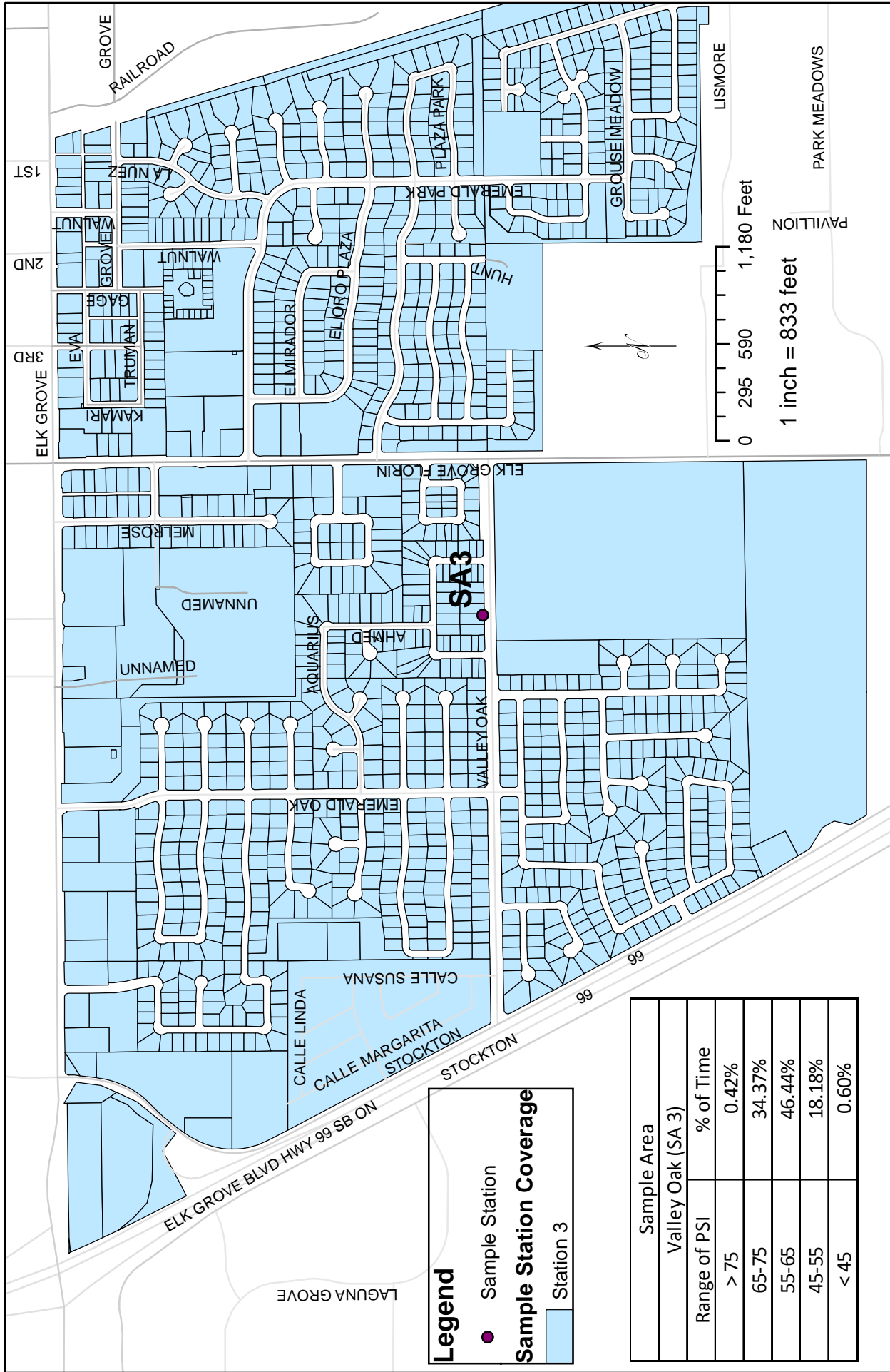
Note: Sample Station takes a reading every 5 minutes.

June 2014



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
 July 7, 2014



Legend

- Sample Station
- Station 3

Sample Station Coverage

Sample Area	Range of PSI	% of Time
Valley Oak (SA 3)	> 75	0.42%
	65-75	34.37%
	55-65	46.44%
	45-55	18.18%
	< 45	0.60%

Sample Station #3

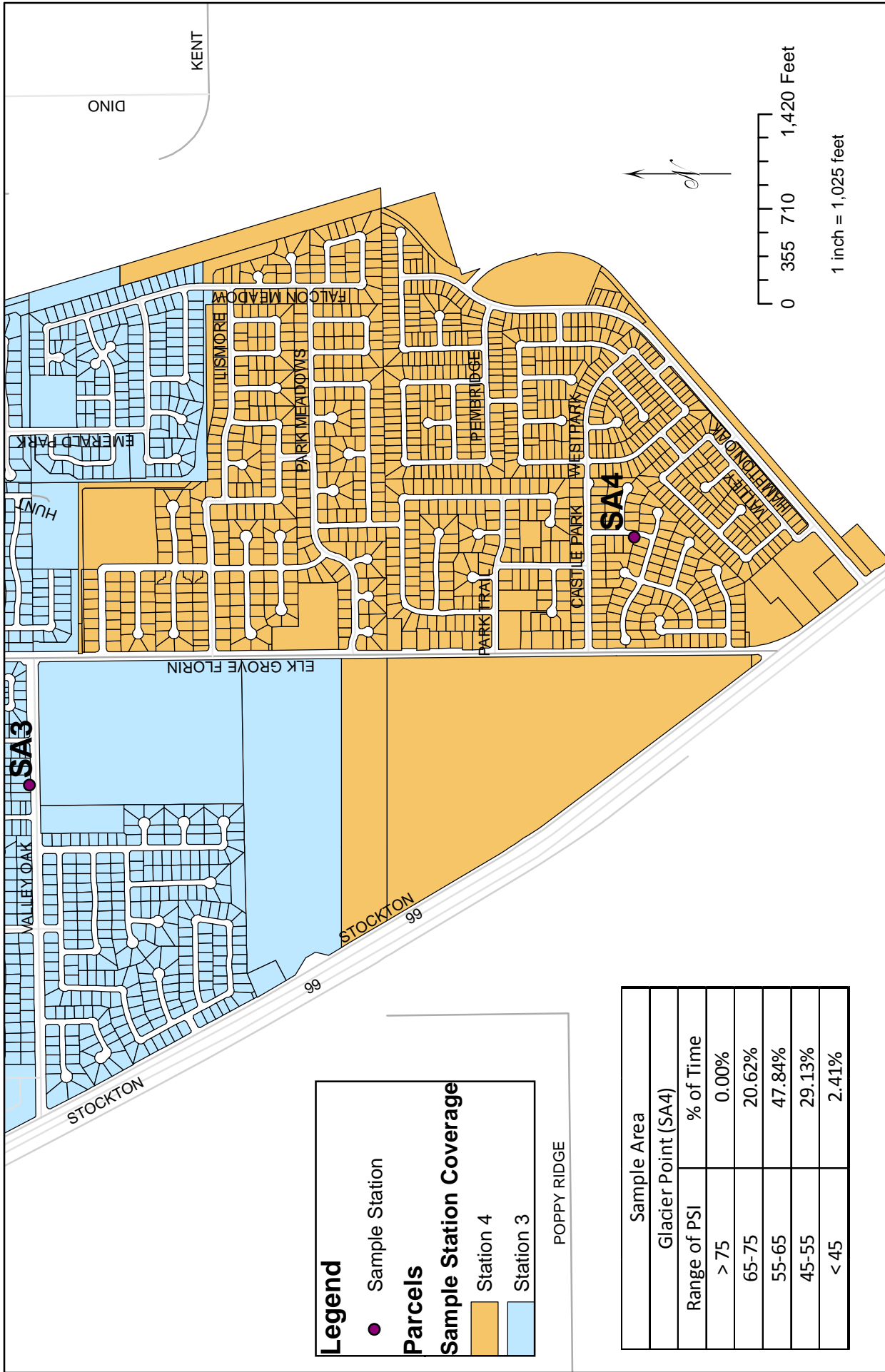
Note: Sample Station takes a reading every 5 minutes.

June 2014



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
July 7, 2014



Legend

- Sample Station

Parcels

Sample Station Coverage

- Station 4
- Station 3

POPPY RIDGE

Sample Area	Glacier Point (SA4)
Range of PSI	% of Time
> 75	0.00%
65-75	20.62%
55-65	47.84%
45-55	29.13%
< 45	2.41%

Sample Station #4

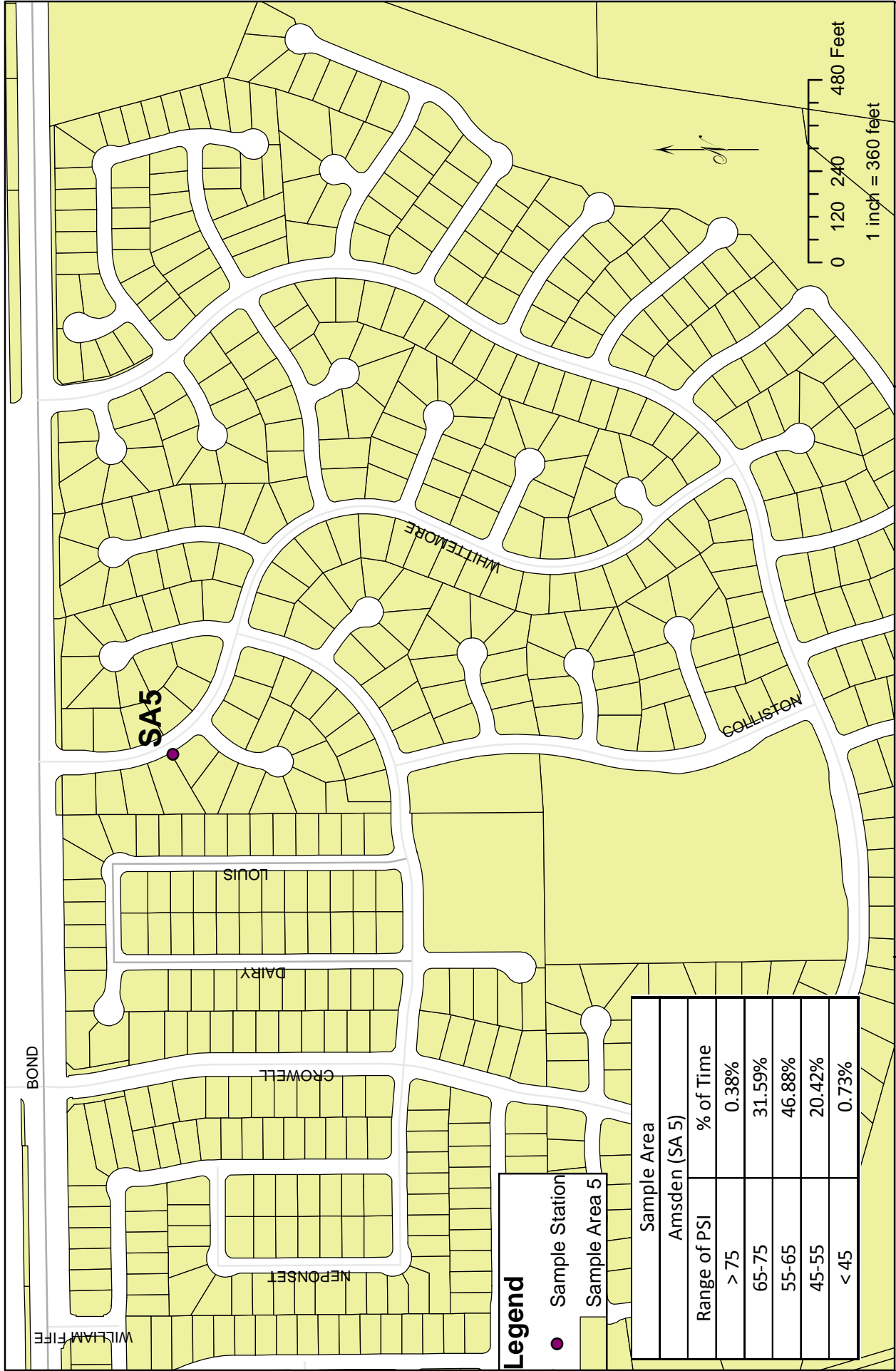
Note: Sample Station takes a reading every 5 minutes.

June 2014



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
July 7, 2014



Projected Coordinate System:
 NAD 83 State Plane CA II FIPS 0402
 Source: EGWD GIS database
 Created by: Travis Franklin
 July 7, 2014

Elk Grove Water District
 System Pressure Monitoring

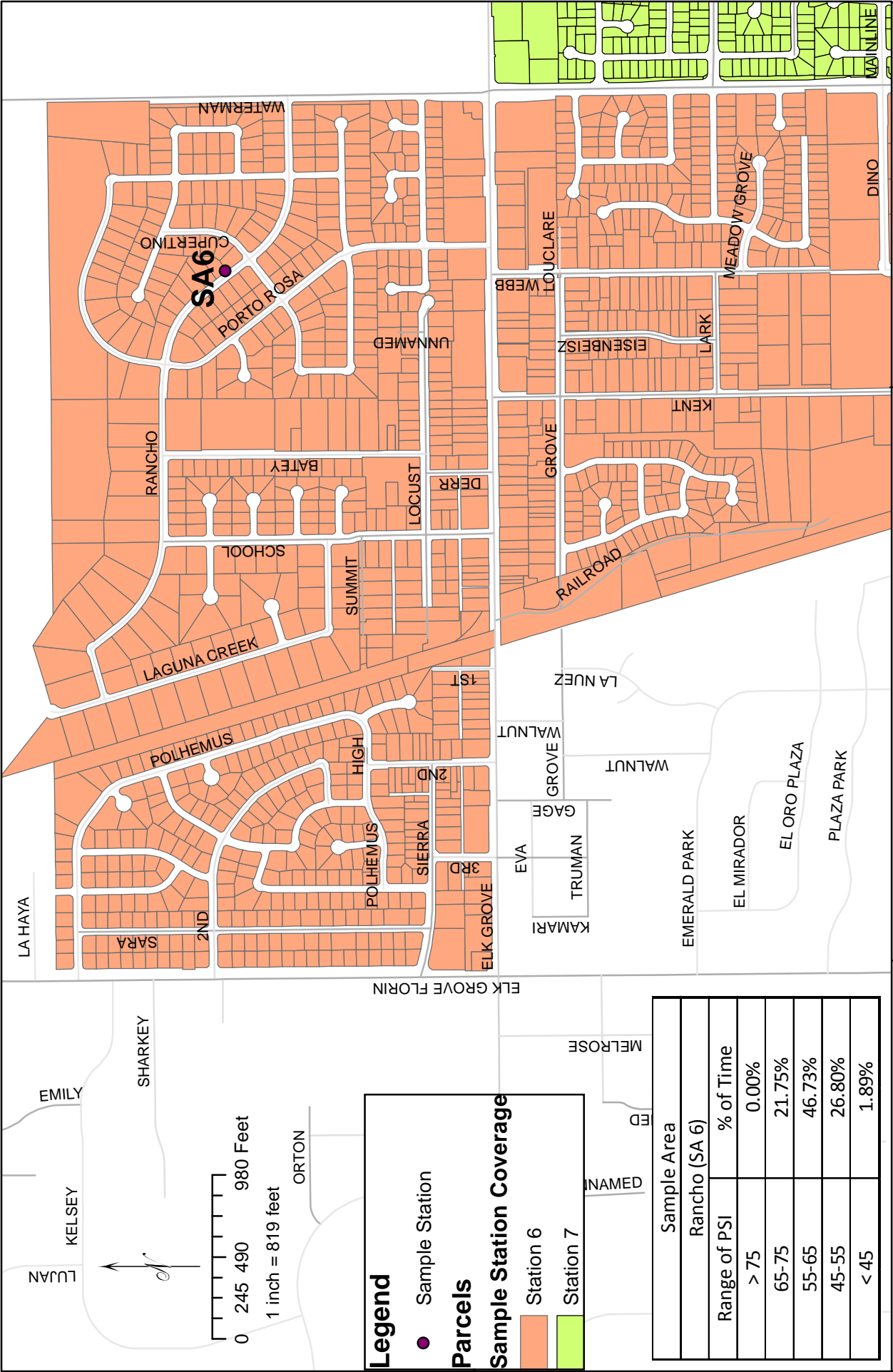


Legend

- Sample Station
- Sample Area 5

Sample Area	
Amsden (SA 5)	
Range of PSI	% of Time
> 75	0.38%
65-75	31.59%
55-65	46.88%
45-55	20.42%
< 45	0.73%

Sample Station #5
 Notes: Sample Station takes a reading every 5 minutes.
 June 2014



Projected Coordinate System:
 NAD 83 State Plane CA II FIPS 0402
 Source: EGWD GIS database
 Created by: Travis Franklin
 July 7, 2014

Elk Grove Water District

System Pressure Monitoring

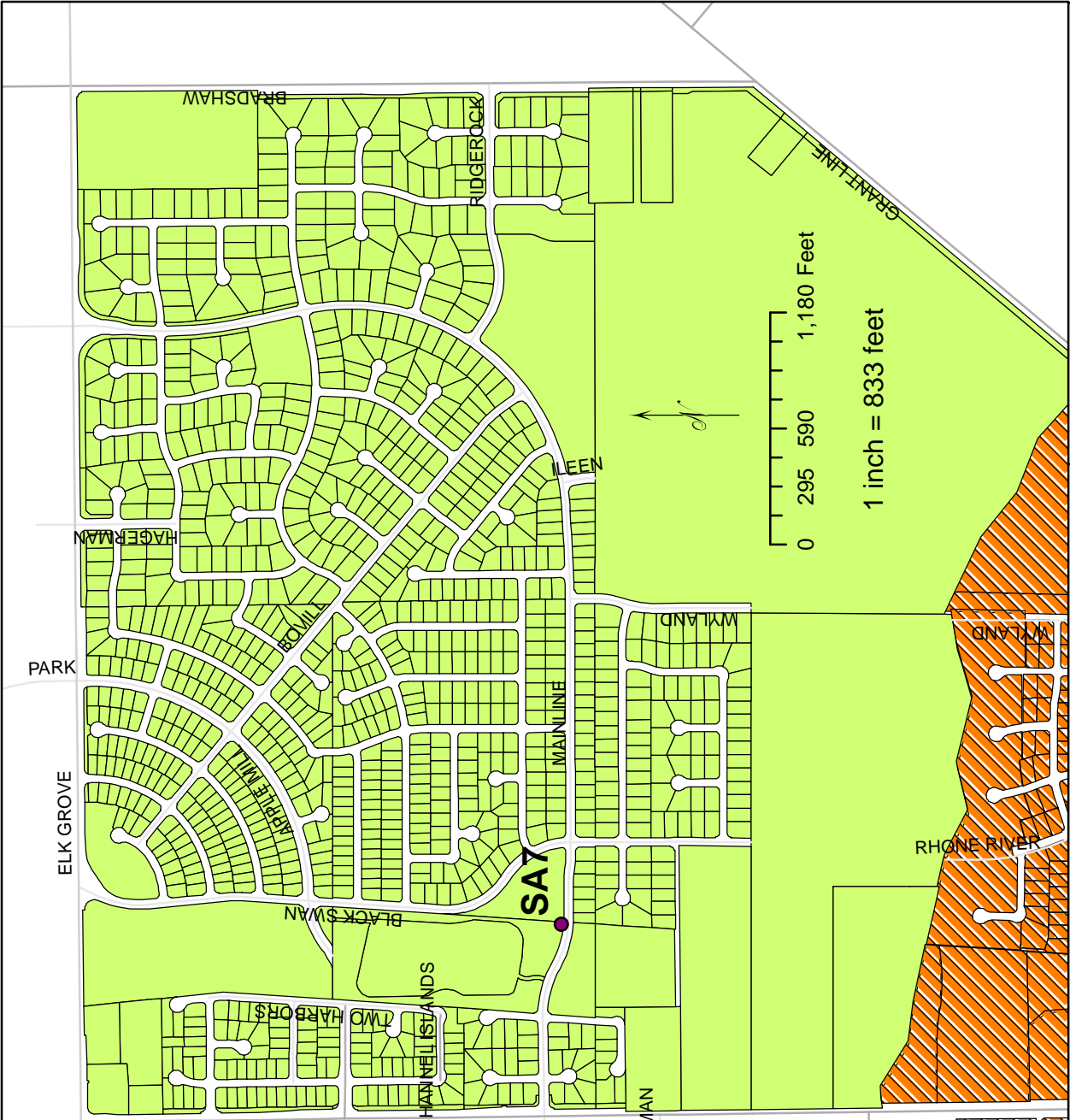


Sample Area	
Rancho (SA 6)	
Range of PSI	% of Time
> 75	0.00%
65-75	21.75%
55-65	46.73%
45-55	26.80%
< 45	1.89%

Sample Station #6

Note: Sample Station takes a reading every 5 minutes.

June 2014



Projected Coordinate System:
 NAD 83 State Plane CA II FIPS 0402
 Source: EGWD GIS database
 Created by: Travis Franklin
 July 7, 2014

Elk Grove Water District

System Pressure Monitoring



Legend

- Sample Station

Parcels

Sample Station Coverage

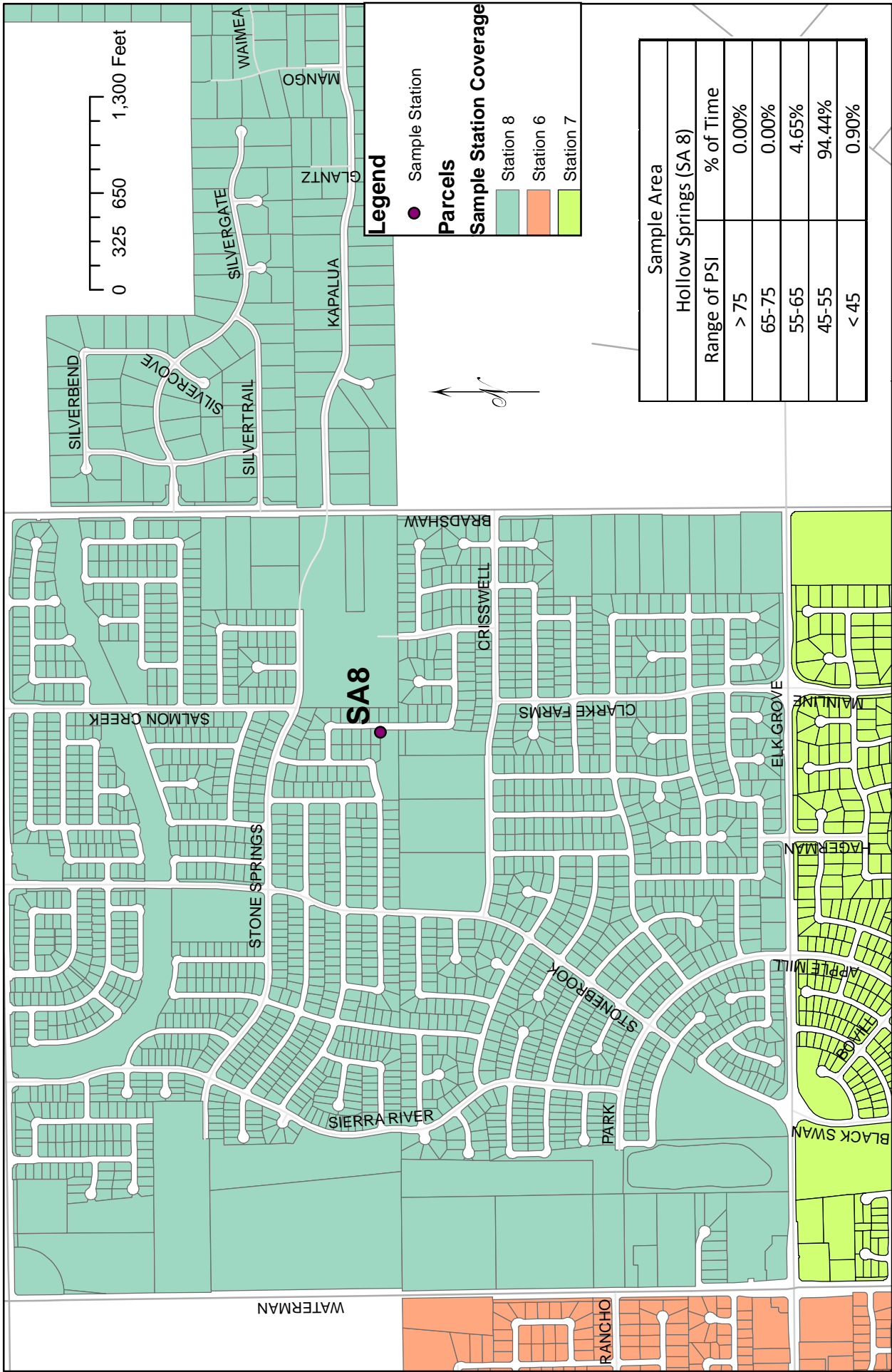
- Station 10
- Station 7

Sample Area	
Mainline (SA 7)	
Range of PSI	% of Time
> 75	0.00%
65-75	0.00%
55-65	21.29%
45-55	78.60%
< 45	0.10%

Sample Station #7

Note: Sample Station takes a reading every 5 minutes.

June 2014



Legend

- Sample Station

Parcels

Sample Station Coverage

- Station 8
- Station 6
- Station 7

Sample Area	Hollow Springs (SA 8)
Range of PSI	% of Time
> 75	0.00%
65-75	0.00%
55-65	4.65%
45-55	94.44%
< 45	0.90%

Elk Grove Water District
 System Pressure Monitoring

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

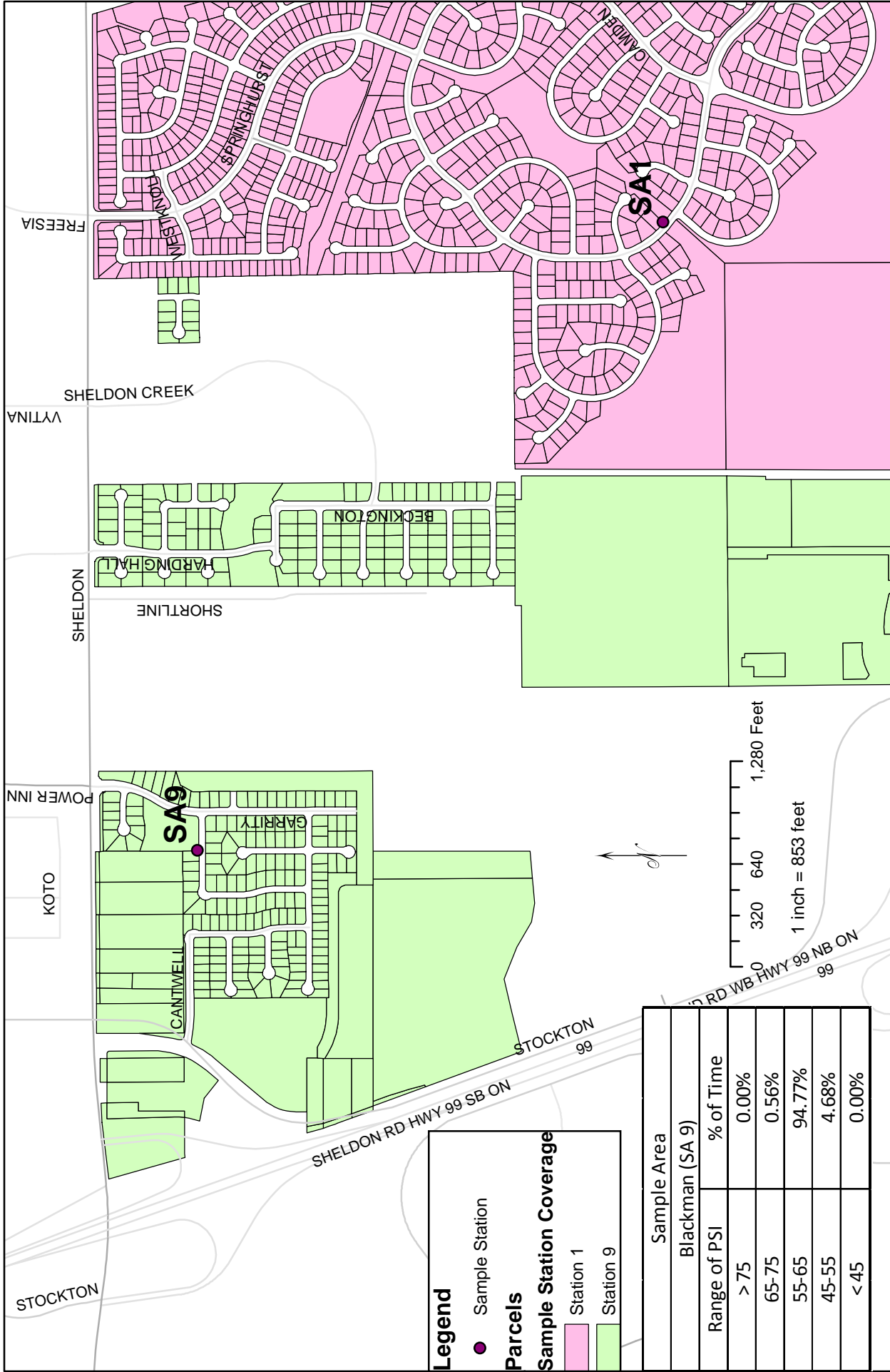
Source: EGWD GIS database
 Created by: Travis Franklin
 July 7, 2014

Sample Station #8

Note: Sample Station takes a reading every 5 minutes.

June 2014





Legend

- Sample Station

Parcels

Sample Station Coverage

- Station 1
- Station 9

Sample Area	Blackman (SA 9)
Range of PSI	% of Time
> 75	0.00%
65-75	0.56%
55-65	94.77%
45-55	4.68%
< 45	0.00%

Sample Station #9

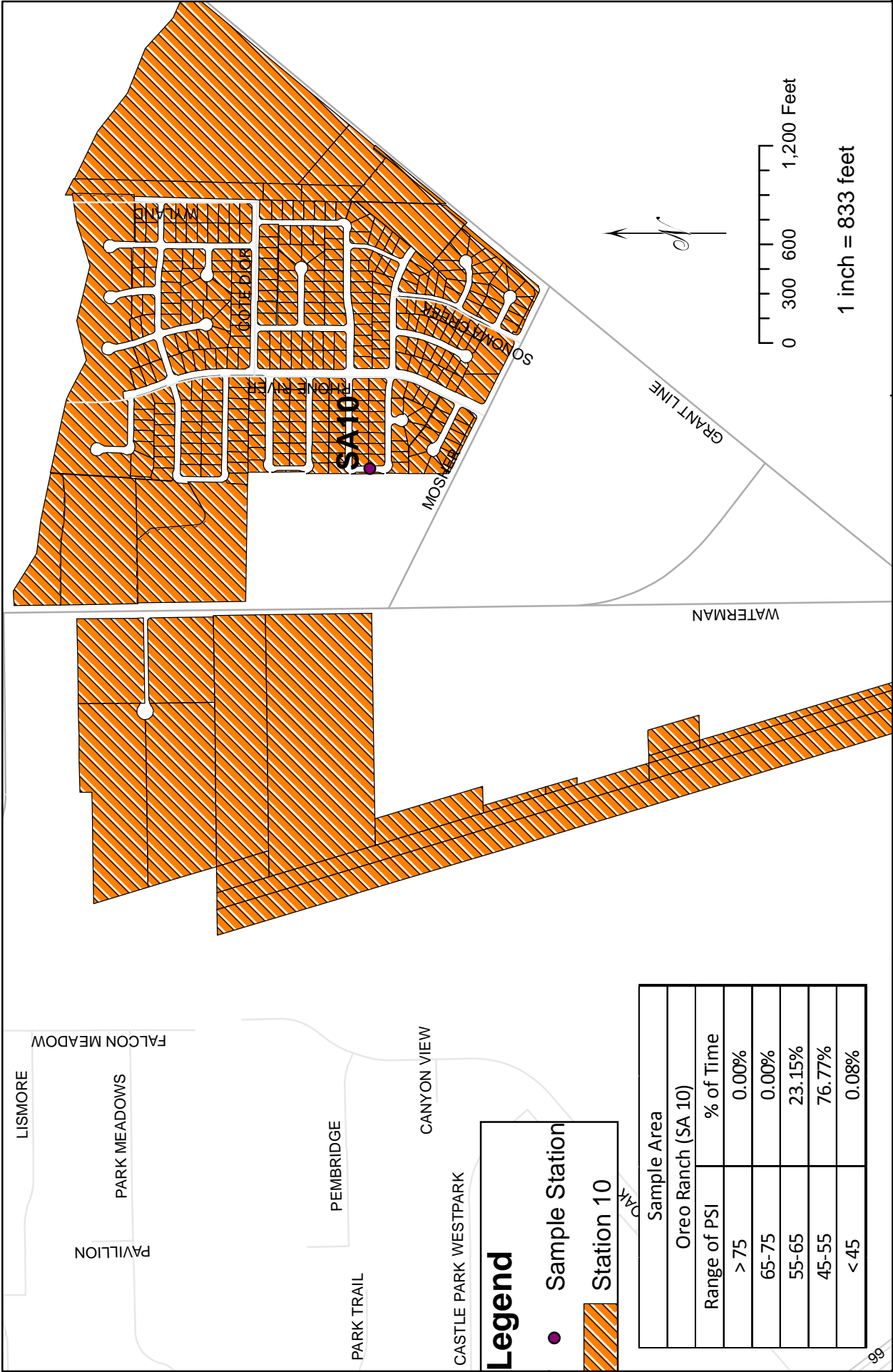
Note: Sample Station takes a reading every 5 minutes.

June 2014



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
July 7, 2014



Sample Area	Range of PSI	% of Time
Oreo Ranch (SA 10)	> 75	0.00%
	65-75	0.00%
	55-65	23.15%
	45-55	76.77%
	< 45	0.08%

Sample Station #10

Note: Sample Station takes a reading every 5 minutes.

June 2014



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
July 7, 2014



IT REPORT

June 2014

The IT Department as part of its routine activities provided security (which includes defending the network against intrusion, Anti-Virus and Anti-Spam measures), general services to end-users while working off a list of priorities. The overall purpose of these services is to ensure that network resources are available for users when they need them. As such the IT Department strives for maximum uptime of all services. Scheduled and unscheduled maintenance will affect the uptime:

Total services monitored: 294

Total uptime: Admin = 99.305% Railroad = 100.000 %

Details for the Activities for the Month of June:

Security:

Attempts against the network, defended against: 553 (compared to 1,051 of last month). Each number is a separate attempt at intrusion into the network at either Railroad or at Admin facilities. The breakdown of this is:

Admin: 367

Railroad: 186

Malicious code blocked:

Admin: 411 (Low Risk: 100%)

Railroad: 344 (Moderate Risk: 0.003%, Low Risk: 99.997%)

OpenDNS: 3477

MailScanner: 64

Spam filtered:

Messages rejected before being allowed into the network: 105,111

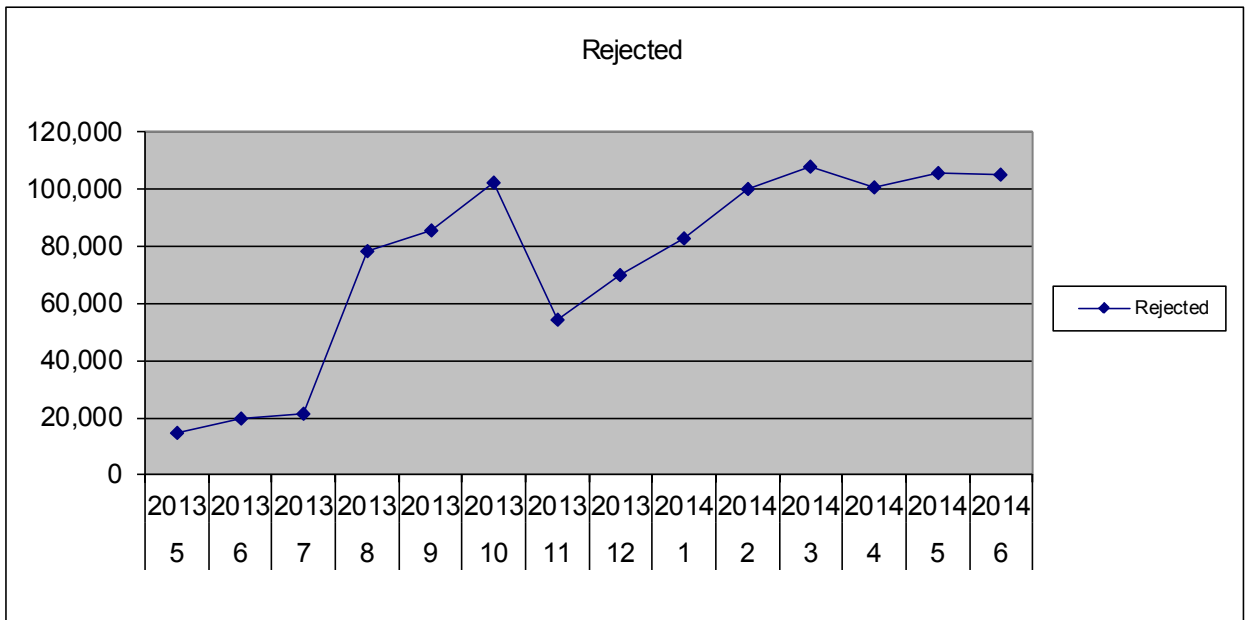
Messages filtered as SPAM: 1,716

Messages let through as GOOD: 4,658

Total Email Messages: 111,485

In summary:

The number of "attacks" against the network appears to be tapering off. The amount of malicious code thwarted was roughly unchanged. The amount of spam being received and consequently the amount of malicious email being filtered remains high and is still a matter of concern.



Total Spam filtered since May 2013/ by Month

Trouble Tickets Resolved:

Each day the IT Dept works on help desk tickets as requested by users or as required to troubleshoot situations. Below is a summary of the tickets worked on this month.

Count	Summary
5	EGWS-SBS Disk Cleanup events
5	Windows Server Update Services (patch maintenance) events
22	Daily Checklist events
57	Individual user requests for assistance

Present and Future Activities:

The IT Department works on an approved list of IT priorities to ensure that all systems are kept in top working condition and plans for future upgrades as systems become outdated or reach their planned end-of-life.

Security:

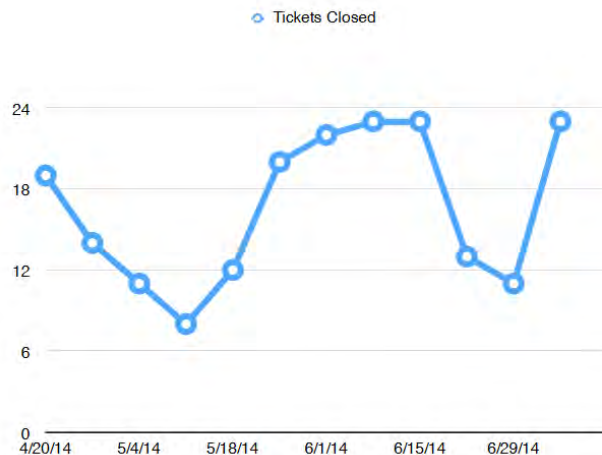
For the month of June, we passed our external security audit. No action items were found.

Monthly Server Patching

Each month a listing of all the security and patch updates is reviewed by the IT department before being approved for installation on the network. For the month of June, Microsoft released 5 Security Bulletins addressing 14 vulnerabilities, a total of 689 patches. All of the patches were approved for install. All servers were backed up prior to patching and then the patches were installed and systems tested to verify that all systems were operating correctly.

System Improvements:

In the main the IT department worked on requests from users this month. And another busy month it was. The below graph shows the number of tickets serviced and closed by the IT department by week:



The Cross-connection/Backflow Management software system went live this past month for INTERNAL use. What this means is:

- a) New servers were set up for the Cross-connection/Backflow Management system as well as the Tester/Customer web portal
- b) The Tester/Customer portal was secured by putting its server into a segregated network called DMZ (**d**emilitarized **z**one)
- c) the Cross-connection/Backflow Management (called XC2) was upgraded to the latest version.
- d) The data file was upgraded to the most current format
- e) The Update-From-Billing programming was completed. This will allow us to take the mailing data and push changes into the XC2 software, thus negating the need to update two address databases.
- f) The complete customer address base from the billing system, was loaded into XC2 and those customers with backflow devices in XC2 were matched up. This means that the current mailto address for each backflow device now matches our billing records.
- g) Current test results (from July and earlier months) are being input into the new system by Treatment staff
- h) The August Test-Due notices can be run from the new system.

Future work will include modifying the Testers/Customer portal as to look and design and then releasing this portal so that Testers can directly input their test results and Customers who own backflow devices can log in to see the status of these devices.

July 23, 2014

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Mark J. Madison, General Manager

SUBJECT: **ADOPTION OF THE AMERICAN RIVER BASIN INTEGRATED REGIONAL WATER MANAGEMENT PLAN**

RECOMMENDATION

It is recommended that the Florin Resource Conservation District Board of Directors adopt a resolution no. 07.23.14.01 adopting the American River Basin Integrated Regional Water Management Plan.

Summary

The American River Basin Integrated Regional Water Management Plan (IRWMP) is the culmination of several years of cooperative effort of local water stakeholders. The result is a comprehensive planning document that identifies management strategies and prioritizes projects and plans that support sustainable water management strategies.

DISCUSSION

Background

Representatives from about 100 water related organizations, including staff from Elk Grove Water District and the City of Elk Grove, participated over a four year period in the development of the IRWMP. Although the Regional Water Authority (RWA) adopted the IRWMP in July 2013, the plan is a living document and will continue to be updated as projects are completed and new priorities emerge. Adoption of the IRWMP is essential for grant funding offered through the plan and as coordinated by RWA. In addition to the extensive document, RWA also maintains a Web site at: <http://irwm.rmcwater.com/rwa/master.php> can upload project proposals and check the status of various regional activities.

The Elk Grove Water District currently has four projects submitted to the IRWMP. They are:

- The Hampton Road Water Treatment Plant Refurbishment
- Variable Frequency Drives for two booster pumps

July 23, 2014

**ADOPTION OF THE AMERICAN RIVER BASIN INTEGRATED REGIONAL WATER
MANAGEMENT PLAN**

Page 2

- SCADA improvements
- AMR/AMI Feasibility Study

Bundling similar regional projects together has proven effective in applying for grant funding.

STRATEGIC PLAN CONFORMITY

Adoption of the American River Basin Integrated Regional Water Management Plan complies with the District's Grants and Other Funding goals of the 2012-2017 Strategic Plan.

FINANCIAL SUMMARY

N/A

Respectfully Submitted,



MARK J. MADISON,
GENERAL MANAGER

Attachments

RESOLUTION NO. 07.23.14.01

**RESOLUTION OF THE BOARD OF DIRECTORS OF THE
FLORIN RESOURCE CONSERVATION DISTRICT
ADOPTING THE AMERICAN RIVER BASIN
INTEGRATED REGIONAL WATER MANAGEMENT
PLAN**

WHEREAS, the Board of Directors of the Florin Resource Conservation District and the other stakeholders of the American River Basin (ARB) support a vision of responsibly managing water resources for the lasting health of the region's community, economy, and environment;

WHEREAS, the Board of Directors of the Florin Resource Conservation District and the stakeholders of the American River Basin recognize the development and implementation of an Integrated Regional Water Management Plan (IRWMP) will support realization of this vision;

WHEREAS, the Regional Water Authority (RWA) was designated in November 2009 by the California Department of Water Resources as the Regional Water Management Group (RWMG) authorized to prepare and implement an IRWMP within the ARB planning area;

WHEREAS, since November 2009, RWA has collaborated extensively with regional stakeholders to develop a vision, principles, goals, and objectives to support the ARB IRWMP;

WHEREAS, the ARB IRWMP is not a legally binding document on the stakeholders adopting the plan, but rather serves as a framework for coordinated planning in the region;

WHEREAS, the ARB IRWMP is a living document, with defined processes for updating plan components;

WHEREAS, RWA, serving as the RWMG, adopted the ARB IRWMP at a public meeting held on July 11, 2013.

THEREFORE, BE IT RESOLVED, that the Florin Resource Conservation District hereby adopts the ARB IRWMP that provides a broadly supported vision, principles, goals, and objectives to help ensure sustainable water resources in the region. The Florin Resource Conservation District will strive to ensure that projects it submits into the ARB IRWMP have considered opportunities for achieving integrated benefits. Furthermore, the Florin Resource Conservation District will update information on any of its projects included in the ARB IRWMP on at least an annual basis.

PASSED, APPROVED, AND ADOPTED this ____ day of _____ .

AYES:

NOES:

ABSENT:

ABSTAIN:

Barrie Lightfoot
Chairman of the Board of Directors

ATTEST:

Stefani Phillips
Secretary to the Board of Directors

July 23, 2014

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Ellen Carlson, Management Analyst

SUBJECT: **AMENDMENT TO WATER SHORTAGE CONTINGENCY PLAN AND IMPLEMENTATION OF STAGE 1 – WATER ALERT**

RECOMMENDATION

It is recommended that the Board adopt Ordinance No. 07-23-14-01 amending the Water Shortage Contingency Plan's Outdoor Irrigation Schedule and order implementation of Stage 1 – Water Alert.

Summary

On January 17, 2014, Governor Brown declared a State of Emergency in California due to severe drought. This was followed on April 25, 2014 by an Executive Order by Governor Brown to strengthen the State's ability to manage water and habitat effectively in drought conditions. On July 15, 2014, the State Water Resources Control Board issued Resolution No. 2014-0038 adopting an emergency regulation for statewide urban water conservation, making certain requirements of urban water suppliers.

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. The Plan includes a mandated odd/even irrigation schedule for residential and commercial customers that prohibits (among other things) outdoor watering on Mondays. This restriction was imposed because of the District's past practice of flushing the system on Mondays—a practice that has since been discontinued. In addition, in response to Governor Brown's April 25, 2014 Executive Order to Redouble State Drought Actions, the District urged its customers to limit outdoor watering to two days a week—Tuesday and Friday for odd number addresses and Monday and Thursday for even number addresses.

**AMENDMENT TO THE WATER SHORTAGE CONTINGENCY PLAN AND
IMPLEMENTATION OF STAGE 1 – WATER ALERT**

Page 2

Present Situation

The purpose of the proposed amendment is to make the Plan's outdoor irrigation schedule consistent with current practice and District directive. Specifically, the proposed amendment will mandate no outdoor irrigation of even number addresses except on Monday, Thursday and Saturday—although these addresses are urged to water only Monday and Thursday—and no outdoor irrigation of odd number addresses except on Tuesday, Friday and Sunday—although these addresses are urged to water only on Tuesday and Friday.

It is important to note that the State Water Resource Control Board's recently approved emergency regulations that are expected to go into effect on August 1 require urban water suppliers (such as the District) that have a water shortage contingency plan, to implement a stage of its water shortage contingency plan which imposes mandatory restrictions on outdoor irrigation. The District's Plan, as amended, meets this requirement, including the related provisions pertaining to penalties and enforcement.

STRATEGIC PLAN CONFORMITY

Adoption of the Ordinance is in 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,



ELLEN R. CARLSON
MANAGEMENT ANALYST

Attachment

ELK GROVE WATER DISTRICT

Water Shortage Contingency Plan – Stages of Action

STAGE 1 – WATER ALERT

Stage 1 becomes effective in the event that there is a probability that the District's supply or distribution system will not be able to meet all the water demands of its customers under water supply *or* by order by the State of California due to emergency drought regulations. Customers are to observe voluntary and mandatory restrictions in reducing water usage by 20%.

MANDATORY MEASURES

Odd/even irrigation for residential & commercial

- Addresses ending in an odd number (1,3,5,7,9) irrigate on Tuesday, Friday and Sunday. Customers are encouraged to **voluntarily** reduce their irrigation to Tuesday and Friday.
- Addresses ending in an even number (0,2,4,6,8) irrigate on Monday, Thursday and Saturday. Customers are encouraged to **voluntarily** reduce their irrigation to Monday and Thursday.

No washing down driveways and sidewalks

No watering of outdoor landscapes that cause excess runoff

No use of a hose to wash a motor vehicle, unless the hose is fitted with a shut-off nozzle

No use of potable water in a fountain or decorative water feature, unless the water is recirculated

NOTE: Exceptions are made for health and safety circumstances.

PENALTIES FOR WATER WASTING

- First violation: Customer is notified of violation
- Second violation: Written warning sent to customer
- Third violation: \$200 fine and customer is scheduled for mandatory water audit
- Fourth violation: \$500 fine and a flow restriction device is installed
- Fifth violation: \$500 fine and the water service is shut off. Connection fee assessed to reactivate water service

ORDINANCE NO. 07-23-14-01
AN ORDINANCE OF THE BOARD OF DIRECTORS OF THE FLORIN RESOURCE
CONSERVATION DISTRICT AMENDING THE WATER SHORTAGE
CONTINGENCY PLAN'S OUTDOOR IRRIGATION SCHEDULE

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 has ordered implementation of Stage 1 – Water Alert of the Water Shortage Contingency Plan and wishes to amend the outdoor irrigation schedule mandated by the Plan.

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 outdoor irrigation schedule mandated by the Water Shortage Contingency Plan are 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 23rd day of July, 2014.

AYES:
NOES:
ABSTAIN:
ABSENT:

Barrie Lightfoot, Chairperson

Attest: _____
Stefani Phillips, Secretary

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State Water Resources Control Board Adopts Emergency Water Conservation Regulation in Response to Drought

Legal Alerts

Regulation Requires Agencies to Restrict Outdoor Irrigation and Prohibit Certain Uses of Water
JULY 17, 2014

The State Water Resources Control Board has adopted an emergency regulation requiring local agencies to restrict potable water use by their customers and prohibiting certain uses of potable water. The regulation is expected to go into effect on August 1 and last for 270 days, unless extended by the SWRCB. The regulation does not apply to water wholesalers or the wholesale operations of combined water retailers/wholesalers.

The regulation requires urban water suppliers (suppliers providing water to over 3,000 municipal customers or providing over 3,000 acre-feet per year to municipal customers) to activate their previously adopted, Water Code-compliant Water Shortage Contingency Plans at the stage that imposes mandatory restrictions on outdoor irrigation of ornamental landscapes or turf.

As an option, urban water suppliers may develop an alternate plan that does not include mandatory restrictions on outdoor irrigation if allocation-based water rate structures, combined with other measures, achieve a level of conservation that would be greater than the amount of conservation that would be achieved by limiting outdoor irrigation to two days per week. An urban water supplier's alternate plan would be subject to approval by the executive director of SWRCB who would evaluate whether the plan meets the requirements above.

All other distributors of public water (whether publically or privately owned and including mutual water companies), along with urban water suppliers that do not have a Water Shortage Contingency Plan or that have been notified by the Department of Water Resources that their plan is not compliant with the Water Code, must limit outdoor irrigation of ornamental landscapes to two days per

People

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week or impose other mandatory conservation measures designed to achieve comparable reductions in water use. These agencies have 30 days from the effective date of the regulations (expected to be August 1) to implement their conservation measures.

Additionally, urban water suppliers must submit a report to the SWRCB by the 15th of each month comparing the amount of potable water produced in the preceding month to that month in 2013. The initial report must also state the number of people served by the urban water supplier. Beginning October 15, the report must provide an estimate of gallons of water used per person per day by residential customers.

The regulation also prohibits individuals from using potable water to wash driveways and sidewalks; water outdoor landscapes that cause excess runoff; wash a car with a hose without a shut-off nozzle; or operate a fountain or other decorative water feature. Excess runoff includes situations where water flows onto adjacent property, non-irrigated areas, private and public walkways, roadways, parking lots, or structures. Violations are punishable by an infraction and up to a \$500 fine for each day a violation occurs. Local agencies or the SWRCB may issue infractions and fines at their discretion. It is anticipated that such fines will likely be imposed through the authority and procedures in an urban water supplier's Water Shortage Contingency Plan.

The SWRCB regulation can be viewed by clicking [here](#).

For more information about the emergency drought regulation and how it may affect your agency, please contact one of the attorney authors of this legal alert listed to the right, an attorney in the [Environmental Law & Natural Resources](#) practice group, or your [BB&K attorney](#).

Disclaimer: BB&K legal alerts are not intended as legal advice. Additional facts or future developments may affect subjects contained herein. Seek the advice of an attorney before acting or relying upon any information in this communiqué.

July 23, 2014

TO: Chairman and Directors of the Florin Resource Conservation District
FROM: Bruce M. Kamilos, Associate Civil Engineer
SUBJECT: **PROFESSIONAL SERVICES AGREEMENT FOR PREPARATION OF ASSET MANAGEMENT PLAN**

RECOMMENDATION

It is recommended that the Board of Directors of the Florin Resource Conservation District/Elk Grove Water District (FRCD/EGWD) approve a motion authorizing the General Manager to execute a professional services agreement with Kennedy/Jenks Consultants in the amount of \$73,370 for the preparation of an Asset Management Plan.

Summary

As part of Elk Grove Water District's Strategic Plan and the FY 2015-2019 Capital Improvement Program, Elk Grove Water District (EGWD) is advancing efforts to complete an Asset Management Plan. EGWD staff solicited proposals from five (5) consultant engineering firms for the preparation of an Asset Management Plan. Two (2) consultant firms, MC Engineering and Kennedy/Jenks Consultants, provided EGWD with proposals. Kennedy/Jenks Consultants provided the proposal with the highest quality and lowest cost to prepare an Asset Management Plan. Staff recommends selecting Kennedy/Jenks Consultants to prepare an Asset Management Plan for the EGWD.

DISCUSSION

Background

EGWD has a five-year capital improvement program (CIP) that addresses funding needs for capital projects over the short term of five years. EGWD requires a strategy to plan for the replacement and rehabilitation of assets over the long term. An Asset Management Plan (AMP) will provide EGWD with the basis to strategize replacement and rehabilitation of assets over longer periods, such as 50 years to a maximum of 100 years.

**PROFESSIONAL SERVICES AGREEMENT FOR PREPARATION OF ASSET
MANAGEMENT PLAN**

Page 2

Present Situation

EGWD's Strategic Plan directs EGWD to develop an AMP for the purpose of managing its assets, and developing a long-term plan to fund future replacement and rehabilitation costs of assets. EGWD staff solicited proposals from five (5) consultant engineering firms for the preparation of an AMP. Two (2) consultant firms, MC Engineering and Kennedy/Jenks Consultants, provided EGWD with proposals. Kennedy/Jenks Consultants provided the proposal with the highest quality and lowest cost to prepare an AMP.

Kennedy/Jenks has developed AMPs for other water agencies and specifically listed project work for the following five agencies as relevant AMP experience – Carmichael Water District, Highline Water District (Kent, Washington), Albuquerque Bernalillo County Water Authority, Austin Water Utilities (Austin, Texas) and City of Santa Monica. Additionally, the Kennedy/Jenks project team has significant other experience related to AMPs. An important deliverable to EGWD will be Kennedy/Jenks' Infrastructure Asset Manager ('KJ-IAM'), a non-proprietary software program to store asset data, perform asset management calculations and generate output for reporting purposes. KJ-IAM can be used by EGWD staff for future updates to the AMP on an as-needed basis.

Environmental Considerations

The professional services agreement with Kennedy/Jenks Consultants is for consulting services only and, therefore, does not have environmental considerations.

Strategic Plan Conformity

The recommendation made in this staff report conforms to FRCD/EGWD's Strategic Plan. The Strategic Plan directs EGWD to develop an Asset Management Plan.

FINANCIAL SUMMARY

The financial impact of the professional services agreement for the preparation of an Asset Management Plan is \$73,370. Funding for this amount will come from the FY 14/15 Operating Budget.

July 23, 2014

**PROFESSIONAL SERVICES AGREEMENT FOR PREPARATION OF ASSET
MANAGEMENT PLAN**

Page 3

Respectfully Submitted,

B. M. Kamilos

BRUCE M. KAMILOS, P.E.
ASSOCIATE CIVIL ENGINEER

BMK/

**FLORIN RESOURCE CONSERVATION DISTRICT
PROFESSIONAL SERVICES AGREEMENT
FOR
ENGINEERING CONSULTANT SERVICES**

1. PARTIES AND DATE.

This Agreement is made and entered into this ____ day of July 2014, by and between the Florin Resource Conservation District, a resource conservation district organized under the laws of the State of California with its principal place of business at 9257 Elk Grove Boulevard, Elk Grove, California (“District”) and Kennedy/Jenks Consultants, a California corporation, with its principal place of business at 10850 Gold Center Dr. Ste. 350, Rancho Cordova, CA 95670 (“Consultant”). District and Consultant are sometimes individually referred to herein as “Party” and collectively as “Parties.”

2. RECITALS.

2.1 Consultant.

Consultant desires to perform and assume responsibility for the provision of certain engineering consultant services required by District on the terms and conditions set forth in this Agreement. Consultant represents that it is experienced in providing engineering consultant services to public clients, is licensed in the State of California, and is familiar with the plans of District.

2.2 Project.

District desires to engage Consultant to render such services for the preparation of an Asset Management Plan (“Project”) as set forth in this Agreement.

3. TERMS.

3.1 Scope of Services and Term.

3.1.1 General Scope of Services. Consultant promises and agrees to furnish to District all labor, materials, tools, equipment, services, and incidental and customary work necessary to fully and adequately supply the engineering consultant services necessary for the Project (“Services”). The Services are more particularly described in Exhibit “A” attached hereto and incorporated herein by reference. All Services shall be subject to, and performed in accordance with, this Agreement, the exhibits attached hereto and incorporated herein by reference, and all applicable local, state and federal laws, rules and regulations.

3.1.2 Term. The term of this Agreement shall be from the date that the Agreement is executed by both Parties until 6/30/15 or the Services are completed (whichever occurs first), unless earlier terminated as provided herein. Consultant shall complete the Services within the

term of this Agreement, and shall meet any other established schedules and deadlines.

3.2 Responsibilities of Consultant.

- 3.2.1 Control and Payment of Subordinates; Independent Contractor. The Services shall be performed by Consultant or under its supervision. Consultant will determine the means, methods and details of performing the Services subject to the requirements of this Agreement. District retains Consultant on an independent contractor basis and not as an employee. Consultant retains the right to perform similar or different services for others during the term of this Agreement. Any additional personnel performing the Services under this Agreement on behalf of Consultant shall also not be employees of District and shall at all times be under Consultant's exclusive direction and control. Consultant shall pay all wages, salaries, and other amounts due such personnel in connection with their performance of Services under this Agreement and as required by law. Consultant shall be responsible for all reports and obligations respecting such additional personnel, including, but not limited to: social security taxes, income tax withholding, unemployment insurance, disability insurance, and workers' compensation insurance.
- 3.2.2 Schedule of Services. Consultant shall perform the Services expeditiously, within the term of this Agreement, and in accordance with the Schedule of Services set forth in Exhibit "B" attached hereto and incorporated herein by reference. Consultant represents that it has the professional and technical personnel required to perform the Services in conformance with such conditions. In order to facilitate Consultant's conformance with the Schedule of Services, District shall respond to Consultant's submittals in a timely manner. Upon request of District, Consultant shall provide a more detailed schedule of anticipated performance to meet the Schedule of Services.
- 3.2.3 Conformance to Applicable Requirements. All work prepared by Consultant shall be subject to the approval of District.
- 3.2.4 Substitution of Key Personnel. Consultant has represented to District that certain key personnel will perform and coordinate the Services under this Agreement. Should one or more of such personnel become unavailable, Consultant may substitute other personnel of at least equal competence upon written approval of District. In the event that District and Consultant cannot agree as to the substitution of key personnel, District shall be entitled to terminate this Agreement for cause. As discussed below, any personnel who fail or refuse to perform the Services in a manner acceptable to District, or who are determined by District to be uncooperative, incompetent, a threat to the adequate or timely completion of the Project or a threat to the safety of persons or

property, shall be promptly removed from the Project by Consultant at the request of District. The key personnel for performance of this Agreement are as follows: Alex Peterson, Tom Keown, Randy Weaver, Doug Stewart and Jeroen Preiss.

- 3.2.5 District's Representative. District hereby designates Mark J. Madison, or his designee, to act as its representative for the performance of this Agreement ("District's Representative"). District's Representative shall have the power to act on behalf of District for all purposes under this Contract. Consultant shall not accept direction or orders from any person other than District's Representative or his or her designee.
- 3.2.6 Consultant's Representative. Consultant hereby designates Alex Peterson, or his designee, to act as its representative for the performance of this Agreement ("Consultant's Representative"). Consultant's Representative shall have full authority to represent and act on behalf of Consultant for all purposes under this Agreement. Consultant's Representative shall supervise and direct the Services, using his best skill and attention, and shall be responsible for all means, methods, techniques, sequences and procedures and for the satisfactory coordination of all portions of the Services under this Agreement.
- 3.2.7 Coordination of Services. Consultant agrees to work closely with District staff in the performance of Services and shall be available to District's staff, consultants and other staff at all reasonable times.
- 3.2.8 Standard of Care; Performance of Employees. Consultant shall perform all Services under this Agreement in a skillful and competent manner, consistent with the standards generally recognized as being employed by professionals in the same discipline in the State of California. Consultant represents and maintains that it is skilled in the professional calling necessary to perform the Services. Consultant warrants that all employees and sub-consultants shall have sufficient skill and experience to perform the Services assigned to them. Finally, Consultant represents that it, its employees and sub-consultants have all licenses, permits, qualifications and approvals of whatever nature that are legally required to perform the Services, including a business license, and that such licenses and approvals shall be maintained throughout the term of this Agreement. As provided for in the indemnification provisions of this Agreement, Consultant shall perform, at its own cost and expense and without reimbursement from District, any services necessary to correct errors or omissions which are caused by Consultant's failure to comply with the standard of care provided for herein. Any employee of Consultant or its sub-consultants who is determined by District to be uncooperative, incompetent, a threat to the adequate or timely completion of the Project, a threat to the safety of persons or property, or any employee who fails or refuses

to perform the Services in a manner acceptable to District, shall be promptly removed from the Project by Consultant and shall not be re-employed to perform any of the Services or to work on the Project.

3.2.9 Laws and Regulations. Consultant shall keep itself fully informed of and in compliance with all local, state and federal laws, rules and regulations in any manner affecting the performance of the Project or the Services, including all Cal/OSHA requirements, and shall give all notices required by law. Consultant shall be liable for all violations of such laws and regulations in connection with Services. If Consultant performs any work knowing it to be contrary to such laws, rules and regulations and without giving written notice to District, Consultant shall be solely responsible for all costs arising therefrom. Consultant shall defend, indemnify and hold District, its officials, directors, officers, employees and agents free and harmless, pursuant to the indemnification provisions of this Agreement, from any claim or liability arising out of any failure or alleged failure to comply with such laws, rules or regulations.

3.2.10 Insurance.

3.2.10.1. Time for Compliance. Consultant shall not commence work under this Agreement until it has provided evidence satisfactory to District that it has secured all insurance required under this section. In addition, Consultant shall not allow any sub-consultant to commence work on any subcontract until it has provided evidence satisfactory to District that the sub-consultant has secured all insurance required under this section.

3.2.10.2. Types of Required Coverages. As a condition precedent to the effectiveness of this Agreement for work to be performed hereunder and without limiting the indemnity provisions of the Agreement, Consultant in partial performance of its obligations under such Agreement, shall procure and maintain in full force and effect during the term of the Agreement, the following policies of insurance.

- (a) Commercial General Liability: Commercial General Liability Insurance which affords coverage at least as broad as Insurance Services Office "occurrence" form CG 0001, with minimum limits of at least \$1,000,000 per occurrence. Defense costs shall be paid in addition to the limits.

The policy shall contain no endorsements or provisions limiting coverage for (1) products and completed operations; (2) contractual liability; (3) third party action over claims; or (4) cross liability exclusion for claims or suits by one insured against another.

- (b) Automobile Liability Insurance: Automobile Liability Insurance with coverage at least as broad as Insurance Services Office Form CA 0001 covering "Any Auto" (Symbol 1) with minimum limits of \$1,000,000 each accident.
- (c) Workers' Compensation: Workers' Compensation Insurance, as required by the State of California and Employer's Liability Insurance with a limit of not less than \$1,000,000 per accident for bodily injury and disease.
- (d) Professional Liability: Professional Liability insurance for errors and omissions with minimum limits of \$1,000,000. Covered Professional Services shall specifically include all work to be performed under the Agreement.

If coverage is written on a claims-made basis, the retroactive date shall precede the effective date of the initial Agreement and continuous coverage will be maintained or an extended reporting period will be exercised for a period of at least three (3) years from termination or expiration of this Agreement.

3.2.11 Endorsements.

The policy or policies of insurance required by Section 3.2.10.2 (a) Commercial General Liability and (b) Automobile Liability Insurance shall be endorsed to provide the following:

- (1) Additional Insured: The indemnified parties shall be additional insureds with regard to liability and defense of suits or claims arising out of the performance of the Agreement. Additional Insured Endorsements shall not (1) be restricted to "ongoing operations"; (2) exclude "contractual liability"; (3) restrict coverage to "sole" liability of Consultant; or (4) contain any other exclusions contrary to the Agreement.
- (2) Primary Insurance and Non-Contributing Insurance: This insurance shall be primary and any other insurance, deductible, or self-insurance maintained by the indemnified parties shall not contribute with this primary insurance.
- (3) Severability: In the event of one insured, whether named or additional, incurs liability to any other of the insureds, whether named or additional, the policy shall cover the insured against whom claim is or may be made in the same

manner as if separate policies had been issued to each insured, except that the limits of insurance shall not be increased thereby.

- (4) Cancellation: The policy shall not be canceled or the coverage suspended, voided, reduced or allowed to expire until a thirty (30) day prior written notice of cancellation has been served upon District except ten (10) days prior written notice shall be allowed for non-payment of premium.
- (5) Duties: Any failure by the named insured to comply with reporting provisions of the policy or breaches or violations of warranties shall not affect coverage provided to the indemnified parties.
- (6) Applicability: That the coverage provided therein shall apply to the obligations assumed by Consultant under the indemnity provisions of the Agreement, unless the policy or policies contain a blanket form of contractual liability coverage.

(A) The policy or policies of insurance required by Section 3.2.10.2 (c) Workers' Compensation shall be endorsed, as follows:

- (1) Waiver of Subrogation: A waiver of subrogation stating that the insurer waives all rights of subrogation against the indemnified parties.
- (2) Cancellation: The policy shall not be canceled or the coverage suspended, voided, reduced or allowed to expire until a thirty (30) day prior written notice of cancellation has been served upon District except ten (10) days prior written notice shall be allowed for non-payment of premium.

(B) The policy or policies of insurance required by Section 3.2.10.2 (d) Professional Liability shall be endorsed, as follows:

- (1) Cancellation: The policy shall not be canceled or the coverage suspended, voided, reduced or allowed to expire until a thirty (30) day prior written notice of cancellation has been served upon District except ten (10) days prior written notice shall be allowed for non-payment of premium.

3.2.11.2. Deductible. Any deductible or self-insured retention must be approved in writing by District and shall protect the indemnified parties in the same manner and to the same extent as they would have been protected had the policy or policies not contained a deductible or self-insured retention.

3.2.11.3. Evidence of Insurance. Consultant, concurrently with the execution of the Agreement, and as a condition precedent to the effectiveness thereof, shall deliver either certified copies of the required policies, or original certificates and endorsements on forms approved by District. The certificates and endorsements for each insurance policy shall be signed by a person authorized by that insurer to bind coverage on its behalf. At least fifteen (15) days prior to the expiration of any such policy, evidence of insurance showing that such insurance coverage has been renewed or extended shall be filed with District. If such coverage is cancelled or reduced, Consultant shall, within ten (10) days after receipt of written notice of such cancellation or reduction of coverage, file with District evidence of insurance showing that the required insurance has been reinstated or has been provided through another insurance company or companies.

3.2.11.4. Failure to Maintain Coverage. Consultant agrees to suspend and cease all operations hereunder during such period of time as the required insurance coverage is not in effect and evidence of insurance has not been furnished to District. District shall have the right to withhold any payment due Consultant until Consultant has fully complied with the insurance provisions of this Agreement. In the event that Consultant's operations are suspended for failure to maintain required insurance coverage, Consultant shall not be entitled to an extension of time for completion of the Work because of production lost during suspension.

3.2.11.5. Acceptability of Insurers. Each such policy shall be from a company or companies with a current A.M. Best's rating of no less than A:VII and authorized to do business in the State of California, or otherwise allowed to place insurance through surplus line brokers under applicable provisions of the California Insurance Code or any federal law.

3.2.11.6. Insurance for Sub-consultants. All sub-consultants shall be included as additional insureds under Consultant's policies, or Consultant shall be responsible for causing sub-consultants to purchase the appropriate insurance in compliance with the terms of this Agreement, including adding District as an Additional Insured to the sub-consultant's policies.

3.2.12 Safety. Consultant shall execute and maintain its work so as to avoid injury or damage to any person or property. In carrying out its Services, Consultant shall at all times be in compliance with all applicable local, state and federal laws, rules and regulations, and shall exercise all necessary precautions for the safety of employees appropriate to the nature of the work and the conditions under which the work is to be performed. Safety precautions as applicable shall include, but shall not be limited to: (A) adequate life protection and life

saving equipment and procedures; (B) instructions in accident prevention for all employees and sub-consultants, such as safe walkways, scaffolds, fall protection ladders, bridges, gang planks, confined space procedures, trenching and shoring, equipment and other safety devices, equipment and wearing apparel as are necessary or lawfully required to prevent accidents or injuries; and (C) adequate facilities for the proper inspection and maintenance of all safety measures.

3.3 Fees and Payments.

3.3.1 Compensation Consultant shall receive compensation, including authorized reimbursements, for all Services rendered under this Agreement at the rates set forth in Exhibit "C" attached hereto and incorporated herein by reference. The total compensation shall not exceed Seventy-Three Thousand Three Hundred Seventy Dollars (\$73,370) without written approval of District's General Manager. Extra Work may be authorized, as described below, and if authorized, will be compensated at the rates and manner set forth in this Agreement.

3.3.2 Payment of Compensation. Consultant shall submit to District a monthly itemized statement which indicates work completed and hours of Services rendered by Consultant. The statement shall describe the amount of Services and supplies provided since the initial commencement date, or since the start of the subsequent billing periods, as appropriate, through the date of the statement. District shall, within 45 days of receiving such statement, review the statement and pay all approved charges thereon.

3.3.3 Reimbursement for Expenses. Consultant shall not be reimbursed for any expenses unless authorized in writing by District.

3.3.4 Extra Work. At any time during the term of this Agreement, District may request that Consultant perform Extra Work. As used herein, "Extra Work" means any work which is determined by District to be necessary for the proper completion of the Project, but which the parties did not reasonably anticipate would be necessary at the execution of this Agreement. Consultant shall not perform, nor be compensated for, Extra Work without written authorization from District's Representative.

3.3.5 [reserved]

3.3.6 [reserved]

3.4 Accounting Records.

3.4.1 Maintenance and Inspection. Consultant shall maintain complete and accurate records with respect to all costs and expenses incurred under this Agreement. All such records shall be clearly identifiable. Consultant shall allow a representative of District during normal business hours to examine, audit, and make transcripts or copies of such records and any other documents created pursuant to this Agreement. Consultant shall allow inspection of all work, data, documents, proceedings, and activities related to the Agreement for a period of three (3) years from the date of final payment under this Agreement.

3.5 General Provisions.

3.5.1 Termination of Agreement.

3.5.1.1. Grounds for Termination. District may, by written notice to Consultant, terminate the whole or any part of this Agreement at any time and without cause by giving written notice to Consultant of such termination, and specifying the effective date thereof, at least seven (7) days before the effective date of such termination. Upon termination, Consultant shall be compensated only for those services which have been adequately rendered to District, and Consultant shall be entitled to no further compensation. Consultant may not terminate this Agreement except for cause.

3.5.1.2. Effect of Termination. If this Agreement is terminated as provided herein, District may require Consultant to provide all finished or unfinished Documents and Data and other information of any kind prepared by Consultant in connection with the performance of Services under this Agreement. Consultant shall be required to provide such document and other information within fifteen (15) days of the request.

3.5.1.3. Additional Services. In the event this Agreement is terminated in whole or in part as provided herein, District may procure, upon such terms and in such manner as it may determine appropriate, services similar to those terminated.

3.5.2 Delivery of Notices. All notices permitted or required under this Agreement shall be given to the respective parties at the following address, or at such other address as the respective parties may provide in writing for this purpose:

Consultant:

Kennedy/Jenks Consultants
10850 Gold Center Dr. Ste. 350
Rancho Cordova, CA 95670
Attn: Alex Peterson, P.E.

District:

Florin Resource Conservation District
9257 Elk Grove Boulevard
Elk Grove, CA 95624
Attn: Mark J. Madison, P.E.

Such notice shall be deemed made when personally delivered or when mailed, forty-eight (48) hours after deposit in the U.S. Mail, first class postage prepaid and addressed to the party at its applicable address. Actual notice shall be deemed adequate notice on the date actual notice occurred, regardless of the method of service.

3.5.3 Ownership of Materials and Confidentiality.

3.5.3.1. Documents & Data; Licensing of Intellectual Property. This Agreement creates a non-exclusive and perpetual license for District to copy, use, modify, reuse, or sublicense any and all copyrights, designs, and other intellectual property embodied in plans, specifications, studies, drawings, estimates, and other documents or works of authorship fixed in any tangible medium of expression, including but not limited to, physical drawings or data magnetically or otherwise recorded on computer diskettes, which are prepared or caused to be prepared by Consultant under this Agreement (“Documents & Data”) for this project only. Consultant shall require all sub-consultants to agree in writing that District is granted a non-exclusive and perpetual license for any Documents & Data the sub-consultant prepares under this Agreement. Consultant represents and warrants that Consultant has the legal right to license any and all Documents & Data. Consultant makes no such representation and warranty in regard to Documents & Data which were prepared by design professionals other than Consultant or provided to Consultant by District. District shall not be limited in any way in its use of the Documents and Data at any time, provided that any such use not within the purposes intended by this Agreement shall be at District’s sole risk.

3.5.3.2. Confidentiality. All ideas, memoranda, specifications, plans, procedures, drawings, descriptions, computer program data, input record data, written information, and other Documents and Data either created by or provided to Consultant in connection with the performance of this Agreement shall be held confidential by Consultant. Such materials shall not, without the prior written consent of District, be used by Consultant for any purposes other than the performance of the Services. Nor shall such materials be disclosed to any person or entity not connected with the performance of the Services or the Project. Nothing furnished to Consultant which is otherwise known to Consultant or is generally known, or has become known, to the related industry shall be deemed confidential. Consultant shall not use District’s name or insignia, photographs of the Project, or any publicity pertaining to the Services or the Project in any magazine,

trade paper, newspaper, television or radio production or other similar medium without the prior written consent of District.

- 3.5.4 Cooperation; Further Acts. The Parties shall fully cooperate with one another, and shall take any additional acts or sign any additional documents as may be necessary, appropriate or convenient to attain the purposes of this Agreement.
- 3.5.5 Attorneys' Fees. If either party commences an action against the other party, either legal, administrative or otherwise, arising out of or in connection with this Agreement, the prevailing party in such litigation shall be entitled to have and recover from the losing party reasonable attorneys' fees and all other costs of such action.
- 3.5.6 Indemnification. Consultant shall defend, indemnify and hold District, its officials, officers, employees, volunteers and agents free and harmless from any and all claims, demands, causes of action, costs, expenses, liability, loss, damage or injury, in law or equity, to property or persons, including wrongful death, arising out of negligence, or recklessness, or willful misconduct of Consultant, its officials, officers, employees, agents, subcontractors and sub-consultants arising out of or in connection with the performance of the Services, the Project or this Agreement, including without limitation the payment of all consequential damages and attorneys' fees and other related costs and expenses. Consultant's obligation to indemnify shall not be restricted to insurance proceeds, if any, received by District, its directors, officials, officers, employees, agents or volunteers.
- 3.5.7 Entire Agreement. This Agreement contains the entire Agreement of the parties with respect to the subject matter hereof, and supersedes all prior negotiations, understandings or agreements. This Agreement may only be modified by a writing signed by both parties.
- 3.5.8 Governing Law. This Agreement shall be governed by the laws of the State of California. Venue shall be in Sacramento County.
- 3.5.9 Time of Essence. Time is of the essence for each and every provision of this Agreement.
- 3.5.10 District's Right to Employ Other Consultants. District reserves right to employ other consultants in connection with this Project.
- 3.5.11 Successors and Assigns. This Agreement shall be binding on the successors and assigns of the parties.
- 3.5.12 Assignment or Transfer. Consultant shall not assign, hypothecate, or transfer, either directly or by operation of law, this Agreement or any interest herein without the prior written consent of District. Any attempt to do so shall be null and void, and any assignees,

hypothecates or transferees shall acquire no right or interest by reason of such attempted assignment, hypothecation or transfer.

- 3.5.13 Construction; References; Captions. Since the Parties or their agents have participated fully in the preparation of this Agreement, the language of this Agreement shall be construed simply, according to its fair meaning, and not strictly for or against any Party. Any term referencing time, days or period for performance shall be deemed calendar days and not work days. All references to Consultant include all personnel, employees, agents, and sub-consultants of Consultant, except as otherwise specified in this Agreement. All references to District include its elected officials, officers, employees, agents, and volunteers except as otherwise specified in this Agreement. The captions of the various articles and paragraphs are for convenience and ease of reference only, and do not define, limit, augment, or describe the scope, content, or intent of this Agreement.
- 3.5.14 Amendment; Modification. No supplement, modification, or amendment of this Agreement shall be binding unless executed in writing and signed by both Parties.
- 3.5.15 Waiver. No waiver of any default shall constitute a waiver of any other default or breach, whether of the same or other covenant or condition. No waiver, benefit, privilege, or service voluntarily given or performed by a Party shall give the other Party any contractual rights by custom, estoppel, or otherwise.
- 3.5.16 No Third Party Beneficiaries. There are no intended third party beneficiaries of any right or obligation assumed by the Parties.
- 3.5.17 Invalidity; Severability. If any portion of this Agreement is declared invalid, illegal, or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions shall continue in full force and effect.
- 3.5.18 Prohibited Interests. Consultant maintains and warrants that it has not employed nor retained any company or person, other than a bona fide employee working solely for Consultant, to solicit or secure this Agreement. Further, Consultant warrants that it has not paid nor has it agreed to pay any company or person, other than a bona fide employee working solely for Consultant, any fee, commission, percentage, brokerage fee, gift or other consideration contingent upon or resulting from the award or making of this Agreement. For breach or violation of this warranty, District shall have the right to rescind this Agreement without liability. For the term of this Agreement, no member, officer or employee of District, during the term of his or her service with District, shall have any direct interest in this Agreement, or obtain any present or anticipated material benefit arising therefrom.

- 3.5.19 Equal Opportunity Employment. Consultant represents that it is an equal opportunity employer and it shall not discriminate against any sub-consultant, employee or applicant for employment because of race, religion, color, national origin, handicap, ancestry, sex or age. Such non-discrimination shall include, but not be limited to, all activities related to initial employment, upgrading, demotion, transfer, recruitment or recruitment advertising, layoff or termination. Consultant shall also comply with all relevant provisions of any minority business enterprise program, affirmative action plan or other related programs or guidelines currently in effect or hereinafter enacted.
- 3.5.20 Labor Certification. By its signature hereunder, Consultant certifies that it is aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for Workers' Compensation or to undertake self- insurance in accordance with the provisions of that Code, and agrees to comply with such provisions before commencing the performance of the Services.
- 3.5.21 Authority to Enter Agreement. Consultant has all requisite power and authority to conduct its business and to execute, deliver, and perform the Agreement. Each Party warrants that the individuals who have signed this Agreement have the legal power, right, and authority to make this Agreement and bind each respective Party.
- 3.5.22 Counterparts. This Agreement may be signed in counterparts, each of which shall constitute an original.

3.6 Subcontracting.

- 3.6.1 Prior Approval Required. Consultant shall not subcontract any portion of the work required by this Agreement, except as expressly stated herein, without prior written approval of District. Subcontracts, if any, shall contain a provision making them subject to all provisions stipulated in this Agreement.

[Signature page follows]

Florin Resource Conservation District

Kennedy/Jenks Consultants

By: _____

Mark J. Madison, P.E.
General Manager

By:  _____

Alex Peterson, P.E.
Principal-In-Charge

Attest:

By: _____

Stefani Philips
District Clerk

Approved as to Form:

By:  _____

Best Best & Krieger LLP
Attorney for Florin Resource Conservation District

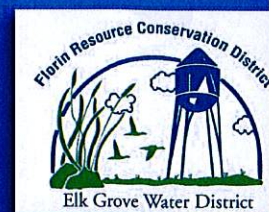
The Consultant has provided a proposal which combines the scope of services, schedule of services and compensation into one document. Therefore, references to Exhibit A, Exhibit B and Exhibit C in the contract shall refer to the Consultant's proposal entitled Preparation of an Asset Management Plan dated June 24, 2014 (attached).

EXHIBIT "A"
SCOPE OF SERVICES

EXHIBIT "B"
SCHEDULE OF SERVICES

EXHIBIT "C"
COMPENSATION

*Proposal for the
Preparation of an Asset Management Plan*



June 24, 2014

Kennedy/Jenks Consultants

Kennedy/Jenks Consultants

Engineers & Scientists

10850 Gold Center Dr. Ste. 350
Rancho Cordova, CA 95670
Phone: 916.858.2700
Fax: 916.858.2754

June 24, 2014

Mark Madison, P.E.
General Manager
Florin Resource Conservation District/Elk Grove Water District
9257 Elk Grove Blvd.
Elk Grove, CA 95624

Subject: Proposal for Preparation of an Asset Management Plan

Dear Mr. Madison:

The Elk Grove Water District (EGWD) seeks to develop its first Asset Management Plan (AMP). The Kennedy/Jenks team is well-qualified and able to effectively assist the District in the planning and implementation of this important effort. Our team, led by Tom Keown as Project Manager, with Randy Weaver and Doug Stewart as Asset Management Strategy Leaders, are experienced at developing specific Asset AM business practices that exceed expectations.

The Kennedy/Jenks team will strengthen the District's asset management program and foster more efficient financial and physical resource investments systems by providing EGWD with a set of processes for implementing asset management concepts and a structured method for EGWD's water infrastructure. Other benefits our team provides include:

- A strong understanding of the District's goals and objectives. Tom, Doug and Randy are leaders in current AM business practices and know the direction EGWD desires to go with development of the Asset Management Plan (AMP). They also know effective and efficient ways to build on EGWD's existing asset inventory and GIS records that will reduce cost and accelerate your focus on the asset's level of service.
- A personal understanding of your working environment and the challenges you face in implementing AM practices and principles. Tom, Doug, and Randy are all former utility managers and have personal experience in AM implementation as the client. They understand your perspective and the challenges you face with this project and will serve as your advisors and advocates to make the process as smooth as possible. Since Tom, Doug, and Randy have "been in your shoes," they offer the best support to District staff with their proven approach to developing, training and implementing AMPs.
- Extensive, relevant AMP project experience. Our team is highly experienced in designing, constructing, operating, and maintaining your asset types on the public-sector side as well as in helping municipalities and special districts with infrastructure asset management on the consulting side. We have successfully completed dozens of practical AM program implementations and understand both the "technical" side (process and information technology) as well as the "people" side of successful project delivery (changes to business practices and organizational culture, training staff, and gaining buy-in).

Mark Madison, P.E.
Florin Resource Conservation District/Elk Grove Water
District
Page 2

Kennedy/Jenks Consultants

We have benefited from our meetings and conversations with the District and have a strong understanding of the goals the EGWD seeks to accomplish. This includes development of a well inventory and condition assessment program to guide the management of critical water supply assets. Kennedy/Jenks is confident that we can achieve these goals while providing superior service and keeping EGWD informed every step of the way. We are excited about this opportunity and the chance to continue working with EGWD. This type of work is what our key team members have built their careers around and we are eager to be a part of EGWD's stewardship in improving how it serves its customers and community.

Thank you for reviewing our proposal and considering our team for this project we are available to answer any questions you may have. This proposal is valid for ninety (90) days. Tom can be reached by phone at 253-835-6467 or by email at thomaskeown@kennedyjenks.com, and I can be reached at 916-858-2725 or at alexpeterson@kennedyjenks.com.

Very truly yours,
KENNEDY/JENKS CONSULTANTS



Alex R. Peterson, PE
Principal-In-Charge



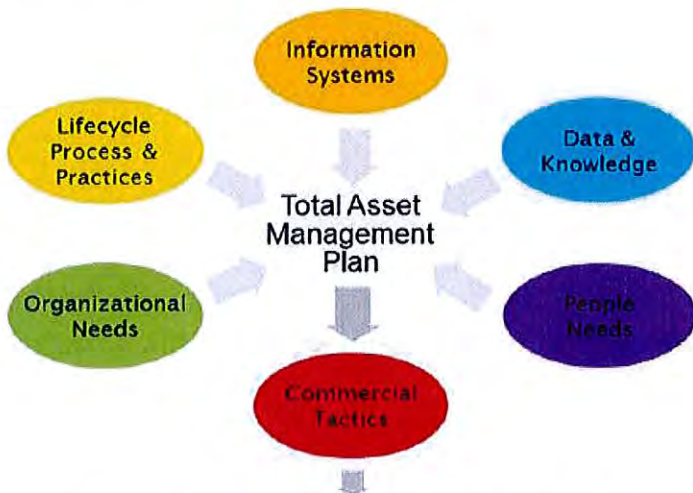
Tom Keown
Project Manager

Project Understanding

The Elk Grove Water District (EGWD) is currently strengthening its asset management program to foster more efficient financial and physical resource investments and to prolong the life of its water infrastructure systems. The desired outcome is intended to begin development of an Advanced Infrastructure Management (AIM) program. As a part of this improvement effort, EGWD desires to conduct a phased approach by initially assessing the risk of their system assets and the development of an initial Asset Management Plan (AMP) for their water system.

This effort will be conducted in collaboration with EGWD staff and will be based on EGWD's range of assets and data availability. This project will provide EGWD with a set of processes for implementing asset management concepts and a structured method that will be applicable to all EGWD infrastructure.

Kennedy/Jenks is well versed and experienced in the development of AMP's and for this effort proposes the use of the best practice model contained in the International Infrastructure Management Manual (IIMM). The IIMM is focused on achieving a balance between the seven quality elements of asset management. Based on our long-term use and our team members "hands-on" experience as former utility managers, we believe the tenets of the IIMM lead to successful asset management programs. The primary reason for our findings is that the IIMM is not merely focused on data and/or information systems, rather it recognizes and incorporates an organization's processes and practices and focuses on the people that manage the assets to achieve program success.



The IIMM is focused on achieving a balance between the seven quality elements of asset management as shown in the figure above.



Our approach follows the basic asset management ten-step process that is taught by the United States Environmental Protection Agency (EPA) as shown in the figure above.

With this optimization goal in mind, EGWD is gearing towards answering the following core questions of asset management:

- What is the current state of my assets?
- What is my required level of service?
- Which assets are critical to sustained performance?
- What are my best O&M and CIP investment strategies?
- What is the best long-term funding strategy?

Kennedy/Jenks concurs that implementing a system-wide asset management plan for the water system to demonstrate the benefits and level of effort is essential. Understanding the risk profile of the entire asset portfolio will help EGWD to prioritize resource utilization and budget in a consistent and transparent manner. Likewise, developing an AMP will help document EGWD's asset management efforts and provide a foundation for sound, long-term renewal planning.

The asset management plan provides a sense of accomplishment and, at the same time, will provide EGWD with a "living document" to be used on a regular basis to assess that the financial needs of its assets reach the end of their remaining useful life.

Finally, an AMP is a long-term commitment, requiring a constant improvement effort of review and enhancement. It is important for EGWD to produce an asset management plan to initiate the iterative process of review and enhancement of your program.

The asset management plan provides a sense of accomplishment and, at the same time, will provide EGWD a "living document" to be used on a regular basis to assess the financial needs of EGWD as its assets reach the end of their remaining useful life.

Project Approach & Scope of Work

Kennedy/Jenks proposes to help EGWD utilize its existing information to create an asset management tool that in turn will help develop the outputs to create EGWD's asset management plan.

Task 1: Project Management

Our goal is to communicate with you effectively, understand your requirements, and use the appropriate resources to perform the work and deliver timely, high-quality work products.

Kennedy/Jenks' project management principles are consistent with best practices in the A/E industry, including programs developed by the Project Management Institute. Clear identification of scope, schedule and budget, quality standards, levels of communication, and risk management are major elements of our internal project management training program. We invest heavily in training Project Managers to develop "high performance teams." Tom Keown has completed our firm's rigorous internal training and implemented its practices when working with project teams. Its cornerstones are:

Personal accountability. By living up to our commitments we will develop the trust needed in high-performance teams. Each work assignment will have its own set of commitments.

Direct conversations. Talking directly to people to clarify needs, wants, and concerns keeps teams focused on productive activities and promotes quick resolutions of issues before they become problems.

Task 1.1: Kick-Off Meeting

The kick-off meeting will introduce the project team members, review the schedule and scope of work, and identify information/data needed from EGWD for the project.

As part of this task, Kennedy/Jenks will perform a high-level field inspection of EGWD's facilities, but will also glean historical information from EGWD staff to help develop attributes in the asset register.

Task 2: Asset Management Model and Database Setup

Kennedy/Jenks will use Kennedy/Jenks' Infrastructure Asset Manager ('KJ-IAM'), an in-house developed tool, to store asset data, perform asset management calculations and generate output for reporting purposes. This is the same tool that will be provided to EGWD as a deliverable at the end of the project, and can then be used by EGWD staff for future updates to the AMP on an as needed basis.

Task 2: Asset Management Model and Database Setup

We propose using the Kennedy/Jenks Infrastructure Asset Management (KJ-IAM) tool to help provide EGWD with a robust, open-environment asset management system. KJ-IAM is non-proprietary and built on industry-standard components including Microsoft products for operating systems and databases, and ESRI products for GIS. EGWD will own their version of KJ-IAM, and no maintenance fees are charged by Kennedy/Jenks.

Task 2.1: Asset Database Configuration

Kennedy/Jenks will configure an asset database and populate it according to the asset hierarchy specified by EGWD in the RFP, and if needed, refined by Kennedy/Jenks in Task 3.1 of this proposal. The database will be stored in Microsoft SQL Server Express which is the database platform used by KJ-IAM. Upon configuration, the asset hierarchy and basic attribute data will be loaded from data files provided by EGWD including GIS files, CMMS files from CityWorks and Excel files that contain the hierarchy structure.

Kennedy/Jenks assumes that EGWD will provide the following items to Kennedy/Jenks related to this Task 2.1:

1. GIS files containing relevant assets, as well as any base maps that EGWD keeps in its GIS databases.
2. Maintenance management information stored in EGWD's CityWorks database.

Task 2.2: Configuration of KJ-IAM

KJ-IAM is an integrated, non-proprietary web based asset management tool that has both been used in-house by Kennedy/Jenks for preparing AMPs, as well as delivered as an installed standalone application for many of Kennedy/Jenks' water and sewer utility clients. KJ-IAM's basic platform includes a Geographic Information System (GIS), basic database tables and queries, a document management tool and basic menu and security functions. For the purpose of this current effort, Kennedy/Jenks proposes to use KJ-IAM's Asset Management Module that contains functionality as specified by EGWD in the RFP.

In short, KJ-IAM will allow users to perform the following tasks:

- Browse the asset inventory database through interactive maps, tables and hierarchical tree. Perform simple pre-configured and ad-hoc database queries.
- Manage asset lifecycle parameters including installation year, condition rating, replacement costs, rehabilitation cycles, risk parameters and management strategies.
- Run a 100-year funding needs assessment model based on the input management strategies noted in Task 3.
- Report the results of the model in various tables and graphs, as included in the AMP (See Task 3).

Configuration of KJ-IAM involves the deployment of basic web scripting templates, and connecting those scripts to the asset database, CMMS and GIS files prepared in Task 2.1. Once the templates are in place, Kennedy/Jenks will customize the contents, design and functionality of KJ-IAM to the needs of the current effort related to the AMP. The interface of KJ-IAM will then be accessible to authorized users through Microsoft Internet Explorer v9 or higher. During development, KJ-IAM will run on a Kennedy/Jenks server. At the end of the project, the entire setup will be moved to a EGWD server (Task 2.4).

Task 2.3: Loading of Asset Management Parameters

Asset management parameters such as costs and valuations, condition assessment information, remaining useful life, business risk exposure, management strategies and other types of data collected and calculated in Task 3 of this proposal will be loaded into KJ-IAM as they become available. In fact, it is likely that some of these calculations and calibrations will be performed in KJ-IAM, as well as the running of various model scenarios. KJ-IAM will then also be used to generate the output required for completing the AMP in Task 3.

Task 2.4: Installation and Training

Upon completion of configuration, data loading and the final version of the AMP, Kennedy/Jenks will deploy KJ-IAM in EGWD's network. Since KJ-IAM is integrated with various databases and components, it cannot simply be delivered on CD-ROM, but must be installed and configured on a web server.

In order for KJ-IAM to be installed inside of EGWD's network, the following prerequisites must be in place, which are not included in the budget estimate of this proposal, but are expected to be provided by EGWD:

- A designated web server that runs Windows Server 2008 or later.
- Installed components for GIS (ESRI's ArcGIS for Server 10.1 or later) and graphing functionality (ChartFX). Kennedy/Jenks can assist EGWD with procurement and installation of these components.

When KJ-IAM successfully runs inside of EGWD's network, Kennedy/Jenks will train designated EGWD staff during a one day training session. Kennedy/Jenks assumes and recommends that the designated staff is at a minimum capable of operating ESRI's ArcGIS for Desktop and well-versed in administering relational databases.

Kennedy/Jenks assumes that EGWD will provide the following items to Kennedy/Jenks related to this Task 2.4:

1. Hardware and software components required for installation of KJ-IAM.
2. IT support for assistance with networking issues, hardware configuration, access permissions and general as needed troubleshooting.
3. A EGWD-designated administrator for KJ-IAM who possesses advanced skills in GIS and relational database management. Alternatively, Kennedy/Jenks could provide optional additional services to maintain KJ-IAM on an as needed basis.

Task 3: Asset Management Plan Development

An AMP is a long-range planning document that also provides a framework for understanding of the owned assets, expected services, exposed risks, and required investments.

The contents of an asset management plan are built around the USEPA five core questions of asset management. Kennedy/Jenks will work with EGWD to customize the table of contents to best suit EGWD's needs.

Developing the first asset management plan will take effort and commitment from both EGWD and Kennedy/Jenks. EGWD will need to provide information and help with drafting main portions (e.g., introduction, future demand) of the asset management plan. Kennedy/Jenks will develop, calculate, and document the asset consumption, historical asset development trend, and long-range renewal forecasting required for the AMP.

Task 3.1: Asset Hierarchy and Asset Register

An asset hierarchy and data standards will be built for the water system covering all major asset types. An asset hierarchy is a structured listing of the asset portfolio, useful for storing and managing asset information. The completed hierarchy will consist of a level of detail needed to make reasonable AM decisions at managed maintenance item level. For each asset type, a listing of data needed to manage the assets will be compiled and built into a database anchored by the asset hierarchy. As noted, KJ-IAM will be populated with asset information obtained from EGWD, either through data extracts (i.e., from CityWorks, FIS, CIS, GIS, etc.) or conversations with EGWD staff.

Kennedy/Jenks will work with EGWD staff to develop an asset hierarchy and appropriate data standards to support asset decision-making and information storage, such as EGWD's GIS, FIS, and CIS records asset data. To accomplish this, we will:

- Review EGWD's current asset register for consolidation, completeness, hierarchy, naming and numbering convention, and asset attributes. Gaps in data required to support AM decision-making will be identified and a mitigation plan will be discussed.
- Review and make recommendations on asset definitions, naming/numbering conventions, and asset classifications/groupings.
- Compile and integrate the discussions and findings to develop an asset hierarchy for EGWD's asset register. The hierarchy will be developed with a structured relationship to allow consistent roll-up/roll-down of data, enabling EGWD to easily locate an asset and obtain information to support AM decisions.
- Facilitate processes for populating important attribute data gaps. Some of these may be populated by surveys and/or telephone conversations to discover and capture organic/institutional knowledge residing with EGWD staff. We will work with EGWD staff to obtain information that is missing, inaccurate, or incomplete.

Task 3.2: Asset Valuation

Asset valuations are an integral part of asset management. The valuation process provides asset managers with the necessary asset knowledge to make sound managerial decisions and to meet regulatory compliance. It assists in the determination of future budgets and the allocation of costs, and it provides measurement for performance and expenditures.

Kennedy/Jenks will assign replacement costs for all assets in the asset register for the recycled water system. This will be completed through reliance on EGWD's asset valuation data, knowledge of EGWD's staff and Kennedy/Jenks's asset valuation database. General cost tables or curves will be provided for major asset classes and will be used to assign replacement costs. Where appropriate, Kennedy/Jenks will recommend the use of unit pricing for certain assets (e.g., wells, reservoirs, hydrants, etc). Unit pricing will be used to represent the replacement cost for all assets belonging to the relevant asset class. Kennedy/Jenks will align asset valuation work against EGWD's asset hierarchy to help EGWD determine the overall value of its system.

Task 3.3: Business Risk Assessment

Business Risk Assessment (BRA) is a measure used to estimate an asset's risk to an organization. Kennedy/Jenks will work with EGWD's asset data and key members of the staff to help assess the BRA for each asset. Using the USEPA BRA methodology and tools (e.g., risk scoring criterion), Kennedy/Jenks will work with EGWD to customize risk scoring criteria to meet EGWD's needs.

Using a combination of risk rating scales and the knowledge of key EGWD staff, Kennedy/Jenks will calculate the probability of failure and consequence of failure scores for all major system assets. Probability of failure and consequence of failure scores will be combined to calculate each asset's overall BRA score and, where available, redundancy will be used to offset the BRA score. The BRA scores will be ranked and sorted to develop a list of assets posing an unacceptable level of risk to EGWD, from highest risk to lowest risk.



An output similar to this figure will be developed to map the BRA scores of EGWD's assets.

Task 3.4: Replacement Costs

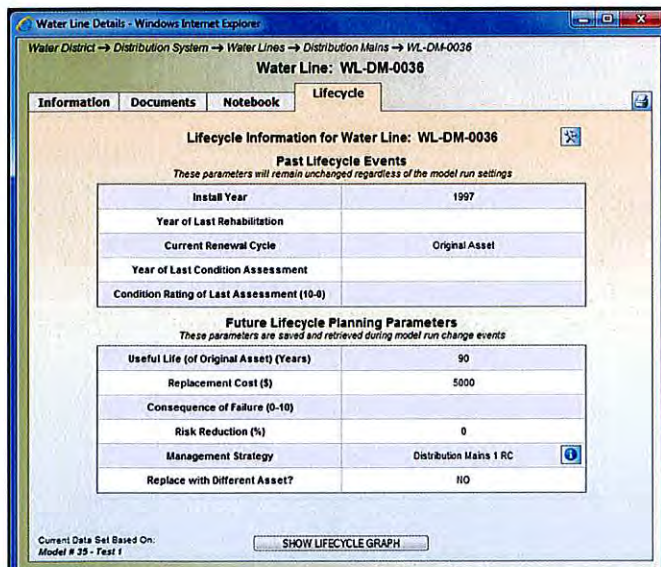
Kennedy/Jenks proposes to include asset valuation in the scope of work. Asset valuation will play a critical part for EGWD's evaluation of existing system components and the development of future Capital Improvement Programs.

The outputs of this task will allow EGWD to gain an understanding of the replacement costs, determine the future asset investment projection, and assist with developing the AMP.

EGWD's developed asset hierarchy will support asset valuation by identifying assets at various levels. We will determine replacement costs based on current year dollars and note the current ENR index to assist with developing future replacement costs. For each level of the hierarchy, Kennedy/Jenks will estimate the valuation so EGWD will be able to identify future replacement costs.

Task 3.5: Develop Management Strategies

This task is focused on the development of management strategies for each water asset type or individual asset, where the individual asset may perform differently from the normal asset population. Kennedy/Jenks will document EGWD’s current and optimized management strategy for each asset type in a workshop setting with staff. The management strategy will include the typical decay curve, rehabilitation and replacement cost, O&M costs, and triggers for asset intervention, based on age, lowest acceptable condition score, highest tolerable risk score, and maximum life cycle cost for each asset or asset type. The management strategies will be populated in the asset database linked to the asset identification number.



Kennedy/Jenks is able to define the results of a short-term and long-term capital replacement program.

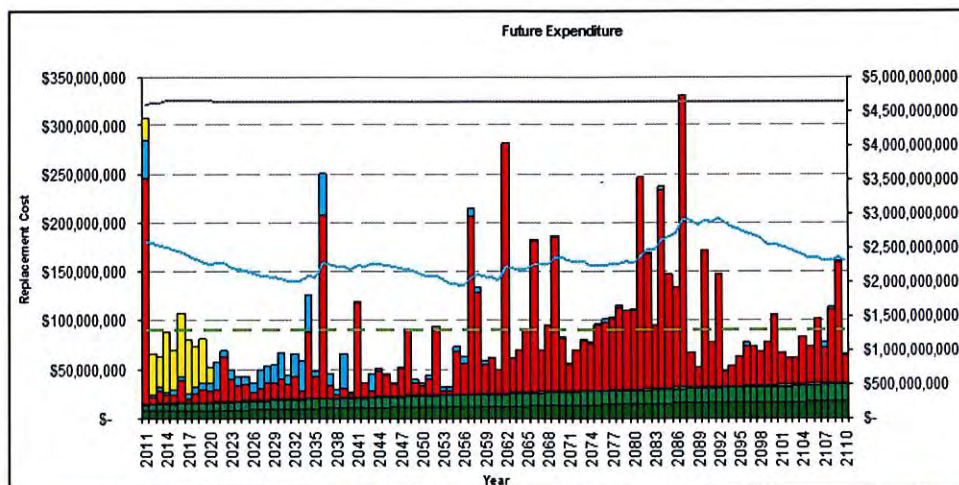
Task 3.6: Long-Range Renewal Planning

A key outcome of an AMP is to help EGWD move away from reactive maintenance and renewal activities and move toward a proactive method of managing assets. The main part of being proactive is to understand the work and budget required. Once the future workload is known and understood, we recommend the Capital Improvement Plan (CIP) work be planned and prioritized based on the outputs of the Business Risk Assessment results in Task 2.3 in a way that delivers the desired levels of service at the lowest lifecycle cost. This aims to help EGWD make the right decisions, for the right reasons, at the right time, for the right cost.

As part of this proactive planning effort, Kennedy/Jenks will develop a long-range renewal forecast for EGWD. The long-range renewal forecasting effort will be completed using KJ-IAM’s Asset Management Module. The forecasting horizon can be up to 100 years (i.e. in order to model the longest lived assets), but we can use a 20 or 50-year forecast if that is what EGWD desires.

Task 3.7: Asset Management Plan

Using the outcomes from the tasks above, EGWD’s AMP will be drafted. EGWD will be requested to assist in development of certain sections (i.e., introduction, future demand) where EGWD staff will have better knowledge. Once drafted, the draft Asset Management Plan and KJ-IAM will be submitted to EGWD for review. EGWD comments and feedback will be incorporated into the final version of the document before it is finalized and delivered to EGWD. Finally, the preliminary findings will be presented to EGWD staff and/or the Board while the final AMP will be presented to the Board in coordination with EGWD management.



This graphic shows an example of AM Outputs that were used to effectively develop long-term funding needs assessment.

Personnel

Each of our key team members for AM are former water/wastewater utility managers who have furthered their careers to become highly successful AM consultants.

Tom Keown is a former Engineering and Operations Manager at Highline Water District and brings 13 years of AM experience gained in both the public utility management and business consulting realms. Doug Stewart is a former Engineering Manager at Orange County Sanitation District and has been an AM instructor for the EPA for 20 years. Randy Weaver is a former Asset Manager for the City of San Diego's Wastewater Utility with more than 12 years of AM experience. Each of these individuals has successfully implemented large-scale, holistic AM programs since leaving their former positions as public agency infrastructure managers.

Tom Keown will be the lead the Asset Management Plan as Project Manager. Tom has over 17 years of experience in civil engineering design, with expertise in potable and sanitary engineering, hydraulic modeling, and asset management. He brings several years of AM experience gained in both public utility management and business consulting that has helped utilities like EGWD leverage the benefits of asset management. Tom was responsible for the day-to-day engineering and operations functions for the Highline Water District in Kent, Washington, the tenth largest water utility in the state. Tom's responsibilities covered all aspects of business practices related to asset management from capital expenditures to operations and maintenance. He implemented the District's first Asset Management Plan to more effectively operate and maintain physical assets, prioritize design efforts and reduce costs.

Tom will be supported by Jeroen Preiss, who has extensive GIS and CMMS implementation project experience. Jeroen will be the Data Modeling Lead for this project, and he will effectively model financial impacts by analyzing management strategies and overall cost. Jeroen is a Senior Project Manager and Web-based GIS Developer of Kennedy/Jenks' Infrastructure Asset Information Manager software (KJ-IAM). Jeroen is an expert in efficiently automating complex work processes by using GIS, CAD and database applications.

As Asset Management Strategy Leaders, Doug Stewart and Randy Weaver will provide senior level consulting for the proposed evaluations. Doug and Randy each have provided step-by-step guidance in AM practices to municipalities, government agencies and private industries for over 10 years. Doug is a nationally-recognized expert in Asset Management. Doug served as the U.S. EPA's Instructor in asset management and has conducted dozens of workshops across the country.

In addition, Alex Peterson will take an active role as Principal-In-Charge, working to support the Project Manager and add extra benefit by taking on the QA/QC role and providing oversight on the project and its mission. Alex was the Principal-In-Charge for Carmichael Water District's Water Distribution System Web-interface Design and Implementation, and was able to provide effective management of planning, budgeting, and maintenance of System assets.

Detailed resumes for each project team member are included in the Appendix.

Team Organization Chart



“Tom was the project manager for our Asset Management Implementation Program at the City. He had a good sense of how to push us to change our habits, but without breaking the spirit of my staff. I would gladly recommend Tom to any utility who is looking to improve their business practices to bring out the best in their staff.”

Gil Borboa, City of Santa Monica, CA

Relevant Experience

The following projects are representative of similar work. In addition, we have provided a list of five project references.



Asset Management System, Water/Wastewater Utilities, Carmichael Water District, California

The Carmichael Water District needed a way to track improvements and measure the distribution system's condition and value. GASB 34 required upgrade of asset accounting methods from hard-copy maps and documents. Kennedy/Jenks provided a custom implementation of our Infrastructure Asset Management system (KJ-IAM), a flexible adaptation of a computerized maintenance management system (CMMS). KJ-IAM gives District staff secure Web browser access to maps, information, and analysis tools. These increase accuracy and responsiveness in customer service calls, maintenance planning, resource forecasting, and compliance reporting. The concurrent tracking of asset condition, value, and maintenance essentially yields an up-to-date master plan.

The District's asset inventory GIS now resides in AutoCAD Map 3D format; through a unique, automated process, the AutoCAD files are synchronized into ESRI's ArcGIS GeoDatabase format. The database holds information on asset type, diameter, material type, and installation year. Keeping asset inventory in both CAD and GIS enables easy data sharing with contractors and harnesses the best functionality of both platforms. Alex Peterson and Jeroen Preiss were instrumental in the development and completion of this work.



Asset Management Program Implementation, Highline Water District, Kent, Washington

From 2000 to 2008, Tom Keown was responsible for the day-to-day engineering and operations functions for HWD; the 10th largest water utility in the State of Washington. Tom's responsibilities at HWD covered all aspects of HWD's business practices related to asset management from capital expenditures to operations and maintenance. Tom implemented HWD's first-ever Asset Management Plan, enabling HWD to more effectively operate and maintain HWD's physical assets, prioritize design efforts, and reduce life cycle costs. Doug Stewart, while with another firm, was the Project Director for the project where he was responsible for the overall quality of the workshops and deliverables provided to the District. Tom Keown and Doug Stewart were key members of the project team.



AM Program Development for Water Utility, Albuquerque Bernalillo County Water Authority, Albuquerque, New Mexico

Kennedy/Jenks collaborated with the Albuquerque Bernalillo County Water Authority staff to implement organization-wide asset management framework, including an information system functionality review, constructing hierarchy of assets, data attributes for assets, setting Levels of Service, risk assessments, and a complete AM Infrastructure Plan. Team members Doug Stewart and Randy Weaver did extensive work for this project.

Project benefits include:

- AM Plan development for water (and/or) wastewater utility
- Provided AM training
- Developed asset register
- Identified failure modes
- Determined residual lives and replacement costs
- Documented levels of service using TBL
- Performed risk assessment
- Developed management strategies
- Developed long-range funding strategy
- Benchmarked AM practices



AM Program Development for Water and Wastewater Utilities, Austin Water Utilities, City of Austin, Texas

Doug Stewart completed an asset management project for the water/wastewater utility in Austin, Texas consisting of developing an improvement program for the utility (gap analysis against a best practice model) and developing two Asset Management Plans for the Utility's linear water and wastewater assets. The project recognized the need to train AWU staff in implementing AM practices and included multiple training sessions on the AM practices for AWU staff while the consultant provided data analysis and the methodologies to produce two AMPs.

Project benefits include:

- AM Plan development for water (and/or) wastewater utility
- Provided AM training
- Developed asset register
- Identified failure modes
- Determined residual lives and replacement costs
- Documented levels of service using TBL
- Performed risk assessment
- Developed management strategies
- Developed long-range funding strategy
- Benchmarked AM practices



AM Program Development, City of Santa Monica, California

Tom Keown, Doug Stewart and Randy Weaver worked collaboratively with the City of Santa Monica to coach and train their Water Resources Division staff in implementing the EPA's ten-step asset management program. The final outcome was a completed Asset Management Plan, including a validated 10 year CIP program. The project included building an asset hierarchy, setting levels of service, risk assessments, developing management strategies for the assets, and modeling the future funding needs for the linear water and wastewater system. Work was also done to establish a formal AM organization within the water division; including developing an AM charter, establishing an AM Steering Committee, and defining

roles and responsibilities for new staff positions. Multiple presentations were made to City management and elected officials to inform and sell the program during development.

We performed the following benefits for the City of Santa Monica:

- AM Plan development for water (and/or) wastewater utility
- Provided AM training
- Developed asset register
- Identified failure modes
- Determined residual lives and replacement costs
- Documented levels of service using TBL
- Performed risk assessment
- CIP validation / Business case evaluations
- Developed management strategies
- Developed long-range funding strategy
- Data and Business Process Mapping

Summary of Asset Management Experience

Project, Client	Assessment (Gap Analysis)	Asset Management Charter	Asset Management Plan	Maintenance Strategies	Data Framework	Asset Register	Business Risk Exposure	CIP Validation	Asset Valuation	Level of Service	Condition Assessment	Master Plan	Inventory Management	AM Information Systems Strategy
Asset Management Plan, Santa Clara Valley Water District, CA	✓	✓				✓	✓			✓		✓		
Proof of Concept AM Pilot, Los Angeles County Sanitation Districts, CA			✓	✓	✓	✓	✓		✓	✓	✓			
Asset Management Plan, Austin Water Utility, TX	✓		✓	✓	✓	✓	✓		✓		✓			
Asset Management Plan, City of Santa Monica, CA	✓	✓	✓	✓	✓	✓	✓	✓		✓				✓
Asset Management Plan, Johnson County Wastewater, KS	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓			
Utility Master Plan, Wash. Suburban Sanitary Commission, DC		✓	✓	✓	✓		✓			✓	✓	✓		
Asset Management Services, City of San Diego, CA	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Strategic Asset Management Plans, Orange County Sanitation District, CA	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
Asset Management Services, Albuquerque Water Utility Authority, NM	✓		✓	✓	✓	✓	✓	✓		✓				✓
Asset Management Services, City of Livermore, CA	✓		✓	✓	✓	✓		✓					✓	
Asset Management Framework, City of Henderson, NV	✓	✓		✓	✓	✓	✓		✓		✓		✓	
Asset Management Plan, Highline Water District, WA			✓					✓		✓				
Asset Management Program, City of Corvallis, OR	✓				✓	✓	✓		✓	✓				
Asset Management Framework, Region of York, Ontario, Canada	✓	✓		✓	✓	✓	✓		✓		✓			
Organizational Assessment, Dublin San Ramon Services District, CA	✓													
Business Risk Exposure, West Valley Sanitation District, CA							✓							

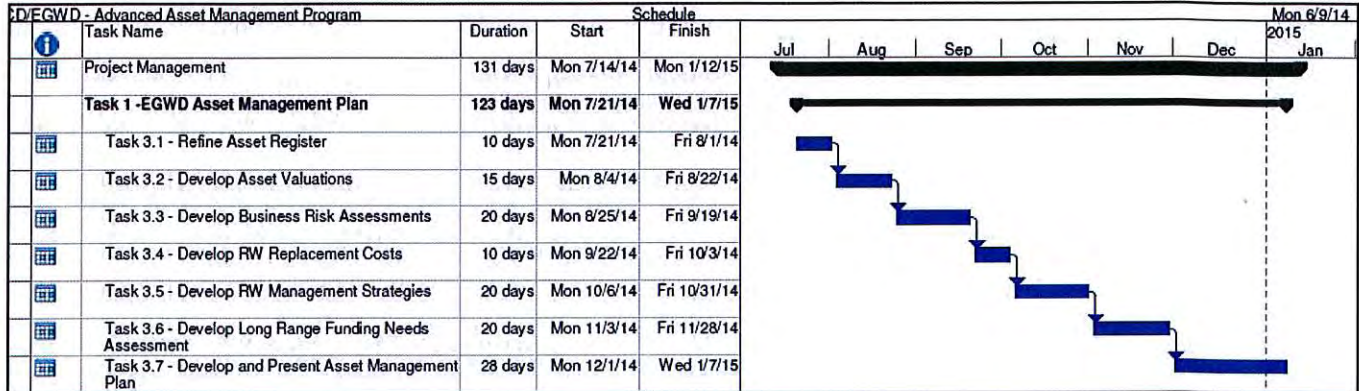
References

The references below represent our recent project execution:

Client	Contact	Services Provided
City of Santa Barbara	Todd Heldoorn Wastewater Treatment Superintendent (805) 568-1003 THeldoorn@SantaBarbaraCA.gov	Randy Weaver provided Asset Management Support Services for El Estero Wastewater Treatment Plant consisting of: Annual update of the AMS; CMMS Application and Database Maintenance Support; Inventory Management Activities Support; AMS Business Processes and Work Practices Optimization; and AMS Training and Development of Related Documentation.
Santa Clarita Water District	Mauricio Guardado Jr. Retail Manager (661) 259-2737 mguardado@scwater.org	Tom Keown and Doug Stewart developed an Asset Management Implementation Plan to improve infrastructure asset management process and practice of its infrastructure assets, information systems, data and knowledge business practices, and business organization.
City of Santa Monica	Gil Borboa, Jr., PE Water Resources Manager (310) 458-4967 gil.borboa@smgov.net	Tom Keown, Doug Stewart and Randy Weaver assisted with project work that includes financial and management consulting including, facilitating a workshop approach that incorporated both internal (City Departmental) and external stakeholder engagement to foster understanding, support and implementation needs. Met current and projected regulatory requirements, and conformed with the City's broad sustainability goals and objectives. Evaluated water supply alternatives and assessed new and expanded demand management measures.
South Tahoe Public Utility District	Paul Sciuto Assistant General Manager (530) 543-6202 PSciuto@stpud.dst.ca.us	Tom Keown helped the South Tahoe Public Utility District (District), located in South Lake Tahoe, CA, recognize the importance and benefit to tying LOS directly to budget requirements. As part of this effort, existing District source documents were evaluated and contrasted with other water industry benchmarks to develop the initial LOS statement worksheets. The statements were further segregated into Capital and Operations and Maintenance (O&M) related activities and related costs.
North of River Sanitary District	LaRue Griffin General Manager (661) 399-6411 lgriffin@norsd.com	Jeroen Preiss installed and customized the Kennedy/Jenks' Infrastructure Asset Manager application which serves as the District's enterprise data system. It integrates GIS for collection system assets and facilities, CMMS for work orders and scheduling of maintenance activities, CCTV inspection software for condition assessments, and a comprehensive sewer service permitting database, and shortly a hydraulic model for highlighting of future capacity issues. The District is currently in the third year of a multi-year phased implementation path that will ultimately result in an asset management plan fueled by KJ-IAM.

Schedule

We believe the bulk of the work will be completed by December 2014. However, based on past experience, it is usually best to finalize documents and make presentations after the holidays. Our schedule allows for an "initial findings" presentation to the Board in late November/early December. We will then work with staff to finalize the AMP and present the final findings by mid-January 2015.



Staff Hour Allocation:

The following is the estimated staff-hour allocation:

Revised based on negotiation. Refer to "Work Breakdown Structure and Cost Summary," date of revision 7-10-14, attached as the last page of this agreement.

Classification:	Alex Peterson	Thomas Keown	Doug Stewart	Randy Weaver	Jeroen Preiss	Admin. Assist.	Total Hours
Task 1 - Project Management							
Quality Control Reviews	2	2	2	2		2	10
Kick-off Meeting		4		4			8
Condition Assessment Inspection & Interviews		8		8			16
Project Management		8				10	18
Subtotal	2	22	2	14	0	12	52
Task 2 - Asset Management Model and Database Setup							
Task 2.1 - Asset Database Configuration					40		40
Task 2.2 - Configuration of KJ-IAM					60		60
Task 2.3 - Loading of Asset Management Parameters				4	40		44
Task 2.4 - Installation and Training					20		20
Subtotal	0	0	0	4	160	0	164
Task 3 - Asset Management Plan							
Task 3.1 - Refine Asset Register							
Review Data Standards and update KJ-IAM		2		8	2		12
Task 3.1 - Subtotal	0	2	0	8	2	0	12
Task 3.2 - Develop Asset Valuation							
Document Findings and Update KJ-IAM		2		8			10
Task 3.2 - Subtotal	0	2	0	8	0	0	10
Task 3.3 - Develop Business Risk Assessments							
Document Findings and Update KJ-IAM		2		8	2		12
Task 3.3 - Subtotal	0	2	0	8	2	0	12
Task 3.4 - Develop Current Replacement Costs							
Document Findings and Update KJ-IAM		2		8	2		12
Task 3.4 - Subtotal	0	2	0	8	2	0	12
Task 3.5 - Develop Management Strategies							
Document Findings and Update KJ-IAM		2	4	16	4		26
Task 3.5 - Subtotal	0	2	4	16	4	0	\$26
Task 3.6 - Develop Long Range Funding Needs Assessment							
Document Findings and Update KJ-IAM		2		10	2		14
Task 3.6 - Subtotal	0	2	0	10	2	0	\$14
Task 3.7 - Develop Asset Management Plan							
Develop Draft AM Plan	1	2	4	16	4	2	29
Present Draft AM Plan to Staff (teleconf)		2		8			10
Finalize AM Plan				4		2	6
Present AM Plan Findings to Board (twice)		4		8			12
Task 3.7 - Subtotal	1	8	4	36	4	4	57
Grand Total	3	42	10	112	176	16	359

Appendix A: Team Resumes

Proposal to Provide Preparation of an Asset Management Plan



Kennedy/Jenks Consultants



Alex Peterson, PE

Principal-In-Charge

Alex is a registered civil engineer with 29 years of experience as an engineering consultant. He has extensive expertise in planning, design, bidding, and construction of water resources related infrastructure related projects. Alex has provided consulting services ranging from small system improvements replacing exhausted infrastructure to regional projects involving multiple users, consensus building, and complex siting conditions.

Project experience involves working with military, campus, state, local, and municipal clients; each with their own set of expectations and project requirements. Alex has acted as principal-in-charge, project manager, project engineer, team leader, and staff engineer depending on the demands of the project team. He provides leadership through his capacity as staff mentor and coach, quality control reviewer and manager.

Education BS, Civil Engineering, California State University, Sacramento, 1985

Registrations Professional Civil Engineer, California
Professional Civil Engineer, Oregon
Professional Civil Engineer, Nevada

Memberships Association of California Water Agencies
Sacramento Area Water Works Association

Project Experience

Water Distribution System Web-interface Design and Implementation, Carmichael Water District, Carmichael, CA - Principal-In-Charge - Project Manager and Lead GIS Web Programmer responsible for design and creation of a Web interface to the District's Water Distribution System maps for effective management of planning, budgeting, and maintenance of System assets. District staff are able to perform forecasting on water main replacement activities, as well as enhance day to day workflows such as valve closure tracking and water main isolation modeling.

Water Master Plan, Carmichael Water District, Carmichael, CA - Project Manager - Provided preparation of a comprehensive District Master Plan that reviewed infrastructure replacement, strategic water issues, operations and maintenance practices, and the cost of sustaining the District resources through the next 100 years. The final element of the Master Plan was the preparation of a financial business plan describing alternatives for funding projects through pay-as-you go rates, certificates of participation for major projects, or a combined financial approach.

Water Master Plan, City of Manteca, Manteca, CA - Project Manager - Prepared the water system Master Plan describing water supply requirements, safe yield estimates, and the planned South San Joaquin County Water District Surface Water Supply project. In addition, the Master Plan addressed the need for up to ten arsenic treatment systems to be installed at City wells resulting from the recent changes in Drinking Water Standards. Part of the treatment capital improvement plan included an evaluation of destruction of wells versus surface water development based on cost of facilities.

New Well Facilities & Improvements, City of Manteca, Manteca, CA - Project Manager / Project Engineer - Assisted the City of Manteca in the improvement of their supply capacity as they responded to rapid growth pressures. Work included all phases from water system modeling to predict system impacts, through well drilling design, pumping plant design, and bidding and construction phase services.

Interim Well Field Treatment Investigation, City of Lathrop, Lathrop, CA - Project Engineer - Responsible for the evaluation of groundwater quality information and development of treatment alternatives for the removal of manganese and arsenic from new water supplies being developed south of the City. The recommendations included aquifer zone isolation to reduce nitrate and gross alpha radioactivity issues as well as three primary treatment approaches. Effort included meeting with a consortium of project proponents and support of project funding efforts with cost estimates, cash flow projections and alternative schedules corresponding to possible development scenarios.

Surface/Ground Water Blending Study, City of Lathrop, Lathrop, CA - Project Engineer - Evaluation of surface and groundwater blending alternatives as a treatment approach to the reduction of manganese and

Alex Peterson, PE (cont'd.)

Principal-In-Charge

arsenic in groundwater supplies generated by the interim well field (Well 21,22, & 23) projects. Work included development of process alternatives, conceptual site plans and process diagrams, and preparation of cost estimates. Results indicated that no surplus surface capacity for blending of groundwater supplies for arsenic compliance existed. This determination was based on the assumption that all existing City wells would use blending as the treatment approach before proceeding to a removal type process.

Well No. 21 Groundwater Treatment Plant, City of Lathrop, Lathrop, CA - Project Engineer - Evaluation of surface and groundwater blending alternatives as a treatment approach to the reduction of manganese and arsenic in groundwater supplies generated by the interim well field (Well 21,22, & 23) projects. Work included development of process alternatives, conceptual site plans and process diagrams, and preparation of cost estimates. Results indicated that no surplus surface capacity for blending of groundwater supplies for arsenic compliance existed. This determination was based on the assumption that all existing City wells would use blending as the treatment approach before proceeding to a removal type process.

Water Rate Study, City of Manteca, Manteca, CA - Project Manager - Preparation of a 5-year water rate study taking into account planned capital improvements exceeding \$10 million, and the required funding for a \$47 million regional surface water project. Considerations included the cost of water, treatment, distribution, operation, and maintenance for determining the commodity cost of water. The second significant consideration was the proportionate share of the capital projects and the \$47 million debt acquisition to be assigned to the existing water customer versus new development.

Well No. 14 Arsenic and Manganese Treatment Pilot Testing, City of Manteca, Manteca, CA - Project Manager / Project Engineer - Development of treatment alternatives to address elevated manganese and arsenic levels in an existing well. The work included installation of pilot scale treatment facilities testing a coagulation assisted oxidation filtration process using chlorine, ferric hydroxide, and an anthracite/greensand pressure filter system. The results of the pilot testing were reviewed with the local Department of Health Services with favorable feedback, pending the final arsenic MCL determination made by the State in 2004. This work included design review support of an in-house design project to implement the recommendations.

Disinfection Byproducts Rule Standard Monitoring Plan, Carmichael Water District, Carmichael, CA - Project Manager / Project Engineer - Provided planning, system modeling, design, and construction administration services for Carmichael for over three years with on-going assignments throughout their system. Work included H2ONET modeling of their system to integrate the new membrane filter plant treating water from the American River, design and construction of pressure reducing stations, design of wellhead treatment, booster pump station, transmission piping, distribution piping, and re-coating repairs for a steel storage reservoir. Also provided master planning assistance, GIS mapping improvements, well abandonment, and other duties as requested to assist the District in meeting their Capital Improvement Plan objectives and to aid in the recovery from a deferred maintenance backlog of several years.

Yosemite Valley Sewer Collection System Capital Improvements Project, U.S. Department of Interior, National Park Service, Yosemite, CA - Project Manager - Sanitary sewer inspection of 18 miles of sewer piping in the Valley proper and 4.5 miles in El Portal. The challenges were to fast track the preparation of performance specifications to allow contracting of cleaning and inspection services before the summer rush of visitors to one of the nation's premier National Parks. The work involved three workshops with all Park stakeholders to establish existing conditions, inspection priorities, access limitations, environmental off-limits areas, and contracting requirements.

Water Supply Stabilization Program, Antelope Valley-East Kern Water Agency, AECOM Technology Corporation, Palmdale, CA - Project Director - Team Leader for siting and design of seven extraction wells for groundwater banking recovery of water recharged through spreading basins. Recovery wells provide direct potable use supply to the AVEK distribution system with blending for THM reduction.

Upper Feather River Integrated Regional Water Master Plan Phase 1 Planning, Plumas County Flood Control and Water Conservation District, Quincy, CA - Project Manager - Provided staffing resources and strategic direction for the completion of a successful 2012 Planning Grant application to complete an IRWMP Update meeting Proposition 84 technical requirements.

Tom Keown

Project Manager

Tom Keown is experienced in civil engineering design with expertise in potable and sanitary engineering, hydraulic modeling, and asset management. He has completed distribution/transmission pipeline, groundwater wells, reservoir retrofits and pump station designs from schematic design through final design and construction management. He has also been a project manager for water and sewer comprehensive plans and capital improvement plans.

From 2000 to 2008, Tom was responsible for the day-to-day engineering and operations functions for the Highline Water District (HWD) in Kent, Washington, the tenth largest water utility in the state of Washington. Tom's responsibilities at HWD covered all aspects of HWD's business practices related to asset management from capital expenditures to operations and maintenance. Tom implemented HWD's first ever Asset Management Plan, enabling HWD to more effectively operate and maintain HWD's physical assets, prioritize design efforts and reduce life cycle costs.

Education BS, Civil Engineering, Seattle University, 1994

Registrations Professional Civil Engineer, Washington

Membership American Water Works Association
American Society of Civil Engineers
American Public Works Association

Project Experience

Capital Improvement Plan Review for Wastewater Facilities, City of Crescent City, Crescent City, CA - Technical Advisor - Tom led the benchmarking work as part of an effort to help the City make informed decisions for its CIP program. The project included review of the City's current five-year CIP and recommendations for development of its 30-year CIP. Tom reviewed the utility budget and assisted the City with evaluating the performance and expectations of the utility by comparing them against other utilities. From this, he identified corresponding performance standards. The results were used by the City to make sure they were providing the highest level of service to their customers at the most economical price while ensuring City operations are carried out in a sustainable manner.

GAP Analysis and Asset Management Implementation Plan, West Kern Water District, Taft, CA - Project Manager - Tom assisted the District in assessing and recommending Best Management Practice improvements using a Gap Assessment methodology. Kennedy/Jenks reviewed current asset management practices, conducted two half-day workshops with District staff to review business drivers/objectives and prioritize asset management improvements, and development of an Asset Management Implementation Plan that summarized the analysis and workshop decisions and outlined next-step recommendations for the District.

Asset Management Training, City of Vancouver, Vancouver, WA - Project Manager - Co-led a one-day training on asset management based on the USEPA's 10-step framework. This was followed up by small group workshops to discuss each public works department's asset hierarchies and data attributes they are tracking. Reviewed and developed asset hierarchies for each department (i.e., water, sewer, storm, parks, etc.) to assist them with developing an implementation plan.

Asset Management Implementation Plan Development, Santa Clarita Water Division - CLWA, Santa Clarita, CA - Project Manager - Performing an asset management gap analysis and developed improvement programs based on a total enterprise asset management quality framework. Assessed the core asset management quality elements of: process and practice, information system, data and knowledge, organization and people, commercial tactics, and asset management plan. The assessment compared the organization against a set of best appropriate practices. Combined with the organization's business drivers, the assessment formed the basis for development of prioritized improvement asset management projects to implement asset management at the Division.

Water System Optimization Study and CIP Recommendations, South Tahoe Public Utility District, South Lake Tahoe, CA - Discipline Lead - Tom worked with the District to establish Level of Services (LOS) metrics for the District's water system for use in developing a plan to improve the utility by optimizing operations and implementing appropriate capital improvements. This included linking utility standards from AWWA QualServe, International Infrastructure Management Manual, National Water and Wastewater Benchmarking Institute (Canada) as well as state and local regulations to the day-to-day activities of the District.

Tom Keown (cont'd.)

Project Manager

Asset Management Implementation Plan Development, Castaic Lake Water Agency, Santa Clarita, CA - Project Manager - Tom managed a team to help CLWA develop an Asset Management Implementation Plan. Project included a two-day Asset Management Training Workshop with CLWA staff and a Gap Analysis to compare CLWA's current asset management practices to a set of Best Practices. The Gap Analysis also served to identify the relative importance of each of each identified gap and develop a list of prioritized improvement projects. The analysis included a series of workshops with CLWA management and operations staff. With this data, Tom and the team developed the Plan, which would serve as a road map for the agency's next steps in developing its asset management program.

Asset Management Training Workshops, PNWS-AWWA, Everett and Bellevue, WA - Project Manager - Coordinated and participated in a team to provide asset management training to members of the Northwest Washington Subsection of the PNWS-AWWA. Conducted two workshops, in Everett and in Bellevue.

Asset Management Study for the Advanced Infrastructure Management Program Phase 1, Goleta Water District, Goleta, CA - Project Manager - In effort to strengthen its asset management program, foster more efficient resource investments, and prolong the life of its water and recycled water infrastructure systems, the District sought to develop an Advanced Infrastructure Management program. As a part of this phased improvement effort, Kennedy/Jenks was hired to conduct a pilot asset management study for the recycled water system and provide the District with a set of processes for implementing asset management concepts applicable to all District infrastructure. Tom led a one-day training session for District staff to establish a working knowledge of the entire AM framework, based on EPA's 10-step process. Next, the team conducted a Business Risk Assessment to measure and rank asset risks using GIS mapping and probability/consequence of failure methodologies. Working closely with District staff, the team developed an asset hierarchy and register, determined asset valuations, defined Levels of Service, developed management strategies for each asset, and prepared a 50-year budget forecast. Results were then compiled into a Pilot AMP.

Asset Management Plan for Water and Wastewater Infrastructure, East Cherry Creek Valley Water & Sanitation District, Aurora, CO - Technical Advisor - Tom provided asset management expertise to help the District develop an AMP for its water and wastewater infrastructure. For each utility, the team developed Levels of Service standards and performance metrics, identified critical assets, developed life cycle costs (capital and O&M) and developed a long-term funding strategy for achieving the targeted LOS. The project involved close collaboration with District staff through a series of workshops to gather information and populate an asset information database.

Seismic Vulnerability Assessment Report, Sammamish Plateau Water, Sammamish, WA - Project Manager - Tom managed this project to help the District quantify the vulnerability of critical water and sewer facilities to risk of damage or failure following an earthquake, and to identify retrofit improvement projects to enhance system reliability. The assessment results were used to apply for FEMA Hazard Mitigation Grant Program funds to design and build select improvements. The assessment included field evaluations of existing facilities to gather data, development of three scenarios for use in conducting seismicity and geotechnical hazards evaluations, assessment of pipe and facility vulnerability based on the scenarios, estimating consequence of facility/system failure, and analyzing and ranking of facility needs by calculated risk. Following this work, the team conducted an economic analysis of the results and developed a report with improvement recommendations to mitigate risk.

CMMS Program Assessment, Santa Clarita Water Division - CLWA, Santa Clarita, CA - Project Director - Project to provide support services to aid CLWA in the procurement of appropriate Computerized Maintenance Management System (CMMS) software. This work is part of a larger effort to develop and implement a comprehensive Asset Management Program.

City of Modesto Public Works Benchmarking and Organizational Change Support, Moss Adams LLP, Modesto, CA - Technical Advisor - As a management consultant advisor, Tom is working with the Prime and City of Modesto to conduct a benchmarking analysis and organizational assessment. The results from this work will be used to further the development of a comprehensive streamlined business initiative being undertaken by the City.

Doug Stewart, PE

Asset Management Strategy Leader

Doug is a nationally-recognized expert in asset management. Doug served for five years as the National Technical Director for Asset Management Services and Principal Management Consultant for an international firm of over 6,000 people. He has also served as the US EPA's Instructor for teaching asset management to municipalities, since EPA initiated their training program in 2003. Doug has conducted over 30, two-day workshops on asset management across the country.

Prior to working in consulting, Doug was employed at the Orange County Sanitation District (OCSD) for ten years, where he served as the Asset Management Program Director and Engineering Manager. While at OCSD, he developed their Asset Management Program and reduced the OCSD's annual capital and operating budgets by more than 18% and 14%, respectively. As Engineering Manager, he was responsible for leading the planning and engineering for a \$120M per year capital improvement program.

Education AS, Civil Engineering, Vermont Technical College, 1975
BS, Civil Engineering, University of Maine, 1978
MS, Civil Engineering, Montana State University, 1980

Registrations Professional Civil Engineer, California

Membership American Society of Civil Engineers
American Water Works Association
International Water Association
Water Environment Federation

Project Experience

Orange County Sanitation District, Fountain Valley, CA - Asset Management Program Director - Implemented first ever, agency-wide infrastructure asset management program in the US water/wastewater industry based on an international model. Responsible for all aspects of development and implementation (including culture change) of the program. Asset management program saved OCSD over 18% of the capital budget and 14% of the operating budget over a three year period. Prepared strategic and tactical asset plans for District.

Orange County Sanitation District, Fountain Valley, CA - Engineering Manager - Responsible for all planning and engineering design functions for regional wastewater sanitation district with a \$120+ million dollar per year capital improvement program. District serves 23 cities and two special districts with a population base of 2.3 million people. Planned, organized, controlled, integrated, and evaluated work of four subordinate managers with a staff of forty personnel, supplemented with up to 20 contract employees. Developed and implemented District Capital Improvement Program. Established performance goals, service delivery criteria, monitored performance, and provided coaching to staff. Represented engineering division to Board of Directors, select Board subcommittees, and outside public agencies.

Chino Basin Municipal Water District, Fontana, CA - Acting Executive Manager of Engineering and Planning - Responsible for engineering, planning and construction management department for a special district that provides supplemental water and wastewater facilities for more than 580,000 people in Western San Bernardino County. As Chief Engineer for the District, was also responsible for an annual capital improvement program in excess of \$50 million. Lead, directed, developed and coordinated a supportive team consisting of in-house staff and consultants which met deadlines, anticipated issues and maintained control over multi-million dollar projects. Formulated, established and implemented policies and procedures for attaining District's service goals.

GHD, Inc., Irvine, CA - Senior Technical Director and Principal Management Consultant - Responsible for technical aspects of USA management consulting practice, specializing in infrastructure asset management. Principal management consultant for dozens of consulting projects across North America, in a variety of infrastructure types (water/wastewater, flood control, transportation, gas and oil, public works departments). Recognized international expert in asset management benchmarking. Specializing in holistic asset management practices for utility management resulting in data driven asset based decision-making. Worked with agencies from strategic frameworks to business improvement initiatives to building infrastructure management plans. Instructor for US Environmental Protection Agency (USEPA) asset management workshops since inception of the program in 2003, personally conducting over thirty two-day workshops across the United States.

Doug Stewart, PE (cont'd.)

Asset Management Strategy Leader

Bay Delta Unit, Division of Water Rights, California State Water Resources Control Board, Sacramento, CA - Associate Water Resources Control Engineer - Conducted an engineering investigation to determine the impacts of upstream water use in the Sacramento -San Joaquin River hydrologic basin on flow and salinity in the Sacramento - San Joaquin Bay-Delta Estuary. Supervised from four to eight engineering students during this investigation as well as participated with other Associate WRC engineers and outside contractors. Participated as a lead staff person in the Bay-Delta water right hearings which commenced in July 1987. Developed recommendations for changes in the Board's Delta Agricultural Water Quality Standards. Provided major contributions to the development of a Water Quality Control Plan and a Pollutant Policy Document for the Bay-Delta Estuary water right hearing. Monitored data reports on the Delta and Suisun Marsh water quality to determine status of compliance with the State Board's water quality standards. Evaluated proposed projects and draft legislation potentially affecting the Delta and San Francisco Bay. Located funding sources, developed, negotiated, and managed contract for student services with Sacramento State University.

Environmental Resources Branch, Division of Planning, Bureau of Reclamation, Sacramento, CA - Hydraulic Engineer - Supervised hydraulic modeling section in the Environmental Resources Branch, Division of Planning. Primary duties included performing complex and technical hydraulic, hydrodynamic, and pollutant transport investigations of the Sacramento - San Joaquin Delta and San Francisco Bay. Supervised and performed complex pollutant modeling investigations for the Bureau's proposed San Luis Drain Project. Served as the Bureau's representative in inter-agency modeling investigations of hydrodynamics, biological and water quality modeling investigations in the San Francisco Bay-Delta Estuary. Represented the Bureau in conferences and panels made up of other federal, state and local agencies as well as academic contacts in the field of hydrodynamic and water quality modeling. Represented Bureau on technical matters which directly related to the formulation of Bureau policy.

Willdan Associates, City of Temecula, Temecula, CA - Deputy City Engineer - Established and supervised contract engineering department for the newly incorporated City of Temecula including: development review, plan checking, public works permits, public works inspection, traffic engineering and design projects. Responsible for all day-to-day operations of the department including fiscal management and client billings. Coordinated the transfer of engineering projects from Riverside County to the City. Represented engineering department to Planning Commission, City Council and outside agencies. Coordinated engineering plans for I-15 interchange improvements with District 8 Caltrans. Administered engineering design contract for Mello-Roos District infrastructure improvements. Coordinated engineering review with Riverside County on two \$100 million plus infrastructure assessment districts within the City.

Boyle Engineering Corporation, San Bernardino, CA - City of Big Bear Lake, CA - City Engineer - Compiled and developed a subdivision manual, street design manual, and set of standard plans for use by the city. Obtained approval of the manuals from Development Review Committee, Planning Commission and City Council. Developed new subdivision and grading ordinances necessary to implement manuals. Performed plan reviews of tract and parcel maps, mergers, lot line adjustments, plot plans, site approvals, condominium and P.U.D. plans. Reviewed infrastructure and improvement plans submitted to the City for approval. Project Engineer for several public works projects. Project Engineer in charge of developing a hydrology study and flood control master plan for Rathbun Creek. Successfully obtained approvals of study from City Council, S. B. Flood Control, Fish and Game and various other agencies. Responsible for budgets on contracts for City Engineering services and design projects. Served as an expert witness on two occasions in lawsuits affecting the City.

Jeroen Preiss

Data Modeling Lead

Jeroen is a Senior Project Manager and web-based GIS Developer in Kennedy/Jenks Consultants' Integrated Solutions Group. He has seventeen years of experience related to multi-disciplinary engineering and geosciences consulting. He is experienced in GIS application development, GIS/CAD data conversion, and Web-based data management and GIS implementation. Jeroen is an expert in efficiently automating complex work processes by using GIS, CAD and database applications. His current focus is on providing clients with solutions to effectively manage utility asset information and streamline data flows throughout the organization. To this end, he extensively utilizes web based GIS customization using .NET, HTML, JavaScript and Visual Basic programming, which has resulted in the Infrastructure Asset Manager (KJ-IAM), a library of custom software modules that can be deployed as needed in our clients' IT infrastructure. Data types and modules include water distribution networks, sewer collection networks, (CCTV) inspection events, work order management, facility management, risk management and optimized renewal decision modeling.

Education MS, Structural Geology and Plate Tectonics, Faculty of Earth Science at the Vrije Universiteit, Amsterdam, The Netherlands, 1995

Project Experience

Water Distribution System Web-interface Design and Implementation, Carmichael Water District, Carmichael, CA - Project Manager - Project Manager and Lead GIS Web Programmer responsible for design and creation of a Web interface to the District's Water Distribution System maps for effective management of planning, budgeting, and maintenance of System assets. District staff are able to perform forecasting on water main replacement activities, as well as enhance day to day workflows such as valve closure tracking and water main isolation modeling.

Development of Geographical Information System, North of River Sanitary Dist. #1, Bakersfield, CA - Lead GIS Web Programmer - Designed and created an Infrastructure Asset Manager (KJ-IAM) implementation for the District's wastewater collection system. The District's KJ-IAM serves as their maintenance management system used on a daily basis to track service calls, schedule regular cleaning and CCTV inspection events and maintain an up-to-date asset inventory.

Infrastructure Asset Manager System, Phase 1, West Kern Water District, Kern County, CA - Lead GIS Web Programmer - Designed and created an Infrastructure Asset Manager (KJ-IAM) implementation for the District's water distribution system. The main purpose of the District's KJ-IAM is to collect and store institutional knowledge related to the intricacies of the transmission system and the many facilities, many of which are located in rural areas, and provide water to various small and distant communities.

Infrastructure Asset Management Implementation, Castro Valley Sanitary District, Castro Valley, CA - Project Manager and Lead Developer - Designed and created an Infrastructure Asset Manager (KJ-IAM) implementation for the District's wastewater collection system. The District's KJ-IAM is used maintain an up-to-date asset inventory and integrates various software packages including Lucity for CMMS and Granite XP for CCTV inspection information.

GIS Mapping System Upgrade, North of the River Municipal WD, Bakersfield, CA - Project Manager and Lead GIS Web Programmer - Designed and created an Infrastructure Asset Manager (KJ-IAM) implementation for the District's water distribution system. The District's KJ-IAM serves as their maintenance management system used on a daily basis to track and schedule regular maintenance and inspection events and maintains an up-to-date asset inventory.

Implementation of KJ-IAM for Sanitary Sewer System, City of Millbrae, Millbrae, CA - Lead GIS Web Programmer - Designed and created an Infrastructure Asset Manager (KJ-IAM) implementation for the City's wastewater collection system. The City's KJ-IAM serves as their maintenance management system used on a daily basis to track service calls, schedule regular cleaning and CCTV inspection events and maintain an up-to-date asset inventory.

Jeroen Preiss (cont'd.)

Data Modeling Lead

Sanitary Sewer Collection System - GIS Consulting Services, Oro Loma Sanitary District, San Lorenzo, CA - Project Manager and Lead Developer - Responsible for configuring the District's GIS and provided training for District staff. Designed and created an Infrastructure Asset Manager (KJ-IAM) implementation for the District's wastewater collection system. Streamlined CCTV data collection and analysis to help in the planning of a CIP.

Infrastructure Asset Management Implementation, East Niles Community Services District, Bakersfield, CA - Project Manager and Lead Developer - Designed and created an Infrastructure Asset Manager (KJ-IAM) implementation for the District's water distribution and wastewater collection systems. The District's KJ-IAM is used maintain an up-to-date asset inventory and integrates various software packages including Granite XP for CCTV inspection information.

Long-Term Capital Improvement Program, South Arapahoe Sanitation District, Arapahoe County, CO - Lead GIS Web Programmer and Database Administrator - Designed and created an Infrastructure Asset Manager (KJ-IAM) implementation for the District's wastewater collection system. The District's KJ-IAM is linked directly with an existing Microsoft Access-based Maintenance Management System and provides graphical support to maintenance scheduling activities on a daily basis.

Infrastructure Asset Management Implementation, Lee Lake Water District, Corona, CA - Project Manager and Lead Developer - Designed and created an Infrastructure Asset Manager (KJ-IAM) implementation for the District's water, wastewater and reclaimed water utility systems. Converted analog CCTV video to digital and integrated with KJ-IAM.

Implement Web GIS Portal, Granada Sanitary District, El Granada, CA - Lead GIS Web Programmer - Designed and created an Infrastructure Asset Manager (KJ-IAM) implementation for the District's wastewater collection system. The District's KJ-IAM is used maintain an up-to-date asset inventory.

Information Management System Integration, City of San Mateo, San Mateo, CA - Lead GIS Analyst - Developed a workflow that integrates the City's storm water and wastewater CAD maps with ArcGIS and CityWorks for effective asset management activities. New procedures allow the City to keep spatial updates in AutoCAD while relevant data records are maintained in the CityWorks asset management system.

Storm Water Data System (SWDS) Development and Consulting Services, City of South Lake Tahoe, South Lake Tahoe, CA - Project Manager and Lead GIS Web Programmer - Designed and created a Storm Water Data System (SWDS) implementation for the City's storm water system. The City's SWDS serves as their maintenance management system used on a daily basis to track and schedule regular maintenance and inspection events, track permits related to construction, maintain an up-to-date asset inventory and analyze runoff characteristics related to volume and quality of water.

Development Assistance with Pipeline Data and Drawings Integration, San Francisco Public Utilities Commission, San Francisco, CA - Lead GIS and Web Programmer - Developed a Geographic Document Retrieval System to assist the Water Supply & Treatment Division with their document management needs. The System is a web-based ArcIMS solution that allows the PUC to perform map-based searches for engineering drawings of the Hetch Hetchy Pipeline System.

Land Management Field Data Collection System, San Francisco Public Utilities Commission, San Francisco, CA - Lead GIS and Web Programmer - Developed a Field Data Collection System to streamline the inspections of Hetch Hetchy Pipeline System right-of-way corridors using hand-held global positioning system (GPS) devices that automatically synchronize databases at the end of the day to avoid unnecessary data entry efforts from hand written notes.

Randy Weaver

Asset Management Strategy Leader

Randy Weaver has expertise in the full range of Asset Management Program implementation activities. He is a certified Maintenance and Reliability Professional with over 30 years in the water/wastewater industry. Randy has more than 12 years of experience in asset management and six of those years were as the asset manager for the City of San Diego Metropolitan Wastewater Department.

As the previous Asset Manager for the City of San Diego, Randy was responsible for developing the strategic plan for their asset management program, including establishing the standards, policies, and procedures; conducting sensitivity analyses with respect to risk, levels of service, and cost; and determining staffing needs for the long-term implementation of the program.

His experience has been in the implementation of maintenance, reliability, and asset management programs of water and wastewater facilities that include treatment plants, pumping stations, and power-generating facilities.

Project Experience

Asset Management Study for the Advanced Infrastructure Management Program Phase 1, Goleta Water District, Goleta, CA - Task Leader - Asset Management Consultant. In effort to strengthen its asset management program, foster more efficient resource investments, and prolong the life of its water and recycled water infrastructure systems, the District sought to develop an Advanced Infrastructure Management program. As a part of this phased improvement effort, Kennedy/Jenks was hired to conduct a pilot asset management study for the recycled water system and provide the District with a set of processes for implementing asset management concepts applicable to all District infrastructure. The project involved a one-day training session for District staff to establish a working knowledge of the entire AM framework, based on EPA's 10-step process, followed by a Business Risk Assessment to measure and rank asset risks using GIS mapping and probability/consequence of failure methodologies. Working closely with District staff, the team developed an asset hierarchy and register, determined asset valuations, defined Levels of Service, developed management strategies for each asset, and prepared a 50-year budget forecast. Results were then compiled into a Pilot AMP.

Asset Data Management Workflow Process Refinement, On-Call Work Order, King County Wastewater Treatment Division, Seattle, WA - Task Leader - Asset Management Consultant. Worked collaboratively with client staff in a workshop setting to refine the workflow for the Wastewater Treatment Division's asset data management process. Developed a diagram that visually illustrates the roles and responsibilities of each participant, along with key communication milestones and defined hand-off points and deliverables to other process participants. Project included workshop facilitation/participation, development of the preliminary and final process flow diagrams, and presentation of the final recommendations.

Asset Management Implementation Plan Development, Global Loss Prevention, Inc., Redding, CA - Task Leader - Asset Management Consultant. Worked with the client to develop an Asset Management Plan. Following the EPA's 10-step process, our team provided asset management training for the client's staff, a system-wide business risk assessment, and developed a GIS asset register, service levels, management strategies, and long-range funding needs. All of this culminated in the preparation and presentation of the final Asset Management Plan, which will be used by the client as a tool for guiding them in the development of a sound, successful, and sustainable asset management program.

Education AAS, Degree Specialty, Mesa College, San Diego, CA, 1986
CREDIT, Business Management, 50-Qtr Units

Certification Certified Maintenance and Reliability Professional from the Society for Maintenance and Reliability Professionals\
Certificate in Project Management, Community College District, San Diego, CA
Certificate in Material Requirements Planning and Inventory Control, Community College District, San Diego, CA
California Water Environment Association, Grade 4 Electrical and Instrumentation Certification
California Water Environment Association, Grade 4 Mechanical Technologist
California Class B - General Contractors License

Memberships Society for Maintenance and Reliability Professionals
California Water Environment Association
International Water Association
Water Environment Federation
California Association of Sewerage Agencies

Randy Weaver (cont'd.)

Asset Management Strategy Leader

Asset Management Needs Assessment, Multiple Clients - Project Manager - Performed asset management organization assessments and developed improvement programs. The assessments involved a review of core asset management quality elements of processes and practices, information systems, data and knowledge, organization and people, commercial tactics, and asset management plan. Evaluating the organization against a set of best appropriate practices, combined with the organization's business drivers, the assessment formed the basis for development of prioritized improvement projects.

Maintenance Practices Audit for the City of Livermore Water Resources Division - Project Manager - Conducted a strategic review of current maintenance practices as compared to best appropriate practices. The maintenance practices audit identified inefficiencies and opportunities for improvements. The audit defined improvements or alternative procedures, techniques and technologies, which will improve the control of maintenance, minimize maintenance costs, and maximize plant condition, performance and availability.

Development of Asset Hierarchy and Data Standards, Multiple Clients - Project Manager - Responsible for developing asset criteria, asset hierarchy, and data standards and naming conventions. Developed and utilized asset inventory checklists to assist in the inventory of major wastewater and water system facilities. Developed an asset inventory list and conducted inventory for pump stations, reservoirs, and treatment plants. Prepared data collection framework and procedures manual for populating the asset register with pertinent data for asset management purposes.

Capital Improvement Program (CIP) Validation, Multiple Clients - Project Manager - Reviewed and revised the capital improvement program evaluation and approval process by bringing it into line with advanced asset management practices being used world- wide. Developed validation and prioritization models for analysis and recommendation on current projects list using a risk based approach.

Work Breakdown Structure and Cost Summary

Kennedy/Jenks Consultants

CLIENT Name: Elk Grove Water District
 PROJECT Description: Asset Management Plan - Revised Based on Negotiations 7/10/2014
 Proposal/Job Number: _____ Date: 6/13/2014

	Alex Peterson	Thomas Keown	Doug Stewart	Randy Weaver	Jeroen Preiss	Admin. Assist.	Total	KJ Total Labor	KJ ODCs	Total Expenses	Total Labor + Expenses
Classification:							Hours				Fees
Hourly Rate:	\$230	\$230	\$220	\$220	\$195	\$90					Fees
Task 1 - Project Management											
Quality Control Reviews	2	2	2	2		2	10	\$1,980	\$0	\$0	\$1,980
Kick-off Meeting		4		4			8	\$1,800	\$0	\$0	\$1,800
Condition Assessment Inspection & Interviews	2	8		8			18	\$4,060	\$1,100	\$1,100	\$5,160
Project Management		8				10	18	\$2,740	\$0	\$0	\$2,740
Subtotal	4	22	2	14	0	12	54	\$10,580	\$1,100	\$1,100	\$11,680
Task 2 - Asset Management Model and Database Setup											
Task 2.1 - Asset Database Configuration						40	40	\$7,800	\$0	\$0	\$7,800
Task 2.2 - Configuration of KJ-IAM						54	54	\$10,530	\$0	\$0	\$10,530
Task 2.3 - Loading of Asset Management Parameters				4		40	44	\$8,680	\$0	\$0	\$8,680
Task 2.4 - Installation and Training						12	12	\$2,340	\$0	\$0	\$2,340
Subtotal	0	0	0	4	146	0	150	\$29,350	\$0	\$0	\$29,350
Task 3 - Asset Management Plan											
Task 3.1 - Refine Asset Register											
Review Data Standards and update KJ-IAM		2		8	2		12	\$2,610	\$0	\$0	\$2,610
Task 3.1 - Subtotal	0	2	0	8	2	0	12	\$2,610	\$0	\$0	\$2,610
Task 3.2 - Develop Asset Valuation											
Document Findings and Update KJ-IAM		2		8			10	\$2,220	\$0	\$0	\$2,220
Task 3.2 - Subtotal	0	2	0	8	0	0	10	\$2,220	\$0	\$0	\$2,220
Task 3.3 - Develop Business Risk Assessments											
Document Findings and Update KJ-IAM		2		8	2		12	\$2,610	\$0	\$0	\$2,610
Task 3.3 - Subtotal	0	2	0	8	2	0	12	\$2,610	\$0	\$0	\$2,610
Task 3.4 - Develop Current Replacement Costs											
Document Findings and Update KJ-IAM		2		8	2		12	\$2,610	\$0	\$0	\$2,610
Task 3.4 - Subtotal	0	2	0	8	2	0	12	\$2,610	\$0	\$0	\$2,610
Task 3.5 - Develop Management Strategies											
Document Findings and Update KJ-IAM		2	4	16	4		26	\$5,640	\$0	\$0	\$5,640
Task 3.5 - Subtotal	0	2	4	16	4	0	26	\$5,640	\$0	\$0	\$5,640
Task 3.6 - Develop Long Range Funding Needs Assessment											
Document Findings and Update KJ-IAM		2		10	2		14	\$3,050	\$0	\$0	\$3,050
Task 3.6 - Subtotal	0	2	0	10	2	0	14	\$3,050	\$0	\$0	\$3,050
Task 3.7 - Develop Asset Management Plan											
Develop Draft AM Plan	1	2	4	16	4	2	29	\$6,050	\$0	\$0	\$6,050
Present Draft AM Plan to Staff (teleconf)	1	2		8			11	\$2,450	\$0	\$0	\$2,450
Finalize AM Plan				4		2	6	\$1,060	\$100	\$100	\$1,160
Present AM Plan Findings to Board (twice)	2	4		8			14	\$3,140	\$800	\$800	\$3,940
Task 3.7 - Subtotal	4	8	4	36	4	4	60	\$6,050	\$900	\$900	\$13,600
Grand Total	8	42	10	112	162	16	350	\$71,370	\$2,000	\$2,000	\$73,370

July 23, 2014

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Bruce M. Kamilos, Associate Civil Engineer

SUBJECT: **AMENDMENT TO FY 2015-2019 CAPITAL IMPROVEMENT PROGRAM AND HAMPTON VILLAGE WATER TREATMENT PLANT REFURBISHMENT PROJECT CONTRACT**

RECOMMENDATION

It is recommended that the Board of Directors of the Florin Resource Conservation District/Elk Grove Water District (FRCD/EGWD) approve a motion amending the FY 2015-2019 Capital Improvement Program (CIP), appropriating an additional \$711,039 of unrestricted funds to the FY 2014/15 CIP reserve fund, and authorizing the General Manager to execute a construction contract in the amount \$996,039 with TNT Industrial Contractors, Inc. for the Hampton Village Water Treatment Plant Refurbishment project.

Summary

The Hampton Village Water Treatment Plant (WTP) Refurbishment project reactivates the Hampton Village WTP and will provide an additional 1,000 gallons per minute of water source capacity to Elk Grove Water District's water system. The project was bid and the Elk Grove Water District (EGWD) received and opened 3 bids on June 17, 2014. The lowest responsive, responsible bidder was TNT Industrial Contractors with a bid amount of \$996,039.

The bid amount of \$996,039 exceeds the amount budgeted for this project in the FY 2014/15 CIP. At the June 26, 2014 board meeting, the Board appropriated \$2,775,000 of unrestricted funds to the FY 2014/15 CIP reserve fund. An additional \$711,039 of unrestricted funds to the FY 2014/15 reserve fund is required to cover the difference between what was budgeted and the bid amount for this project.

This action, if approved, would amend the FY 2015-2019 CIP, appropriate an additional \$711,039 of unrestricted funds to the FY 2014/15 CIP reserve fund, and authorize the General Manager to execute a contract in the amount \$996,039 with TNT Industrial Contractors, Inc. for the Hampton Village WTP Refurbishment project.

**AMENDMENT TO FY 2015-2019 CAPITAL IMPROVEMENT PROGRAM AND
HAMPTON VILLAGE WATER TREATMENT PLANT REFURBISHMENT PROJECT
CONTRACT**

Page 2

DISCUSSION

Background

The Hampton Village WTP was commissioned in 1996 and operated until 2008. In 2008, the District received a violation from the California Department of Public Health (CDPH) for exceeding the maximum contaminant level (MCL) for arsenic at the Hampton Village WTP. The federal and state MCL for arsenic is 10 parts per billion (ppb). The arsenic level at the Hampton Village WTP averaged 11.7 ppb for three quarters. The District shut down Hampton Village WTP in 2008 as a result of the arsenic violation.

Present Situation

The Hampton Village WTP contains valuable infrastructure and equipment that is not being used. District staff's assessment of the Hampton Village WTP indicates the plant's infrastructure and equipment can be refurbished. The Hampton Village WTP produced water for over ten years that was below the arsenic MCL. In January 2001, the EPA reduced the MCL for arsenic from 50 ppb to 10 ppb, and the Hampton Village WTP continued to operate in compliance until it received the CDPH violation in 2008.

This past year, EGWD rehabilitated the source well (Well 13) for Hampton Village WTP and tested the water quality of Well 13 at three different flow rates (620 gpm, 1005 gpm, and 1475 gpm) and three different depths (215', 300' and 400'). Based on water quality tests under these scenarios, arsenic levels were well under the State limits ranging from non-detect to 2.5 ppb. Additionally, iron and manganese levels were under the State limits.

The Hampton Village WTP Refurbishment project has been designed to be built for iron and manganese removal with provisions that will allow arsenic treatment equipment to be added should arsenic treatment be necessary in the future. All underground chemical injection lines will be installed as part of this construction contract. Should arsenic treatment be required, future chemical injections skids can be installed and connected to the lines for arsenic treatment.

FRCD/EGWS's Bidding Policy & Procedure for Public Works Construction Contracts was adhered to in the bidding process. Bidding qualifications required that bidders possess a valid California general contractor's license (Class A). A non-mandatory bid walk was held prior to the bid submittal date and the bid opening was held on June 17,

AMENDMENT TO FY 2015-2019 CAPITAL IMPROVEMENT PROGRAM AND HAMPTON VILLAGE WATER TREATMENT PLANT REFURBISHMENT PROJECT CONTRACT

Page 3

2014 at 2:30 pm. EGWD received and opened 3 bids and TNT Industrial Contractors, Inc. was the lowest responsive, responsible bidder for the project. The bids are summarized below.

	<u>Company Name</u>	<u>Bid Amount</u>
1	TNT Industrial Contractors, Inc.	\$996,039
2	Division 5-15	\$1,049,000
3	Manito Construction	\$1,232,800
	<i>Engineer's Estimate</i>	\$894,000

Environmental Considerations

The Hampton Village WTP Refurbishment project is categorically exempt from CEQA (the California Environmental Quality Act) under Title 14 California Code of Regulations, Class 1, Section number 15301(b) of the CEQA Guidelines. Projects exempt under Class 1, Section number 15301(b) consist of repair, maintenance, or minor alteration of existing facilities of utilities. A Notice of Exemption (NOE) will be filed with the County Clerk for this project.

Strategic Plan Conformity

The recommendation made in this staff report conforms to the FRCD/EGWD's 2012-2017 Strategic Plan. The Strategic Plan, under the Asset Management section, identifies the need to increase source capacity and reliability of EGWD's water system. The Hampton Village WTP will provide an additional 1000-gpm of water to EGWD's source capacity, and will improve the reliability of the water system by providing redundancy to the Railroad Street Water Treatment Facility.

FINANCIAL SUMMARY

The financial impact of the Hampton Village WTP Refurbishment contract is \$996,039 which exceeds the budgeted amount for this project in the FY 2014/15 CIP. At the June 26, 2014 board meeting, the Board appropriated \$2,775,000 of unrestricted funds to the FY 2014/15 CIP reserve fund. An additional \$711,039 of unrestricted funds to the

July 23, 2014

**AMENDMENT TO FY 2015-2019 CAPITAL IMPROVEMENT PROGRAM AND
HAMPTON VILLAGE WATER TREATMENT PLANT REFURBISHMENT PROJECT
CONTRACT**

Page 4

FY 2014/15 reserve fund is required to cover the difference between what was budgeted and the bid amount.

Respectfully Submitted,



BRUCE M. KAMILOS
ASSOCIATE CIVIL ENGINEER

BMK/

Attachments



FY 2015-2019 CAPITAL IMPROVEMENT PROGRAM

BOARD OF DIRECTORS

Barrie Lightfoot, Chair

Chuck Dawson, Vice Chair

Elliot Mulberg, Director

Donald Menasco, Director

Tom Nelson, Director

Amended July 23, 2014

CIP CAPITAL
IMPROVEMENT
PROGRAM

TABLE OF CONTENTS

Overview 1

Water Meter Retrofit Program 10

Water Meter Replacement Program 12

Melrose Ave. Water Main 14

Elk Grove Blvd. Water Main 16

Bullhead Replacements 18

Wharf Hydrant Replacements 20

8” Water Line Replacement Waterman Rd 22

Pumped-to-Waste Infrastructure – Deep Wells 24

Automatic Meter Reader Feasibility Study 26

Water Mains (4”) Replacement 28

Well Rehabilitation Program (one per year) 30

Well 1D Pump Conversion 32

Railroad Corridor Water Line 34

Backyard Water Mains/Services Replacement 36

Hydropneumatic Tanks Refurbishments 38

Well 1D Generator 40

RRWTF Tanks & Vessels Recoating 42

Media Replacement Filter Vessels 44

Chlorine Tank Replacement ClorTec Room 46

Hampton Road WTP Refurbishment..... 48

VFDs – Booster Pumps Railroad Street WTF 50

SCADA Improvements 52

Truck Replacements..... 54

Administration Building Improvements..... 56

Security Infrastructure 58

Frontage Road & Parking Lot Improvements..... 60

RRWTF Modular Meeting Room & I.T. Center 62

Railroad Street WTF Parking Lot Improvements 64

Well 1D Site Improvements 66

Facilities Repairs..... 68

Unforeseen Capital Projects 70

APPENDICES

Appendix A – Project List by Priority..... 73
Appendix B – CIP Priority Ranking Criteria Score Sheets 75

LIST OF FIGURES AND TABLES

Figure 1 – Opportunities for Board Direction on Capital Projects 2
Table 1 – 5-Year CIP Summary 3
Table 2 – Funding Source Requirements, User Fees..... 4
Table 3 – Funding Source Requirements, Connection Fees..... 4
Table 4A – Schedule of User Fees, Meter Retrofit Program, Capital Improvement Funds 5
Table 4B – Schedule of User Fees, Supply/Distribution Improvements, Capital Improvement Funds 5
Table 4C – Schedule of User Fees, Treatment Improvements, Capital Improvement Funds..... 6
Table 4D – Schedule of User Fees, Bldg. & Site Improvements/Vehicles, Capital Improvement Funds ... 6
Table 4E – Schedule of User Fees, Supply/Distribution, Capital Repair/Replacement Funds 7
Table 4F – Schedule of User Fees, Treatment Improvements, Capital Repair/Replacement Funds 7
Table 4G – Schedule of User Fees, Bldg. & Site Improvements/Vehicles, Capital Repair/Replacement Funds..... 8
Table 4H – Schedule of User Fees, Unforeseen Capital Projects, Unforeseen Capital Projects Funds 8
Table 5A – Schedule of Connection Fees, Supply/Distribution Improvements 9
Table 5B – Schedule of Connection Fees, Treatment Improvements 9

OVERVIEW

The Elk Grove Water District's (District) FY 2015 – 2019 Five-Year Capital Improvement Program (CIP) is a projection of the District's capital funding for planned capital projects in fiscal years 2014/15 through 2018/19. The CIP is reviewed and updated on an annual basis, and is a key component of the District's overall Strategic Plan. The CIP is an important document for performing water rate studies and for managing the District's operations. The CIP also provides a basis to align District plans with other local agency plans so that an integrated approach may be applied to projects within the community at large.

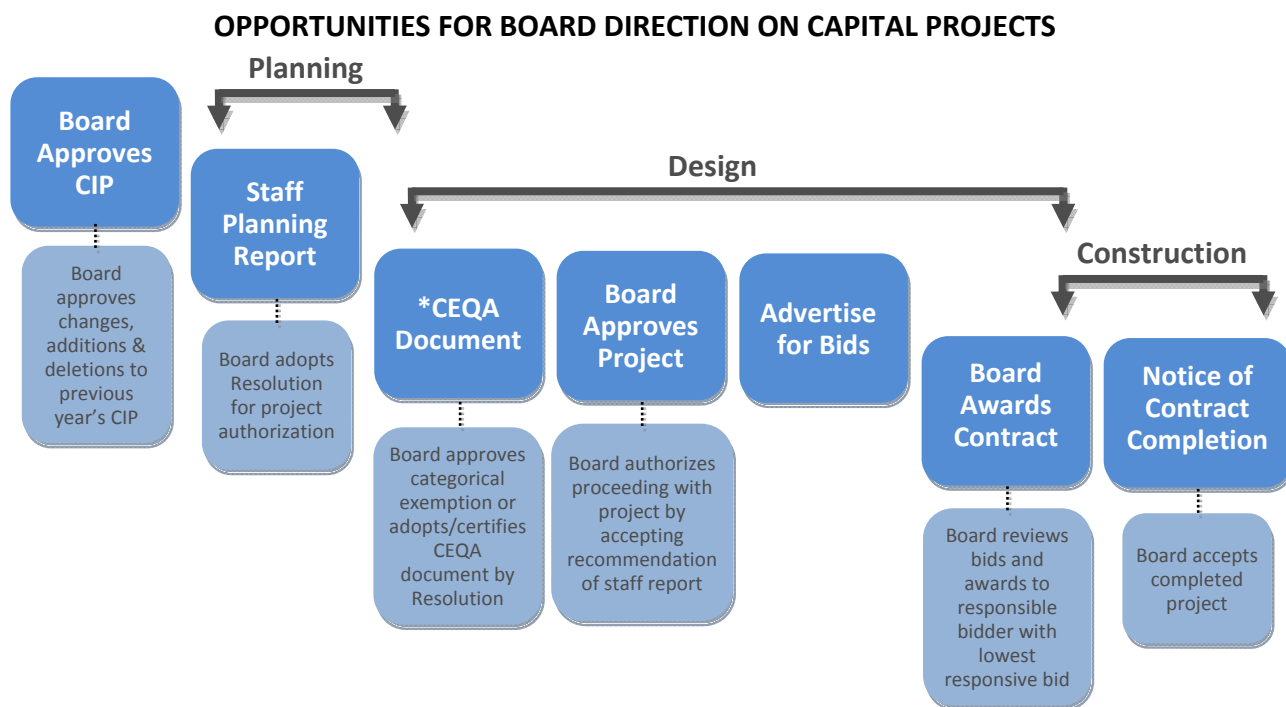
Annually, District staff members and the General Manager meet to identify projects to be included in the CIP. Each project defined in the CIP is summarized by a brief project description and justification. The project location, timing, expenditure schedule, funding source, impact on operating costs and useful life are given for each project. After the CIP is updated, the General Manager reviews the CIP to ensure proposed projects are aligned with the District's Strategic Plan. The CIP is developed in parallel with the District's budget and water rate setting analyses. The General Manager reviews the CIP's proposed expenditure schedule and funding sources to ensure that the CIP's financial elements are consistent with the District's financial policies.

The Board has opportunities each year to provide direction on projects contained in the CIP. During the year, the CIP is presented to the Board on separate occasions for review and input. The Board's comments and direction are incorporated into a draft CIP. The draft CIP is reviewed and accepted by the Board prior to releasing the CIP for public view.

Each project in the CIP goes through a planning phase, design phase and construction phase. At the beginning of the design phase, the environmental impacts relevant to the California Environmental Quality Act (CEQA) are determined for the project. For smaller projects with little or no impact on the environment, the lead agency may declare a negative declaration for the project or deem it exempt from CEQA. In these cases, project-specific information from the planning phase and requirements related to CEQA may be combined and summarized in a single staff report. This approach will help expedite the project schedule.

The Board may determine to not implement a project based on various considerations such as financial constraints, environmental impacts or community desire during a project's planning or design phases. Approval of a capital project by the Board occurs near the end of the design phase when the Board approves proceeding with contract document preparation per the recommendation of a staff report. Figure 1 schematically summarizes the opportunities for Board direction on capital projects.

FIGURE 1



**For smaller projects that have a negative declaration or are exempt, CEQA determination may be included in the staff planning report to expedite the project schedule.*

Principal sources of revenue for the District come from water usage charges and developer connection fees. These revenues are organized into four fund sources – unrestricted reserves, capital improvements, capital repairs/replacements, elections and special studies. The CIP allocates the use of funds related only to capital improvements and capital repairs/replacements.

On the following page, Table 1 presents the project funding schedule of capital improvements for fiscal years 2014/15 through 2018/19. Each project was scored on a score sheet using priority ranking criteria. (All of the score sheets are provided in Appendix B.) A project priority list (Appendix A) was generated based on the priority scores from the score sheets. Projects with a priority score of 80-100 were assigned a priority 1. Projects with a priority score of 70-79 were assigned a priority 2. Projects with a priority score of 60-69 were assigned a priority 3. Projects with a priority score of 40-59 were assigned a priority 4. Projects with a priority score of 0-39 were assigned a priority 5. Detailed information for each project can be found starting on page 10 of this document. The detailed information for each project is presented in the same order as that in Table 1.

Table 1 consists of projects carried over from the previous year's CIP and new projects. New projects are indicated by an asterisk (*) in Table 1. Projects completed last year, or that are in the process of being completed, no longer appear in Table 1. The completed projects are: Well 12 Destruction, Well 13 Rehabilitation, and RRWTF Site Improvements. The I.T. Antenna Improvements project has been eliminated also because it is being covered under the SCADA Improvements project.

Table 1
5-Year CIP Summary

(in thousands \$)

Priority	PROJECT NAME	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	Total
METER RETROFIT PROGRAM							
1	Water Meter Retrofit Program <i>pg. 10</i>	100	-	-	-	-	100
2	Water Meter Replacement Program <i>pg. 12</i>	34	1,586	-	-	-	1,620
SUPPLY / DISTRIBUTION IMPROVEMENTS							
1	Melrose Ave Water Main* <i>pg. 14</i>	315	-	-	-	-	315
4	Elk Grove Blvd Water Main* <i>pg. 16</i>	-	-	-	-	500	500
2	Bullhead Replacements <i>pg. 18</i>	900	-	-	-	-	900
1	Wharf Hydrant Replacements <i>pg. 20</i>	250	-	-	-	-	250
4	8" Water Line Replacement Waterman Rd. <i>pg. 22</i>	-	-	-	169	-	169
1	Pumped-to-Waste Infrastructure - Deep Wells <i>pg. 24</i>	-	26	229	-	-	255
4	Automatic Meter Reader Feasibility Study <i>pg. 26</i>	35	-	-	-	-	35
3	Water Mains (4") Replacement <i>pg. 28</i>	-	-	-	315	1,000	1,315
1	Well Rehabilitation Program (one per year) <i>pg. 30</i>	-	82	84	87	90	343
1	Well 1D Pump Conversion <i>pg. 32</i>	-	-	64	-	-	64
2	Railroad Corridor Water Line <i>pg. 34</i>	-	-	164	-	-	164
3	Backyard Water Mains/Services Replacement <i>pg. 36</i>	-	-	844	844	-	1,688
1	Hydropneumatic Tanks Refurbishments <i>pg. 38</i>	22	22	-	-	-	44
1	Well 1D Generator <i>pg. 40</i>	-	-	174	-	-	174
TREATMENT IMPROVEMENTS							
2	RRWTF Tanks & Vessels Recoating* <i>pg. 42</i>	-	50	350	35	150	585
1	Media Replacement Filter Vessels <i>pg. 44</i>	-	45	47	-	-	92
1	Chlorine Tank Replacement - ClorTec Room <i>pg. 46</i>	-	80	-	-	-	80
1	Hampton Road WTP Refurbishment <i>pg. 48</i>	922	-	-	-	-	922
1	VFDs - Booster Pumps Railroad Street WTF <i>pg. 50</i>	134	-	-	-	-	134
1	SCADA Improvements <i>pg. 52</i>	60	-	-	-	-	60
BUILDING & SITE IMPROVEMENTS / VEHICLES							
3	Truck Replacements <i>pg. 54</i>	38	79	-	-	-	117
2	Administration Building Improvements <i>pg. 56</i>	50	-	-	-	-	50
3	Security Infrastructure <i>pg. 58</i>	-	-	84	-	-	84
1	Frontage Road & Parking Lot Improvements <i>pg. 60</i>	60	-	-	-	-	60
1	RRWTF Modular Meeting Room & I.T. Center <i>pg. 62</i>	75	-	-	-	-	75
2	Railroad Street WTF Parking Lot Improvements <i>pg. 64</i>	217	-	-	-	-	217
5	Well 1D Site Improvements <i>pg. 66</i>	-	-	28	-	-	28
UNFORESEEN CAPITAL PROJECTS							
	Unforeseen Capital Projects <i>pg. 70</i>	200	200	200	200	200	1000
TOTAL		3,412	2,170	2,268	1,650	1,940	11,440
FUNDED TOTAL (priority 1-4 projects + unforeseen)		3,412	2,170	2,240	1,650	1,940	11,412
UNFUNDED TOTAL (priority 5 projects)		0	0	28	0	0	28

* New projects for FY 2015-2019 CIP

Table 2 and Table 3 separate the funding source requirements into two components – user fees, and connection fees. The relevance of separating the funding source requirements into two components is critical when performing water rate studies. Water rate studies determine how capital improvements will be funded – either through rates charged to existing users (user fees), or through fees collected from new users (connection fees). On the next pages, Tables 4A through 4H provide supporting data for Table 2. Tables 4A through 4H break down **user fees** by funding sources and capital improvement programs. Tables 5A and 5B provide supporting data for Table 3. Tables 5A and 5B break down **connection fees** by capital improvement programs.

Table 2
Funding Source Requirements
User Fees

FUND	FY13/14	FY14/15	FY15/16	FY16/17	FY17/18	Total
CAPITAL IMPROVEMENT FUNDS						
Meter Retrofit Program	134	1,586	-	-	-	1,720
Supply/Distribution Improvements	1,500	26	368	343	500	2,737
Treatment Improvements	596	-	-	-	-	596
Building & Site Improvements/Vehicles	440	79	84	-	-	603
SUB-TOTAL	2,670	1,691	452	343	500	5,656
CAPITAL REPAIR/REPLACEMENT FUNDS						
Supply/Distribution Improvements	22	419	992	1,246	775	3,454
Treatment Improvements	415	175	397	35	150	1,172
Building & Site Improvements/Vehicles	-	-	-	-	-	0
SUB-TOTAL	437	594	1,389	1,281	925	4,626
UNFORESEEN CAPITAL PROJECT FUNDS						
Unforeseen Capital Projects	200	200	200	200	200	1,000
SUB-TOTAL	200	200	200	200	200	1,000
TOTAL	3,307	2,485	2,041	1,824	1,625	11,282

Table 3
Funding Source Requirements
Connection Fees

FUND	FY13/14	FY14/15	FY15/16	FY16/17	FY17/18	Total
CAPITAL IMPROVEMENT FUNDS						
Supply/Distribution Improvements	-	-	25	-	-	25
Treatment Improvements	105	-	-	-	-	105
TOTAL	105	0	25	0	0	130

Table 4A
 Schedule of User Fees
 Meter Retrofit Program
 Capital Improvement Funds

CAPITAL IMPROVEMENT FUND	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	Total
METER RETROFIT PROGRAM						
Water Meter Retrofit Program	100	-	-	-	-	100
Water Meter Replacement Program	34	1,586	-	-	-	1,620
TOTAL	134	1,586	0	0	0	1,720

Table 4B
 Schedule of User Fees
 Supply / Distribution Improvements
 Capital Improvement Funds

CAPITAL IMPROVEMENT FUND	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	Total
SUPPLY / DISTRIBUTION IMPROVEMENTS						
Melrose Ave Water Main	315	-	-	-	-	315
Elk Grove Blvd Water Main	-	-	-	-	500	500
Bullhead Replacements	900	-	-	-	-	900
Wharf Hydrant Replacements	250	-	-	-	-	250
8" Water Line Replacement Waterman Rd.	-	-	-	169	-	169
Pumped-to-Waste Infrastructure - Deep Wells	-	26	229	-	-	255
Automatic Meter Reader Feasibility Study	35	-	-	-	-	35
Railroad Corridor Water Line	-	-	139	-	-	139
Well 1D Generator	-	-	-	174	-	174
TOTAL	1,500	26	368	343	500	2,737

Table 4C
 Schedule of User Fees
 Treatment Improvements
 Capital Improvement Funds

CAPITAL IMPROVEMENT FUND	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	Total
TREATMENT IMPROVEMENTS						
Hampton Road WTP Refurbishment	415	-	-	-	-	415
SCADA Improvements	60	-	-	-	-	60
VFDs - Booster Pumps Railroad St. WTF	121	-	-	-	-	121
TOTAL	596	0	0	0	0	596

Table 4D
 Schedule of User Fees
 Building & Site Improvements/Vehicles
 Capital Improvement Funds

CAPITAL IMPROVEMENT FUND	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	Total
BUILDING & SITE IMPROVEMENTS						
Truck Replacements	38	79	-	-	-	117
Administration Building Improvements	50	-	-	-	-	50
Security Infrastructure	-	-	84	-	-	84
Frontage Road & Parking Lot Improvements	60	-	-	-	-	60
RRWTF Modular Meeting Room & I.T. Center	75	-	-	-	-	75
Railroad Street WTF Parking Lot Improvements	217	-	-	-	-	217
TOTAL	440	79	84	0	0	603

Table 4E
 Schedule of User Fees
 Supply / Distribution Improvements
 Capital Repair/Replacement Funds

CAPITAL REPAIR/REPLACEMENT	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	Total
SUPPLY / DISTRIBUTION IMPROVEMENTS						
Water Mains Replacement (4")	-	315	-	315	685	1,315
Well Rehabilitation Program (one per year)	-	82	84	87	90	343
Well 1D Pump Conversion	-	-	64	-	-	64
Backyard Water Mains/Services Replacement	-	-	844	844	-	1,688
Hydropneumatic Tanks Refurbishment	22	22	-	-	-	44
TOTAL	22	419	992	1,246	775	3,454

Table 4F
 Schedule of User Fees
 Treatment Improvements
 Capital Repair/Replacement Funds

CAPITAL REPAIR/REPLACEMENT	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	Total
TREATMENT IMPROVEMENTS						
RRWTF Tanks & Vessels Recoating	-	50	350	35	150	585
Media Replacement Filter Vessels	-	45	47	-	-	92
Chlorine Tank Replacement ClorTec Room	-	80	-	-	-	80
Hampton Road WTP Refurbishment	415	-	-	-	-	415
TOTAL	415	175	397	35	150	1,172

Table 4G
 Schedule of User Fees
 Building & Site Improvements/Vehicles
 Capital Repair/Replacement Funds

CAPITAL REPAIR/REPLACEMENT	FY13/14	FY14/15	FY15/16	FY16/17	FY17/18	Total
BUILDING & SITE IMPROVEMENTS						
None	-	-	-	-	-	0
TOTAL	0	0	0	0	0	0

Table 4H
 Schedule of User Fees
 Unforeseen Capital Projects
 Unforeseen Capital Projects Funds

UNFORESEEN CAPITAL PROJECTS	FY13/14	FY14/15	FY15/16	FY16/17	FY17/18	Total
Unforeseen Capital Projects	200	200	200	200	200	1000
TOTAL	200	200	200	200	200	1,000

Table 5A
 Schedule of Connection Fees
 Supply / Distribution Improvements

CAPITAL IMPROVEMENT FUND	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	Total
SUPPLY / DISTRIBUTION IMPROVEMENTS						
Railroad Corridor Water Line	-	-	25	-	-	25
TOTAL	0	0	25	0	0	25

Table 5B
 Schedule of Connection Fees
 Treatment Improvements

CAPITAL IMPROVEMENT FUND	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	Total
TREATMENT IMPROVEMENTS						
Hampton Road WTP Refurbishment	92	-	-	-	-	92
VFDs - Booster Pumps Railroad St. WTF	13	-	-	-	-	13
TOTAL	105	0	0	0	0	105

Project	Water Meter Retrofit Program
Funding Type	Capital Improvement Funds
Program	Meter Retrofit Program
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

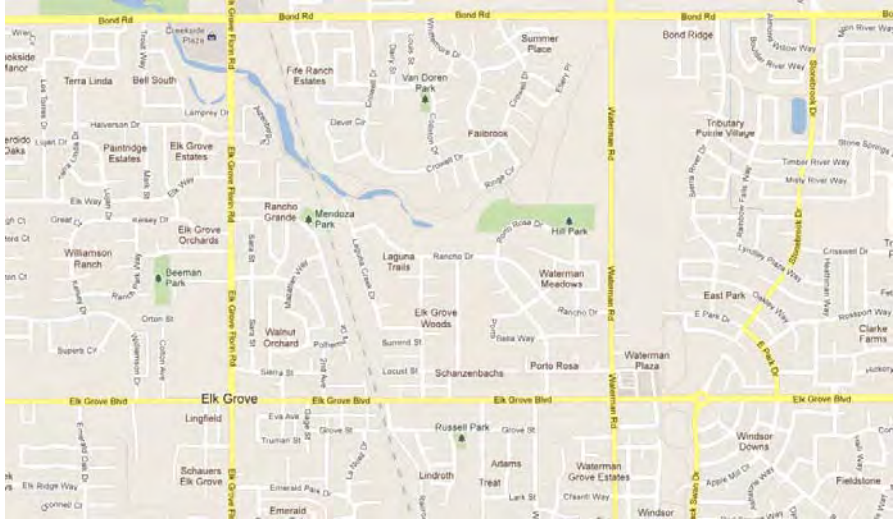
This project uses District employee personnel to install water meters on customer services that are currently without a water meter.

JUSTIFICATION

State law (AB 2572) requires urban water suppliers to install water meters on all service connections by January 1, 2025.

PROJECT LOCATION

The meter retrofit project covers all areas of the Elk Grove Water District. Consult the Elk Grove Water District website at <http://www.egws.org/projects-existing.html> for a map of the construction.



★ Project Location

SCHEDULE & STATUS

This project is ongoing with final construction completion scheduled in FY 2014/15.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Water Meter Retrofit Program	100	0	0	0	0	100
with inflation (3%)	100	0	0	0	0	100

Expenditure breakdown: no design costs, 100% construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Meter Retrofit Program	100
Total	100

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by \$45,000 per year as a result of additional labor associated with meter readings.

USEFUL LIFE: 20 years

Project	Water Meter Replacement Program
Funding Type	Capital Improvement Funds
Program	Meter Retrofit Program
Priority	2
Project No.	TBD



PROJECT DESCRIPTION

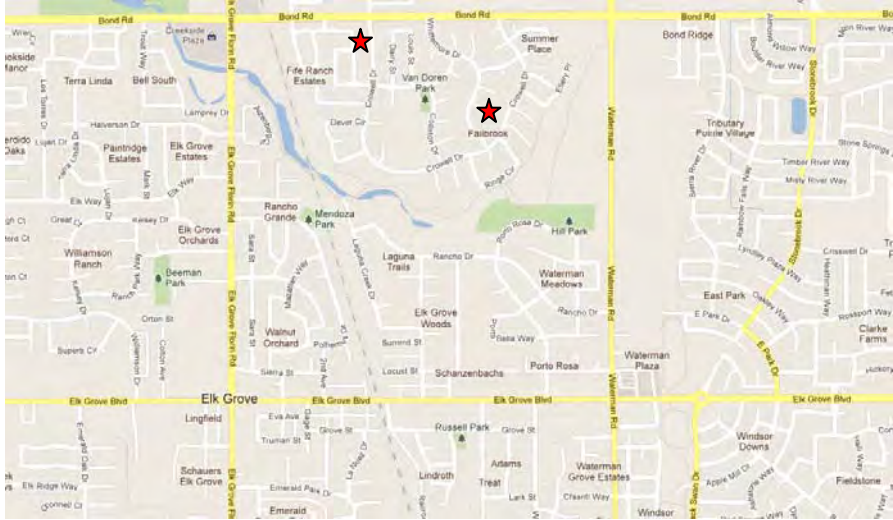
This project uses District employee personnel to replace water meters on customer services that are beyond their useful life. The project replaces approximately 4,500 meters.

JUSTIFICATION

Water meters have a typical useful life of 20 years. The internal parts of water meters that have been in service for this period of time can become worn, affecting the accuracy of the meters. Prior to proceeding with this project, the District will test a sample set of meters to determine statistically if the meters in this age group are inaccurately measuring volumetric flow rate.

PROJECT LOCATION

The meter replacement project will cover the Camden, Fallbrook and Hampton areas, as well as other areas that are determined to have 20-year old meters in service.



★ Project Location

SCHEDULE & STATUS

This project is scheduled to be completed in FY 2015/16.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Water Meter Replacement Program	34	1,540	0	0	0	1,574
with inflation (3%)	34	1,586	0	0	0	1,620

Expenditure breakdown: no design costs, 100% construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Meter Retrofit Program	1,620
Total	1,620

OPERATING COST IMPACTS

The completion of this project is anticipated to increase revenue by \$60,000 per year as a result of improving water consumption accuracy by 3%.

USEFUL LIFE: 20 years

Project	Melrose Ave Water Main
Funding Type	Capital Improvement Funds
Program	Supply / Distribution Improvements
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

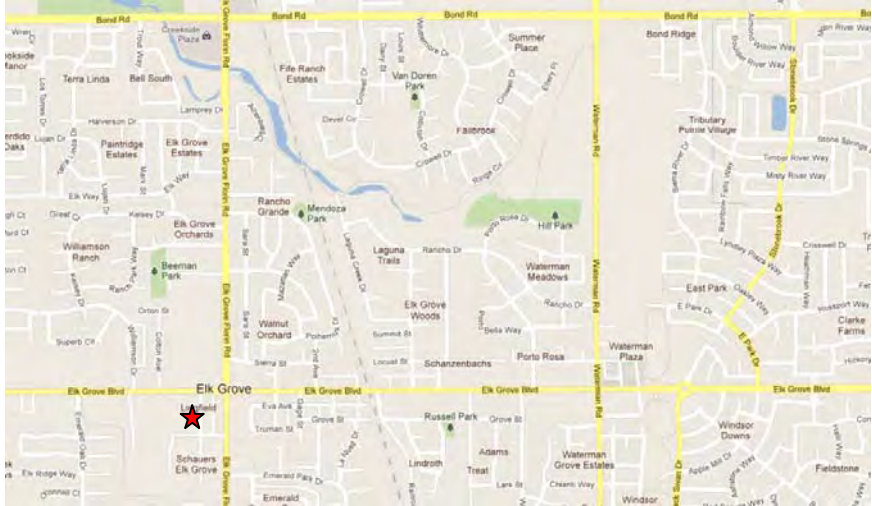
This project installs approximately 1,300 lineal feet of 8” water main in Melrose Avenue.

JUSTIFICATION

The lots on Melrose Avenue are currently served by water mains located along the rear property lines. The water main serving the lots on the west side of Melrose Avenue is a 4” pipe that reduces down to a 2” pipe. To complete the water meter retrofit program, the water main needs to be replaced with an 8” pipe.

PROJECT LOCATION

The project is located on Melrose Avenue.



★ Project Location

SCHEDULE & STATUS

Construction of this project is expected to occur in FY 2014/15.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Melrose Ave Water Main	315	0	0	0	0	315
with inflation (3%)	315	0	0	0	0	315

Expenditure breakdown: \$7,500 design, \$307,500 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	315
Total	315

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by replacing an old water main, service lines and tapping saddles that have reached their useful life and are at risks of developing leaks. It is estimated that the elimination of future leaks will result in an annual savings of \$1,200.

USEFUL LIFE: 50 years

Project	Elk Grove Blvd Water Main
Funding Type	Capital Improvement Funds
Program	Supply / Distribution Improvements
Priority	4
Project No.	TBD



PROJECT DESCRIPTION

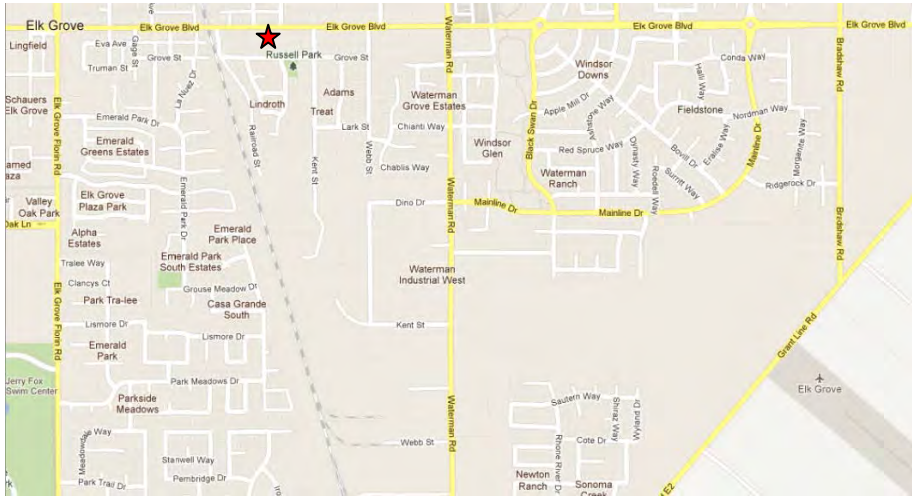
This project installs approximately 1,300 lineal feet of 8” water main on the south side of Elk Grove Blvd. between the Union Pacific Railroad tracks and Kent St, and installs water meters on the front side of the properties along this stretch.

JUSTIFICATION

Businesses and residences along the south side of Elk Grove Blvd. are currently served by a 4” water main located along the rear property lines. To complete the water meter retrofit program, water meters have been placed in the public utility easement at the back of each property. To read the meters, the properties must be accessed by entering fenced-in backyards which are often locked. This project replaces an undersized 4” main with an 8” main and moves the meters to the front sides of the properties.

PROJECT LOCATION

The project is located on the south side of Elk Grove Blvd. between the UPRR tracks and Kent St.



★ Project Location

SCHEDULE & STATUS

Construction of this project is expected to occur in FY 2018/19.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Elk Grove Blvd Water Main	0	0	0	0	444	444
with inflation (3%)	0	0	0	0	500	500

Expenditure breakdown: \$12,000 design, \$488,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	500
Total	500

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by replacing an old water main, service lines and tapping saddles that have reached their useful life and are at risks of developing leaks. It is estimated that the elimination of future leaks will result in an annual savings of \$600.

USEFUL LIFE: 50 years

Project	Bullhead Replacements
Funding Type	Capital Improvement Funds
Program	Supply / Distribution Improvements
Priority	2
Project No.	TBD



PROJECT DESCRIPTION

The Elk Grove Water District has a number of installations where 3/4” service lines tap water mains, then split at a tee fitting (or what is commonly known as a “bullhead”) to serve two (2) water meters. This project replaces the common 3/4” service lines with two 1” service lines so that every water meter is fed individually by a 1” service.

JUSTIFICATION

This project will improve delivery of water to those services currently being served by a bullhead.

PROJECT LOCATION

The project is located throughout various areas of Service Area 1.



★ Project Location

SCHEDULE & STATUS

Construction of this project is expected to occur in FY 2014/15.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Bullhead Replacements	900	0	0	0	0	900
with inflation (3%)	900	0	0	0	0	900

Expenditure breakdown: no design costs, 100% construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	900
Total	900

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by replacing old service lines and tapping saddles that have reached their useful life and are at risks of developing leaks. It is anticipated that the elimination of future leaks will result in an annual savings of \$25,000 over a 5-year period.

USEFUL LIFE: 20 years

Project	Wharf Hydrant Replacements
Funding Type	Capital Improvement Funds
Program	Supply / Distribution Improvements
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

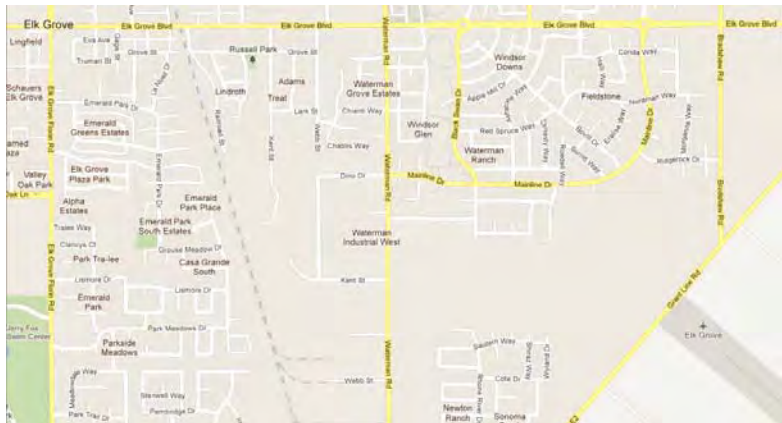
This project replaces approximately 100 wharf hydrants with standard fire hydrants that conform to the District’s standard construction specifications. A wharf hydrant is served by a 4” diameter pipe and consists of a 4” diameter standpipe with one 2-1/2” diameter outlet for a fire hose connection. A standard fire hydrant is served by a 6” diameter pipe and consists of one 4-1/2” outlet for connection to a fire truck pump and two 2-1/2” diameter outlets for fire hose connections.

JUSTIFICATION

Achievable flow rates through standard fire hydrants are higher than wharf hydrants because of the larger diameter outlet and larger diameter service line to the hydrant. Standard fire hydrants give fire fighters the ability to pump water from the 4-1/2” hydrant outlet through the high pressure, high flow pump mounted on the fire truck. Simultaneously, fire fighters can connect two 2-1/2” hoses to the hydrant to fight the fire at line pressure. Wharf hydrants are limited to one 2-1/2” hose connection. This project will bring all fire hydrants into compliance with the District’s standard construction specifications and provide customers with improved fire protection.

PROJECT LOCATION

The project is located throughout various areas of the District’s service area.



★ Project Location

SCHEDULE & STATUS

Construction of this project is a carry-over from FY 2013/14 and is expected to finish in FY 2014/15.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Wharf Hydrant Replacements	250	0	0	0	0	250
with inflation (3%)	250	0	0	0	0	250

Expenditure breakdown: no design costs, 100% construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	250
Total	250

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 40 years

Project	8" Water Line Replacement Waterman Rd.
Funding Type	Capital Improvement Funds
Program	Supply / Distribution Improvements
Priority	4
Project No.	TBD



PROJECT DESCRIPTION

This project replaces approximately 900 feet of 8" water line with a 12" water line on Waterman Rd. between Brinkman Ct. and Kent St.

JUSTIFICATION

The District is planning to provide water service to a large industrial parcel at the end of Brinkman Ct. with a 12" line connected to the Railroad Corridor Water Line. The plans include bringing water service in from the other side of the parcel by extending an existing 12" water line on Brinkman Ct. The Brinkman 12" water line tees off of an existing 8" water main on Waterman Rd. Replacing a section of the existing 8" water main on Waterman Rd. with a 12" water main would allow water from the Railroad Corridor Water Line to more effectively flow to the industrial customers that reside on Kent St. and Dino Dr.

PROJECT LOCATION

The location for this project is near Waterman Rd. and Brinkman Ct., Elk Grove, California.



★ Project Location



SCHEDULE & STATUS

Design and construction is expected to occur in FY 2017/18.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
8" Water Line Replacement Waterman Rd.	0	0	0	154	0	154
with inflation (3%)	0	0	0	169	0	169

Expenditure breakdown: \$9,000 design, \$160,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	169
Total	169

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE 50 years

Project	Pumped-to-Waste Infrastructure - Deep Wells
Funding Type	Capital Improvement Funds
Program	Supply / Distribution Improvements
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

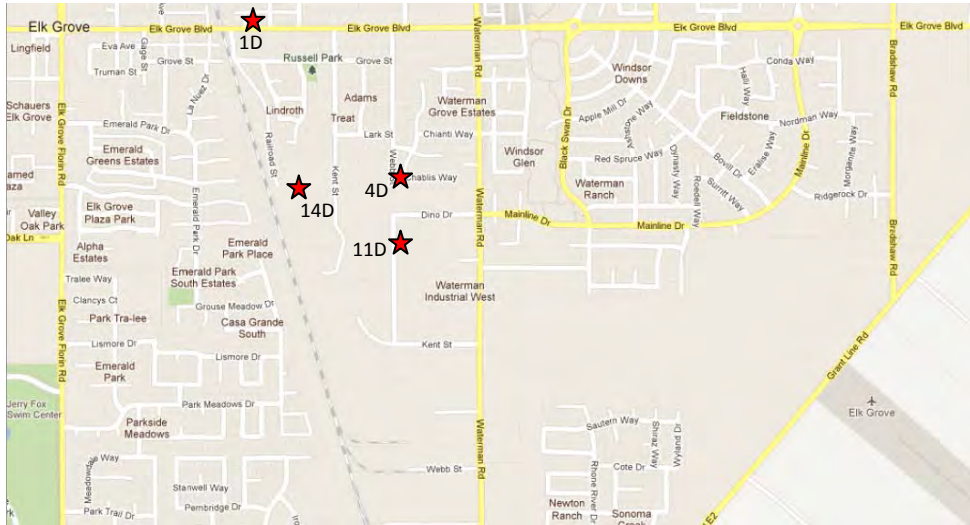
This project modifies well discharge piping and storm drain piping to allow the deep wells (Well 1D, Well 4D, Well 11D, and Well 14D) to be temporarily pumped to the storm drain system.

JUSTIFICATION

Section 64560 of Title 22, California Code of Regulations, states that “each new public water supply well shall be installed such that provisions are made to allow the well to be pumped to waste with a waste discharge line that is protected against backflow.” In addition, periodic well maintenance requires that treatment personnel flush the wells to waste. Permanent “pumped-to-waste” infrastructure is needed for periodic flushing of the deep wells, and for compliance with Title 22.

PROJECT LOCATION

The locations of the four (4) deep wells are shown on the map below.



★ Project Location

SCHEDULE & STATUS

Engineering is scheduled for FY 2015/16 and construction for FY 2016/17.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Pumped-to-Waste Infrastructure – Deep Wells	0	25	216	0	0	241
with inflation (3%)	0	26	229	0	0	255

Expenditure breakdown: \$25,000 design, \$230,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

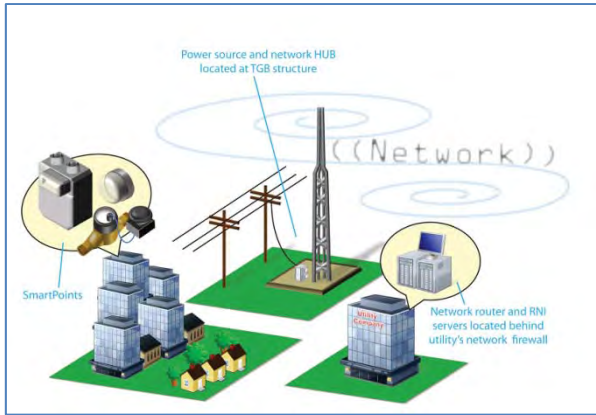
Capital Improvement Funds	
▪ Supply / Distribution Improvements	255
Total	255

OPERATING COST IMPACTS

The completion of this project will not increase or decrease operating costs as the project does not change the current modes of operation.

USEFUL LIFE: 50 years

Project	Automatic Meter Reader Feasibility Study
Funding Type	Capital Improvement Funds
Program	Supply / Distribution Improvements
Priority	4
Project No.	TBD



PROJECT DESCRIPTION

This project performs a feasibility study to determine the benefits of installing automatic meter reading infrastructure and equipment so that meter reading becomes an automated function and water customers have access to real-time water usage.

JUSTIFICATION

Automatic meter infrastructure (AMI) is a powerful tool to increase meter reading efficiency and enhance customer service. Automatic meter infrastructure is part of a “smart grid” technology that transforms the relationship between the water utility and consumers. AMI allows consumers to get real-time water usage data to help guide their water usage decisions. Utilities can notify customers when they’ve exceeded water usage thresholds. The real-time information can lead to improved water conservation and customer satisfaction. The capital cost of an AMI system is significant. Therefore, to define in detail the benefits and economic justification of AMI, a feasibility study will be conducted in advance of the project.

PROJECT LOCATION

The automatic meter readers project covers all areas of the Elk Grove Water District.



★ Project Location

SCHEDULE & STATUS

A feasibility study is planned for FY 2014/15.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Automatic Meter Readers Upgrades	35	0	0	0	0	35
with inflation (3%)	35	0	0	0	0	35

Expenditure breakdown: \$35,000 feasibility study

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	35
Total	35

OPERATING COST IMPACTS

It is anticipated that the completion of an automatic meter readers project would decrease operating costs by an estimated \$75,000 per year by eliminating activities associated with meter reading.

USEFUL LIFE: 20 years

Project	Water Mains (4") Replacement
Funding Type	Capital Repair/Replacement Funds
Program	Supply / Distribution Improvements
Priority	3
Project No.	TBD



PROJECT DESCRIPTION

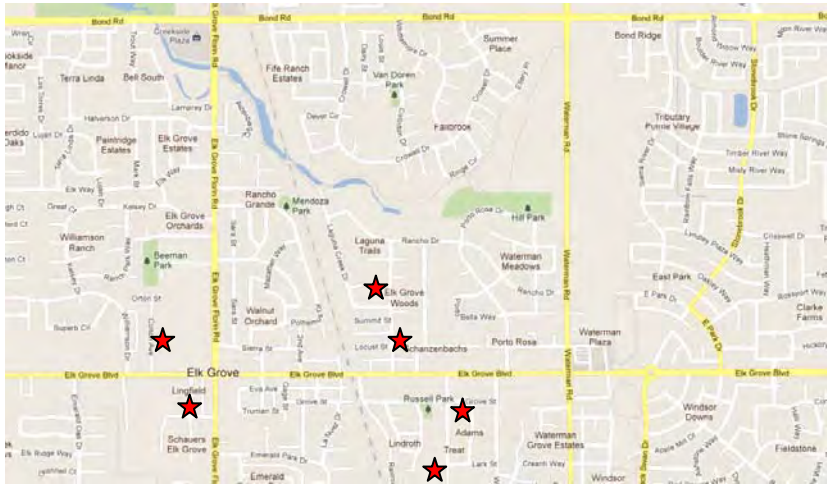
This project replaces existing 4" water mains with larger diameter water mains.

JUSTIFICATION

Some of the District’s older areas are served by 4" water mains. The District’s standard construction specifications specify eight (8) inches as the minimum pipe diameter for distribution mains. The District’s standards allow six (6) inch distribution mains in cul-de-sacs or courts only after the last fire hydrant at the end of any run less than 100 feet.

PROJECT LOCATION

Project locations include Melrose Avenue, Colton Avenue, Kent Street, Grove Street, Locust Street, and School Street.



★ Project Location

SCHEDULE & STATUS

The project is scheduled to occur in FY 2017/18 and FY 2018/19.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Water Mains (4") Replacements	0	0	0	288	888	1,176
with inflation (3%)	0	0	0	315	1000	1,315

Expenditure breakdown: \$30,000 design, \$1,285,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Repair/Replacement Funds	
▪ Supply / Distribution Improvements	1,315
Total	1,315

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50 years

Project	Well Rehabilitation Program (one per year)
Funding Type	Capital Repair/Replacement Funds
Program	Supply / Distribution Improvements
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

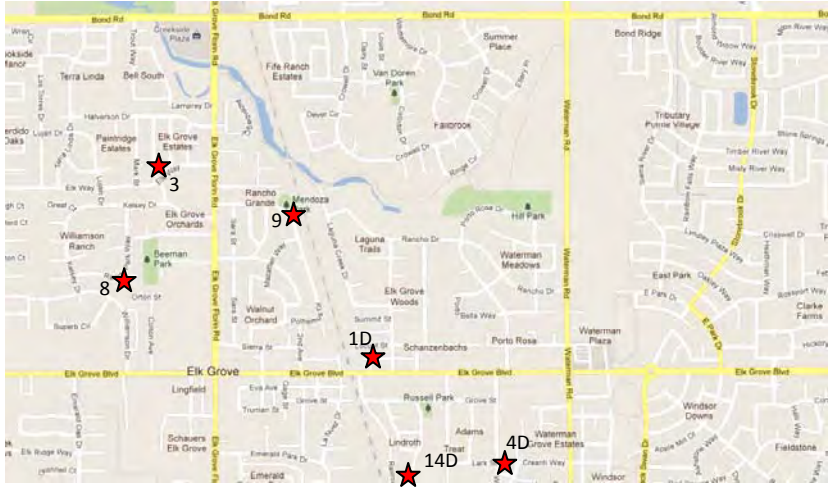
The well rehabilitation program provides for one well rehabilitation project each year.

JUSTIFICATION

The well rehabilitation program maintains production and water quality from the District’s wells. By putting the well rehabilitation program in place, the District spreads the capital costs associated with maintaining its well assets. Maintaining production and water quality from the District’s wells are critical to meeting the required source capacity as prescribed by the California Department of Public Health (CDPH) regulations.

PROJECT LOCATION

The project locations, some of which are shown below, are the wells within the District’s boundary.



★ Project Location

SCHEDULE & STATUS

Preliminary engineering, final design and construction are recurring on an annual basis.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Well Rehabilitation Program	0	80	80	80	80	320
with inflation (3%)	0	82	84	87	90	343

Expenditure breakdown: \$20,000 design, \$323,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Repair/Replacement Funds	
▪ Supply / Distribution Improvements	343
Total	343

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 5 years (for each rehabilitated well)

Project	Well 1D Pump Conversion
Funding Type	Capital Repair/Replacement Funds
Program	Supply / Distribution Improvements
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

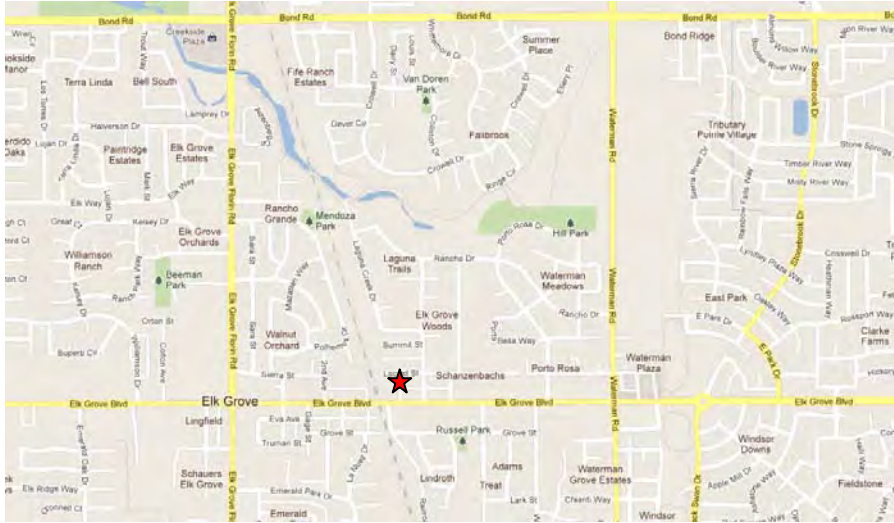
This project converts the vertical turbine pump of Well 1D (School Street Deep Well) from an oil-lubricated system to a water-lubricated system.

JUSTIFICATION

Well 1D is an active, permitted deep well with a depth of 1,025 feet and a flow rate of approximately 1,900 gpm. The vertical, turbine pump in Well 1D is oil lubricated. Oil lubrication in domestic water pumps can cause bacteriological contamination of the drinking water, particularly after the pump has been idle for an extended period of time.

PROJECT LOCATION

The address for Well 1D is 9085 Elk Grove Blvd., Elk Grove, California. The assessor’s parcel number is APN 12502530020000.



★ Project Location

SCHEDULE & STATUS

Preliminary engineering, final design and construction are scheduled to occur in FY 2016/17.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Well 1D Pump Conversion	0	0	60	0	0	60
with inflation (3%)	0	0	64	0	0	64

Expenditure breakdown: \$10,000 design, \$54,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	64
Total	64

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 20 years

Project	Railroad Corridor Water Line
Funding Type	Capital Improvement Funds
Program	Supply / Distribution Improvements
Priority	2
Project No.	TBD



PROJECT DESCRIPTION

This project completes the installation of a 16” to 18” diameter transmission main that connects the Railroad Street WTF to a point of connection (POC) along the most southeastern side of the District’s water distribution system at Provencial Court. The following lengths of pipe are already installed: 2,600 lineal feet (LF) of 18” pipe, 400 LF of 16” pipe and 150 LF of 12” pipe. This project covers the remaining work to complete the transmission main and includes installation of 100 LF of 18” pipe, 600 LF of 16” pipe, 100 LF of 12” pipe, and two (2) 24” diameter x 100 LF borings.

JUSTIFICATION

This project will enhance the District’s water distribution system by facilitating the movement of treated water from the Railroad Street WTF to areas of demand. Computer modeling shows that undeveloped property totaling 68 acres will receive 10 to 15% of the water in the transmission main based on typical water usage from a future industrial tenant. The remainder of water would go to residential water consumers.

PROJECT LOCATION

The project is located in the corridor along the west side of the Southern Pacific Railroad tracks from the Railroad Street WTF to a POC of the water distribution system at Provencial Ct.



★ Project Location

SCHEDULE & STATUS

This project is scheduled to occur in FY2016/17.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Railroad Corridor Water Line	0	0	155	0	0	155
with inflation (3%)	0	0	164	0	0	164

Expenditure breakdown: \$15,000 design, \$149,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	139

CONNECTION FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	25
Total	164

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50 years

Project	Backyard Water Mains/ Services Replacement
Funding Type	Capital Repair/Replacement Funds
Program	Supply / Distribution Improvements
Priority	3
Project No.	TBD



PROJECT DESCRIPTION

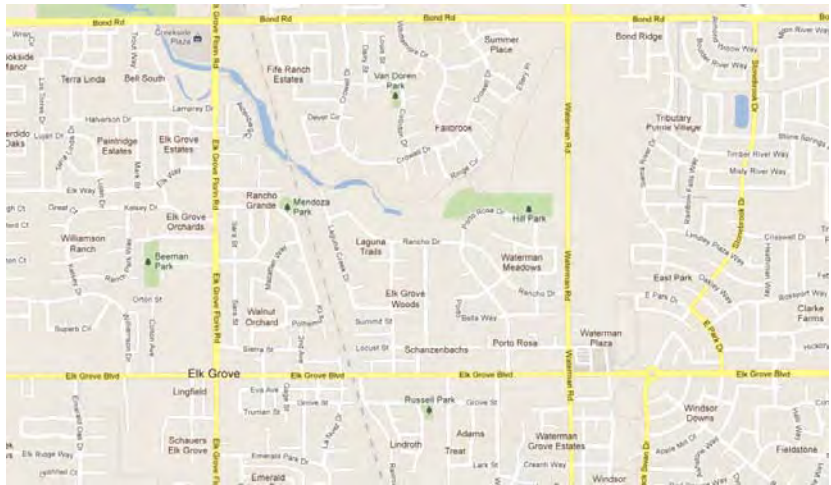
This project replaces existing 4” water mains with larger diameter water mains and relocates the mains from backyard public utilities easements to rights-of-ways in the streets. Water services will be moved from the backyards to the front sides of homes.

JUSTIFICATION

Some of the District’s older areas are served by 4” water mains located in backyard public utilities easements. The District’s standard construction specifications specify eight (8) inches as the minimum pipe diameter for distribution mains. This project will bring undersized water mains up to District standards and will connect meters installed in front yards to water services.

PROJECT LOCATION

Project locations include Melrose Avenue, Elk Grove-Florin (Frontage), Sara Street, Durango Way, Mary Ellen & Acapulco, Mark Street, Emily Street, Barth Street, Amethyst Court, Garnet Court, Elk Way, Kelsey Drive, Sharkey Avenue, Fenton Court, Skydome Court, Colton Avenue, Kent Street, Grove Street, Locust Street, and School Street. Due to the many locations, the project locations are not shown.



★ Project Location

SCHEDULE & STATUS

The project is scheduled to occur in FY 2016/17 and FY 2017/18.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Backyard Water Mains/Services Replacements	0	0	796	772	0	1,568
with inflation (3%)	0	0	844	844	0	1,688

Expenditure breakdown: \$50,000 design, \$1,638,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Repair/Replacement Funds	
▪ Supply / Distribution Improvements	1,688
Total	1,688

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50 years

Project	Hydropneumatic Tanks Refurbishment
Funding Type	Capital Repair/Replacement Funds
Program	Supply / Distribution Improvements
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

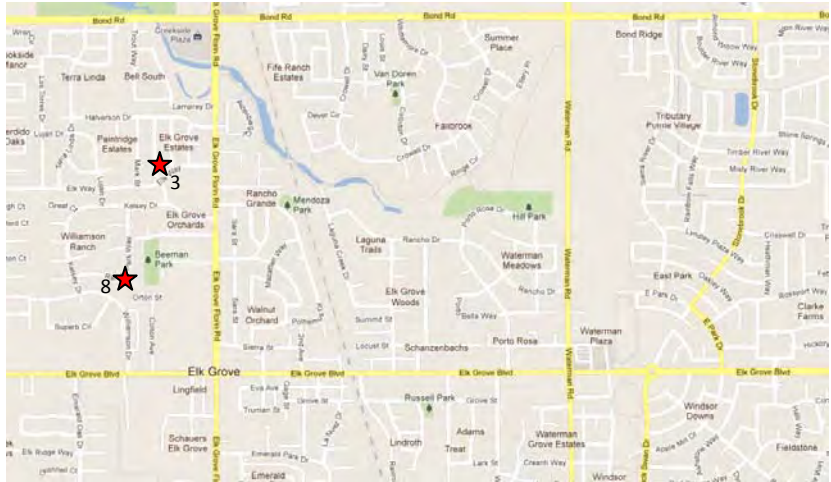
This project inspects the structural integrity of hydropneumatic tanks at the well sites and refurbishes the tanks to extend their useful lives.

JUSTIFICATION

This project inspects the hydropneumatic tanks at the well sites for structural integrity. In addition, the coatings of hydropneumatic tanks deteriorate with age. This project recoats the tanks to extend the tank’s useful lives.

PROJECT LOCATION

Project locations are at the following well sites: Well 3 and Well 8.



★ Project Location

SCHEDULE & STATUS

This project inspects and refurbishes one hydropneumatic tank in FY 2014/15 and FY 2015/16.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Hydropneumatic Tanks Refurbishments	22	21	0	0	0	43
with inflation (3%)	22	22	0	0	0	44

Expenditure breakdown: no design costs, 100% construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Repair/Replacement Funds	0
▪ Supply / Distribution Improvements	44
Total	44

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 10 years

Project	Well 1D Generator
Funding Type	Capital Improvement Funds
Program	Supply / Distribution Improvements
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

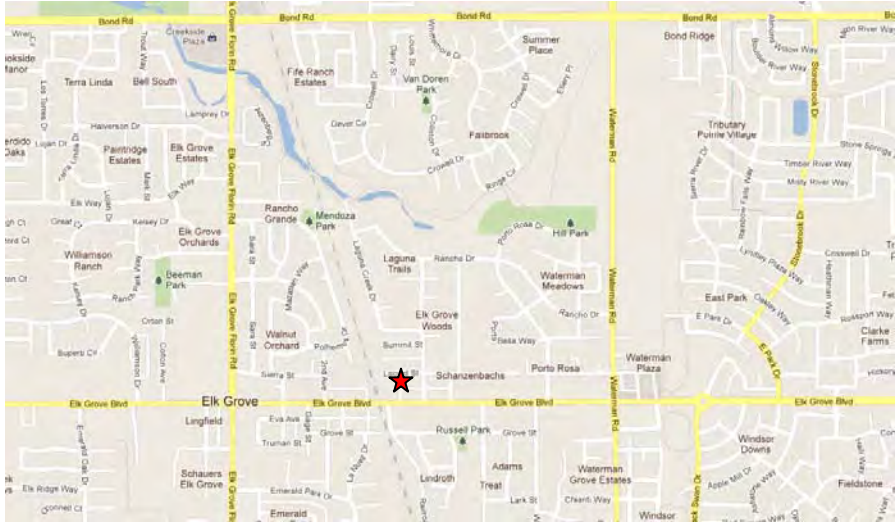
This project installs a generator at the site of Well 1D (School Street Deep Well) or provides a second source of power from SMUD.

JUSTIFICATION

Well 1D is an active, permitted deep well with a depth of 1,025 feet and a flow rate of approximately 1,075 gpm. Well 1D is a significant contributor to the District’s water source capacity. Well 1D currently does not have a source of emergency power in event of a power failure.

PROJECT LOCATION

The address for Well 1D is 9085 Elk Grove Blvd., Elk Grove, California. The assessor’s parcel number is APN 12502530020000.



★ Project Location

SCHEDULE & STATUS

The project is expected to occur in FY 2016/17.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Well 1D Generator	0	0	164	0	0	164
with inflation (3%)	0	0	174	0	0	174

Expenditure breakdown: \$34,000 design costs, \$140,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Supply / Distribution Improvements	174
Total	174

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by an estimated \$1,500 per year as a result of additional labor and maintenance associated with Well 1D generator.

(Estimate breakdown: \$1,000 labor, \$500 maintenance)

USEFUL LIFE: 20 years

Project	RRWTF Tanks & Vessels Recoating
Funding Type	Capital Repair/Replacement Funds
Program	Treatment Improvements
Priority	2
Project No.	TBD



PROJECT DESCRIPTION

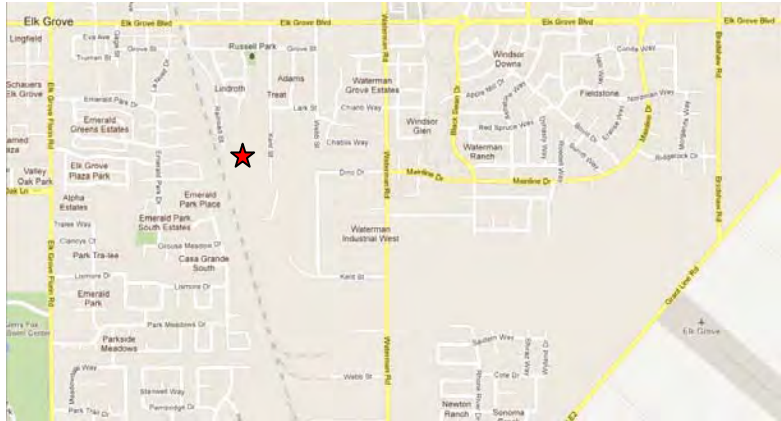
This project recoats the exteriors and interiors of the two 2-million gallon water storage tanks, the 190,000-gallon backwash tank, and six 5000-gallon filter vessels at the Railroad Street Water Treatment Facility (RRWTF).

JUSTIFICATION

The tanks and vessels at the RRWTF were constructed in year 2005. The exterior and interior coatings of these tanks and vessels are nearly ten years old. External corrosion where fragments of the coating have separated from the storage tanks and exposed the base metal was noted during an inspection. Internal corrosion in the storage tanks above the water line and along the roof rafters was noted during inspections performed by divers. Recoating the storage tanks, the backwash tank and filter vessels is necessary to maintain the useful lives of the tanks and vessels. Engineering will look at the potential benefits of protecting the storage tanks and backwash tank with cathodic protection prior to recoating.

PROJECT LOCATION

The address for the RRWTF is 9175 Railroad Street, Elk Grove, California. The assessor’s parcel number is APN 13400500810000.



★ Project Location

SCHEDULE & STATUS

Engineering is scheduled for FY 2015/16 to develop the recoating specifications and assess if cathodic protection should be installed on the storage tanks. Recoating of the two 2-million gallon storage tanks is scheduled for FY 2016/17. Engineering to develop the recoating specifications and assess if cathodic protection should be installed on the backwash tank is scheduled for FY 2017/18. Recoating of the backwash tank and six filter vessels is scheduled for FY 2018/19.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
RRWTF Tanks & Vessels Recoating	0	49	330	32	133	544
with inflation (3%)	0	50	350	35	150	585

Expenditure breakdown: \$85,000 engineering, \$500,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Repair/Replacement Funds	
▪ Treatment Improvements	585
Total	585

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 10 years

Project	Media Replacement Filter Vessels
Funding Type	Capital Repair/Replacement Funds
Program	Treatment Improvements
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

This project replaces the media in the filter vessels of Filter Train B and Filter Train C at the Railroad Street Water Treatment Facility (RRWTF). Each filter train contains two (2) filter vessels; therefore, the total number of filter vessels for media replacement is four (4).

JUSTIFICATION

Filter media typically has a useful life of 10 years. The RRWTF was built in 2005 with three (3) filter trains – Filter Trains A, B, and C. In 2012, Filter Train D was added to the RRWTF. The filter vessels of Filter Trains B and C contain their original media, a proprietary product called Metalease. This project changes out the media in the filter vessels of Filter Trains B and C to GreensandPlus. GreensandPlus is the most commonly used media in the water industry to remove manganese and iron. This project will make the use of GreensandPlus media consistent throughout all filter trains, and provide for needed maintenance on the RRWTF’s water treatment equipment.

PROJECT LOCATION

The address for the RRWTF is 9175 Railroad Street, Elk Grove, California. The assessor’s parcel number is APN 13400500810000.



★ Project Location

SCHEDULE & STATUS

Construction is expected to occur in FY 2014/15.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Media Replacement Filter Vessels	0	44	44	0	0	88
with inflation (3%)	0	45	47	0	0	92

Expenditure breakdown: no design costs, 100% construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Repair/Replacement Funds	
▪ Treatment Improvements	92
Total	92

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 10 years

Project	Chlorine Tank Replacement ClorTec Room
Funding Type	Capital Repair/Replacement Funds
Program	Treatment Improvements
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

This project replaces the 6,000-gallon fiberglass, sodium hypochlorite tank of the ClorTec system at the Railroad Street Water Treatment Facility (RRWTF).

JUSTIFICATION

The resin in the sodium hypochlorite tank is failing. The tank was repaired once already in the summer of 2011 for the same problem. Resin failure in fiberglass tanks storing sodium hypochlorite is a documented problem. It is imperative that the right fiberglass resin be used when manufacturing the tank. If not, studies show that structural damage to the tank can occur in 3 to 5 years. Because of structural concerns, the fiberglass tank requires replacement. In addition, the salt/brine tank will require replacement because it is blocking access to the sodium hypochlorite tank. Modifications to eliminate this problem in the future are part of this project.

PROJECT LOCATION

The address for the RRWTF is 9175 Railroad Street, Elk Grove, California. The assessor’s parcel number is APN 13400500810000.



★ Project Location

SCHEDULE & STATUS

Construction is expected to occur in FY 2015/16.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Chlorine Tank Replacement ChlorTec Room	0	78	0	0	0	78
with inflation (3%)	0	80	0	0	0	80

Expenditure breakdown: no design costs, 100% construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Repair/Replacement Funds	
▪ Treatment Improvements	80
Total	80

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 15 years

Project	Hampton Road Water Treatment Plant Refurbishment
Funding Type	50% Capital Funds - 50% Capital Repair/Replacement Funds
Program	Treatment Improvements
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

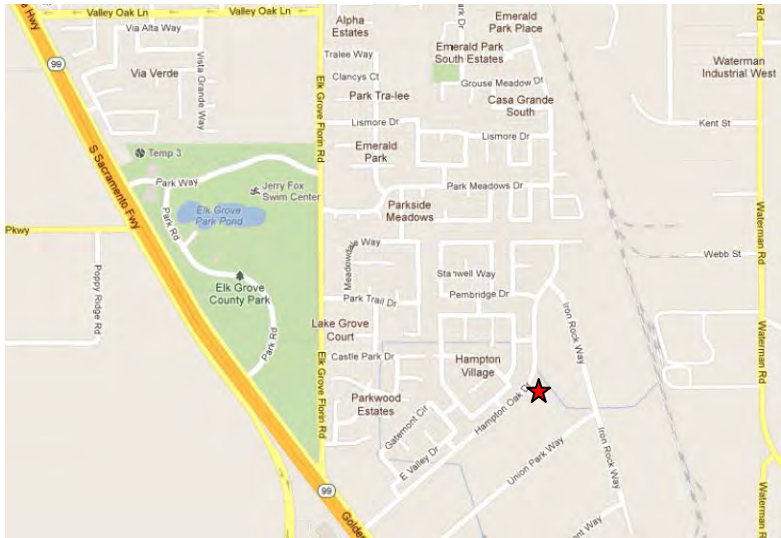
This project refurbishes the Hampton Road Water Treatment Plant to change the plant’s status from non-operational to operational. The project will refurbish the existing treatment system for manganese and iron removal, and associated ancillary equipment.

JUSTIFICATION

The Hampton Road Water Treatment Plant is a significant capital asset that is currently unused. Refurbishment will make the plant operational and provide treatment for a rehabilitated Well 13. Rehabilitating Well 13 as a water source will help the District meet its required source capacity as prescribed by California Department of Public Health (CDPH) regulations.

PROJECT LOCATION

The address for Hampton Road WTP is 10113 Hampton Oak Dr., Elk Grove, California. The assessor’s parcel number is APN 13407100390000.



★ Project Location

SCHEDULE & STATUS

Preliminary engineering and design are in progress and construction is expected to occur in FY 2013/14.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Hampton Road WTP Refurbishment	922	0	0	0	0	922
with inflation (3%)	922	0	0	0	0	922

Expenditure breakdown: \$922,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Treatment Improvements	415
Capital Repair/Replacement Funds	
▪ Treatment Improvements	415

CONNECTION FEES

Capital Improvement Funds	
▪ Treatment Improvements	92
Total	922

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by an estimated \$40,000 per year as a result of additional labor, water quality testing, maintenance and electrical costs associated with the operation of the water treatment plant.

Estimate breakdown: \$17,000 labor, \$8,000 chemical, \$10,000 electrical, \$5,000 maintenance

USEFUL LIFE: 20 years

Project	VFDs – Booster Pumps Railroad Street WTF
Funding Type	Capital Improvement Funds
Program	Treatment Improvements
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

This project adds variable frequency drives (VFDs) to two (2) booster pumps at the Railroad Street Water Treatment Facility (WTF) and reviews control logic relative to the operation of the booster pumps.

JUSTIFICATION

The Railroad Street WTF is equipped with ten (10) booster pumps. The booster pumps maintain water pressures at or near the location of the WTF of approximately 55 psi to 60 psi. As pressure in the system falls, a SCADA signal starts Pump 1 and then Pump 2, if necessary, to maintain pressure. Thereafter, Pump 3 through Pump 10 starts on an as-needed basis to maintain system pressure. Under the current operating practice, the booster pumps run at full speed even during periods of low water demand. Installing VFDs on Pump 1 and Pump 2 would synchronize the performance of these primary pumps to conditions in the field.

PROJECT LOCATION

The address for Railroad Street WTF is 9715 Railroad Street, Elk Grove, California. The assessor’s parcel number is APN 13400500810000.



★ Project Location

SCHEDULE & STATUS

This project is anticipated to be constructed in FY 2014/15.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
VFDs – Booster Pumps Railroad St. WTF	134	0	0	0	0	134
with inflation (3%)	134	0	0	0	0	134

Expenditure breakdown: \$30,000 design, \$104,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Treatment Improvements	121

CONNECTION FEES & CAPACITY CHARGES

Capital Improvement Funds	
▪ Treatment Improvements	13
Total	134

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by an estimated \$13,000 per year as a result of reduced electrical and maintenance costs (soft starts) associated with the project.

(Estimate breakdown: \$12,000 electrical, \$1,000 maintenance)

USEFUL LIFE: 20 years

Project	SCADA Improvements
Funding Type	Capital Improvement Funds
Program	Treatment Improvements
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

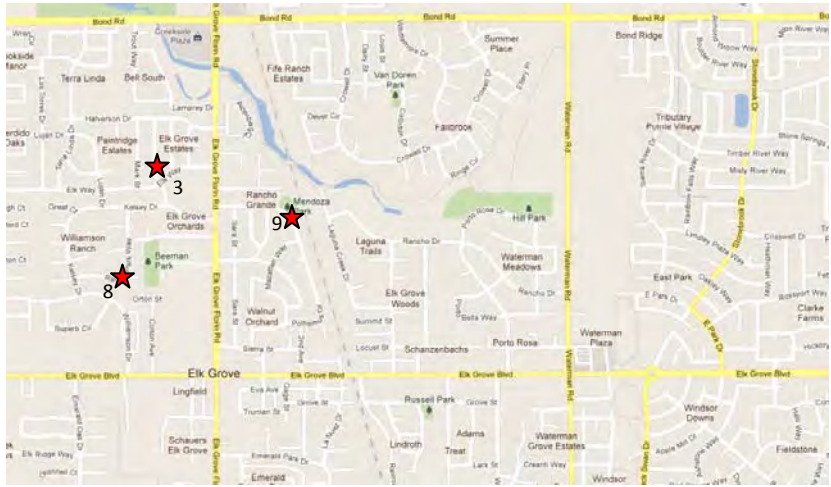
This project makes improvements to the supervisory control and data acquisition (SCADA) system at the District’s shallow wells.

JUSTIFICATION

The SCADA system provides monitoring and control of wells within the District’s water system. Currently, the District’s active shallow wells (Wells 3, 8 and 9) have minimal SCADA functions that monitor flow rates at the wells, static and pumping water levels. SCADA improvements, including intrusion protection, will give treatment operators greater control and flexibility to manage the District’s water system. This project will make SCADA improvements to Well 13 too if Well 13 is returned to service.

PROJECT LOCATION

The project locations are the shallow wells within the District, some of which are shown below, and the Railroad Street Water Treatment Facility.



★ Project Location

SCHEDULE & STATUS

This project is expected to occur in FY 2014/15.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
SCADA Improvements	60	0	0	0	0	60
with inflation (3%)	60	0	0	0	0	60

Expenditure breakdown: \$60,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Treatment Improvements	60
Total	60

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by an estimated \$11,000 per year as a result of reduced labor costs associated with the project.

USEFUL LIFE: 20 years

Project	Truck Replacements
Funding Type	Capital Improvement Funds
Program	Building & Site Improvements/ Vehicles
Priority	3
Project No.	TBD



PROJECT DESCRIPTION

This project replaces aging work trucks with new trucks.

JUSTIFICATION

Truck #107 (a 2004 Chevrolet 1 Ton) is 10-years old with 70,000 city miles on it. Trucks #102 and #108 (both 2004 Chevrolet 1 Tons) are 10-years old and have city mileage ranging from 55,000 to 65,000. Truck #107 is planned to be replaced this fiscal year and Trucks #102 and #108 are planned to be replaced next fiscal year.

PROJECT LOCATION

This work vehicle covers all areas of the Elk Grove Water District.



★ Project Location

SCHEDULE & STATUS

It is planned that Truck #108 will be purchased in FY 2014/15, and Trucks #107 and #102 will be purchased in FY 2015/16.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Truck Replacements	38	77	0	0	0	115
with inflation (3%)	38	79	0	0	0	117

Expenditure breakdown: no design, 100% purchase

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Building & Site Improvements/Vehicles	117
Total	117

OPERATING COST IMPACTS

It is anticipated that the purchase of the replacement trucks will decrease maintenance costs by \$2,500 per year by lowering the incidence of repairs needed to keep older trucks operational.

USEFUL LIFE: 10 years

Project	Administration Building Improvements
Funding Type	Capital Improvement Funds
Program	Building & Site Improvements/ Vehicles
Priority	2
Project No.	TBD



PROJECT DESCRIPTION

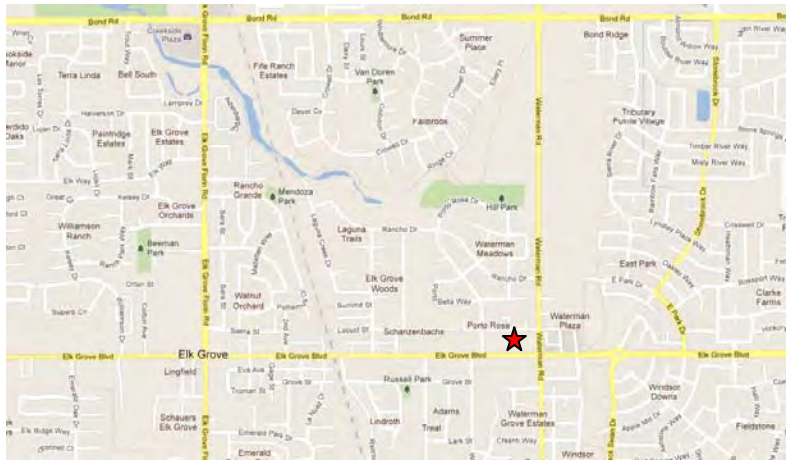
This project upgrades the security of the District’s administration building.

JUSTIFICATION

The District’s administration building lacks security, particularly in the lobby area. This project improves security by adding security features to the lobby area, and to the building in general.

PROJECT LOCATION

The address for the administration building is 9257 Elk Grove Blvd, #A, Elk Grove, California.



★ Project Location

SCHEDULE & STATUS

This project is planned for FY 2014/15.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Administration Building Improvements	50	0	0	0	0	50
with inflation (3%)	50	0	0	0	0	50

Expenditure breakdown: \$50,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Building & Site Improvements/Vehicles	50
Total	50

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 25 years

Project	Security Infrastructure
Funding Type	Capital Repair/Replacement Funds
Program	Building & Site Improvements/ Vehicles
Priority	3
Project No.	TBD



PROJECT DESCRIPTION

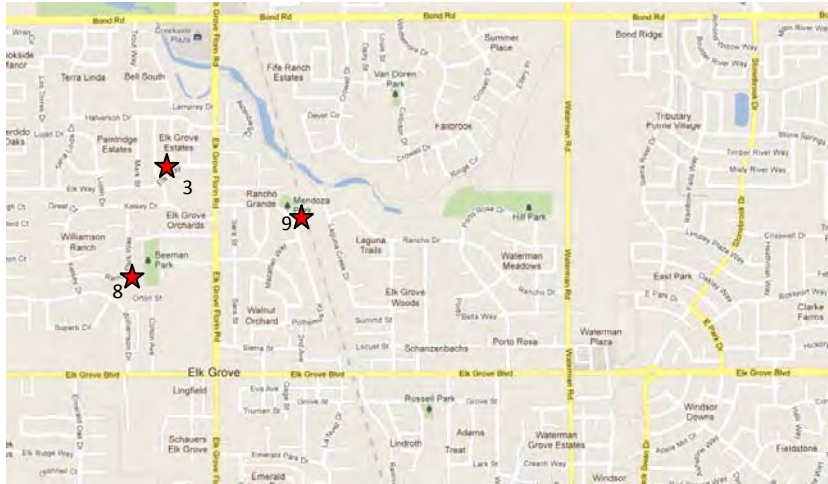
This project improves security of the District’s facilities.

JUSTIFICATION

The District is responsible for providing the public with a safe and reliable water supply. Public water systems are at risk to acts of vandalism and intrusion. The District currently has security cameras and alarm systems at the deep well sites. The cameras are linked to the District’s SCADA system at the Railroad Street Water Treatment Facility. This allows District staff to remotely monitor and record activity at these well sites. The alarm system is currently controlled by an outside security firm. The District would be well served by putting in cameras and alarm systems at the shallow well sites also. It may be economically justifiable to integrate the alarm system as part of the District’s SCADA, and eliminate the need for an outside security firm.

PROJECT LOCATION

The project locations are the shallow wells within the District, some of which are shown below, and the Railroad Street Water Treatment Facility.



★ Project Location

SCHEDULE & STATUS

Engineering, design, and construction are expected to occur in FY 2016/17.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Security Infrastructure	0	0	79	0	0	79
with inflation (3%)	0	0	84	0	0	84

Expenditure breakdown: \$17,000 design, \$67,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Repair/Replacement Funds	
▪ Building & Site Improvements/Vehicles	84
Total	84

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 15 years

Project	Frontage Road & Parking Lot Improvements
Funding Type	Capital Improvement Funds
Program	Building & Site Improvements/ Vehicles
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

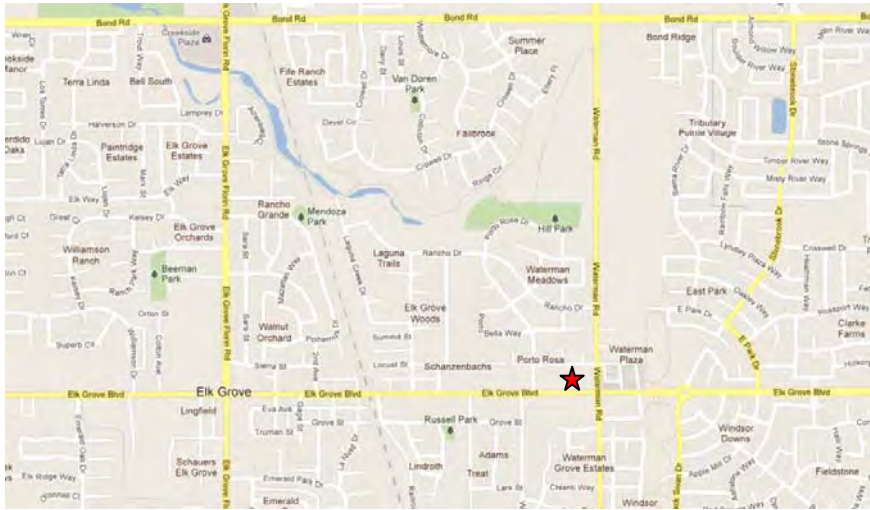
This project improves the frontage and parking lot of the District’s property at the site of the administration building.

JUSTIFICATION

Uneven ground and gravel are the existing surface conditions of the frontage along Elk Grove Blvd. at the District’s administration building. The existing surface conditions do not provide an adequate walking surface and present a safety hazard to pedestrians, particularly disabled people. The existing surface conditions do not provide adequate drainage. The parking lot at the administration building contains numerous fractures in the asphalt concrete pavement, and needs to be striped. The City of Elk Grove is scheduled to make frontage improvements along Elk Grove Blvd. in year 2012. The City has invited the District to use their contracted design and construction services to pay on a pro rata basis for the District’s portion of improvements. Such an arrangement would take advantage of an economy of scale associated with the project.

PROJECT LOCATION

The address for the administration building is 9257 Elk Grove Blvd, #A, Elk Grove, California.



★ Project Location

SCHEDULE & STATUS

This project is expected to occur in FY 2014/15.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Frontage Road & Parking Lot Improvements	60	0	0	0	0	60
with inflation (3%)	60	0	0	0	0	60

Expenditure breakdown: \$10,000 design, \$50,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Building & Site Improvements/Vehicles	60
Total	60

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 10 years (AC paving)
50 years (Frontage improvements)

Project	RRWTF Modular Meeting Room & I.T. Center
Funding Type	Capital Improvement Funds
Program	Building & Site Improvements/ Vehicles
Priority	1
Project No.	TBD



PROJECT DESCRIPTION

This project installs a modular building with meeting room and information technology (I.T.) center behind the Operations and Maintenance building at the Railroad Street Water Treatment Facility (WTF).

JUSTIFICATION

The Railroad Street WTF is where Operations personnel and maintenance activities are based. The Operations and Maintenance (O&M) building at the Railroad Street WTF does not have a room for meetings and training classes. This project provides a building where meetings and training classes for Operations personnel can occur. It also centralizes the I.T. operations and equipment in one location, and in an environment with better control of room temperature.

PROJECT LOCATION

The address for Railroad Street WTF is 9715 Railroad Street, Elk Grove, California. The assessor’s parcel number is APN 13400500810000.



★ Project Location

SCHEDULE & STATUS

This project is expected to occur in FY 2014/15.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
RRWTF Modular Meeting Room & I.T. Center	75	0	0	0	0	75
with inflation (3%)	75	0	0	0	0	75

Expenditure breakdown: \$5,000 design, \$70,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Building & Site Improvements/Vehicles	75
Total	75

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 20 years

Project	Railroad Street WTF Parking Lot Improvements
Funding Type	Capital Improvement Funds
Program	Building & Site Improvements/ Vehicles
Priority	2
Project No.	TBD



PROJECT DESCRIPTION

This project adds a paved employee parking area and bulk materials loading station at the Railroad Street Water Treatment Facility (WTF).

JUSTIFICATION

Due to space constraints at the Railroad Street WTF, employees at the WTF currently park on a vacant lot across the street from the WTF. The existing surface conditions of the lot are a combination of natural ground and compacted aggregate base. The make-shift parking area does not drain well during the rainy season. This project proposes to acquire the vacant parcel and construct a paved, fenced-in parking area. Additionally, a bulk materials loading station will be included in the design making the loading operation safer and more convenient. The current bulk materials loading station is located in tight quarters behind the Operations and Maintenance building of the WTF.

PROJECT LOCATION

The address for Railroad Street WTF is 9715 Railroad Street, Elk Grove, California. The assessor’s parcel number is APN 13400500810000.



★ Project Location

SCHEDULE & STATUS

Construction of this project is expected to occur in FY 2014/15.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Railroad Street WTF Parking Lot Improvements	217	0	0	0	0	217
with inflation (3%)	217	0	0	0	0	217

Expenditure breakdown: \$17,000 engineering, \$200,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Building & Site Improvements/Vehicles	217
Total	217

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 15 years

Project	Well 1D Site Improvements
Funding Type	Capital Improvement Funds
Program	Building & Site Improvements/ Vehicles
Priority	5
Project No.	TBD



PROJECT DESCRIPTION

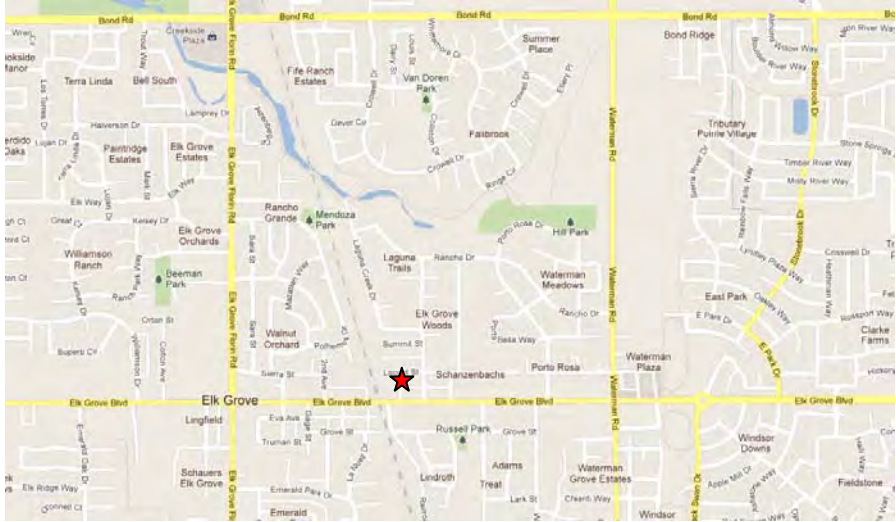
This project makes site improvements at the location for Well 1D (School Street Deep Well) by paving the grounds with asphalt concrete.

JUSTIFICATION

Well 1D was constructed in 2008 and is located in the historic area of downtown Elk Grove. The site is adjacent to the old, elevated water tank. Well 1D is housed in a brick building built on a concrete slab. The ground around the brick building is a combination of native earth and aggregate base, graded for drainage to existing storm water catch basins. Truck traffic has caused rutting of the ground around the building.

PROJECT LOCATION

The address for Well 1D is 9085 Elk Grove Blvd., Elk Grove, California. The assessor’s parcel number is APN 12502530020000.



★ Project Location

SCHEDULE & STATUS

Engineering, design, and construction are planned for FY 2016/17.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Well 1D Site Improvements	0	0	26	0	0	26
with inflation (3%)	0	0	28	0	0	28

Expenditure breakdown: \$10,000 design & permits, \$18,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Improvement Funds	
▪ Building & Site Improvements/Vehicles	28
Total	28

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 15 years

Project	Facilities Repairs
Funding Type	Capital Repair/Replacement Funds
Program	Building & Site Improvements/ Vehicles
Priority	3
Project No.	TBD



PROJECT DESCRIPTION

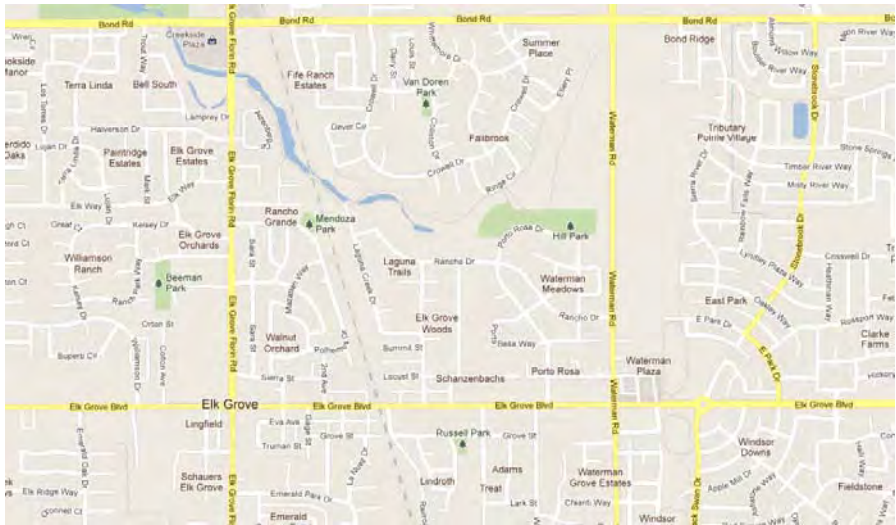
This project repairs and replaces miscellaneous items related to the District’s facilities.

JUSTIFICATION

The facilities repairs project provides for regular maintenance and replacement of items such as roofs, siding, painting, fencing, etc. on District facilities. By putting the facilities repairs project in place, the District spreads the capital costs associated with maintaining its facilities’ assets.

PROJECT LOCATION

The District’s facilities include the District Office, , Railroad Street Water Treatment Facility, Hampton Road Water Treatment Plant, and all the well sites. (Locations are not shown on the map below.)



★ Project Location

SCHEDULE & STATUS

This project is intended to be reoccurring on an annual basis.

EXPENDITURE SCHEDULE

(in thousands \$)

Project	Planned Expenditures					Total
	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Roof Replacements – District Buildings	20	20	20	20	20	100
with inflation (3%)	20	21	21	22	23	107

Expenditure breakdown: no design, 100% construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Capital Repair/Replacement Funds	
▪ Building & Site Improvements/Vehicles	107
Total	107

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 15 years

Project	Unforeseen Capital Projects
Funding Type	Unforeseen Capital Projects Funds
Program	Unforeseen Capital Projects
Priority	N/A
Project No.	TBD



PROJECT DESCRIPTION

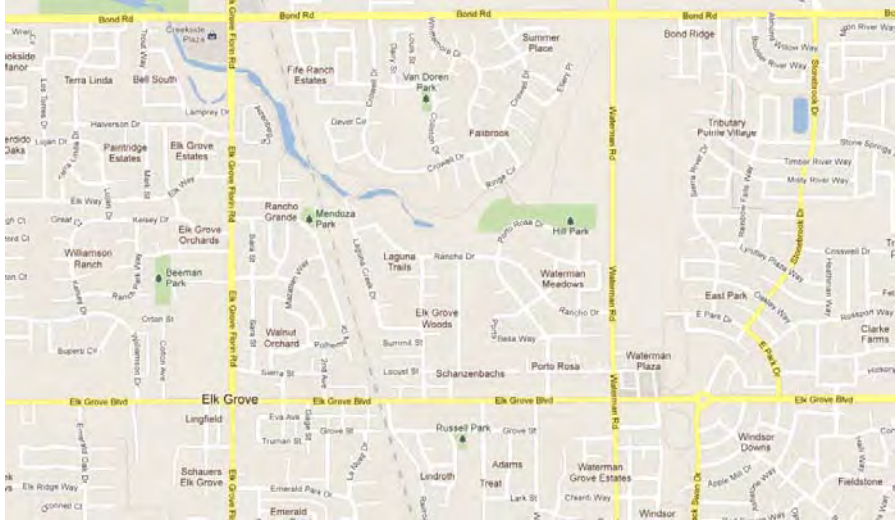
This project provides reserve funds for unforeseen future capital projects.

JUSTIFICATION

The purpose of the capital improvement program is to plan and fund capital projects in advance of the projects’ needed design and construction date. The unforeseen capital projects program provides the Elk Grove Water District with a safety net for funding future capital projects that are not included in the CIP planning process. In some cases, these unforeseen capital projects may be the result of emergencies that have occurred in the district.

PROJECT LOCATION

Project locations are unknown at this time and therefore not shown.



★ Project Location

SCHEDULE & STATUS

Engineering, design, and construction associated with the unforeseen capital projects program are unknown.

EXPENDITURE SCHEDULE

(in thousands \$)

	Planned Expenditures					Total
Project	FY14/15	FY15/16	FY16/17	FY17/18	FY18/19	
Unforeseen Capital Projects	100	150	200	200	200	850
no inflation used	100	150	200	200	200	850

Expenditure breakdown: \$100,000 design, \$750,000 construction

FUNDING SOURCES

(in thousands \$)

USER FEES

Unforeseen Capital Projects Funds	
▪ Unforeseen Capital Projects	850
Total	850

OPERATING COST IMPACTS

It is not know if the completion of projects associated with the unforeseen capital projects program will increase or decrease operating costs.

USEFUL LIFE: Unknown

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APPENDIX A – PROJECT LIST BY PRIORITY

Priority	PROJECT NAME	Priority Score
1	Hampton Road WTP Refurbishment <i>pg. 48</i>	95
1	Chlorine Tank Replacement - ClorTec Room <i>pg. 46</i>	94
1	Hydropneumatic Tanks Refurbishments <i>pg. 38</i>	92
1	Well Rehabilitation Program (one per year) <i>pg. 30</i>	91
1	SCADA Improvements <i>pg. 52</i>	90
1	Melrose Ave Water Main <i>pg. 14</i>	87
1	Wharf Hydrant Replacements <i>pg. 20</i>	83
1	Well 1D Generator <i>pg. 40</i>	83
1	Pumped-to-Waste Infrastructure - Deep Wells <i>pg. 24</i>	82
1	Well 1D Pump Conversion <i>pg. 32</i>	82
1	Media Replacement Filter Vessels <i>pg. 44</i>	82
1	Water Meter Retrofit Program <i>pg. 10</i>	81
1	VFDs - Booster Pumps Railroad Street WTF <i>pg. 50</i>	81
1	Frontage Road & Parking Lot Improvements <i>pg. 60</i>	81
1	RRWTF Modular Meeting Room & I.T. Center <i>pg. 62</i>	80
2	Bullhead Replacements <i>pg. 18</i>	79
2	RRWTF Tanks & Vessels Recoating <i>pg. 42</i>	79
2	Railroad Corridor Water Line <i>pg. 34</i>	74
2	Water Meter Replacement Program <i>pg. 12</i>	73
2	Administration Building Improvements <i>pg. 56</i>	73
2	Railroad Street WTF Parking Lot Improvements <i>pg. 64</i>	71
3	Security Infrastructure <i>pg. 58</i>	69
3	Water Mains (4") Replacement <i>pg. 28</i>	63
3	Backyard Water Mains/Services Replacement <i>pg. 36</i>	63
3	Facilities Repairs <i>pg. 68</i>	61
3	Truck Replacements <i>pg. 54</i>	60
4	Elk Grove Blvd Water Main <i>pg. 16</i>	56
4	8" Water Line Replacement Waterman Rd. <i>pg. 22</i>	52
4	Automatic Meter Reader Feasibility Study <i>pg. 26</i>	45
5	Well 1D Site Improvements <i>pg. 66</i>	16

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APPENDIX B – CIP PRIORITY RANKING CRITERIA SCORE SHEETS

▪ **FY 2013-2017 WATER SUPPLY / TREATMENT IMPROVEMENT PROJECTS**

- Water Meter Retrofit Program
- Water Meter Replacement Program
- Melrose Ave. Water Main
- Elk Grove Blvd. Water Main
- Bullhead Replacements
- Wharf Hydrant Replacements
- 8" Water Line Replacement Waterman Rd.
- Pumped-to-Waste Infrastructure – Deep Wells
- Automatic Meter Reader Feasibility Study
- Water Mains (4") Replacement
- Well Rehabilitation Program (one per year)
- Well 1D Pump Conversion
- Railroad Corridor Water Line
- Backyard Water Mains/Services Replacement
- Hydropneumatic Tanks Refurbishment
- Well 1D Generator
- RRWTF Tanks & Vessels Recoating
- Media Replacement Filter Vessels
- Chlorine Tank Replacement – ClorTec Room
- Hampton Road WTP Refurbishment
- VFDs – Booster Pumps Railroad Street WTF
- SCADA Improvements

▪ **FY 2013-2017 BUILDING & SITE IMPROVEMENT/VEHICLES PROJECTS**

- Truck Replacements
- Administration Building Improvements
- Security Infrastructure
- Frontage Road & Parking Lot Improvements
- RRWTF Modular Meeting Room & I.T. Center
- Railroad Street WTF Parking Lot Improvements
- Well 1D Site Improvements
- Facilities Repairs

FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

PRIORITY SCORE = **81**

RAW SCORE = **65**

Water Meter Retrofit Program

PRIMARY OBJECTIVE (75%)	<p>Water Supply (E 2) Impact = H ; Probability = H 58.13</p> <p>A <input checked="" type="checkbox"/> H+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)</p> <p>B <input checked="" type="checkbox"/> H Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)</p> <p>C <input checked="" type="checkbox"/> L Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))</p>
SOCIAL FACTORS (7.5%)	<p>Social Factor - Check if applicable 2.50</p> <p><input type="checkbox"/> Promotes Emergency Recovery</p> <p>Positive Interaction (E 4) - Check all that apply</p> <p><input checked="" type="checkbox"/> With the Community <input type="checkbox"/> With other agencies</p>
ENVIRONMENTAL FACTORS (7.5%)	<p>Water Quality (E 3.2) - Check if applicable 1.88</p> <p><input type="checkbox"/> Promotes drinking water quality</p> <p>Natural Resources Sustainability (E 3.2) - Check all that apply</p> <p><input checked="" type="checkbox"/> Promotes water use efficiency <input type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features</p> <p><input type="checkbox"/> Promotes groundwater basin management</p>
ECONOMIC FACTORS (10%)	<p>Lifecycle costs are minimized - Check One 2.00</p> <p><input type="checkbox"/> Annual cost savings of more than \$50,000</p> <p><input checked="" type="checkbox"/> Annual cost savings of \$10,000 to \$50,000</p> <p><input type="checkbox"/> Annual cost savings of less than \$10,000</p> <p>Funding Available from Other Agencies - Check One</p> <p><input type="checkbox"/> Over 50% of project costs available from other agencies</p> <p><input type="checkbox"/> 26% to 50% of project costs available from other agencies</p> <p><input type="checkbox"/> Up to 25% of project costs available from other agencies</p>

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *Water Meter Retrofit*

PRIORITY SCORE =
RAW SCORE = 100

Impact = ; Probability = 75.00 <-- Totals from

Water Supply (E 2)
Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure

Criterion A: Protecting Existing Assets
Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 42	M+ 30
	Med.	H- 42	M+ 30	M- 17
	Low	M+ 30	M- 17	L 5.5

Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.

Impact:
High - Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. *2025 State Reg H.*
Medium - Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup
Low - Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.

Probability of impact occurring:
High - Likely to almost certain 65% - 100% *certainty law will be enforced.*
Medium - Possible 35% - 65%
Low - Unlikely or rare 0% - 35%

H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Improving Existing Assets
Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".

Definition:
Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water, or add redundancy so infrastructure can be taken off-line for maintenance].

Effect of Project Impact:
High (H) - Provides benefits for more than 30,000 customers. *— affects all customers*
Medium (M) - Provides benefits for 10,000 to 30,000 customers.
Low (L) - Provides benefits for less than 10,000 customers.

H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Project Urgency
Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".

Definition:
Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.

Project Urgency:
Immediate Need (I) - Project is needed to meet current demands or regulations within the next three (3) years.
Short-Term Need (S) - Project is needed to meet demands or regulations within the next three to five (3 - 5) years.
Long-Term Need (L) - Project is needed to meet demands beyond the next five (5) years. *←*

I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

WATER SUPPLY OBJECTIVE
(75% of Raw Score)
This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 73
RAW SCORE = 58

Water Meter Replacement Program

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = M		51.75
	A	<input checked="" type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input type="checkbox"/> L Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		2.50
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input type="checkbox"/>	With other agencies
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input checked="" type="checkbox"/>	Promotes water use efficiency	<input type="checkbox"/>	Promotes energy efficiency or incorporates energy efficient features
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		2.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input checked="" type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *Water Meter Replacement*

PRIORITY SCORE =
RAW SCORE = 100

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																							
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2"></th> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> </thead> <tbody> <tr> <th rowspan="3" style="writing-mode: vertical-rl; transform: rotate(180deg);">Impact</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">High</th> <td style="text-align: center;">H+ 55</td> <td style="text-align: center; border: 2px solid red;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Med.</th> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Low</th> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </tbody> </table> <p style="margin-left: 20px;">Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p style="margin-left: 20px;">Impact: High - Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <i>- District's potential to lose revenue.</i> Medium - Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup Low - Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p style="margin-left: 20px;">Probability of impact occurring: High - Likely to almost certain 65% - 100% Medium - Possible 35% - 65% <i>← est. likelihood.</i> Low - Unlikely or rare 0% - 35%</p> <p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>			Probability					High	Med.	Low	Impact	High	H+ 55	H- 42	M+ 30	Med.	H- 42	M+ 30	M- 17	Low	M+ 30	M- 17	L 5.5
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Low		M+ 30	M- 17	L 5.5																				
<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: High (H) - Provides benefits for more than 30,000 customers. Medium (M) - Provides benefits for 10,000 to 30,000 customers. Low (L) - Provides benefits for less than 10,000 customers. <i>← 4500 meter replacements planned.</i></p> <p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																								
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: Immediate Need (I) - Project is needed to meet current demands or regulations within the next three (3) years. <i>←</i> Short-Term Need (S) - Project is needed to meet demands or regulations within the next three to five (3 - 5) years. Long-Term Need (L) - Project is needed to meet demands beyond the next five (5) years.</p> <p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																								

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 87
RAW SCORE = 70

Melrose Ave. Water Main

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = H		61.50
	A	<input checked="" type="checkbox"/> H+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input type="checkbox"/> L Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
	C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))	
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		2.50
	<input type="checkbox"/> Promotes Emergency Recovery		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		5.63
	<input checked="" type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
	<input checked="" type="checkbox"/> Promotes water use efficiency	<input checked="" type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features	
	<input type="checkbox"/> Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
	<input type="checkbox"/>	26% to 50% of project costs available from other agencies	
	<input type="checkbox"/>	Up to 25% of project costs available from other agencies	

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *Melrose Ave. Water Main*

PRIORITY SCORE =
RAW SCORE = 100

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 ← Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																																				
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2"></th> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> </thead> <tbody> <tr> <th rowspan="3" style="writing-mode: vertical-rl; transform: rotate(180deg);">Impact</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">High</th> <td style="text-align: center;"> <table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">H+</td> <td style="text-align: center;">H-</td> <td style="text-align: center;">M+</td> </tr> <tr> <td style="text-align: center;">55</td> <td style="text-align: center;">42</td> <td style="text-align: center;">30</td> </tr> </table> </td> <td style="text-align: center;">H-</td> <td style="text-align: center;">M+</td> </tr> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Med.</th> <td style="text-align: center;">H-</td> <td style="text-align: center;">M+</td> <td style="text-align: center;">M-</td> </tr> <tr> <td style="text-align: center;">42</td> <td style="text-align: center;">30</td> <td style="text-align: center;">17</td> </tr> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Low</th> <td style="text-align: center;">M+</td> <td style="text-align: center;">M-</td> <td style="text-align: center;">L</td> </tr> <tr> <td style="text-align: center;">30</td> <td style="text-align: center;">17</td> <td style="text-align: center;">5.5</td> </tr> </tbody> </table>			Probability					High	Med.	Low	Impact	High	<table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">H+</td> <td style="text-align: center;">H-</td> <td style="text-align: center;">M+</td> </tr> <tr> <td style="text-align: center;">55</td> <td style="text-align: center;">42</td> <td style="text-align: center;">30</td> </tr> </table>	H+	H-	M+	55	42	30	H-	M+	Med.	H-	M+	M-	42	30	17	Low	M+	M-	L	30	17	5.5	<p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <i>- Proj. needed to fully meter District.</i></p> <p>Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup</p> <p>Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: High – Likely to almost certain 65% – 100% <i>← 100% needed to fully meter.</i></p> <p>Medium – Possible 35% – 65%</p> <p>Low – Unlikely or rare 0% – 35%</p>
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<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: High (H) – Provides benefits for more than 30,000 customers. Medium (M) – Provides benefits for 10,000 to 30,000 customers. Low (L) – Provides benefits for less than 10,000 customers. <i>← Customers only on Melrose</i></p> <p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																																					
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years. <i>← District committed to be fully metered by FY14</i></p> <p>Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years.</p> <p>Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.</p> <p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																																					

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 56
RAW SCORE = 45

Elk Grove Blvd. Water Main

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = M		34.50
	A	<input checked="" type="checkbox"/> M+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input type="checkbox"/> L Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> S Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/> With other agencies	
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		5.63
	<input checked="" type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input checked="" type="checkbox"/>	Promotes water use efficiency	<input checked="" type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features	
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS

Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Elk Grove Blvd. Main*

	Water Supply (E 2)	Impact =	Probability =	75.00	<-- Totals from	
WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.	Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure					
	Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:					
	Impact	Probability	High	Med.	Low	
	High	H+	55	H-	42	M+
Med.	H-	42	M+	30	M-	17
Low	M+	30	M-	17	L	5.5
Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.						
Impact: High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards, but will be operating at a higher level of risk, potentially relying on redundancy or backup, or does not meet regulatory requirements. Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup <i>meters in backyard are inaccessible due diff to access and fed by an old #1 main.</i>						
Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.						
Probability of impact occurring: High – Likely to almost certain 65% – 100% Medium – Possible 35% – 65% ← Low – Unlikely or rare 0% – 35%						
<input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.						
Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".						
Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].						
Effect of Project Impact: High (H) – Provides benefits for more than 30,000 customers. Medium (M) – Provides benefits for 10,000 to 30,000 customers. Low (L) – Provides benefits for less than 10,000 customers. ← <i>customers on south side EG Blvd. between Kent & RR tracks.</i>						
<input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.						
Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".						
Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.						
Project Urgency: Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years. Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3-5) years. ← <i>Planned for 5 yrs. out.</i> Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.						
<input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.						

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 79
RAW SCORE = 64

Bullhead Replacements

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = H		58.50
	A	<input checked="" type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/> Promotes Emergency Recovery		
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/> With the Community	<input checked="" type="checkbox"/> With other agencies		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		0.00
	<input type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/> Promotes water use efficiency	<input type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features		
<input type="checkbox"/> Promotes groundwater basin management			
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000		
	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000		
	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/> Over 50% of project costs available from other agencies		
<input type="checkbox"/> 26% to 50% of project costs available from other agencies			
<input type="checkbox"/> Up to 25% of project costs available from other agencies			

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *Bullhead Replacements*

PRIORITY SCORE =
RAW SCORE = 100

Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from

Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure

Criterion A: Protecting Existing Assets

Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 42	M+ 30
	Med.	H- 42	M+ 30	M- 17
	Low	M+ 30	M- 17	L 5.5

Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.

Impact:

High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements.

Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup

Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.

Probability of impact occurring:

High – Likely to almost certain 65% – 100%

Medium – Possible 35% – 65%

Low – Unlikely or rare 0% – 35%

This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.

WATER SUPPLY OBJECTIVE

(75% of Raw Score)

H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Improving Existing Assets

Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".

Definition:

Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].

Effect of Project Impact:

High (H) – Provides benefits for more than 30,000 customers.

Medium (M) – Provides benefits for 10,000 to 30,000 customers.

Low (L) – Provides benefits for less than 10,000 customers.

H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Project Urgency

Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".

Definition:

Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.

Project Urgency:

Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years.

Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years.

Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.

I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 83
RAW SCORE = 66

Wharf Hydrant Replacements

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = H		58.50
	A	<input checked="" type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		7.50
	<input checked="" type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/> With other agencies	
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		0.00
	<input type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features	
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Wharf Hydrant Replacements*

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																							
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score)</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> </thead> <tbody> <tr> <td rowspan="3" style="vertical-align: middle; text-align: center;">Impact</td> <td style="text-align: center;">High</td> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> <tr> <td style="text-align: center;">Med.</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <td style="text-align: center;">Low</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </tbody> </table> <p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: <u>High</u> – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <u>Medium</u> – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup <i>per discussions w/ CGP Fire.</i> <u>Low</u> – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: <u>High</u> – Likely to almost certain 65% – 100% ← <i>Highly likely.</i> <u>Medium</u> – Possible 35% – 65% <u>Low</u> – Unlikely or rare 0% – 35%</p> <p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>			Probability					High	Med.	Low	Impact	High	H+ 55	H- 42	M+ 30	Med.	H- 42	M+ 30	M- 17	Low	M+ 30	M- 17	L 5.5
			Probability																					
			High	Med.	Low																			
	Impact	High	H+ 55	H- 42	M+ 30																			
Med.		H- 42	M+ 30	M- 17																				
Low		M+ 30	M- 17	L 5.5																				
<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: <u>High (H)</u> – Provides benefits for more than 30,000 customers. <u>Medium (M)</u> – Provides benefits for 10,000 to 30,000 customers. ← <u>Low (L)</u> – Provides benefits for less than 10,000 customers.</p> <p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																								
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: <u>Immediate Need (I)</u> – Project is needed to meet current demands or regulations within the next three (3) years. ← <u>Short-Term Need (S)</u> – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. <u>Long-Term Need (L)</u> – Project is needed to meet demands beyond the next five (5) years.</p> <p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																								

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 52

8" Water Line Replacement Waterman Rd.

RAW SCORE = 41

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = L ; Probability = H		34.50
	A	<input checked="" type="checkbox"/> M+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input type="checkbox"/> L Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> S Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/> Promotes Emergency Recovery		
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/> With the Community	<input checked="" type="checkbox"/> With other agencies		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/> Promotes water use efficiency	<input checked="" type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features		
<input type="checkbox"/> Promotes groundwater basin management			
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000		
	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000		
	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/> Over 50% of project costs available from other agencies		
<input type="checkbox"/> 26% to 50% of project costs available from other agencies			
<input type="checkbox"/> Up to 25% of project costs available from other agencies			

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *8" Water Line Replacement Waterman*

PRIORITY SCORE =
RAW SCORE = 100

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																							
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> </thead> <tbody> <tr> <td rowspan="3" style="text-align: center; vertical-align: middle;">Impact</td> <td style="text-align: center;">High</td> <td style="border: 1px solid black; text-align: center;">H+ 55</td> <td style="border: 1px solid black; text-align: center;">H- 42</td> <td style="border: 1px solid black; text-align: center;">M+ 30</td> </tr> <tr> <td style="text-align: center;">Med.</td> <td style="border: 1px solid black; text-align: center;">H- 42</td> <td style="border: 1px solid black; text-align: center;">M+ 30</td> <td style="border: 1px solid black; text-align: center;">M- 17</td> </tr> <tr> <td style="text-align: center;">Low</td> <td style="border: 1px solid black; text-align: center;">M+ 30</td> <td style="border: 1px solid black; text-align: center;">M- 17</td> <td style="border: 1px solid black; text-align: center;">L 5.5</td> </tr> </tbody> </table> <p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. <u>However, the system will advance to a higher state of risk, or the project is related to a backup system.</u> <i>due to undeposited water system to a business park industrial</i></p> <p>Probability of impact occurring: High – Likely to almost certain 65% – 100% ← Medium – Possible 35% – 65% Low – Unlikely or rare 0% – 35%</p> <p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>			Probability					High	Med.	Low	Impact	High	H+ 55	H- 42	M+ 30	Med.	H- 42	M+ 30	M- 17	Low	M+ 30	M- 17	L 5.5
			Probability																					
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Med.		H- 42	M+ 30	M- 17																				
Low		M+ 30	M- 17	L 5.5																				
<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: High (H) – Provides benefits for more than 30,000 customers. Medium (M) – Provides benefits for 10,000 to 30,000 customers. Low (L) – Provides benefits for less than 10,000 customers. ←</p> <p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																								
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years. Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. ← Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.</p> <p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																								

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 82

RAW SCORE = 65

Pumped-to-Waste Infrastructure - Deep Wells

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = M		58.50
	A	<input checked="" type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/> With other agencies	
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features	
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *Pumped-to-Waste Infrastructure - Deep Wells* PRIORITY SCORE =
RAW SCORE = 100

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 ← Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																							
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2"></th> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> </thead> <tbody> <tr> <th rowspan="3" style="writing-mode: vertical-rl; transform: rotate(180deg);">Impact</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">High</th> <td style="text-align: center;">H+ 55</td> <td style="text-align: center; border: 2px solid red;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Med.</th> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Low</th> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </tbody> </table> <p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or <u>does not meet regulatory requirements.</u> <i>Calif waterworks standards recommend first well flush is pumped to waste.</i> Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: High – Likely to almost certain 65% – 100% Medium – Possible 35% – 65% ← Low – Unlikely or rare 0% – 35%</p> <p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>			Probability					High	Med.	Low	Impact	High	H+ 55	H- 42	M+ 30	Med.	H- 42	M+ 30	M- 17	Low	M+ 30	M- 17	L 5.5
			Probability																					
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<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: High (H) – Provides benefits for more than 30,000 customers. Medium (M) – Provides benefits for 10,000 to 30,000 customers. ← <i>Affects Service Area #1 only</i> Low (L) – Provides benefits for less than 10,000 customers.</p> <p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																								
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years. ← Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.</p> <p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																								

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 45
RAW SCORE = 36

Automatic Meter Reader Feasibility Study

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = L ; Probability = L		21.00
	A	<input type="checkbox"/> L Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input type="checkbox"/> H Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> L Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		7.50
	<input checked="" type="checkbox"/> X	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/> X	With the Community	<input checked="" type="checkbox"/> X With other agencies	
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		7.50
	<input checked="" type="checkbox"/> X	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input checked="" type="checkbox"/> X	Promotes water use efficiency	<input checked="" type="checkbox"/> X Promotes energy efficiency or incorporates energy efficient features	
<input checked="" type="checkbox"/> X	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *Automatic Meter Reader Feasibility Study*

PRIORITY SCORE =
RAW SCORE = 100

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 ← Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																							
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td colspan="2"></td> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <td colspan="2"></td> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> <tr> <th rowspan="3" style="writing-mode: vertical-rl; transform: rotate(180deg);">Impact</th> <th style="text-align: center;">High</th> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> <tr> <th style="text-align: center;">Med.</th> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <th style="text-align: center;">Low</th> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </table> <p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: <u>High</u> – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <u>Medium</u> – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup <u>Low</u> – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system. <i>This is a study only</i></p> <p>Probability of impact occurring: <u>High</u> – Likely to almost certain 65% – 100% <u>Medium</u> – Possible 35% – 65% <u>Low</u> – Unlikely or rare 0% – 35% <i>- Study for purpose of providing direction.</i></p> <p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>			Probability					High	Med.	Low	Impact	High	H+ 55	H- 42	M+ 30	Med.	H- 42	M+ 30	M- 17	Low	M+ 30	M- 17	L 5.5
			Probability																					
			High	Med.	Low																			
	Impact	High	H+ 55	H- 42	M+ 30																			
Med.		H- 42	M+ 30	M- 17																				
Low		M+ 30	M- 17	L 5.5																				
<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: <u>High (H)</u> – Provides benefits for more than 30,000 customers. <i>- AMR/AMI would affect all customers.</i> <u>Medium (M)</u> – Provides benefits for 10,000 to 30,000 customers. <u>Low (L)</u> – Provides benefits for less than 10,000 customers.</p> <p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																								
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: <u>Immediate Need (I)</u> – Project is needed to meet current demands or regulations within the next three (3) years. <u>Short-Term Need (S)</u> – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. <u>Long-Term Need (L)</u> – Project is needed to meet demands beyond the next five (5) years. <i>- Potential CIP, AMR/AMI not planned for at least 5 yrs.</i></p> <p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																								

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 63
RAW SCORE = 50

Water Mains (4") Replacement

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = M		41.25
	A	<input checked="" type="checkbox"/> M+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input checked="" type="checkbox"/> S Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/>	With other agencies
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		3.75
	<input checked="" type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input checked="" type="checkbox"/>	Promotes energy efficiency or incorporates energy efficient features
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *Water Mains (4") Replacement*

PRIORITY SCORE =
RAW SCORE = 100

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																							
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2"></th> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> </thead> <tbody> <tr> <th rowspan="3" style="writing-mode: vertical-rl; transform: rotate(180deg);">Impact</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">High</th> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Med.</th> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Low</th> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </tbody> </table> <p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: <u>High</u> – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <u>Medium</u> – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup <i>4" mains are undersized for fire protection</i> <u>Low</u> – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: <u>High</u> – Likely to almost certain 65% – 100% <u>Medium</u> – Possible 35% – 65% ← <u>Low</u> – Unlikely or rare 0% – 35%</p> <p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>			Probability					High	Med.	Low	Impact	High	H+ 55	H- 42	M+ 30	Med.	H- 42	M+ 30	M- 17	Low	M+ 30	M- 17	L 5.5
			Probability																					
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Med.		H- 42	M+ 30	M- 17																				
Low		M+ 30	M- 17	L 5.5																				
<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: <u>High (H)</u> – Provides benefits for more than 30,000 customers. <u>Medium (M)</u> – Provides benefits for 10,000 to 30,000 customers. ← <i>Affects areas of Service Area</i> <u>Low (L)</u> – Provides benefits for less than 10,000 customers.</p> <p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																								
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: <u>Immediate Need (I)</u> – Project is needed to meet current demands or regulations within the next three (3) years. <u>Short-Term Need (S)</u> – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. ← <u>Long-Term Need (L)</u> – Project is needed to meet demands beyond the next five (5) years.</p> <p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																								

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 91

RAW SCORE = 73

Well Rehabilitation Program (one per year)

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = H		68.25
	A	<input checked="" type="checkbox"/> H+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		2.50
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input type="checkbox"/>	With other agencies
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input type="checkbox"/>	Promotes energy efficiency or incorporates energy efficient features
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *Well Rehab Program*

PRIORITY SCORE =
RAW SCORE = 100

Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from

Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure

Criterion A: Protecting Existing Assets

Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 42	M+ 30
	Med.	H- 42	M+ 30	M- 17
	Low	M+ 30	M- 17	L 5.5

Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.

Impact:

High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. *Well rehabs important to maintain production and water quality compliant w/ DPH req.*

Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup

Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.

Probability of impact occurring:

High – Likely to almost certain 65% – 100%

Prod. & water quality will decline w/o rehabs.

Medium – Possible 35% – 65%

Low – Unlikely or rare 0% – 35%

H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Improving Existing Assets

Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".

Definition:

Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].

Effect of Project Impact:

High (H) – Provides benefits for more than 30,000 customers.

Medium (M) – Provides benefits for 10,000 to 30,000 customers. *Affects Service Area 1 customers.*

Low (L) – Provides benefits for less than 10,000 customers.

H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Project Urgency

Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".

Definition:

Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.

Project Urgency:

Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years. *←*

Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years.

Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.

I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

WATER SUPPLY OBJECTIVE (75% of Raw Score)
This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 82
RAW SCORE = 65

Well 1D Pump Conversion

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = M		58.50
	A	<input checked="" type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
	C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))	
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/> Promotes Emergency Recovery		
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/> With the Community	<input checked="" type="checkbox"/> With other agencies		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/> Promotes water use efficiency	<input type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features		
<input type="checkbox"/> Promotes groundwater basin management			
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000		
	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000		
	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/> Over 50% of project costs available from other agencies		
<input type="checkbox"/> 26% to 50% of project costs available from other agencies			
<input type="checkbox"/> Up to 25% of project costs available from other agencies			

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS

Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Well ID Pump Conversion*

	Water Supply (E 2)	Impact = ; Probability =	75.00	<-- Totals from										
WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.	Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure													
	Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:													
	Probability High Med. Low	Impact High Med. Low	<table border="1" style="margin: auto;"> <tr> <td style="padding: 5px;">H+ 55</td> <td style="padding: 5px;">H- 42</td> <td style="padding: 5px;">M+ 30</td> </tr> <tr> <td style="padding: 5px;">H- 42</td> <td style="padding: 5px;">M+ 30</td> <td style="padding: 5px;">M- 17</td> </tr> <tr> <td style="padding: 5px;">M+ 30</td> <td style="padding: 5px;">M- 17</td> <td style="padding: 5px;">L 5.5</td> </tr> </table>	H+ 55	H- 42	M+ 30	H- 42	M+ 30	M- 17	M+ 30	M- 17	L 5.5	<p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <i>CDPH no longer wants oil-based tube systems due to bacteria problems</i></p> <p>Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup</p> <p>Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: High – Likely to almost certain 65% – 100% <i>prime</i> Medium – Possible 35% – 65% <i>← Well ID pump is last on in line up and therefore is not often used.</i> Low – Unlikely or rare 0% – 35%</p>	
	H+ 55	H- 42	M+ 30											
H- 42	M+ 30	M- 17												
M+ 30	M- 17	L 5.5												
<input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.														
Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".														
<p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: High (H) – Provides benefits for more than 30,000 customers. Medium (M) – Provides benefits for 10,000 to 30,000 customers. <i>← Affects Service Area 1 customers.</i> Low (L) – Provides benefits for less than 10,000 customers.</p>														
<input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.														
Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".														
<p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years. <i>←</i> Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.</p>														
<input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.														

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 74
RAW SCORE = 59

Railroad Corridor Water Line

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = H		50.25
	A	<input checked="" type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input checked="" type="checkbox"/> S Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/> With other agencies	
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		3.75
	<input checked="" type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input checked="" type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features	
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *Railroad Corridor Water Line*

PRIORITY SCORE =
RAW SCORE = 100

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 ← Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																							
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2"></th> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> </thead> <tbody> <tr> <th rowspan="3" style="writing-mode: vertical-rl; transform: rotate(180deg);">Impact</th> <th style="text-align: center;">High</th> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> <tr> <th style="text-align: center;">Med.</th> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <th style="text-align: center;">Low</th> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </tbody> </table> <p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: <u>High</u> – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <u>Medium</u> – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup <i>This proj. installs a major T-main between RRUTP & Hampton allowing for much greater redundancy in EGWD distr. system</i> <u>Low</u> – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: <u>High</u> – Likely to almost certain 65% – 100% <u>Medium</u> – Possible 35% – 65% <u>Low</u> – Unlikely or rare 0% – 35%</p> <p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>			Probability					High	Med.	Low	Impact	High	H+ 55	H- 42	M+ 30	Med.	H- 42	M+ 30	M- 17	Low	M+ 30	M- 17	L 5.5
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<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: <u>High (H)</u> – Provides benefits for more than 30,000 customers. <u>Medium (M)</u> – Provides benefits for 10,000 to 30,000 customers. ← <i>Impacts Service Area 1 primarily</i> <u>Low (L)</u> – Provides benefits for less than 10,000 customers.</p> <p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																								
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: <u>Immediate Need (I)</u> – Project is needed to meet current demands or regulations within the next three (3) years. <u>Short-Term Need (S)</u> – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. <u>Long-Term Need (L)</u> – Project is needed to meet demands beyond the next five (5) years.</p> <p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																								

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 63
RAW SCORE = 50

Backyard Water Mains/Services Replacement

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = M		41.25
	A	<input checked="" type="checkbox"/> M+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
	C	<input checked="" type="checkbox"/> S Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))	
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/> Promotes Emergency Recovery		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		3.75
	<input checked="" type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
	<input type="checkbox"/> Promotes water use efficiency	<input checked="" type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features	
	<input type="checkbox"/> Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

PRIORITY SCORE =

Project Name Here Backyard Water Mains/Service Replacements RAW SCORE = 100

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 ← Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																							
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2"></th> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> </thead> <tbody> <tr> <th rowspan="3" style="writing-mode: vertical-rl; transform: rotate(180deg);">Impact</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">High</th> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Med.</th> <td style="text-align: center;">H- 42</td> <td style="text-align: center; border: 2px solid red;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Low</th> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </tbody> </table> <p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: <u>High</u> – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <u>Medium</u> – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup. ← <i>Backyard mains undersized and difficult to access to repairs leaks. Current configuration has district-owned infrastructure related to frost-yer meters on private property</i> <u>Low</u> – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: <u>High</u> – Likely to almost certain 65% – 100% <u>Medium</u> – Possible 35% – 65% ← <u>Low</u> – Unlikely or rare 0% – 35%</p> <p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>			Probability					High	Med.	Low	Impact	High	H+ 55	H- 42	M+ 30	Med.	H- 42	M+ 30	M- 17	Low	M+ 30	M- 17	L 5.5
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<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: <u>High (H)</u> – Provides benefits for more than 30,000 customers. <u>Medium (M)</u> – Provides benefits for 10,000 to 30,000 customers. ← <i>Impacts areas of Service Area 1</i> <u>Low (L)</u> – Provides benefits for less than 10,000 customers.</p> <p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																								
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: <u>Immediate Need (I)</u> – Project is needed to meet current demands or regulations within the next three (3) years. <u>Short-Term Need (S)</u> – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. ← <u>Long-Term Need (L)</u> – Project is needed to meet demands beyond the next five (5) years.</p> <p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																								

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 92
RAW SCORE = 73

Hydropneumatic Tanks Refurbishment

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = H		68.25
	A	<input checked="" type="checkbox"/> H+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/> Promotes Emergency Recovery		
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/> With the Community	<input checked="" type="checkbox"/> With other agencies		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		0.00
	<input type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/> Promotes water use efficiency	<input type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features		
<input type="checkbox"/> Promotes groundwater basin management			
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000		
	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000		
	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/> Over 50% of project costs available from other agencies		
<input type="checkbox"/> 26% to 50% of project costs available from other agencies			
<input type="checkbox"/> Up to 25% of project costs available from other agencies			

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS

Priority Ranking Criteria

Hydropneumatic Tanks Refurbishment
Well Rehab Program

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here

	Water Supply (E 2)	Impact =	Probability =	75.00	← Totals from																
	<p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																				
	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p>																				
	<p>Probability</p> <table border="1" style="margin: auto;"> <tr> <td></td> <td style="text-align: center;">High</td> <td style="text-align: center;">Med.</td> <td style="text-align: center;">Low</td> </tr> <tr> <td style="text-align: center;">High</td> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> <tr> <td style="text-align: center;">Med.</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <td style="text-align: center;">Low</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </table>			High	Med.	Low	High	H+ 55	H- 42	M+ 30	Med.	H- 42	M+ 30	M- 17	Low	M+ 30	M- 17	L 5.5	<p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: <u>High</u> - Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <i>JPIA Bulletin addressing safety concerns related hydro-pneumatic tanks.</i> <u>Medium</u> - Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup. <u>Low</u> - Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: <u>High</u> - Likely to almost certain 65% - 100% <i>← Life & Safety Issue.</i> <u>Medium</u> - Possible 35% - 65% <u>Low</u> - Unlikely or rare 0% - 35%</p>		
	High	Med.	Low																		
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Low	M+ 30	M- 17	L 5.5																		
<p>WATER SUPPLY OBJECTIVE (75% of Raw Score)</p> <p style="font-size: small;">This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>																				
	<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: <u>High (H)</u> - Provides benefits for more than 30,000 customers. <u>Medium (M)</u> - Provides benefits for 10,000 to 30,000 customers. <i>← Impacts Service Area 1 customers.</i> <u>Low (L)</u> - Provides benefits for less than 10,000 customers.</p> <p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																				
	<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: <u>Immediate Need (I)</u> - Project is needed to meet current demands or regulations within the next three (3) years. <i>←</i> <u>Short-Term Need (S)</u> - Project is needed to meet demands or regulations within the next three to five (3 - 5) years. <u>Long-Term Need (L)</u> - Project is needed to meet demands beyond the next five (5) years.</p> <p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																				

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 83
RAW SCORE = 66

Well 1D Generator

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = M		58.50
	A	<input checked="" type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		7.50
	<input checked="" type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/> With other agencies	
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		0.00
	<input type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features	
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *Well ID Generator*

PRIORITY SCORE =
RAW SCORE = 100

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																							
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2"></th> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> </thead> <tbody> <tr> <th rowspan="3" style="writing-mode: vertical-rl; transform: rotate(180deg);">Impact</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">High</th> <td style="text-align: center;">H+ 55</td> <td style="text-align: center; border: 2px solid red;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Med.</th> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Low</th> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </tbody> </table> <p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: High - Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. - <i>Proj provides addition = 1 backup in event of emergency.</i> Medium - Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup Low - Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: High - Likely to almost certain 65% - 100% Medium - Possible 35% - 65% ← <i>Applied medium rating for likelihood of major emergency.</i> Low - Unlikely or rare 0% - 35%</p> <p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>			Probability					High	Med.	Low	Impact	High	H+ 55	H- 42	M+ 30	Med.	H- 42	M+ 30	M- 17	Low	M+ 30	M- 17	L 5.5
			Probability																					
			High	Med.	Low																			
	Impact	High	H+ 55	H- 42	M+ 30																			
Med.		H- 42	M+ 30	M- 17																				
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<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: High (H) - Provides benefits for more than 30,000 customers. Medium (M) - Provides benefits for 10,000 to 30,000 customers. ← <i>Impacts Service Area 1 customers primarily.</i> Low (L) - Provides benefits for less than 10,000 customers.</p> <p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																								
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: Immediate Need (I) - Project is needed to meet current demands or regulations within the next three (3) years. ← Short-Term Need (S) - Project is needed to meet demands or regulations within the next three to five (3 - 5) years. Long-Term Need (L) - Project is needed to meet demands beyond the next five (5) years.</p> <p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																								

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 79
RAW SCORE = 63

RRWTF Tanks & Vessels Recoating

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = H		58.50
	A	<input checked="" type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		2.50
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input type="checkbox"/>	With other agencies
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input type="checkbox"/>	Promotes energy efficiency or incorporates energy efficient features
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *RRWTF Tanks + Vessels Recoating.*

PRIORITY SCORE =
RAW SCORE = 100

	Water Supply (E 2)	Impact =	Probability =	75.00	← Totals from																					
<p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																										
<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p>																										
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<p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>																										
<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: <u>High (H)</u> – Provides benefits for more than 30,000 customers. <u>Medium (M)</u> – Provides benefits for 10,000 to 30,000 customers. <i>← Impacts Service Area 1 customers</i> <u>Low (L)</u> – Provides benefits for less than 10,000 customers.</p>																										
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<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: <u>Immediate Need (I)</u> – Project is needed to meet current demands or regulations within the next three (3) years. <i>for 2 MG storage tanks</i> <u>Short-Term Need (S)</u> – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. <u>Long-Term Need (L)</u> – Project is needed to meet demands beyond the next five (5) years.</p>																										
<p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																										

WATER SUPPLY OBJECTIVE
(75% of Raw Score)
This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 82

RAW SCORE = 65

Media Replacement Filter Vessels

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = M		58.50
	A	<input checked="" type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/>	With other agencies
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input type="checkbox"/>	Promotes energy efficiency or incorporates energy efficient features
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *Media Replacement Filters*

PRIORITY SCORE =
RAW SCORE = 100

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																							
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2"></th> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> </thead> <tbody> <tr> <th rowspan="3" style="writing-mode: vertical-rl; transform: rotate(180deg);">Impact</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">High</th> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Med.</th> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Low</th> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </tbody> </table> <p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: <u>High</u> - Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <i>- water treatment media has a typ. life cycle of 10 yrs. Orig. Plt. media nearing end of 10 yrs.</i> <u>Medium</u> - Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup <u>Low</u> - Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: <u>High</u> - Likely to almost certain 65% - 100% <u>Medium</u> - Possible 35% - 65% <i>← med. probability old media will not adequately treat water in near future</i> <u>Low</u> - Unlikely or rare 0% - 35%</p> <p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>			Probability					High	Med.	Low	Impact	High	H+ 55	H- 42	M+ 30	Med.	H- 42	M+ 30	M- 17	Low	M+ 30	M- 17	L 5.5
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<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: <u>Immediate Need (I)</u> - Project is needed to meet current demands or regulations within the next three (3) years. <i>←</i> <u>Short-Term Need (S)</u> - Project is needed to meet demands or regulations within the next three to five (3 - 5) years. <u>Long-Term Need (L)</u> - Project is needed to meet demands beyond the next five (5) years.</p> <p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																								

**FY 2014-2018 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 94
RAW SCORE = 75

Chlorine Tank Replacement - ClorTec Room

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = H		68.25
	A	<input checked="" type="checkbox"/> H+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
	C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))	
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/> Promotes Emergency Recovery		
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/> With the Community	<input checked="" type="checkbox"/> With other agencies		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/> Promotes water use efficiency	<input type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features		
<input type="checkbox"/> Promotes groundwater basin management			
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000		
	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000		
	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/> Over 50% of project costs available from other agencies		
<input type="checkbox"/> 26% to 50% of project costs available from other agencies			
<input type="checkbox"/> Up to 25% of project costs available from other agencies			

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here *Chlorine Tank Replacement - Chlor-Tee Room* PRIORITY SCORE = 100
RAW SCORE = 100

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																																	
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td colspan="2"></td> <th colspan="3">Probability</th> </tr> <tr> <td colspan="2"></td> <th>High</th> <th>Med.</th> <th>Low</th> </tr> <tr> <th rowspan="3">Impact</th> <th>High</th> <td style="text-align: center;"> <table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> </table> </td> <td></td> <td></td> </tr> <tr> <th>Med.</th> <td style="text-align: center;"> <table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> </table> </td> <td></td> <td></td> </tr> <tr> <th>Low</th> <td style="text-align: center;"> <table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </table> </td> <td></td> <td></td> </tr> </table>			Probability					High	Med.	Low	Impact	High	<table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> </table>	H+ 55	H- 42	M+ 30			Med.	<table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> </table>	H- 42	M+ 30	M- 17			Low	<table border="1" style="border-collapse: collapse;"> <tr> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </table>	M+ 30	M- 17	L 5.5			<p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: <u>High</u> - Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <i>- Chlorine tank shell is failing. This is critical infrastructure to District's mtg of drinking water.</i> <u>Medium</u> - Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup <u>Low</u> - Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: <u>High</u> - Likely to almost certain 65% - 100% <i>← Failure in time is likely.</i> <u>Medium</u> - Possible 35% - 65% <u>Low</u> - Unlikely or rare 0% - 35%</p>
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**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 95
RAW SCORE = 76

Hampton Road Water Treatment Plant Refurbishment

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = H ; Probability = H		68.25
	A	<input checked="" type="checkbox"/> H+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		7.50
	<input checked="" type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/> With other agencies	
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		0.00
	<input type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features	
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

Project Name Here Hampton Road WTP Redurbishment

PRIORITY SCORE =
RAW SCORE = 100

	Water Supply (E 2)	Impact =	Probability =	75.00	<-- Totals froi								
WATER SUPPLY OBJECTIVE (75% of Raw Score) This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.	Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure												
	Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:												
	Probability High Med. Low		Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.										
	Impact	High	Med.	Low	Impact: High – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <i>Important proj. to provide redundancy to District's drinking water system.</i> Medium – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup Low – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.								
		<table border="1" style="margin: auto;"> <tr> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> <tr> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </table>	H+ 55	H- 42	M+ 30	H- 42	M+ 30	M- 17	M+ 30	M- 17	L 5.5	Probability of impact occurring: High – Likely to almost certain 65% – 100% ← <i>Source capacity issues rise without backup source if RBWTF goes down.</i> Medium – Possible 35% – 65% Low – Unlikely or rare 0% – 35%	
H+ 55	H- 42	M+ 30											
H- 42	M+ 30	M- 17											
M+ 30	M- 17	L 5.5											
	<input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.												
Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".													
Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].													
Effect of Project Impact: High (H) – Provides benefits for more than 30,000 customers. Medium (M) – Provides benefits for 10,000 to 30,000 customers. ← <i>Impacts Service Area 1 Customers</i> Low (L) – Provides benefits for less than 10,000 customers.													
<input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.													
Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".													
Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.													
Project Urgency: Immediate Need (I) – Project is needed to meet current demands or regulations within the next three (3) years. — Short-Term Need (S) – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. Long-Term Need (L) – Project is needed to meet demands beyond the next five (5) years.													
<input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.													

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 81

VFDs - Booster Pumps Railroad Street WTF

RAW SCORE = 65

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = H		58.50
	A	<input checked="" type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		2.50
	<input type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input type="checkbox"/>	With other agencies
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input checked="" type="checkbox"/>	Promotes energy efficiency or incorporates energy efficient features
<input type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		2.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input checked="" type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

WATER SUPPLY / TREATMENT PROJECTS Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *VFD's - Booster Pumps RRWTF*

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 ← Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																							
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score)</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td colspan="2"></td> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <td colspan="2"></td> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> <tr> <th rowspan="3" style="writing-mode: vertical-rl; transform: rotate(180deg);">Impact</th> <th style="text-align: center;">High</th> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;"><i>H-</i> 42</td> <td style="text-align: center;">M+ 30</td> </tr> <tr> <th style="text-align: center;">Med.</th> <td style="text-align: center;"><i>H-</i> 42</td> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <th style="text-align: center;">Low</th> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </table> <p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: <u>High</u> – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <u>Medium</u> – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup <i>- Plt. operation unstable during low demand periods. Greater flexibility of RRWTF operations needed.</i> <u>Low</u> – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: <u>High</u> – Likely to almost certain 65% – 100% <i>← high likelihood.</i> <u>Medium</u> – Possible 35% – 65% <u>Low</u> – Unlikely or rare 0% – 35%</p> <p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>			Probability					High	Med.	Low	Impact	High	H+ 55	<i>H-</i> 42	M+ 30	Med.	<i>H-</i> 42	M+ 30	M- 17	Low	M+ 30	M- 17	L 5.5
			Probability																					
			High	Med.	Low																			
	Impact	High	H+ 55	<i>H-</i> 42	M+ 30																			
Med.		<i>H-</i> 42	M+ 30	M- 17																				
Low		M+ 30	M- 17	L 5.5																				
<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: <u>High (H)</u> – Provides benefits for more than 30,000 customers. <u>Medium (M)</u> – Provides benefits for 10,000 to 30,000 customers. <i>← Affects Service Area 1 customers.</i> <u>Low (L)</u> – Provides benefits for less than 10,000 customers.</p> <p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>																								
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: <u>Immediate Need (I)</u> – Project is needed to meet current demands or regulations within the next three (3) years. <i>←</i> <u>Short-Term Need (S)</u> – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. <u>Long-Term Need (L)</u> – Project is needed to meet demands beyond the next five (5) years.</p> <p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																								

**FY 2015-2019 WATER SUPPLY / TREATMENT PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 90
RAW SCORE = 72

SCADA Improvements

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = H		58.50
	A	<input type="checkbox"/> H- Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input type="checkbox"/> M Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input type="checkbox"/> I Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		7.50
	<input checked="" type="checkbox"/>	Promotes Emergency Recovery	
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/>	With the Community	<input checked="" type="checkbox"/> With other agencies	
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		3.75
	<input type="checkbox"/>	Promotes drinking water quality	
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/>	Promotes water use efficiency	<input checked="" type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features	
<input checked="" type="checkbox"/>	Promotes groundwater basin management		
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		2.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input checked="" type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
<input type="checkbox"/>	26% to 50% of project costs available from other agencies		
<input type="checkbox"/>	Up to 25% of project costs available from other agencies		

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

FY 2015-2019 BUILDING & SITE / VEHICLES PROJECTS
Priority Ranking Criteria

PRIORITY SCORE = 60

Truck Replacements

RAW SCORE = 48

PRIMARY OBJECTIVE (60%)	Buildings and Grounds (EL 3.4) Impact = M ; Probability = H		46.20
	A	<input checked="" type="checkbox"/> H- Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer or public safety standards.	
	B	<input type="checkbox"/> M Project enhances building infrastructure to address treatment of staff or public issues.	
	C	<input type="checkbox"/> H Project positions the District to meet projected future space needs.	
CLEANER OBJECTIVE (10%)	Positive Interaction (E 4) - Check all that apply		2.00
	<input checked="" type="checkbox"/>	With the Community	<input type="checkbox"/> With other agencies
	Good Neighbor (E 4) - Check all that apply		
	<input type="checkbox"/>	Graffiti removal or Prevention Features	
	<input type="checkbox"/>	Trash removal features (vortex weirs)	
	<input type="checkbox"/>	Improves esthetics of project location	
GREENER OBJECTIVE (15%)	Natural Resources Sustainability (E 3.2) - Check all that apply		0.00
	<input type="checkbox"/>	Air Quality & Visibility Improvement	<input type="checkbox"/> Recycled Water, rain water or gray water utilized
	<input type="checkbox"/>	Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)	<input type="checkbox"/> Construction Site Waste Management
	<input type="checkbox"/>	Renewable Energy Use	<input type="checkbox"/> Recycle/Re-use Solid Waste
	<input type="checkbox"/>	Water Efficient Features: Plumbing fixtures, Landscaping, etc.	<input type="checkbox"/> Reduce Solid Waste Production
			<input type="checkbox"/> Use of Recycled or Alternative Building Materials
	Trails & Open Space (E3.3) - Check all that apply		
	<input type="checkbox"/>	Trail friendly features	<input type="checkbox"/> Open Space Protection / Preservation
	<input type="checkbox"/>	Provides/Improves Bicycle Commute Route	
LEANER OBJECTIVE (15%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
	<input type="checkbox"/>	26% to 50% of project costs available from other agencies	
	<input type="checkbox"/>	Up to 25% of project costs available from other agencies	

BUILDINGS & GROUNDS PROJECTS Priority Ranking Criteria

Project Name Here *Truck Replacements*

PRIORITY SCORE =
RAW SCORE = 100

Buildings and Grounds (EL 3.4)	Impact =	; Probability =	60.0
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Buildings and Grounds capital projects are prioritized according to their ability to sustain the District's support functions.

Criterion A: Protect Existing Assets

Highest possible value is 55 points, with 55 points for "high", 33 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 44	M+ 33
	Med.	H- 44	M+ 33	M- 19.3
	Low	M+ 33	M- 19.3	L 5.5

Definition: Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards

Impact:

High – Without the project, District staff likely can not perform their normal daily work or an unsafe condition is present with the public.

Medium – Without the project, District staff likely can only perform their normal daily work in a restricted manner for a limited duration and with work-arounds. *Broken down equipment will result in this.*

Low – Without the project, District staff can continue to perform their daily work. However, the building is at risk from a seismic event or continues to deteriorate to a critical condition where staff cannot perform their daily work.

Probability of impact occurring:

High – Likely to almost certain 65% – 100% *Likelihood due to age, mileage and general condition of equipment.*

Medium – Possible 35% – 65%

Low – Unlikely or rare 0% – 35%

H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Enhancement of Existing Assets

Highest possible points are 30 points, with 30 points for "high", 18 points for "medium" and 3 points for "low".

Definition:

Project enhances building infrastructure to address treatment of staff issues.

Effect of Project Impact:

High (H) – Provides benefits for all employees or the public.

Medium (M) – Provides benefits for between 10 to all employees. *Impacts Field Crew*

Low (L) – Provides benefits for below 10 employees.

H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Addressing Future Space Needs

Highest possible points are 15 points, with 15 points for "high", 9 points for "medium" and 1.5 points for "low".

Definition:

Project positions the District to meet projected future space needs.

Effect of Project Impact:

High (H) – Meet projected demand 10 years in the future. *→*

Medium (M) – Meet projected demand 10 to 20 years in the future.

Low (L) – Meet projected demand beyond 20 years in the future.

H Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

BUILDINGS & GROUNDS OBJECTIVE
Clean (60% of Raw Score)

FY 2015-2019 BUILDING & SITE/VEHICLES PROJECTS Priority Ranking Criteria

PRIORITY SCORE = 73

RAW SCORE = 59

Administration Building Improvements

PRIMARY OBJECTIVE (60%)	Buildings and Grounds (EL 3.4) Impact = M ; Probability = H <div style="text-align: right; border: 1px solid black; padding: 2px;">53.40</div> <p>A <input checked="" type="checkbox"/> Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards.</p> <p>B <input checked="" type="checkbox"/> Project enhances building infrastructure to address treatment of staff issues.</p> <p>C <input checked="" type="checkbox"/> Project positions the District to meet projected future space needs.</p>
CLEANER OBJECTIVE (10%)	Positive Interaction (E 4) - Check all that apply 4.00 <input checked="" type="checkbox"/> With the Community <input type="checkbox"/> With other agencies Good Neighbor (E 4) - Check all that apply <input type="checkbox"/> Graffiti removal or Prevention Features <input type="checkbox"/> Trash removal features (vortex weirs) <input checked="" type="checkbox"/> Improves esthetics of project location
GREENER OBJECTIVE (15%)	Natural Resources Sustainability (E 3.2) - Check all that apply 1.25 <input type="checkbox"/> Air Quality & Visibility Improvement <input type="checkbox"/> Recycled Water, rain water or gray water utilized <input type="checkbox"/> Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.) <input type="checkbox"/> Construction Site Waste Management <input type="checkbox"/> Renewable Energy Use <input type="checkbox"/> Recycle/Re-use Solid Waste <input checked="" type="checkbox"/> Water Efficient Features: Plumbing fixtures, Landscaping, etc. <input type="checkbox"/> Reduce Solid Waste Production <input type="checkbox"/> Use of Recycled or Alternative Building Materials Trails & Open Space (E3.3) - Check all that apply <input type="checkbox"/> Trail friendly features <input type="checkbox"/> Open Space Protection / Preservation <input type="checkbox"/> Provides/Improves Bicycle Commute Route
LEANER OBJECTIVE (15%)	Lifecycle costs are minimized - Check One 0.00 <input type="checkbox"/> Annual cost savings of more than \$50,000 <input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000 <input type="checkbox"/> Annual cost savings of less than \$10,000 Funding Available from Other Agencies - Check One <input type="checkbox"/> Over 50% of project costs available from other agencies <input type="checkbox"/> 26% to 50% of project costs available from other agencies <input type="checkbox"/> Up to 25% of project costs available from other agencies

BUILDINGS & GROUNDS PROJECTS

Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Admin Bldg. Improvements*

Buildings and Grounds (EL 3.4) Impact = ; Probability = 60.0

Buildings and Grounds capital projects are prioritized according to their ability to sustain the District's support functions.

Criterion A: Protect Existing Assets

Highest possible value is 55 points, with 55 points for "high", 33 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 44	M+ 33
	Med.	H- 44	M+ 33	M- 19.3
	Low	M+ 33	M- 19.3	L 5.5

Definition: Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards

Impact:

High – Without the project, District staff likely can not perform their normal daily work or an unsafe condition is present with the public.

Medium – Without the project, District staff likely can only perform their normal daily work in a restricted manner for a limited duration and with work-arounds. *→ Deteriorating roof on facade, water intrusion problems at windows.*

Low – Without the project, District staff can continue to perform their daily work. However, the building is at risk from a seismic event or continues to deteriorate to a critical condition where staff cannot perform their daily work.

Probability of impact occurring:

High – Likely to almost certain 65% – 100% *→ Problems have occur*

Medium – Possible 35% – 65%

Low – Unlikely or rare 0% – 35%

H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Enhancement of Existing Assets

Highest possible points are 30 points, with 30 points for "high", 18 points for "medium" and 3 points for "low".

Definition:

Project enhances building infrastructure to address treatment of staff issues.

Effect of Project Impact:

High (H) – Provides benefits for all employees or the public. *→ Public uses bldg. Current aesthetics reflect poorly on District's image.*

Medium (M) – Provides benefits for between 10 to all employees.

Low (L) – Provides benefits for below 10 employees.

H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Addressing Future Space Needs

Highest possible points are 15 points, with 15 points for "high", 9 points for "medium" and 1.5 points for "low".

Definition:

Project positions the District to meet projected future space needs.

Effect of Project Impact:

High (H) – Meet projected demand 10 years in the future. *←*

Medium (M) – Meet projected demand 10 to 20 years in the future.

Low (L) – Meet projected demand beyond 20 years in the future.

H Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

BUILDINGS & GROUNDS OBJECTIVE
Clean (60% of Raw Score)

**FY 2015-2019 BUILDING & SITE / VEHICLES PROJECTS
Priority Ranking Criteria***

PRIORITY SCORE = 69
RAW SCORE = 55

Security Infrastructure

PRIMARY OBJECTIVE (75%)	Water Supply (E 2) Impact = M ; Probability = M		48.00
	A	<input checked="" type="checkbox"/> M+ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety. (H+, H-, M+, M-, L)	
	B	<input checked="" type="checkbox"/> H Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. (H, M, L)	
C	<input checked="" type="checkbox"/> S Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. (I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))		
SOCIAL FACTORS (7.5%)	Social Factor - Check if applicable		5.00
	<input type="checkbox"/> Promotes Emergency Recovery		
Positive Interaction (E 4) - Check all that apply			
<input checked="" type="checkbox"/> With the Community	<input checked="" type="checkbox"/> With other agencies		
ENVIRONMENTAL FACTORS (7.5%)	Water Quality (E 3.2) - Check if applicable		1.88
	<input checked="" type="checkbox"/> Promotes drinking water quality		
	Natural Resources Sustainability (E 3.2) - Check all that apply		
<input type="checkbox"/> Promotes water use efficiency	<input type="checkbox"/> Promotes energy efficiency or incorporates energy efficient features		
<input type="checkbox"/> Promotes groundwater basin management			
ECONOMIC FACTORS (10%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/> Annual cost savings of more than \$50,000		
	<input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000		
	<input type="checkbox"/> Annual cost savings of less than \$10,000		
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/> Over 50% of project costs available from other agencies		
<input type="checkbox"/> 26% to 50% of project costs available from other agencies			
<input type="checkbox"/> Up to 25% of project costs available from other agencies			

NOTE: You must type a capital "X" in the check boxes for any of the Social, Environmental, or Economic factors in order for the built-in formulas to recognize and calculate the scores.

* For this project, the Water Supply / Treatment Project priority ranking criteria was used because security for the well sites is driven by water safety.

WATER SUPPLY / TREATMENT PROJECTS

Priority Ranking Criteria

Project Name Here Security Infrastructure

PRIORITY SCORE =
RAW SCORE = 100

	<p>Water Supply (E 2) Impact = ; Probability = 75.00 <-- Totals from</p> <p>Water Supply capital projects are prioritized according to their ability to sustain the water utility business. "Sustain the water utility business" means the projects will repair or replace system components required to meet existing demand or water quality standards and which have a medium or high probability of failure</p>																								
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WATER SUPPLY OBJECTIVE (75% of Raw Score)</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">This Objective counts for 75% of the total score thus the point received are then multiplied by a factor of .75.</p>	<p>Criterion A: Protecting Existing Assets Highest possible value is 55 points, with 55 points for "high", 30 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="3" style="text-align: center;">Probability</th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">High</th> <th style="text-align: center;">Med.</th> <th style="text-align: center;">Low</th> </tr> </thead> <tbody> <tr> <th rowspan="3" style="writing-mode: vertical-rl; transform: rotate(180deg);">Impact</th> <th style="text-align: center;">High</th> <td style="text-align: center;">H+ 55</td> <td style="text-align: center;">H- 42</td> <td style="text-align: center;">M+ 30</td> </tr> <tr> <th style="text-align: center;">Med.</th> <td style="text-align: center;">H- 42</td> <td style="text-align: center; border: 2px solid red;">M+ 30</td> <td style="text-align: center;">M- 17</td> </tr> <tr> <th style="text-align: center;">Low</th> <td style="text-align: center;">M+ 30</td> <td style="text-align: center;">M- 17</td> <td style="text-align: center;">L 5.5</td> </tr> </tbody> </table> <p>Definition: Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements, including Health and Safety.</p> <p>Impact: <u>High</u> – Without the project, the District likely can not meet normal current or future daily demand and/or water quality standards because the water utility infrastructure is in poor condition, lacks redundancy or backup, or does not meet regulatory requirements. <u>Medium</u> – Without the project, the District likely can continue meeting current or future demands and/or water quality standards, but will be operating at a higher level of risk, potentially relying on manual operation or an existing backup <u>Low</u> – Without the project, the District can continue meeting current or future demand and/or water quality standards or regulations. However, the system will advance to a higher state of risk, or the project is related to a backup system.</p> <p>Probability of impact occurring: <u>High</u> – Likely to almost certain 65% – 100% <u>Medium</u> – Possible 35% – 65% <u>Low</u> – Unlikely or rare 0% – 35%</p> <p><input type="checkbox"/> H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.</p>			Probability					High	Med.	Low	Impact	High	H+ 55	H- 42	M+ 30	Med.	H- 42	M+ 30	M- 17	Low	M+ 30	M- 17	L 5.5	<p>Criterion B: Improving Existing Assets Highest possible points are 20 points, with 20 points for "high", 11 points for "medium" and 2 points for "low".</p> <p>Definition: Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance].</p> <p>Effect of Project Impact: <u>High (H)</u> – Provides benefits for more than 30,000 customers. ← Potentially impacts all customers <u>Medium (M)</u> – Provides benefits for 10,000 to 30,000 customers. <u>Low (L)</u> – Provides benefits for less than 10,000 customers.</p> <p><input type="checkbox"/> H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.</p>
			Probability																						
			High	Med.	Low																				
	Impact	High	H+ 55	H- 42	M+ 30																				
Med.		H- 42	M+ 30	M- 17																					
Low		M+ 30	M- 17	L 5.5																					
<p>Criterion C: Project Urgency Highest possible points are 25 points, with 25 points for "Immediate", 14 points for "Short-Term" and 2.5 points for "Long-Term".</p> <p>Definition: Timing of when project is needed to meet water supply demands, water quality standards, or other regulations.</p> <p>Project Urgency: <u>Immediate Need (I)</u> – Project is needed to meet current demands or regulations within the next three (3) years. <u>Short-Term Need (S)</u> – Project is needed to meet demands or regulations within the next three to five (3 - 5) years. <u>Long-Term Need (L)</u> – Project is needed to meet demands beyond the next five (5) years.</p> <p><input type="checkbox"/> I Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.</p>																									

← Potential of security threats at shallow wells where no security measures other than locked fenced-in area

FY 2015-2019 BUILDING & SITE / VEHICLES PROJECTS Priority Ranking Criteria

PRIORITY SCORE = 81

Frontage Road & Parking Lot Improvements

RAW SCORE = 65

PRIMARY OBJECTIVE (60%)	Buildings and Grounds (EL 3.4) Impact = H ; Probability = M 53.40 A <input checked="" type="checkbox"/> Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer or public safety standards. B <input checked="" type="checkbox"/> Project enhances building infrastructure to address treatment of staff or public issues. C <input checked="" type="checkbox"/> Project positions the District to meet projected future space needs.										
CLEANER OBJECTIVE (10%)	Positive Interaction (E 4) - Check all that apply 6.00 <input checked="" type="checkbox"/> With the Community <input checked="" type="checkbox"/> With other agencies Good Neighbor (E 4) - Check all that apply <input type="checkbox"/> Graffiti removal or Prevention Features <input type="checkbox"/> Trash removal features (vortex weirs) <input checked="" type="checkbox"/> Improves esthetics of project location										
GREENER OBJECTIVE (15%)	Natural Resources Sustainability (E 3.2) - Check all that apply 2.50 <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><input type="checkbox"/> Air Quality & Visibility Improvement</td> <td style="width: 50%; border: none;"><input type="checkbox"/> Recycled Water, rain water or gray water utilized</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)</td> <td style="border: none;"><input type="checkbox"/> Construction Site Waste Management</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Renewable Energy Use</td> <td style="border: none;"><input type="checkbox"/> Recycle/Re-use Solid Waste</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Water Efficient Features: Plumbing fixtures, Landscaping, etc.</td> <td style="border: none;"><input type="checkbox"/> Reduce Solid Waste Production</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"><input type="checkbox"/> Use of Recycled or Alternative Building Materials</td> </tr> </table> Trails & Open Space (E3.3) - Check all that apply <input checked="" type="checkbox"/> Trail friendly features <input type="checkbox"/> Open Space Protection / Preservation <input checked="" type="checkbox"/> Provides/Improves Bicycle Commute Route	<input type="checkbox"/> Air Quality & Visibility Improvement	<input type="checkbox"/> Recycled Water, rain water or gray water utilized	<input type="checkbox"/> Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)	<input type="checkbox"/> Construction Site Waste Management	<input type="checkbox"/> Renewable Energy Use	<input type="checkbox"/> Recycle/Re-use Solid Waste	<input type="checkbox"/> Water Efficient Features: Plumbing fixtures, Landscaping, etc.	<input type="checkbox"/> Reduce Solid Waste Production		<input type="checkbox"/> Use of Recycled or Alternative Building Materials
<input type="checkbox"/> Air Quality & Visibility Improvement	<input type="checkbox"/> Recycled Water, rain water or gray water utilized										
<input type="checkbox"/> Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)	<input type="checkbox"/> Construction Site Waste Management										
<input type="checkbox"/> Renewable Energy Use	<input type="checkbox"/> Recycle/Re-use Solid Waste										
<input type="checkbox"/> Water Efficient Features: Plumbing fixtures, Landscaping, etc.	<input type="checkbox"/> Reduce Solid Waste Production										
	<input type="checkbox"/> Use of Recycled or Alternative Building Materials										
LEANER OBJECTIVE (15%)	Lifecycle costs are minimized - Check One 3.00 <input type="checkbox"/> Annual cost savings of more than \$50,000 <input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000 <input type="checkbox"/> Annual cost savings of less than \$10,000 Funding Available from Other Agencies - Check One <input type="checkbox"/> Over 50% of project costs available from other agencies <input checked="" type="checkbox"/> 26% to 50% of project costs available from other agencies <input type="checkbox"/> Up to 25% of project costs available from other agencies										

BUILDINGS & GROUNDS PROJECTS Priority Ranking Criteria

PRIORITY SCORE =

Project Name Here *Frontage Road + Parking Lot Improvements*

RAW SCORE = 100

Buildings and Grounds (EL 3.4)

Impact = ; Probability = 60.00

Buildings and Grounds capital projects are prioritized according to their ability to sustain the District's support functions.

Criterion A: Protect Existing Assets

Highest possible value is 55 points, with 55 points for "high", 33 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

Probability

High Med. Low

Impact	High	H+ 55	H- 44	M+ 33
	Med.	H- 44	M+ 33	M- 19.3
	Low	M+ 33	M- 19.3	L 5.5

Definition: Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards.

Impact:

High – Without the project, District staff likely can not perform their normal daily work or an unsafe condition is present with the public. ← *pedestrian path on N. side of EG Blvd. is unsuitable for people in wheelchairs.*

Medium – Without the project, District staff likely can only perform their normal daily work in a restricted manner for a limited duration and with work-arounds.

Low – Without the project, District staff can continue to perform their daily work. However, the building is at risk from a seismic event or continues to deteriorate to a critical condition where staff cannot perform their daily work.

Probability of impact occurring:

High – Likely to almost certain 65% – 100%

Medium – Possible 35% – 65% ←

Low – Unlikely or rare 0% – 35%

Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Enhancement of Existing Assets

Highest possible points are 30 points, with 30 points for "high", 18 points for "medium" and 3 points for "low".

Definition:

Project enhances building infrastructure to address treatment of staff issues.

Effect of Project Impact:

High (H) – Provides benefits for all employees or the public. ←

Medium (M) – Provides benefits for between 10 to all employees.

Low (L) – Provides benefits for below 10 employees.

Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Addressing Future Space Needs

Highest possible points are 15 points, with 15 points for "high", 9 points for "medium" and 1.5 points for "low".

Definition:

Project positions the District to meet projected future space needs.

Effect of Project Impact:

High (H) – Meet projected demand 10 years in the future. ←

Medium (M) – Meet projected demand 10 to 20 years in the future.

Low (L) – Meet projected demand beyond 20 years in the future.

Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

BUILDINGS & GROUNDS OBJECTIVE
Clean (60% of Raw Score)

FY 2015-2019 BUILDING & SITE / VEHICLES PROJECTS Priority Ranking Criteria

PRIORITY SCORE = 80

RRWTF Modular Meeting Room & I.T. Center

RAW SCORE = 64

PRIMARY OBJECTIVE (60%)	Buildings and Grounds (EL 3.4) Impact = M ; Probability = M	60.00										
	A <input checked="" type="checkbox"/> H+ Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer or public safety standards. B <input type="checkbox"/> H Project enhances building infrastructure to address treatment of staff or public issues. C <input type="checkbox"/> H Project positions the District to meet projected future space needs.											
CLEANER OBJECTIVE (10%)	Positive Interaction (E 4) - Check all that apply <input checked="" type="checkbox"/> With the Community <input checked="" type="checkbox"/> With other agencies	4.00										
	Good Neighbor (E 4) - Check all that apply <input type="checkbox"/> Graffiti removal or Prevention Features <input type="checkbox"/> Trash removal features (vortex weirs) <input type="checkbox"/> Improves esthetics of project location											
GREENER OBJECTIVE (15%)	Natural Resources Sustainability (E 3.2) - Check all that apply	0.00										
	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><input type="checkbox"/> Air Quality & Visibility Improvement</td> <td style="width: 50%; border: none;"><input type="checkbox"/> Recycled Water, rain water or gray water utilized</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)</td> <td style="border: none;"><input type="checkbox"/> Construction Site Waste Management</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Renewable Energy Use</td> <td style="border: none;"><input type="checkbox"/> Recycle/Re-use Solid Waste</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Water Efficient Features: Plumbing fixtures, Landscaping, etc.</td> <td style="border: none;"><input type="checkbox"/> Reduce Solid Waste Production</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"><input type="checkbox"/> Use of Recycled or Alternative Building Materials</td> </tr> </table>	<input type="checkbox"/> Air Quality & Visibility Improvement	<input type="checkbox"/> Recycled Water, rain water or gray water utilized	<input type="checkbox"/> Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)	<input type="checkbox"/> Construction Site Waste Management	<input type="checkbox"/> Renewable Energy Use	<input type="checkbox"/> Recycle/Re-use Solid Waste	<input type="checkbox"/> Water Efficient Features: Plumbing fixtures, Landscaping, etc.	<input type="checkbox"/> Reduce Solid Waste Production		<input type="checkbox"/> Use of Recycled or Alternative Building Materials	
<input type="checkbox"/> Air Quality & Visibility Improvement	<input type="checkbox"/> Recycled Water, rain water or gray water utilized											
<input type="checkbox"/> Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)	<input type="checkbox"/> Construction Site Waste Management											
<input type="checkbox"/> Renewable Energy Use	<input type="checkbox"/> Recycle/Re-use Solid Waste											
<input type="checkbox"/> Water Efficient Features: Plumbing fixtures, Landscaping, etc.	<input type="checkbox"/> Reduce Solid Waste Production											
	<input type="checkbox"/> Use of Recycled or Alternative Building Materials											
	Trails & Open Space (E3.3) - Check all that apply <input type="checkbox"/> Trail friendly features <input type="checkbox"/> Open Space Protection / Preservation <input type="checkbox"/> Provides/Improves Bicycle Commute Route											
LEANER OBJECTIVE (15%)	Lifecycle costs are minimized - Check One <input type="checkbox"/> Annual cost savings of more than \$50,000 <input type="checkbox"/> Annual cost savings of \$10,000 to \$50,000 <input type="checkbox"/> Annual cost savings of less than \$10,000	0.00										
	Funding Available from Other Agencies - Check One <input type="checkbox"/> Over 50% of project costs available from other agencies <input type="checkbox"/> 26% to 50% of project costs available from other agencies <input type="checkbox"/> Up to 25% of project costs available from other agencies											

BUILDINGS & GROUNDS PROJECTS

Priority Ranking Criteria

PRIORITY SCORE =

Project Name Here *RRWTF Modular Meeting Room + I.T. Center*

RAW SCORE = 100

Buildings and Grounds (EL 3.4)

Impact = ; Probability =

60.00

Buildings and Grounds capital projects are prioritized according to their ability to sustain the District's support functions.

Criterion A: Protect Existing Assets

Highest possible value is 55 points, with 55 points for "high", 33 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	<div style="border: 1px solid black; border-radius: 50%; padding: 2px;">H+</div> 55	H- 44	M+ 33
	Med.	H- 44	M+ 33	M- 19.3
	Low	M+ 33	M- 19.3	L 5.5

Definition: Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards.

Impact:

High - Without the project, District staff likely can not perform their normal daily work or an unsafe condition is present with the public. *← The I.T. Dept currently has the District's servers in multiple locations making routine maintenance unnecessarily difficult centralizing to I.T. operation will make the*
Medium - Without the project, District staff likely can only perform their normal daily work in a restricted manner for a limited duration and with work-arounds. *operation more efficient. Additionally, field crews currently use the District's Adams Bldg. conf. room for training sessions which is undersized for this*
Low - Without the project, District staff can continue to perform their daily work. However, the building is at risk from a seismic event or continues to deteriorate to a critical condition where staff cannot perform their daily work.

Probability of impact occurring:

High - Likely to almost certain 65% - 100%

Medium - Possible 35% - 65%

Low - Unlikely or rare 0% - 35%

purpose. There is not enough parking and some vehicles are parked across the street in a vacant lot making a situation where some staff are required to cross Elk from Blvd. which is busy and w/o a crosswalk near this location to reach their destination.

Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Enhancement of Existing Assets

Highest possible points are 30 points, with 30 points for "high", 18 points for "medium" and 3 points for "low".

Definition:

Project enhances building infrastructure to address treatment of staff issues.

Effect of Project Impact:

High (H) - Provides benefits for all employees or the public. *←*

Medium (M) - Provides benefits for between 10 to all employees.

Low (L) - Provides benefits for below 10 employees.

Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Addressing Future Space Needs

Highest possible points are 15 points, with 15 points for "high", 9 points for "medium" and 1.5 points for "low".

Definition:

Project positions the District to meet projected future space needs.

Effect of Project Impact:

High (H) - Meet projected demand 10 years in the future. *←*

Medium (M) - Meet projected demand 10 to 20 years in the future.

Low (L) - Meet projected demand beyond 20 years in the future.

Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

BUILDINGS & GROUNDS OBJECTIVE
Clean (60% of Raw Score)

**FY 2015-2019 BUILDING & SITE / VEHICLES PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 71

Railroad Street WTF Parking Lot Improvements

RAW SCORE = 57

PRIMARY OBJECTIVE (60%)	Buildings and Grounds (EL 3.4) Impact = M ; Probability = H		53.40
	A	<input checked="" type="checkbox"/> H- Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer or public safety standards.	
	B	<input checked="" type="checkbox"/> H Project enhances building infrastructure to address treatment of staff or public issues.	
	C	<input checked="" type="checkbox"/> H Project positions the District to meet projected future space needs.	
CLEANER OBJECTIVE (10%)	Positive Interaction (E 4) - Check all that apply		2.00
	<input type="checkbox"/>	With the Community	<input type="checkbox"/> With other agencies
	Good Neighbor (E 4) - Check all that apply		
	<input type="checkbox"/>	Graffiti removal or Prevention Features	
	<input type="checkbox"/>	Trash removal features (vortex weirs)	
	<input checked="" type="checkbox"/>	Improves esthetics of project location	
GREENER OBJECTIVE (15%)	Natural Resources Sustainability (E 3.2) - Check all that apply		1.25
	<input type="checkbox"/>	Air Quality & Visibility Improvement	<input type="checkbox"/> Recycled Water, rain water or gray water utilized
	<input checked="" type="checkbox"/>	Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)	<input type="checkbox"/> Construction Site Waste Management
	<input type="checkbox"/>	Renewable Energy Use	<input type="checkbox"/> Recycle/Re-use Solid Waste
	<input type="checkbox"/>	Water Efficient Features: Plumbing fixtures, Landscaping, etc.	<input type="checkbox"/> Reduce Solid Waste Production
			<input type="checkbox"/> Use of Recycled or Alternative Building Materials
	Trails & Open Space (E3.3) - Check all that apply		
	<input type="checkbox"/>	Trail friendly features	<input type="checkbox"/> Open Space Protection / Preservation
	<input type="checkbox"/>	Provides/Improves Bicycle Commute Route	
LEANER OBJECTIVE (15%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
	<input type="checkbox"/>	26% to 50% of project costs available from other agencies	
	<input type="checkbox"/>	Up to 25% of project costs available from other agencies	

BUILDINGS & GROUNDS PROJECTS Priority Ranking Criteria

Project Name Here *RRWTF Parking Lot Improvements*

PRIORITY SCORE =
RAW SCORE = 100

Buildings and Grounds (EL 3.4) Impact = ; Probability = 60.0

Buildings and Grounds capital projects are prioritized according to their ability to sustain the District's support functions.

Criterion A: Protect Existing Assets

Highest possible value is 55 points, with 55 points for "high", 33 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 44	M+ 33
	Med.	H- 44	M+ 33	M- 19.3
	Low	M+ 33	M- 19.3	L 5.5

Definition: Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards

Impact:

High – Without the project, District staff likely can not perform their normal daily work or an unsafe condition is present with the public.

Medium – Without the project, District staff likely can only perform their normal daily work in a restricted manner for a limited duration and with work-arounds. *Field staff must park personal vehicles on a dirt lot which is unfenced and unlit.*

Low – Without the project, District staff can continue to perform their daily work. However, the building is at risk from a seismic event or continues to deteriorate to a critical condition where staff cannot perform their daily work.

Probability of impact occurring:

High – Likely to almost certain 65% – 100% *✓*

Medium – Possible 35% – 65%

Low – Unlikely or rare 0% – 35%

This proj. provides a secured, lit, gated facility with asphalt paving for personal vehicles.

BUILDINGS & GROUNDS OBJECTIVE
Clean (60% of Raw Score)

Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Enhancement of Existing Assets

Highest possible points are 30 points, with 30 points for "high", 18 points for "medium" and 3 points for "low".

Definition:

Project enhances building infrastructure to address treatment of staff issues.

Effect of Project Impact:

High (H) – Provides benefits for all employees or the public. *Impacts employees at Admin Bldg. too during functions held at RRWTF.*

Medium (M) – Provides benefits for between 10 to all employees.

Low (L) – Provides benefits for below 10 employees.

Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Addressing Future Space Needs

Highest possible points are 15 points, with 15 points for "high", 9 points for "medium" and 1.5 points for "low".

Definition:

Project positions the District to meet projected future space needs.

Effect of Project Impact:

High (H) – Meet projected demand 10 years in the future. *✓*

Medium (M) – Meet projected demand 10 to 20 years in the future.

Low (L) – Meet projected demand beyond 20 years in the future.

Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

FY 2015-2019 BUILDING & SITE / VEHICLES PROJECTS
Priority Ranking Criteria

PRIORITY SCORE = 16

Well 1D Site Improvements

RAW SCORE = 13

PRIMARY OBJECTIVE (60%)	Buildings and Grounds (EL 3.4) Impact = L ; Probability = L		10.50
	A	<input type="checkbox"/> L Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer or public safety standards.	
	B	<input type="checkbox"/> L Project enhances building infrastructure to address treatment of staff or public issues.	
	C	<input checked="" type="checkbox"/> M Project positions the District to meet projected future space needs.	
CLEANER OBJECTIVE (10%)	Positive Interaction (E 4) - Check all that apply		2.00
	<input type="checkbox"/>	With the Community	<input type="checkbox"/> With other agencies
	Good Neighbor (E 4) - Check all that apply		
	<input type="checkbox"/>	Graffiti removal or Prevention Features	
	<input type="checkbox"/>	Trash removal features (vortex weirs)	
	<input checked="" type="checkbox"/>	Improves esthetics of project location	
GREENER OBJECTIVE (15%)	Natural Resources Sustainability (E 3.2) - Check all that apply		0.00
	<input type="checkbox"/>	Air Quality & Visibility Improvement	<input type="checkbox"/> Recycled Water, rain water or gray water utilized
	<input type="checkbox"/>	Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)	<input type="checkbox"/> Construction Site Waste Management
	<input type="checkbox"/>	Renewable Energy Use	<input type="checkbox"/> Recycle/Re-use Solid Waste
	<input type="checkbox"/>	Water Efficient Features: Plumbing fixtures, Landscaping, etc.	<input type="checkbox"/> Reduce Solid Waste Production
			<input type="checkbox"/> Use of Recycled or Alternative Building Materials
	Trails & Open Space (E3.3) - Check all that apply		
	<input type="checkbox"/>	Trail friendly features	<input type="checkbox"/> Open Space Protection / Preservation
	<input type="checkbox"/>	Provides/Improves Bicycle Commute Route	
LEANER OBJECTIVE (15%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
	<input type="checkbox"/>	26% to 50% of project costs available from other agencies	
	<input type="checkbox"/>	Up to 25% of project costs available from other agencies	

BUILDINGS & GROUNDS PROJECTS

Priority Ranking Criteria

PRIORITY SCORE =
RAW SCORE = 100

Project Name Here *Well ID Site Improvements*

Buildings and Grounds (EL 3.4) Impact = ; Probability = 60.00

Buildings and Grounds capital projects are prioritized according to their ability to sustain the District's support functions.

Criterion A: Protect Existing Assets

Highest possible value is 55 points, with 55 points for "high", 33 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 44	M+ 33
	Med.	H- 44	M+ 33	M- 19.3
	Low	M+ 33	M- 19.3	L 5.5

Definition: Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards.

Impact:
High – Without the project, District staff likely can not perform their normal daily work or an unsafe condition is present with the public.

Medium – Without the project, District staff likely can only perform their normal daily work in a restricted manner for a limited duration and with work-arounds.

Low – Without the project, District staff can continue to perform their daily work. However, the building is at risk from a seismic event or continues to deteriorate to a critical condition where staff cannot perform their daily work. *Project cleans up the well site and provides a more durable finished surface for the site.*

Probability of impact occurring:
High – Likely to almost certain 65% – 100%

Medium – Possible 35% – 65%

Low – Unlikely or rare 0% – 35%

H+ Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Enhancement of Existing Assets

Highest possible points are 30 points, with 30 points for "high", 18 points for "medium" and 3 points for "low".

Definition:

Project enhances building infrastructure to address treatment of staff issues.

Effect of Project Impact:

High (H) – Provides benefits for all employees or the public.

Medium (M) – Provides benefits for between 10 to all employees.

Low (L) – Provides benefits for below 10 employees. *←*

H Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Addressing Future Space Needs

Highest possible points are 15 points, with 15 points for "high", 9 points for "medium" and 1.5 points for "low".

Definition:

Project positions the District to meet projected future space needs.

Effect of Project Impact:

High (H) – Meet projected demand 10 years in the future.

Medium (M) – Meet projected demand 10 to 20 years in the future. *←*

Low (L) – Meet projected demand beyond 20 years in the future.

H Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

BUILDINGS & GROUNDS OBJECTIVE
Clean (60% of Raw Score)

**FY 2015-2019 BUILDING & SITE / VEHICLES PROJECTS
Priority Ranking Criteria**

PRIORITY SCORE = 61

RAW SCORE = 49

Facilities Repairs

PRIMARY OBJECTIVE (60%)	Buildings and Grounds (EL 3.4) Impact = L ; Probability = H		46.80
	A	<input checked="" type="checkbox"/> M+ Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer or public safety standards.	
	B	<input type="checkbox"/> H Project enhances building infrastructure to address treatment of staff or public issues.	
	C	<input type="checkbox"/> H Project positions the District to meet projected future space needs.	
CLEANER OBJECTIVE (10%)	Positive Interaction (E 4) - Check all that apply		2.00
	<input type="checkbox"/>	With the Community	<input type="checkbox"/> With other agencies
	Good Neighbor (E 4) - Check all that apply		
	<input type="checkbox"/>	Graffiti removal or Prevention Features	
	<input type="checkbox"/>	Trash removal features (vortex weirs)	
	<input checked="" type="checkbox"/>	Improves esthetics of project location	
GREENER OBJECTIVE (15%)	Natural Resources Sustainability (E 3.2) - Check all that apply		0.00
	<input type="checkbox"/>	Air Quality & Visibility Improvement	<input type="checkbox"/> Recycled Water, rain water or gray water utilized
	<input type="checkbox"/>	Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)	<input type="checkbox"/> Construction Site Waste Management
	<input type="checkbox"/>	Renewable Energy Use	<input type="checkbox"/> Recycle/Re-use Solid Waste
	<input type="checkbox"/>	Water Efficient Features: Plumbing fixtures, Landscaping, etc.	<input type="checkbox"/> Reduce Solid Waste Production
			<input type="checkbox"/> Use of Recycled or Alternative Building Materials
	Trails & Open Space (E3.3) - Check all that apply		
	<input type="checkbox"/>	Trail friendly features	<input type="checkbox"/> Open Space Protection / Preservation
	<input type="checkbox"/>	Provides/Improves Bicycle Commute Route	
LEANER OBJECTIVE (15%)	Lifecycle costs are minimized - Check One		0.00
	<input type="checkbox"/>	Annual cost savings of more than \$50,000	
	<input type="checkbox"/>	Annual cost savings of \$10,000 to \$50,000	
	<input type="checkbox"/>	Annual cost savings of less than \$10,000	
	Funding Available from Other Agencies - Check One		
	<input type="checkbox"/>	Over 50% of project costs available from other agencies	
	<input type="checkbox"/>	26% to 50% of project costs available from other agencies	
	<input type="checkbox"/>	Up to 25% of project costs available from other agencies	

BUILDINGS & GROUNDS PROJECTS Priority Ranking Criteria

Project Name Here *Facilities Repairs*

PRIORITY SCORE =
RAW SCORE = 100

Buildings and Grounds (EL 3.4) Impact = ; Probability = 60.0

Buildings and Grounds capital projects are prioritized according to their ability to sustain the District's support functions.

Criterion A: Protect Existing Assets

Highest possible value is 55 points, with 55 points for "high", 33 points for "medium" and 5.5 points for "low". The intermediate scores are shown below:

		Probability		
		High	Med.	Low
Impact	High	H+ 55	H- 44	M+ 33
	Med.	H- 44	M+ 33	M- 19.3
	Low	M+ 33	M- 19.3	L 5.5

Definition: Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards.

Impact:

High – Without the project, District staff likely can not perform their normal daily work or an unsafe condition is present with the public.

Medium – Without the project, District staff likely can only perform their normal daily work in a restricted manner for a limited duration and with work-arounds.

Low – Without the project, District staff can continue to perform their daily work. However, the building is at risk from a seismic event or continues to deteriorate to a critical condition where staff cannot perform their daily work. *← Maint. of facilities is required to prevent interruptions to staff work*

Probability of impact occurring:

High – Likely to almost certain 65% – 100% *←*

Medium – Possible 35% – 65%

Low – Unlikely or rare 0% – 35%

Determine the appropriate rating for the project as it pertains to Criterion A and then enter it in the box provided.

Criterion B: Enhancement of Existing Assets

Highest possible points are 30 points, with 30 points for "high", 18 points for "medium" and 3 points for "low".

Definition:

Project enhances building infrastructure to address treatment of staff issues.

Effect of Project Impact:

High (H) – Provides benefits for all employees or the public. *←*

Medium (M) – Provides benefits for between 10 to all employees.

Low (L) – Provides benefits for below 10 employees.

Determine the appropriate rating for the project as it pertains to Criterion B and then enter it in the box provided.

Criterion C: Addressing Future Space Needs

Highest possible points are 15 points, with 15 points for "high", 9 points for "medium" and 1.5 points for "low".

Definition:

Project positions the District to meet projected future space needs.

Effect of Project Impact:

High (H) – Meet projected demand 10 years in the future. *←*

Medium (M) – Meet projected demand 10 to 20 years in the future.

Low (L) – Meet projected demand beyond 20 years in the future.

Determine the appropriate rating for the project as it pertains to Criterion C and then enter it in the box provided.

BUILDINGS & GROUNDS OBJECTIVE
Clean (60% of Raw Score)

FLORIN RESOURCE CONSERVATION DISTRICT

HAMPTON VILLAGE WATER TREATMENT PLANT REFURBISHMENT PROJECT

BID AND CONTRACT DOCUMENTS

TABLE OF CONTENTS

	<u>Page No.</u>
NOTICE INVITING BIDS.....	1
INSTRUCTIONS TO BIDDERS	3
BID FORM	11
CONTRACTOR'S CERTIFICATE REGARDING WORKERS' COMPENSATION	13
BID BOND	14
DESIGNATION OF SUBCONTRACTORS	16
INFORMATION REQUIRED OF BIDDERS	17
NON-COLLUSION AFFIDAVIT	21
CONTRACT	22
PERFORMANCE BOND.....	25
PAYMENT BOND (LABOR AND MATERIALS)	29
GENERAL CONDITIONS	31
SPECIAL CONDITIONS	70
TECHNICAL SPECIFICATIONS	73

FLORIN RESOURCE CONSERVATION DISTRICT

NOTICE INVITING BIDS

Hampton Village Water Treatment Plant Refurbishment Project

The Florin Resource Conservation District (“District”) will receive sealed bids for the Hampton Village Water Treatment Plant Refurbishment Project at the office of the Elk Grove Water District no later than June 17, 2014 at 2:30 PM at which time or thereafter said bids will be opened and read aloud. Bids received after this time will be returned unopened. Bids shall be valid for 60 calendar days after the bid opening date.

Work includes furnishing of all labor, materials, tax, equipment and services for the refurbishment of the Hampton Village Water Treatment Plant (WTP). Work at the Hampton Village WTP shall include but not be limited to all work necessary to return the Hampton Village WTP to service as outlined in the Specifications and Plans for this project.

Bids must be submitted on the District’s Bid Forms. Bidders are responsible for purchasing and obtaining all the contract documents. Copies of the Contract Documents may be obtained at: ARC Document Solutions at 801 Broadway, Sacramento, CA 95818, (916) 443-1322 or www.e-arc.com. The District will also make the Contract Documents available for review at Sacramento Regional Builders Exchange, 1331 T Street, Sacramento, CA 95811, (916) 442-8991.

Bids must be accompanied by cash, a certified or cashier’s check, or a Bid Bond in favor of the District in an amount not less than ten percent (10%) of the submitted Total Bid Price.

A non-mandatory Pre-Bid Conference will be held at the District Office located at 10113 Hampton Oak Dr., Elk Grove, CA 95624 on June 3, 2014, at 10:00 a.m. Bidders are encouraged to attend the Pre-Bid Conference. Bids will be accepted from any bidder who did not attend the Pre-Bid Conference.

Each bid shall be accompanied by the security referred to in the Contract Documents, the non-collusion affidavit, the list of proposed subcontractors, and all additional documentation required by the Instructions to Bidders.

The successful bidder will be required to furnish the District with a Performance Bond equal to 100% of the successful bid, and a Payment (Labor and Materials) Bond equal to 100% of the successful bid, prior to execution of the Contract. All bonds are to be secured from a surety that meets all of the State of California bonding requirements, as defined in Code of Civil Procedure Section 995.120, and is admitted by the State of California. Pursuant to Public Contract Code Section 22300, the successful bidder may substitute certain securities for funds withheld by District to ensure his performance under the Contract.

The Director of Industrial Relations has determined the general prevailing rate of per diem wages in the locality in which this work is to be performed for each craft or type of worker needed to

NOTICE INVITING BIDS

execute the Contract which will be awarded to the successful bidder, copies of which are on file and will be made available to any interested party upon request at Department of Industrial Relations, 2031 Howe Avenue Suite 100, Sacramento, CA 95825 or online at <http://www.dir.ca.gov/dlsr>. A copy of these rates shall be posted by the successful bidder at the job site. The successful bidder and all subcontractor(s) under him, shall comply with all applicable Labor Code provisions, which include, but are not limited to the payment of not less than the required prevailing rates to all workers employed by them in the execution of the Contract, the employment of apprentices, the hours of labor and the debarment of contractors and subcontractors. Each bidder shall be a licensed contractor pursuant to the Business and Professions Code and shall be licensed in the following appropriate classification(s) of contractor's license(s), for the work bid upon, and must maintain the license(s) throughout the duration of the Contract: California Class A.

The successful bidder must fully comply with all applicable laws, rules and regulations in furnishing or using equipment and/or providing services, including, but not limited to, emissions limits and permitting requirements imposed by the Air Quality Management District (AQMD) and/or California Air Resources Board (CARB). Although the AQMD and CARB limits and requirements are more broad, the successful bidder shall specifically be aware of their application to "portable equipment", which definition is considered by AQMD and CARB to include any item of equipment with a fuel-powered engine. The successful bidder will be required to indemnify District against any fines or penalties imposed by AQMD, CARB, or any other governmental or regulatory agency for violations of applicable laws, rules and/or regulations by the successful bidder, its subcontractors, or others for whom the successful bidder is responsible under its indemnity obligations.

Pursuant to Public Contract Code Section 3400(b), if the District has made any findings designating certain materials, products, things, or services by specific brand or trade name, such findings and the materials, products, things, or services and their specific brand or trade names will be set forth in the Special Conditions.

Award of Contract: The District shall award the Contract for the Project to the lowest responsive, responsible bidder as determined from the base bid alone and is deemed responsible by the District. The District reserves the right to reject any or all bids or to waive any irregularities or informalities in any bids or in the bidding process.

For further information, contact Bruce Kamilos, Project Manager, (916) 585-9385. The last date to submit questions shall be June 13, 2014. All questions must be submitted in accordance with the procedures set forth in the Information for Bidders.

NOTICE INVITING BIDS

2

FLORIN RESOURCE CONSERVATION DISTRICT

INSTRUCTIONS TO BIDDERS

1. AVAILABILITY OF CONTRACT DOCUMENTS

Bids must be submitted to the District on the Bid Forms which are a part of the Bid Package for the Project. Prospective bidders may obtain Contract Documents at the location(s) and at the time(s) indicated in the Notice Inviting Bids. Prospective bidders are encouraged to telephone in advance to determine the availability and cost of Contract Documents. Any applicable charges for the Contract Documents are the prospective bidders responsibility.

The District may also make the Contract Documents available for review at the plan rooms, as indicated in the Notice Inviting Bids.

2. EXAMINATION OF CONTRACT DOCUMENTS

The District has made copies of the Contract Documents available, as indicated above. Bidders shall be solely responsible for examining the Project Site and the Contract Documents, including any Addenda issued during the bidding period, and for informing itself with respect to local labor availability, means of transportation, necessity for security, laws and codes, local permit requirements, wage scales, local tax structure, contractors' licensing requirements, availability of required insurance, and other factors that could affect the Work. Bidders are responsible for consulting the standards referenced in the Contract. Failure of Bidder to so examine and inform itself shall be at its sole risk, and no relief for error or omission will be given except as required under State law.

3. INTERPRETATION OF CONTRACT DOCUMENTS

Discrepancies in, and/or omissions from the Plans, Specifications or other Contract Documents or questions as to their meaning shall be immediately brought to the attention of the District by submission of a written request for an interpretation or correction to the District. Such submission, if any, must be sent to the Project Manager, Bruce Kamilos, email bkamilos@egwd.org.

Any interpretation of the Contract Documents will be made only by written addenda duly posted to the PlanWell Public Planroom site (www.e-arc.com) at ARC Document Solutions. An email will be sent to all know Plan Holders notifying Bidders that an addendum has been issued. The District will not be responsible for any explanations or interpretations provided in any other manner. No person is authorized to make any oral interpretation of any provision in the Contract Documents to any bidder, and no bidder should rely on any such oral interpretation.

Bids shall include complete compensation for all items that are noted in the Contract Documents as the responsibility of the Contractor.

INSTRUCTIONS TO BIDDERS

4. INSPECTION OF SITE; PRE-BID CONFERENCE AND SITE WALK

Each prospective bidder is responsible for fully acquainting itself with the conditions of the Project Site (which may include more than one site), as well as those relating to the construction and labor of the Project, to fully understand the facilities, difficulties and restrictions which may impact the cost or effort required to complete the Project. To this end, a Pre-Bid Conference and Site Walk will be held on the June 3, 2014 at 10:00 a.m. as indicated in the Notice Inviting Bids.

5. ADDENDA

The District reserves the right to revise the Contract Documents prior to the bid opening date. Revisions, if any, shall be made by written Addenda. All addenda issued by the District shall be included in the bid and made part of the Contract Documents. Pursuant to Public Contract Code Section 4104.5, if the District issues an Addendum which includes material changes to the Project less than 72 hours prior to the deadline for submission of bids, the District will extend the deadline for submission of bids. The District may determine, in its sole discretion, whether an Addendum warrants postponement of the bid submission date. Each prospective bidder shall provide District a name, address, facsimile number and email address to which a notification can be sent that an addendum has been posted to the PlanWell Public Planroom site at ARC Document Solutions. Copies of Addenda will be available at ARC Document Solutions or Sacramento Regional Builders Exchange sites as listed in the Notice Inviting Bids. Please Note: Bidders are responsible for ensuring that they have received any and all Addenda and should check the above sites prior to bid opening.

6. ALTERNATE BIDS

If alternate bid items are called for in the Contract Documents, the lowest bid will be determined on the basis of the base bid only. The time required for completion of the alternate bid items has been factored into the Contract duration and no additional Contract time will be awarded for any of the alternate bid items. The District may elect to include one or more of the alternate bid items, or to otherwise remove certain work from the Project scope of work, accordingly each Bidder must ensure that each bid item contains a proportionate share of profit, overhead and other costs or expenses which will be incurred by the Bidder.

7. COMPLETION OF BID FORMS

Bids shall only be prepared using copies of the Bid Forms which are included in the Contract Documents and are provided herein. The use of substitute bid forms other than clear and correct photocopies of those provided by the District will not be permitted. Bids shall be executed by an authorized signatory as described in these Instructions to Bidders. In addition, Bidders shall fill in all blank spaces (including inserting "N/A" where applicable) and initial all interlineations, alterations, or erasures to the Bid Forms. Bidders shall neither delete, modify, nor supplement the printed matter on the Bid Forms nor make substitutions thereon. **USE OF BLACK OR BLUE INK, INDELIBLE PENCIL OR A TYPEWRITER IS REQUIRED.** Deviations in the bid form may result in the bid being deemed non-responsive.

INSTRUCTIONS TO BIDDERS

8. MODIFICATIONS OF BIDS

Each Bidder shall submit its Bid in strict conformity with the requirements of the Contract Documents. Unauthorized additions, modifications, revisions, conditions, limitations, exclusions or provisions attached to a Bid may render it non-responsive and may cause its rejection. Bidders shall neither delete, modify, nor supplement the printed matter on the Bid Forms, nor make substitutions thereon. Oral, telephonic and electronic modifications will not be considered.

9. DESIGNATION OF SUBCONTRACTORS

Pursuant to State law, the Bidders must designate the name and location of each subcontractor who will perform work or render services for the Bidder in an amount that exceeds one-half of one percent (1/2%) of the Bidder's Total Bid Price, as well as the portion of work each such subcontractor will perform on the form provided herein by the District. No additional time will be provided to bidders to submit any of the requested information in the Designation of Subcontractor form.

10. LICENSING REQUIREMENTS

Pursuant to Section 7028.15 of the Business and Professions Code and Section 3300 of the Public Contract Code, all bidders must possess proper licenses for performance of this Contract. Subcontractors must possess the appropriate licenses for each specialty subcontracted. Pursuant to Section 7028.5 of the Business and Professions Code, the District shall consider any bid submitted by a contractor not currently licensed in accordance with state law and pursuant to the requirements found in the Contract Documents to be non-responsive, and the District shall reject the Bid. The District shall have the right to request, and Bidders shall provide within five (5) calendar days, evidence satisfactory to the District of all valid license(s) currently held by that Bidder and each of the Bidder's subcontractors, before awarding the Contract. Please also note that, pursuant to Public Contract Code Section 20676, sellers of "mined material" must be on an approved list of sellers published pursuant to Public Resources Code Section 2717(b) in order to supply mined material for this Contract.

11. SIGNING OF BIDS

All Bids submitted shall be executed by the Bidder or its authorized representative. Bidders may be asked to provide evidence in the form of an authenticated resolution of its Board of Directors or a Power of Attorney evidencing the authority of the person signing the Bid to bind the Bidder to each Bid and to any Contract arising therefrom.

If a Bidder is a joint venture or partnership, it may be asked to submit an authenticated Power of Attorney executed by each joint venturer or partner appointing and designating one of the joint venturers or partners as a management sponsor to execute the Bid on behalf of Bidder. Only that joint venturer or partner shall execute the Bid. The Power of Attorney shall also: (1) authorize that particular joint venturer or partner to act for and bind Bidder in all matters relating to the Bid; and (2) provide that each venturer or partner shall be jointly and severally liable for any and all of the duties and obligations of Bidder assumed under the Bid and under any Contract arising

INSTRUCTIONS TO BIDDERS

therefrom. The Bid shall be executed by the designated joint venturer or partner on behalf of the joint venture or partnership in its legal name.

12. BID GUARANTEE (BOND)

Each bid shall be accompanied by: (a) cash; (b) a certified check made payable to the District; (c) a cashier's check made payable to the District; or (d) a bid bond payable to the District executed by the bidder as principal and surety as obligor in an amount not less than 10% of the maximum amount of the bid. Personal sureties and unregistered surety companies are unacceptable. The surety insurer shall be California admitted surety insurer, as defined in Code of Civil Procedure Section 995.120. The cash, check or bid bond shall be given as a guarantee that the bidder shall execute the Contract if it be awarded to the bidder, shall provide the payment and performance bonds and insurance certificates and endorsements as required herein within ten (10) calendar days after notification of the award of the Contract to the bidder. Failure to provide the required documents may result in forfeiture of the bidder's bid deposit or bond to the District and the District may award the Contract to the next lowest responsive, responsible bidder, or may call for new bids.

13. SUBMISSION OF SEALED BIDS

Once the Bid and supporting documents have been completed and signed as set forth herein, they shall be placed, along with the Bid Guarantee and other required materials in an envelope, sealed, addressed and delivered or mailed, postage prepaid to the District at the place and to the attention of the person indicated in the Notice Inviting Bids. No oral or telephonic bids will be considered. No forms transmitted via the internet, e-mail, facsimile, or any other electronic means will be considered unless specifically authorized by District as provided herein. The envelope shall also contain the following in the lower left-hand corner thereof:

Bid of _____ (Bidder's Name)
for the Hampton Village WTP Refurbishment Project

14. DELIVERY AND OPENING OF BIDS

Bids will be received by the District at the address shown in the Notice Inviting Bids up to the date and time shown therein. The District will leave unopened any Bid received after the specified date and time, and any such unopened Bid will be returned to the Bidder. It is the Bidder's sole responsibility to ensure that its Bid is received as specified. Bids may be submitted earlier than the dates(s) and time(s) indicated.

Bids will be opened at the date and time stated in the Notice Inviting Bids, and the amount of each Bid will be read aloud and recorded. All Bidders may, if they desire, attend the opening of Bids. The District may in its sole discretion, elect to postpone the opening of the submitted Bids. District reserves the right to reject any or all Bids and to waive any informality or irregularity in any Bid. In the event of a discrepancy between the written amount of the Bid Price and the numerical amount of the Bid Price, the written amount shall govern.

INSTRUCTIONS TO BIDDERS

15. WITHDRAWAL OF BID

Prior to bid opening, a Bid may be withdrawn by the Bidder only by means of a written request signed by the Bidder or its properly authorized representative.

16. BASIS OF AWARD; BALANCED BIDS

The District shall award the Contract to the lowest responsive, responsible Bidder submitting a responsive Bid. The District may reject any Bid which, in its opinion when compared to other bids received or to the District's internal estimates, does not accurately reflect the cost to perform the Work. The District may reject as non-responsive any bid which unevenly weights or allocates costs, including but not limited to overhead and profit to one or more particular bid items.

17. DISQUALIFICATION OF BIDDERS; INTEREST IN MORE THAN ONE BID

No bidder shall be allowed to make, submit or be interested in more than one bid. However, a person, firm, corporation or other entity that has submitted a subproposal to a bidder, or that has quoted prices of materials to a bidder, is not thereby disqualified from submitting a subproposal or quoting prices to other bidders submitting a bid to the District. No person, firm, corporation, or other entity may submit subproposal to a bidder, or quote prices of materials to a bidder, when also submitting a prime bid on the same Project.

18. INSURANCE REQUIREMENTS

The successful bidder shall procure the insurance in the form and in the amount specified in the Contract Documents.

19. AWARD PROCESS

Once all Bids are opened and reviewed to determine the lowest responsive and responsible Bidder, the District may award the contract. The apparent successful Bidder should begin to prepare the following documents: (1) the Performance Bond; (2) the Payment (Labor and Materials) Bond; and (3) the required insurance certificates and endorsements. Once the District notifies the Bidder of the award, the Bidder will have ten (10) consecutive calendar days from the date of this notification to execute the Contract and supply the District with all of the required documents and certifications. Regardless whether the Bidder supplies the required documents and certifications in a timely manner, the Contract time will begin to run ten (10) calendar days from the date of the notification. Once the District receives all of the properly drafted and executed documents and certifications from the Bidder, the District shall issue a Notice to Proceed to that Bidder.

20. FILING OF BID PROTESTS

Bidders may file a "protest" of a Bid with the District's General Manager. In order for a Bidder's protest to be considered valid, the protest must:

INSTRUCTIONS TO BIDDERS

- A. Be filed in writing within five (5) calendar days after the bid opening date;
- B. Clearly identify the specific irregularity or accusation;
- C. Clearly identify the specific District staff determination or recommendation being protested;
- D. Specify, in detail, the grounds of the protest and the facts supporting the protest; and
- E. Include all relevant, supporting documentation with the protest at time of filing.

If the protest does not comply with each of these requirements, it will be rejected as invalid.

If the protest is valid, the District's General Manager or other designated District staff member, shall review the basis of the protest and all relevant information. The General Manager will provide a written decision to the protestor. The protestor may then appeal the decision of the General Manager to the District Board.

21. WORKERS COMPENSATION

Each bidder shall submit the Contractor's Certificate Regarding Workers' Compensation form.

22. SUBSTITUTION OF SECURITY

The Contract Documents call for monthly progress payments based upon the percentage of the work completed. The District will retain five percent (5%) of each progress payment as provided by the Contract Documents. At the request and expense of the successful Bidder, the District will substitute securities for the amount so retained in accordance with Public Contract Code Section 22300.

23. PREVAILING WAGES

The District has obtained from the Director of the Department of Industrial Relations the general prevailing rate of per diem wages in the locality in which this work is to be performed for each craft or type of worker needed to execute the Contract. These rates are on file and available at 2031 Howe Avenue Suite 100, Sacramento, CA 95825 or may be obtained online at <http://www.dir.ca.gov/dlsr>. Bidders are advised that a copy of these rates must be posted by the successful Bidder at the job site(s).

24. DEBARMENT OF CONTRACTORS AND SUBCONTRACTORS

In accordance with the provisions of the Labor Code, contractors or subcontractors may not perform work on a public works project with a subcontractor who is ineligible to perform work on a public project pursuant to Section 1777.1 or Section 1777.7 of the Labor Code. Any contract on a public works project entered into between a contractor and a debarred

INSTRUCTIONS TO BIDDERS

subcontractor is void as a matter of law. A debarred subcontractor may not receive any public money for performing work as a subcontractor on a public works contract. Any public money that is paid to a debarred subcontractor by the Contractor for the Project shall be returned to the District. The Contractor shall be responsible for the payment of wages to workers of a debarred subcontractor who has been allowed to work on the Project.

25. PERFORMANCE BOND AND PAYMENT (LABOR AND MATERIALS) BOND REQUIREMENTS

Within the time specified in the Contract Documents, the Bidder to whom a Contract is awarded shall deliver to the District four identical counterparts of the Performance Bond and Payment (Labor and Materials) Bond in the form supplied by the District and included in the Contract Documents. Failure to do so may, in the sole discretion of District, result in the forfeiture of the Bid Guarantee. The surety supplying the bond must be an admitted surety insurer, as defined in Code of Civil Procedure Section 995.120, authorized to do business as such in the State of California and satisfactory to the District. The Performance Bond and the Payment (Labor and Materials) Bond shall be for one hundred percent (100%) of the Total Bid Price.

26. REQUEST FOR SUBSTITUTIONS

The successful bidder shall comply with the substitution request provisions set forth in the Special Conditions, including any deadlines for substitution requests **which may occur prior to the bid opening date.**

27. SALES AND OTHER APPLICABLE TAXES, PERMITS, LICENSES AND FEES

Contractor and its subcontractors performing work under this Contract will be required to pay California sales tax and other applicable taxes, and to pay for permits, licenses and fees required by the agencies with authority in the jurisdiction in which the work will be located, unless otherwise expressly provided by the Contract Documents.

28. EXECUTION OF CONTRACT

As required herein the Bidder to whom an award is made shall execute the Contract in the amount determined by the Contract Documents. The District may require appropriate evidence that the persons executing the Contract are duly empowered to do so.

END OF INSTRUCTION TO BIDDERS

INSTRUCTIONS TO BIDDERS

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BID FORM

NAME OF BIDDER: TNT Industrial Contractors, Inc.

The undersigned, hereby declare that we have carefully examined the location of the proposed Work, and have read and examined the Contract Documents, including all plans, specifications, and all addenda, if any, for the following Project:

Hampton Village WTP Refurbishment Project

We hereby propose to furnish all labor, materials, equipment, tools, transportation, and services, and to discharge all duties and obligations necessary and required to perform and complete the Project for the following **TOTAL BID PRICE:**

BID SCHEDULE

Item	Description	Units	Quantity	Total Cost (Figures)
1	Mobilization	LS	1	20,902
2	Site Preparation and Cleanup	LS	1	3,807
3	Reaction Vessels Rehabilitation	LS	1	5,446
4	Filter Vessels Rehabilitation	LS	1	90,401
5	Yard Piping Modification	LS	1	67,004
6	Backwash System Modifications	LS	1	17,645
7	Chemical Feed System	LS	1	131,583
8	Electrical/Instrumentation	LS	1	589,700
9	Painting	LS	1	39,134
10	A.C. Paving	LS	1	24,401
11	Project Closeout	LS	1	1,879
12	Backwash Tank Interior Painting	LS	1	4,137
TOTAL BASE BID (BASED ON BID SCHEDULE TOTAL COSTS)				996,039
TOTAL BASE BID (IN WORDS)				NINE HUNDRED NINETY SIX THOUSAND THIRTY NINE /00/00

BID FORM

In case of discrepancy between the unit price and the item cost set forth for a unit basis item, the unit price shall prevail and, shall be utilized as the basis for determining the lowest responsive, responsible bidder. However, if the amount set forth as a unit price is ambiguous, unintelligible or uncertain for any cause, or is omitted, or is the same amount as the entry in the "Item Cost" column, then the amount set forth in the "Item Cost" column for the item shall prevail and shall be divided by the estimated quantity for the item and the price thus obtained shall be the unit price. Final payment shall be determined by the Engineer from measured quantities of work performed based upon the unit price.

In case of discrepancy between the written price and the numerical price, the written price shall prevail.

The undersigned agrees that this Bid Form constitutes a firm offer to the District which cannot be withdrawn for the number of calendar days indicated in the Notice Inviting Bids from and after the bid opening, or until a Contract for the Work is fully executed by the District and a third party, whichever is earlier.

Addenda No. 1 - 6/2/2014

Addenda No. 3 - 6/5/2014

Addenda No. 2 - 6/4/2014


Addenda No. 4 - 6/5/2014

Addenda No. 5 - 6/16/2014

1. Attached is the required bid security in the amount of not less than 10% of the Total Bid Price.
2. Attached is the fully executed Non-Collusion Affidavit form.
3. Attached is the completed Designation of Subcontractors form.
4. Attached is the completed Bidder Information Form.
5. Attached is the completed Contractor's Certificate Regarding Workers' Compensation form.
6. Bidder acknowledges and understands that, pursuant to Public Contract Code Section 20676, sellers of "mined material" must be on an approved list of sellers published pursuant to Public Resources Code Section 2717(b) in order to supply mined material for this Contract.

I hereby certify under penalty of perjury under the laws of the State of California, that all of the information submitted in connection with this Bid and all of the representations made herein are true and correct.

Name of Bidder TNT Industrial Contractors, Inc.

Signature 

Name and Title Joshua Twist, President

Dated June 17, 2014

BID FORM

**CONTRACTOR'S CERTIFICATE REGARDING
WORKERS' COMPENSATION**

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract.

Name of Bidder TNT Industrial Contractors, Inc.

Signature  _____

Name Joshua Twist

Title President

Dated June 17, 2014

**CONTRACTOR'S CERTIFICATE REGARDING
WORKERS' COMPENSATION**

BID BOND

The makers of this bond are, TNT Industrial Contractors, Inc., as Principal, and Travelers Casualty and Surety Company of America, as Surety and are held and firmly bound unto the Florin Resource Conservation District, hereinafter called the District, in the penal sum of TEN PERCENT (10%) OF THE TOTAL BID PRICE of the Principal submitted to DISTRICT for the work described below, for the payment of which sum in lawful money of the United States, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that whereas the Principal has submitted the accompanying bid dated June 17, 20 14, for Hampton Village Water Treatment Plant Refurbishment Project.

If the Principal does not withdraw its bid within the time specified in the Contract Documents; and if the Principal is awarded the Contract and provides all documents to the District as required by the Contract Documents; then this obligation shall be null and void. Otherwise, this bond will remain in full force and effect.

Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract Documents shall in affect its obligation under this bond, and Surety does hereby waive notice of any such changes.

In the event a lawsuit is brought upon this bond by the District and judgment is recovered, the Surety shall pay all litigation expenses incurred by the District in such suit, including reasonable attorneys' fees, court costs, expert witness fees and expenses.

IN WITNESS WHEREOF, the above-bound parties have executed this instrument under their several seals this 13th day of June, 20 14, the name and corporate seal of each corporation

(Corporate Seal)

TNT Industrial Contractors, Inc.
Principal
By [Signature]
Title Joshua Twist, President

(Corporate Seal)

Surety Travelers Casualty and Surety Company of America
By [Signature]
Erin Johnson

(Attach Attorney-in-Fact Certificate)

Title Attorney-in-Fact

BID BOND

STATE OF CALIFORNIA)
COUNTY OF Sacramento) ss.

On 6/17, 2014 before me, Paula mattos, notary public, personally appeared Joshua Twist, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Paula Mattos

Signature of Notary Public

(SEAL)

Commission expires: 9/24/17

NOTE: A copy of the Power-of-Attorney to local representatives of the bonding company must be attached hereto.



BID BOND

15

Elk Grove Water District
Hampton Village WTP Refurbishment
May 2014

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

STATE OF CALIFORNIA

County of Sacramento



On 6/13/14 before me, Sandra R. Black, Notary Public,
Date Insert Name of Notary exactly as it appears on the official seal

personally appeared Erin Johnson
Name(s) of Signer(s)



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

Witness my hand and official seal.

Signature [Handwritten Signature]
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of the form to another document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

- Individual
- Corporate Officer — Title(s): _____
- Partner Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____

RIGHT THUMBPRINT OF SIGNER

Top of thumb here

Signer is Representing:
Travelers Casualty and Surety Company of America

Signer's Name: _____

- Individual
- Corporate Officer — Title(s): _____
- Partner Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____

RIGHT THUMBPRINT OF SIGNER

Top of thumb here

Signer is Representing:



POWER OF ATTORNEY

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company

Attorney-In Fact No. 225200

Certificate No. 005628872

KNOW ALL MEN BY THESE PRESENTS: That Farmington Casualty Company, St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company are corporations duly organized under the laws of the State of Connecticut, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

Sharon J. Rusconi, Sandra R. Black, and Erin Johnson

of the City of Sacramento, State of California, their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 6th day of September, 2013.

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company



State of Connecticut
City of Hartford ss.

By: [Signature]
Robert L. Raney, Senior Vice President

On this the 6th day of September, 2013, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.
My Commission expires the 30th day of June, 2016.



[Signature]
Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary, of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 13th day of June, 2014.


Kevin E. Hughes, Assistant Secretary



To verify the authenticity of this Power of Attorney, call 1-800-421-3880 or contact us at www.travelersbond.com. Please refer to the Attorney-In-Fact number, the above-named individuals and the details of the bond to which the power is attached.

DESIGNATION OF SUBCONTRACTORS

In compliance with the Subletting and Subcontracting Fair Practices Act of the Public Contract Code of the State of California, each bidder shall set forth below: (a) the name and the location of the place of business and (b) the portion of the work which will be done by each subcontractor who will perform work or labor or render service to the Contractor in or about the construction of the work in an amount in excess of one-half of one percent (1/2%) of the Contractor's Total Bid Price. Notwithstanding the foregoing, if the work involves streets and highways, then the Contractor shall list each subcontractor who will perform work or labor or render service to Contractor in or about the work in an amount in excess of one-half of one percent (1/2%) of the Contractor's Total Bid Price or \$10,000, whichever is greater. No additional time shall be granted to provide the below requested information.

If no subcontractor is specified, for a portion of the work, or if more than one subcontractor is specified for the same portion of Work, to be performed under the Contract in excess of one-half of one percent (1/2%) of the Contractor's Total Bid Price or \$10,000, whichever is greater if the work involves streets or highways, then the Contractor shall be deemed to have agreed that it is fully qualified to perform that Work, and that it shall perform that portion itself.

Portion of Work	Subcontractor	Location of Business
ELECTRICAL	SAC VALLEY ELE.	SAC, CA.
PAINTING & COATINGS	JEFFCO PAINT.	VALLEJO, CA.
PAVING	BLACK ROCK PAV.	ROCKLIN, CA.
HVAC	JAMES LONG CONS.	SAC, CA.

Name of Bidder TNT Industrial Contractors, Inc.

Signature 

Name and Title Joshua Twist, President

Dated June 17, 2014

DESIGNATION OF SUBCONTRACTORS

INFORMATION REQUIRED OF BIDDERS

A. INFORMATION ABOUT BIDDER

NOTE: Where Bidder is a joint venture, pages shall be duplicated and information provided for all parties to the joint venture.

1.0 Bidders Name and address: TNT Industrial Contractors, Inc.
3600 51st Avenue, Sacramento, CA 95823

2.0 Bidders telephone no.: 916-395-8400

3.0 Bidders fax no. and email address: 916-395-8429, jtwist@tntindustrial.com

4.0 Contractor' State License No. and Expiration Date: : 622974, 07/31/15

5.0 Contractor's Primary classification: A

6.0 Contractor's Specialty classification: B

Name of Licensee, if different from (1) above. If Joint Venture or Partnership, list full names of all partners:

"same"

7.0 What type of work does the Bidder normally perform with its own forces?

Mechanical and Civil Work

8.0 Has Bidder ever failed to complete any work awarded to it? If so, note when, where, and why:

NO

INFORMATION REQUIRED OF BIDDERS

9.0 Within the last five years, has any officer or partner of Bidder's organization ever been an officer or partner of another organization when it failed to complete a contract? If so, state why and when:

NO

10.0 At any time in the last five years has your firm failed to satisfactorily complete any work whereby the owner was forced to either take legal action or contact the surety company bonding the project to resolve the conflict? If so, state the circumstance.

NO

B. LIST OF THREE SIMILAR COMPLETED PROJECTS - LAST THREE YEARS

Please include only those projects which are similar enough to demonstrate Bidder's ability to perform the required Work. The list shall include the following information as a minimum:

1.0 Name of Project, and Owner: Bollman WTP Sulfuric Acid & Metering Vault Upgrade

2.0 Name, address and contact information for Owner: Contra Costa Water District

2411 Bisso Lane, Concord, CA Dan Jones, P.E. 925-688-8341

3.0 Brief description of work involved: Replaced Sulfuric Acid pumps & Piping, new concrete & vault for metering vault. Electrical & controls.

4.0 Contract amount: \$782,298.00

5.0 Date of Completion: 07/03/2013

6.0 Name of Project, and Owner: Pre-Chlorination Equipment Installation Project

7.0 Name, address and contact information for Owner: Sacramento WWTP

8521 Laguna Station Rd., Elk Grove, CA Gerardo Aquirre, P.E. 916-875-9075

8.0 Brief description of work involved: Installed new chemical piping and Owner furnished equipment.

INFORMATION REQUIRED OF BIDDERS

9.0 Contract amount: \$97,323.00

10.0 Date of Completion: 07/13/2011

11.0 Name of Project, and Owner: Polymer and Alum Piping Replacement Project

12.0 Name, address and contact information for Owner: City of Fairfield

1000 Webster St., Fairfield, CA Brandan Hiltman 707-437-5381

13.0 Brief description of work involved: Replaced piping and valves, PVC Sch. 80, for the Alum & Polymer system. Approx 1500 Linear Ft.

14.0 Contract amount: \$78,664.00

15.0 Date of Completion: 04/30/2014

C. EQUIPMENT SUPPLIER LISTING

The following are the names of the manufacturers and suppliers of major items of equipment and systems to be used by the Bidder in the work.

Section Number	Equipment Description	Manufacturer and/or Supplier
11550	Filter Media	LOPREST
17201	Electrical and Controls Panel Shop	TESCO

D. VERIFICATION AND EXECUTION

These Bid Forms shall be executed only by a duly authorized official of the Bidder:

I declare under penalty of perjury under the laws of the State of California that the foregoing information is true and correct:

Name of Bidder Joshua Twist

Signature 

Company Name: TNT Industrial Contractors, Inc.

INFORMATION REQUIRED OF BIDDERS

The Owner will check project references listed to verify information provided along with skills and capacity represented by Contractor. It is very important that the Bidder verify that all contact information is current for each name listed above.

The undersigned hereby states that all above representations are correct and true.

June 17, 2014

Date

Joshua Twist

Name

President

Signatory Title

TNT Industrial Contractors, Inc.

Company Name

622974

CA Contractor License No.

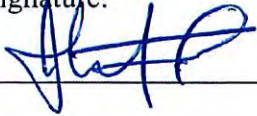
A, B

License Classification

07/31/2015

License Expiration Date

Signature:



INFORMATION REQUIRED OF BIDDERS

NON-COLLUSION AFFIDAVIT

I, Joshua Twist, being first duly sworn, deposes and says that he is President of TNT Industrial Cont. the party making the attached bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

I certify (or declare) under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Name of Bidder TNT Industrial Contractors, Inc.

Signature  _____

Name Joshua Twist

Title President

Dated June 17, 2014

INFORMATION REQUIRED OF BIDDERS

CONTRACT

THIS CONTRACT is made this ____ day of _____, 2014, in the County of Sacramento, State of California, by and between the Florin Resource Conservation District, hereinafter called District, and TNT Industrial Contractors, Inc., hereinafter called Contractor. The District and the Contractor for the considerations stated herein agree as follows:

ARTICLE 1. SCOPE OF WORK. The Contractor shall perform all Work within the time stipulated the Contract and shall provide all labor, materials, equipment, tools, utility services, and transportation to complete all of the Work required in strict compliance with the Contract Documents as specified in Article 5 below for the following Project:

Hampton Village Water Treatment Plant Refurbishment Project

The Contractor and its surety shall be liable to the District for any damages arising as a result of the Contractor's failure to comply with this obligation.

ARTICLE 2. TIME FOR COMPLETION. The Work shall be commenced on the date stated in the District's Notice to Proceed. The Contractor shall substantially complete all Work required by the Contract Documents within 150 calendar days from the commencement date stated in the Notice to Proceed. By its signature hereunder, Contractor agrees the time for completion set forth above is adequate and reasonable to complete the Work.

ARTICLE 3. CONTRACT PRICE. The District shall pay to the Contractor as full compensation for the performance of the Contract, subject to any additions or deductions as provided in the Contract Documents, and including all applicable taxes and costs, the sum of Nine Hundred Ninety Six Thousand Thirty Nine Dollars (\$996,039). Payment shall be made as set forth in the General Conditions.

ARTICLE 4. LIQUIDATED DAMAGES. In accordance with Government Code section 53069.85, it is agreed that the Contractor will pay the District the sum of \$250 for each and every calendar day of delay beyond the time prescribed in the Contract Documents for finishing the Work, as Liquidated Damages and not as a penalty or forfeiture. In the event this is not paid, the Contractor agrees the District may deduct that amount from any money due or that may become due the Contractor under the Contract. This Article does not exclude recovery of other damages specified in the Contract Documents.

ARTICLE 5. COMPONENT PARTS OF THE CONTRACT. The "Contract Documents" include the following:

Notice Inviting Bids
Instructions to Bidders
Contractor's Bid Forms

CONTRACT

22

Contractor's Certificate Regarding Workers' Compensation
Bid Bond
Designation of Subcontractors
Information Required of Bidders
Non-Collusion Affidavit form
Contract
Performance Bond
Payment (Labor and Materials) Bond
General Conditions
Special Provisions (or Special Conditions)
Technical Specifications
Elk Grove Water Service Standard Construction Specifications
Addenda
Plans and Contract Drawings
Approved and fully executed change orders
Any other documents contained in or incorporated into the Contract

The Contactor shall complete the Work in strict accordance with all of the Contract Documents.

All of the Contract Documents are intended to be complementary. Work required by one of the Contract Documents and not by others shall be done as if required by all. This Contract shall supersede any prior agreement of the parties.

ARTICLE 6. PROVISIONS REQUIRED BY LAW. Each and every provision of law required to be included in these Contract Documents shall be deemed to be included in these Contract Documents. The Contractor shall comply with all requirements of applicable federal, state and local laws, rules and regulations, including, but not limited to, the provisions of the California Labor Code and California Public Contract Code which are applicable to this Project.

ARTICLE 7. INDEMNIFICATION. Contractor shall provide indemnification as set forth in the General Conditions.

ARTICLE 8. PREVAILING WAGES. Contractor shall be required to pay the prevailing rate of wages in accordance with the Labor Code which such rates shall be made available at 2031 Howe Avenue Suite 100, Sacramento, CA or may be obtained online at <http://www.dir.ca.gov/dlsr>. and which must be posted at the job site.

CONTRACT

23

IN WITNESS WHEREOF, this Contract has been duly executed by the above-named parties, on the day and year above written.

<p>FLORIN RESOURCE CONSERVATION DISTRICT</p> <p>By:</p> <p>_____ Signature</p> <p>Mark J. Madison, P.E. _____ Name</p> <p>General Manager _____ Title</p> <p>Attest:</p> <p>_____ District Clerk</p> <p>Approved as to Form:</p> <p>_____ Best Best & Krieger LLP</p> <p>Ann Siprelle _____ Name</p> <p>General Counsel _____ Title</p>	<p><u>[NAME OF CONTRACTOR]</u></p> <p>By:</p> <p>_____ Signature</p> <p>_____ Name</p> <p>_____ Title</p> <p>_____ License Number</p>
---	---

CONTRACT

PERFORMANCE BOND

KNOW ALL PERSONS BY THESE PRESENTS:

THAT WHEREAS, _____ (hereinafter referred to as "District") has awarded to _____, (hereinafter referred to as the "Contractor") an agreement for _____ (hereinafter referred to as the "Project").

WHEREAS, the work to be performed by the Contractor is more particularly set forth in the Contract Documents for the Project dated _____, (hereinafter referred to as "Contract Documents"), the terms and conditions of which are expressly incorporated herein by reference; and

WHEREAS, the Contractor is required by said Contract Documents to perform the terms thereof and to furnish a bond for the faithful performance of said Contract Documents.

NOW, THEREFORE, we, _____, the undersigned Contractor and _____ as Surety, a corporation organized and duly authorized to transact business under the laws of the State of California, are held and firmly bound unto the District in the sum of _____ DOLLARS, (\$ _____), said sum being not less than one hundred percent (100%) of the total amount of the Contract, for which amount well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that, if the Contractor, his or its heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions and agreements in the Contract Documents and any alteration thereof made as therein provided, on its part, to be kept and performed at the time and in the manner therein specified, and in all respects according to their intent and meaning; and shall faithfully fulfill all obligations including the one-year guarantee of all materials and workmanship; and shall indemnify and save harmless the District, its officers and agents, as stipulated in said Contract Documents, then this obligation shall become null and void; otherwise it shall be and remain in full force and effect.

As a part of the obligation secured hereby and in addition to the face amount specified therefore, there shall be included costs and reasonable expenses and fees including reasonable attorney's fees, incurred by District in enforcing such obligation.

As a condition precedent to the satisfactory completion of the Contract Documents, unless otherwise provided for in the Contract Documents, the above obligation shall hold good for a period of one (1) year after the acceptance of the work by District, during which time if Contractor shall fail to make full, complete, and satisfactory repair and replacements and totally protect the District from loss or damage resulting from or caused by defective materials or faulty workmanship. The obligations of Surety hereunder shall continue so long as any obligation of Contractor remains. Nothing herein shall limit the District's rights or the Contractor or Surety's

PERFORMANCE BOND

obligations under the Contract, law or equity, including, but not limited to, California Code of Civil Procedure section 337.15.

Whenever Contractor shall be, and is declared by the District to be, in default under the Contract Documents, the Surety shall remedy the default pursuant to the Contract Documents, or shall promptly, at the District's option:

- (1) Take over and complete the Project in accordance with all terms and conditions in the Contract Documents; or
- (2) Obtain a bid or bids for completing the Project in accordance with all terms and conditions in the Contract Documents and upon determination by Surety of the lowest responsive and responsible bidder, arrange for a Contract between such bidder, the Surety and the District, and make available as work progresses sufficient funds to pay the cost of completion of the Project, less the balance of the contract price, including other costs and damages for which Surety may be liable. The term "balance of the contract price" as used in this paragraph shall mean the total amount payable to Contractor by the District under the Contract and any modification thereto, less any amount previously paid by the District to the Contractor and any other set offs pursuant to the Contract Documents.
- (3) Permit the District to complete the Project in any manner consistent with California law and make available as work progresses sufficient funds to pay the cost of completion of the Project, less the balance of the contract price, including other costs and damages for which Surety may be liable. The term "balance of the contract price" as used in this paragraph shall mean the total amount payable to Contractor by the District under the Contract and any modification thereto, less any amount previously paid by the District to the Contractor and any other set offs pursuant to the Contract Documents.

Surety expressly agrees that the District may reject any contractor or subcontractor which may be proposed by Surety in fulfillment of its obligations in the event of default by the Contractor.

Surety shall not utilize Contractor in completing the Project nor shall Surety accept a bid from Contractor for completion of the Project if the DISTRICT, when declaring the Contractor in default, notifies Surety of the District's objection to Contractor's further participation in the completion of the Project.

The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract Documents or to the Project to be performed thereunder shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract Documents or to the Project.

PERFORMANCE BOND

IN WITNESS WHEREOF, we have hereunto set our hands and seals this _____ day of _____, 20____.

CONTRACTOR/PRINCIPAL

Name

By _____

SURETY:

By: _____

Attorney-In-Fact

The rate of premium on this bond is _____ per thousand. The total amount of premium charges, \$ _____.
(The above must be filled in by corporate attorney.)

THIS IS A REQUIRED FORM

Any claims under this bond may be addressed to:

(Name and Address of Surety)

(Name and Address of Agent or Representative for service of process in California, if different from above)

(Telephone number of Surety and Agent or Representative for service of process in California)

PERFORMANCE BOND

STATE OF CALIFORNIA)
) ss.
DISTRICT OF _____)

On this _____ day of _____, in the year 20____, before me, _____, a Notary Public in and for said state, personally appeared _____, known to me to be the person whose name is subscribed to the within instrument as the Attorney-In-Fact of the (Surety) acknowledged to me that he subscribed the name of the _____ (Surety) thereto and his own name as Attorney-In-Fact.

Notary Public in and for said State

(SEAL)

Commission expires: _____

NOTE: A copy of the Power-of-Attorney to local representatives of the bonding company must be attached hereto.

PERFORMANCE BOND

PAYMENT BOND (LABOR AND MATERIALS)

KNOW ALL MEN BY THESE PRESENTS That

WHEREAS, the Florin Resource Conservation District (hereinafter designated as the "District"), by action taken or a resolution passed _____, 20____ has awarded to _____ hereinafter designated as the "Principal," a contract for the work described as follows:

(the "Project"); and

WHEREAS, said Principal is required to furnish a bond in connection with said contract; providing that if said Principal or any of its Subcontractors shall fail to pay for any materials, provisions, provender, equipment, or other supplies used in, upon, for or about the performance of the work contracted to be done, or for any work or labor done thereon of any kind, or for amounts due under the Unemployment Insurance Code or for any amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of said Principal and its Subcontractors with respect to such work or labor the Surety on this bond will pay for the same to the extent hereinafter set forth.

NOW THEREFORE, we, the Principal and _____ as Surety, are held and firmly bound unto the District in the penal sum of _____ Dollars (\$_____) lawful money of the United States of America, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that if said Principal, his or its subcontractors, heirs, executors, administrators, successors or assigns, shall fail to pay any of the persons named in Section 3181 of the Civil Code, fail to pay for any materials, provisions or other supplies, used in, upon, for or about the performance of the work contracted to be done, or for any work or labor thereon of any kind, or amounts due under the Unemployment Insurance Code with respect to work or labor performed under the contract, or for any amounts required to be deducted, withheld, and paid over to the Employment Development Department or Franchise Tax Board from the wages of employees of the contractor and his subcontractors pursuant to Section 18663 of the Revenue and Taxation Code, with respect to such work and labor the Surety or Sureties will pay for the same, in an amount not exceeding the sum herein above specified, and also, in case suit is brought upon this bond, all litigation expenses incurred by the District in such suit, including reasonable attorneys' fees, court costs, expert witness fees and investigation expenses.

This bond shall inure to the benefit of any of the persons named in Section 3181 of the Civil Code so as to give a right of action to such persons or their assigns in any suit brought upon this bond.

PAYMENT BOND (LABOR AND MATERIALS)

It is further stipulated and agreed that the Surety on this bond shall not be exonerated or released from the obligation of this bond by any change, extension of time for performance, addition, alteration or modification in, to, or of any contract, plans, specifications, or agreement pertaining or relating to any scheme or work of improvement herein above described, or pertaining or relating to the furnishing of labor, materials, or equipment therefore, nor by any change or modification of any terms of payment or extension of the time for any payment pertaining or relating to any scheme or work of improvement herein above described, nor by any rescission or attempted rescission or attempted rescission of the contract, agreement or bond, nor by any conditions precedent or subsequent in the bond attempting to limit the right of recovery of claimants otherwise entitled to recover under any such contract or agreement or under the bond, nor by any fraud practiced by any person other than the claimant seeking to recover on the bond and that this bond be construed most strongly against the Surety and in favor of all persons for whose benefit such bond is given, and under no circumstances shall Surety be released from liability to those for whose benefit such bond has been given, by reason of any breach of contract between the owner or District and original contractor or on the part of any obligee named in such bond, but the sole conditions of recovery shall be that claimant is a person described in Section 3110 or 3112 of the Civil Code, and has not been paid the full amount of his claim and that Surety does hereby waive notice of any such change, extension of time, addition, alteration or modification herein mentioned.

IN WITNESS WHEREOF, two (2) identical counterparts of this instrument, each of which shall for all purposes be deemed unoriginal thereof, have been duly executed by the Principal and Surety above named, on the ____ day of _____ 20____ the name and corporate seal of each corporate party being hereto affixed and these presents duly signed b its undersigned representative pursuant to authority of its governing body.

(Corporate Seal of Principal,
if corporation)

Principal (Property Name of Contractor)

By _____
(Signature of Contractor)

(Seal of Surety)

Surety

By _____
Attorney in Fact

(Attached Attorney-In-Fact Certificate and Required Acknowledgements)

*Note: Appropriate Notarial Acknowledgments of Execution by Contractor and +surety and a power of Attorney MUST BE ATTACHED.

PAYMENT BOND (LABOR AND MATERIALS)

GENERAL CONDITIONS

ARTICLE 1. DEFINITIONS

- a. Acceptable, Acceptance or words of similar import shall be understood to be the acceptance of the Engineer and/or the District .
- b. Act of God an Act of God is an earthquake of magnitude 3.5 on the Richter scale and tidal waves.
- c. Approval means written authorization by Engineer and/or District .
- d. Contract Documents includes all documents as stated in the Contract.
- e. District and Contractor are those stated in the Contract. The terms District and Owner may be used interchangeably.
- f. Day shall mean calendar day unless otherwise specifically designated.
- g. Engineer shall mean the Project Engineer and/or Manager designated by the Florin Resource Conservation District, acting either directly or through properly authorized agents, such as agents acting within the scope of the particular duties entrusted to them. Also sometimes referred to as the “District’s Representative,” “Engineer” or “Representative” in the Contract Documents.
- h. Equal, Equivalent, Satisfactory, Directed, Designated, Selected, As Required and similar words shall mean the written approval, selection, satisfaction, direction, or similar action of the Engineer and/or District.
- i. Indicated, Shown, Detailed, Noted, Scheduled or words of similar meaning shall mean that reference is made to the drawings, unless otherwise noted. It shall be understood that the direction, designation, selection, or similar import of the Engineer and/or District is intended, unless stated otherwise.
- j. Install means the complete installation of any item, equipment or material.
- k. Material shall include machinery, equipment, manufactured articles, or construction such as form work, fasteners, etc., and any other classes of material to be furnished in connection with the Contract. All materials shall be new unless specified otherwise.
- l. Perform shall mean that the Contractor, at Contractor’s expense, shall take all actions necessary to complete The Work, including furnishing of necessary labor, tools, and equipment, and providing and installing Materials that are indicated, specified, or required to complete such performance.

GENERAL CONDITIONS

- m. Project is The Work planned by District as provided in the Contract Documents.
- n. Provide shall include provide complete in place, that is furnish, install, test and make ready for use.
- o. Recyclable Waste Materials shall mean materials removed from the Project site which are required to be diverted to a recycling center rather than an area landfill. Recyclable Waste Materials include asphalt, concrete, brick, concrete block, and rock.
- p. Specifications means that portion of the Contract Documents consisting of the written requirements for materials, equipment, construction systems, standards and workmanship for the work and those portions of the Elk Grove Water Service Standard Construction Specification, including all current supplements, addenda, and revisions thereof. In the case of conflict between the Elk Grove Water Service Standard Construction Specifications and the Contract Documents, the Contract Documents shall prevail.
- q. The Work means the entire improvement planned by the District pursuant to the Contract Documents.
- r. Work means labor, equipment and materials incorporated in, or to be incorporated in the construction covered by the Contract Documents.

ARTICLE 2. CONTRACT DOCUMENTS

- a. **Contract Documents.** The Contract Documents are complementary, and what is called for by one shall be as binding as if called for by all.
- b. **Interpretations.** The Contract Documents are intended to be fully cooperative and to be complementary. If Contractor observes that any documents are in conflict, the Contractor shall promptly notify the Engineer in writing. In case of conflicts between the Contract Documents, the order of precedence shall be as follows:
 - 1. Change Orders or Work Change Directives
 - 2. Addenda
 - 3. Special Provisions (or Special Conditions)
 - 4. Technical Specifications
 - 5. Plans (Contract Drawings)
 - 6. Contract
 - 7. General Conditions
 - 8. Instructions to Bidders
 - 9. Notice Inviting Bids
 - 10. Contractor's Bid Forms
 - 11. Elk Grove Water Service Standard Construction Specifications
 - 12. Standard Plans
 - 13. Reference Documents

GENERAL CONDITIONS

With reference to the Drawings, the order of precedence shall be as follows:

1. Figures govern over scaled dimensions
 2. Detail drawings govern over general drawings
 3. Addenda or Change Order drawings govern over Contract Drawings
 4. Contract Drawings govern over Standard Drawings
 5. Contract Drawings govern over Shop Drawings
- c. **Conflicts in Contract Documents.** Notwithstanding the orders of precedence established above, in the event of conflicts, the higher standard shall always apply.
- d. **Organization of Contract Documents.** Organization of the Contract Documents into divisions, sections, and articles, and arrangement of drawings shall not control the Contractor in dividing The Work among subcontractors or in establishing the extent of Work to be performed by any trade.

ARTICLE 3. CONTRACTS DOCUMENTS: COPIES & MAINTENANCE

Contractor will be furnished, free of charge, an electronic copy of the final Contract Documents. Additional copies will be the responsibility of the contractor.

Contractor shall maintain a clean, undamaged set of Contract Documents at the Project site. Bids must be submitted on the District's Bid Forms. Bidders may obtain a copy of the Contract Documents at: ARC Document Solutions at 801 Broadway, Sacramento, CA 95813, (916) 443-1322 or www.e-arc.com

ARTICLE 4. DETAIL DRAWINGS AND INSTRUCTIONS

- a. **Examination of Contract Documents.** Before commencing any portion of The Work, Contractor shall again carefully examine all applicable Contract Documents, the Project site and other information given to Contractor as to materials and methods of construction and other Project requirements. Contractor shall immediately notify the Engineer of any potential error, inconsistency, ambiguity, conflict or lack of detail or explanation. If Contractor performs, permits, or causes the performance of any Work which is in error, inconsistent or ambiguous, or not sufficiently detailed or explained, Contractor shall bear any and all resulting costs, including, without limitation, the cost of correction. In no case shall the Contractor or any subcontractor proceed with Work if uncertain as to the applicable requirements.
- b. **Additional Instructions.** After notification of any error, inconsistency, ambiguity, conflict or lack of detail or explanation, the Engineer will provide any required additional instructions, by means of drawings or other written direction, necessary for proper execution of Work.

GENERAL CONDITIONS

- c. **Quality of Parts, Construction and Finish.** All parts of The Work shall be of the best quality of their respective kinds and the Contractor must use all diligence to inform itself fully as to the required construction and finish. In no case shall Contractor proceed with The Work without obtaining first from the Engineer such Approval may be necessary for the proper performance of Work.
- d. **Contractor's Variation from Contract Document Requirements.** If it is found that the Contractor has varied from the requirements of the Contract Documents including the requirement to comply with all applicable laws, ordinances, rules and regulations, the Engineer may at any time, before or after completion of the Work, order the improper Work removed, remade or replaced by the Contractor at the Contractor's expense.

ARTICLE 5. EXISTENCE OF UTILITIES AT THE WORK SITE

- a. No excavations were made to verify the locations shown for underground utilities. The service connections to these utilities are not shown on the plans. It shall be the responsibility of the Contractor to determine the exact location of all service connections. The Contractor shall make its own investigations, including exploratory excavations, to determine the locations and type of service connections, prior to commencing Work which could result in damage to such utilities. The Contractor shall immediately notify the District in writing of any utility discovered in a different position than shown on the Plans or which is not shown on the Plans.
- b. All water meters, water valves, fire hydrants, electrical utility vaults, telephone vaults, gas utility valves, and other subsurface structures shall be relocated or adjusted to final grade by the Contractor. Locations of existing utilities shown on the Plans are approximate and may not be complete. The Contractor shall be responsible for coordinating its Work with all utility companies during the construction of The Work.
- c. Contractor, except in an emergency, shall contact the appropriate regional notification center, Underground Service Alert at 1-800-227-2600 at least two working days prior to commencing any excavation if the excavation will be performed in an area which is known, or reasonably should be known, to contain subsurface installations other than the underground facilities owned or operated by the District, and obtain an inquiry identification number from that notification center. No excavation shall be commenced or carried out by the Contractor unless such an inquiry identification number has been assigned to the Contractor or any subcontractor of the Contractor and the District has been given the identification number by the Contractor.

ARTICLE 6. SCHEDULE

- a. **Estimated Schedule.** Within seven (7) days after the issuance of the Notice to Proceed, Contractor shall prepare a Project schedule and shall submit this to the Engineer for Approval. The receipt or Approval of any schedules by the Engineer or the District shall

GENERAL CONDITIONS

not in any way relieve the Contractor of its obligations under the Contract Documents. The Contractor is fully responsible to determine and provide for any and all staffing and resources at levels which allow for good quality and timely completion of the Project. Contractor's failure to incorporate all elements of Work required for the performance of the Contract or any inaccuracy in the schedule shall not excuse the Contractor from performing all Work required for a completed Project within the specified Contract time period. If the required schedule is not received by the time the first payment under the Contract is due, Contractor shall not be paid until the schedule is received, reviewed and accepted by the Engineer.

- b. **Schedule Contents.** The schedule shall allow enough time for inclement weather. The schedule shall indicate the beginning and completion dates of all phases of construction; critical path for all critical, sequential time related activities; and "float time" for all "slack" or "gaps" in the non-critical activities. The schedule shall clearly identify all staffing and other resources which in the Contractor's judgment are needed to complete the Project within the time specified for completion. Schedule duration shall match the Contract time. Schedules indicating early completion will be rejected.
- c. **Schedule Updates.** Contractor shall continuously update its construction schedule. Contractor shall submit an updated and accurate construction schedule to the Engineer whenever requested to do so by Engineer and with each progress payment request. The Engineer may withhold progress payments or other amounts due under the Contract Documents if Contractor fails to submit an updated and accurate construction schedule.

ARTICLE 7. SUBSTITUTIONS

- a. Pursuant to Public Contract Code Section 3400(b) the District may make a finding that is described in the invitation for bids that designates certain products, things, or services by specific brand or trade name.
- b. Unless specifically designated in the Contract Documents, whenever any material, process, or article is indicated or specified by grade, patent, or proprietary name or by name of manufacturer, such Specifications shall be deemed to be used for the purpose of facilitating the description of the material, process or article desired and shall be deemed to be followed by the words "or equal." Contractor may, unless otherwise stated, offer for substitution any material, process or article which shall be substantially equal or better in every respect to that so indicated or specified in the Contract Documents. However, the District may have adopted certain uniform standards for certain materials, processes and articles.
- c. Contractor shall submit requests, together with substantiating data, for substitution of any "or equal" material, process or article no later than thirty-five (35) days after award of the Contract. To facilitate the construction schedule and sequencing, some requests may need to be submitted before thirty-five (35) days after award of Contract. Provisions regarding

GENERAL CONDITIONS

submission of “or equal” requests shall not in any way authorize an extension of time for performance of this Contract. If a proposed “or equal” substitution request is rejected, Contractor shall be responsible for providing the specified material, process or article. The burden of proof as to the equality of any material, process or article shall rest with the Contractor. The District has the complete and sole discretion to determine if a material, process or article is an “or equal” material, process or article that may be substituted.

- d. Data required to substantiate requests for substitutions of an “or equal” material, process or article data shall include a signed affidavit from the Contractor stating that, and describing how, the substituted “or equal” material, process or article is equivalent to that specified in every way except as listed on the affidavit. Substantiating data shall include any and all illustrations, specifications, and other relevant data including catalog information which describes the requested substituted “or equal” material, process or article, and substantiates that it is an “or equal” to the material, process or article. The substantiating data must also include information regarding the durability and lifecycle cost of the requested substituted “or equal” material, process or article. Failure to submit all the required substantiating data, including the signed affidavit, to the District in a timely fashion will result in the rejection of the proposed substitution.
- e. The Contractor shall bear all of the District’s costs associated with the review of substitution requests.
- f. The Contractor shall be responsible for all costs related to a substituted “or equal” material, process or article.
- g. Contractor is directed to the Special Conditions (if any) to review any findings made pursuant to Public Contract Code section 3400.

ARTICLE 8. SHOP DRAWINGS

- a. Contractor shall check and verify all field measurements and shall submit with such promptness as to provide adequate time for review and cause no delay in his own Work or in that of any other contractor, subcontractor, or worker on the Project, one (1) electronic copy and three (3) copies of all shop or setting drawings, calculations, schedules, and materials list, and all other provisions required by the Contract. Contractor shall sign all submittals affirming that submittals have been reviewed and approved by Contractor prior to submission to Engineer. Each signed submittal shall affirm that the submittal meets all the requirements of the Contract Documents except as specifically and clearly noted and listed on the cover sheet of the submittal.
- b. Contractor shall make any corrections required by the Engineer, and file with the Engineer three (3) corrected copies each, and furnish such other copies as may be needed for completion of the Work. Owner’s approval of shop drawings shall not relieve Contractor from responsibility for deviations from the Contract Documents unless Contractor has, in

GENERAL CONDITIONS

writing, called Engineer's attention to such deviations at time of submission and has secured the Engineer's written Approval. Engineer's Approval of shop drawings shall not relieve Contractor from responsibility for errors in shop drawings.

ARTICLE 9. SUBMITTALS

- a. Contractor shall furnish to the Engineer for approval, prior to purchasing or commencing any Work, a log of all samples, material lists and certifications, mix designs, schedules, and other submittals, as required in the specifications. The log shall indicate whether samples will be provided in accordance with other provisions of this Contract.
- b. Contractor will provide samples and submittals, together with catalogs and supporting data required by the Engineer, to the Engineer within a reasonable time period to provide for adequate review and avoid delays in the Work.
- c. These requirements shall not authorize any extension of time for performance of this Contract. Engineer will check and approve such samples, but only for conformance with design concept of work and for compliance with information given in the Contract Documents. Work shall be in accordance with approved samples and submittals.

ARTICLE 10. MATERIALS

- a. Except as otherwise specifically stated in the Contract Documents, Contractor shall provide and pay for all materials, labor, tools, equipment, water, lights, power, transportation, superintendence, temporary constructions of every nature, and all other services and facilities of every nature whatsoever necessary to execute and complete this Contract within specified time.
- b. Unless otherwise specified, all materials shall be new and the best of their respective kinds and grades as noted and/or specified, and workmanship shall be of good quality.
- c. Materials shall be furnished in ample quantities and at such times as to ensure uninterrupted progress of The Work and shall be stored properly and protected as required by the Contract Documents. Contractor shall be entirely responsible for damage or loss by weather or other causes to materials or Work.
- d. No materials, supplies, or equipment for Work under this Contract shall be purchased subject to any chattel mortgage or under a conditional sale or other agreement by which an interest therein or in any part thereof is retained by the seller or supplier. Contractor warrants good title to all material, supplies, and equipment installed or incorporated in the work and agrees upon completion of all work to deliver the Project, to the District free from any claims, liens, or charges.
- e. Materials shall be stored on the Project site in such manner so as not to interfere with any operations of the District or any independent contractor.

GENERAL CONDITIONS

ARTICLE 11. CONTRACTOR'S SUPERVISION

Contractor shall continuously keep at the Project site, a competent and experienced full-time Project superintendent approved by the District. Superintendent must be able to proficiently speak, read and write in English. Contractor shall continuously provide efficient supervision of the Project.

ARTICLE 12. WORKERS

- a. Contractor shall at all times enforce strict discipline and good order among its employees. Contractor shall not employ on the Project any unfit person or any one not skilled in the Work assigned to him or her.
- b. Any person in the employ of the Contractor whom the District may deem incompetent or unfit shall be dismissed from The Work and shall not be employed on this Project except with the written Approval of the District.

ARTICLE 13. SUBCONTRACTORS

- a. Contractor agrees to bind every subcontractor to the terms of the Contract Documents as far as such terms are applicable to subcontractor's portion of The Work. Contractor shall be as fully responsible to the District for the acts and omissions of its subcontractors and of persons either directly or indirectly employed by its subcontractors, as Contractor is for acts and omissions of persons directly employed by Contractor. Nothing contained in these Contract Documents shall create any contractual relationship between any subcontractor and the District.
- b. The District reserves the right to Approve all subcontractors. The District's Approval of any subcontractor under this Contract shall not in any way relieve Contractor of its obligations in the Contract Documents.
- c. Prior to substituting any subcontractor listed in the Bid Forms, Contractor must comply with the requirements of the Subletting and Subcontracting Fair Practices Act pursuant to California Public Contract Code section 4100 et seq.

ARTICLE 14. PERMITS AND LICENSES

Permits and licenses necessary for prosecution of The Work shall be secured and paid for by Contractor, unless otherwise specified in the Contract Documents.

- a. Contractor shall obtain and pay for all other permits and licenses required for The Work, including excavation permit and for plumbing, mechanical and electrical work and for operations in or over public streets or right of way under jurisdiction of public agencies other than the District.

GENERAL CONDITIONS

- b. The Contractor shall arrange and pay for all off-site inspection of the Work related to permits and licenses, including certification, required by the specifications, drawings, or by governing authorities, except for such off-site inspections delineated as the District's responsibility pursuant to the Contract Documents.
- c. Before Acceptance of the Project, the Contractor shall submit all licenses, permits, certificates of inspection and required approvals to the District.

ARTICLE 15. UTILITY USAGE

- a. All temporary utilities, including but not limited to electricity, water, gas, and telephone, used on the Work shall be furnished and paid for by Contractor. Contractor shall Provide necessary temporary distribution systems, including meters, if necessary, from distribution points to points on The Work where the utility is needed. Upon completion of The Work, Contractor shall remove all temporary distribution systems.
- b. Contractor shall provide necessary and adequate utilities and pay all costs for water, electricity, gas, oil, and sewer charges required for completion of the Project.
- c. All permanent meters Installed shall be listed in the Contractor's name until Project Acceptance.
- d. If the Contract is for construction in existing facilities, Contractor may, with prior written Approval of the District, use the District's existing utilities by compensating the District for utilities used by Contractor.

ARTICLE 16. INSPECTION FEES FOR PERMANENT UTILITIES

All inspection fees and other municipal charges for permanent utilities including, but not limited to, sewer, electrical, phone, gas, water, and irrigation shall be paid for by the District. Contractor shall be responsible for arranging the payment of such fees, but inspection fees and other municipal fees relating to permanent utilities shall be paid by the District. Contractor may either request reimbursement from the District for such fees, or shall be responsible for arranging and coordination with District for the payment of such fees.

ARTICLE 17. TRENCHES

- a. Trenches Five Feet or More in Depth. The Contractor shall submit to the District, in advance of excavation, a detailed plan showing the design of shoring, bracing, sloping or other provisions to be made for worker protection from the hazard of caving ground during the excavation of any trench or trenches five feet or more in depth. If the plan varies from shoring system standards, the plan shall be prepared by a registered civil or structural engineer. The plan shall not be less effective than the shoring, bracing, sloping, or other provisions of the Construction Safety Orders, as defined in the California Code of Regulations.

GENERAL CONDITIONS

b. Excavations Deeper than Four Feet. If work under this Contract involves digging trenches or other excavation that extends deeper than four feet below the surface, Contractor shall promptly, and before the following conditions are disturbed, notify the District, in writing, of any:

- 1) Material that the Contractor believes may be material that is hazardous waste, as defined in Section 25117 of the Health and Safety Code, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law.
- 2) Subsurface or latent physical conditions at the site differing from those indicated.
- 3) Unknown physical conditions at the site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract.

The District shall promptly investigate the conditions, and if it finds that the conditions do so materially differ, or do involve hazardous waste, and cause a decrease or increase in Contractor's cost of, or the time required for, performance of any part of The Work, shall issue a change order under the procedures described in the Contract Documents.

In the event that a dispute arises between the District and the Contractor as to whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in the Contractor's cost of, or time required for, performance of any part of The Work, the Contractor shall not be excused from any scheduled completion date provided for by the Contract, but shall proceed with all Work to be performed under the Contract. Contractor shall retain any and all rights provided either by contract or by law which pertain to the resolution of disputes and protests between the parties.

ARTICLE 18. DIVERSION OF RECYCLABLE WASTE MATERIALS

In compliance with the applicable City of Elk Grove's waste reduction and recycling efforts, Contractor shall divert all Recyclable Waste Materials to appropriate recycling centers. Contractor will be required to submit weight tickets and written proof of diversion with its monthly progress payment requests if required by the City. Contractor shall complete and execute any certification forms required by the City or other applicable agencies to document Contractor's compliance with these diversion requirements. All costs incurred for these waste diversion efforts shall be the responsibility of the Contractor.

ARTICLE 19. REMOVAL OF HAZARDOUS MATERIALS

Should Contractor encounter material reasonably believed to be polychlorinated biphenyl (PCB) or other toxic wastes and hazardous materials which have not been rendered harmless at the Project site, the Contractor shall immediately stop work at the affected Project site and shall report the condition to the District in writing. The District shall contract for any services required to

GENERAL CONDITIONS

directly remove and/or abate PCBs and other toxic wastes and hazardous materials, if required by the Project site(s), and shall not require the Contractor to subcontract for such services. The Work in the affected area shall not thereafter be resumed except by written agreement of the District and Contractor.

ARTICLE 20. SANITARY FACILITIES

Contractor shall provide sanitary temporary toilet buildings for the use of all workers. All toilets shall comply with local codes and ordinances. Toilets shall be kept supplied with toilet paper and shall have workable door fasteners. Toilets shall be serviced no less than once weekly and shall be present in a quantity of not less than 1 per 20 workers as required by CAL-OSHA regulation. The toilets shall be maintained in a sanitary condition at all times. Use of toilet facilities in The Work under construction shall not be permitted. Any other Sanitary Facilities required by CAL-OSHA shall be the responsibility of the Contractor.

ARTICLE 21. AIR POLLUTION CONTROL

Contractor shall comply with all air pollution control rules, regulations, ordinances and statutes. All containers of paint, thinner, curing compound, solvent or liquid asphalt shall be labeled to indicate that the contents fully comply with the applicable material requirements.

Without limiting the foregoing, Contractor must fully comply with all applicable laws, rules and regulations in furnishing or using equipment and/or providing services, including, but not limited to, emissions limits and permitting requirements imposed by the Air Quality Management District (AQMD) and/or California Air Resources Board (CARB). Although the AQMD and CARB limits and requirements are more broad, Contractor shall specifically be aware of their application to "portable equipment", which definition is considered by AQMD and CARB to include any item of equipment with a fuel-powered engine. Contractor shall indemnify District against any fines or penalties imposed by AQMD, CARB, or any other governmental or regulatory agency for violations of applicable laws, rules and/or regulations by Contractor, its subcontractors, or others for whom Contractor is responsible under its indemnity obligations provided for in Article 48, Indemnification.

ARTICLE 22. COMPLIANCE WITH STATE STORM WATER PERMIT

Permit Compliance. The Contractor shall comply with the District's National Pollutant Discharge Elimination System (NPDES) Permit No. CAG995001 issued by the Regional Water Quality Control Board in association with Low Threat General Waste Discharge Order No. R5-2008-0081-059.

- a. **Consideration of Costs.** As stated in the Instruction to Bidders, it was the responsibility of the Contractor in preparing its bid to evaluate and include in the bid any costs for complying with the Permits.

GENERAL CONDITIONS

- b. **Other Applicable Laws.** Contractor shall also comply with the lawful requirements of any applicable municipality, the District, drainage district, and other local agencies regarding discharges of storm water to separate storm drain system(s) or other water courses under their jurisdiction, including applicable requirements in municipal storm water management programs. This requirement applies to all projects, including those projects that impact less than one acre or disturb less than one acre.
- c. **Run-on Drainage.** Storm, surface, nuisance or other waters may be encountered at various times during the course of construction. By submitting its bid, Contractor acknowledged that it investigated the risk arising from such waters, prepared its bid accordingly, and assumed any and all liabilities arising therefro
- d. **Liability for Non-Compliance.** Failure to comply with the Permit or any applicable municipal permit is a violation of law and may be subject to penalties, fines, or additional regulatory requirements. In addition to the other indemnities included herein, Contractor hereby agrees to indemnify and hold harmless District, its officers, directors, agents and employees from and against any and all fines, penalties, claims or other regulatory requirements imposed as a result of noncompliance with the Permit or the applicable municipal permit, unless such noncompliance is the result of District's sole established negligence, willful misconduct or active negligence..

ARTICLE 23. CLEANING UP

- a. Contractor at all times shall keep premises free from debris such as waste, rubbish, and excess materials and equipment. Contractor shall not store debris under, in, or about the premises. Upon completion of Work, Contractor shall clean the interior and exterior of the building or improvement including fixtures, equipment, walls, floors, ceilings, roofs, window sills and ledges, horizontal projections, and any areas where debris has collected so surfaces are free from foreign material or discoloration. Contractor shall clean and polish all glass, plumbing fixtures, and finish hardware and similar finish surfaces and equipment and contractor shall also remove temporary fencing, barricades, planking and construction toilet and similar temporary facilities from site. Contractor shall also clean all buildings, asphalt and concrete areas to the degree necessary to remove oil, grease, fuel, or other stains caused by Contractor operations or equipment.
- b. Contractor shall fully clean up the site at the completion of The Work. If the Contractor fails to immediately clean up at the completion of The Work, the District may do so and the cost of such clean up shall be charged back to the Contractor.

ARTICLE 24. LAYOUT AND FIELD ENGINEERING

All field engineering required for laying out The Work and establishing grades for earthwork operations shall be furnished by the Contractor at its expense. Layout shall be done by a

GENERAL CONDITIONS

registered civil engineer Approved by the Engineer. Any required "as-built" drawings of the Work shall be prepared by the registered civil engineer.

ARTICLE 25. EXCESSIVE NOISE

- a. The Contractor shall use only such equipment on the work and in such state of repair so that the emission of sound therefrom is within the noise tolerance level of that equipment as established by CAL-OSHA.
- b. The Contractor shall comply with the most restrictive of the following: (1) local sound control and noise level rules, regulations and ordinances and (2) the requirements contained in these Contract Documents, including hours of operation requirements. No internal combustion engine shall be operated on the Project without a muffler of the type recommended by the manufacturer. Should any muffler or other control device sustain damage or be determined to be ineffective or defective, the Contractor shall promptly remove the equipment and shall not return said equipment to the job until the device is repaired or replaced. Said noise and vibration level requirements shall apply to all equipment on the job or related to the job, including but not limited to, trucks, transit mixers or transit equipment that may or may not be owned by the Contractor.

ARTICLE 26. TESTS AND INSPECTIONS

- a. If the Contract Documents, the Engineer, or any instructions, laws, ordinances, or public authority require any part of The Work to be tested or Approved, Contractor shall provide the Engineer at least two (2) working days notice of its readiness for observation or inspection. If inspection is by a public authority other than the District, Contractor shall promptly inform the District of the date fixed for such inspection. Required certificates of inspection (or similar) shall be secured by Contractor. Costs for District testing and District inspection shall be paid by the District. Costs of tests for Work found not to be in compliance shall be paid by the Contractor.
- b. If any Work is done or covered up without the required testing or approval, the Contractor shall uncover or deconstruct the Work, and the Work shall be redone after completion of the testing at the Contractor's cost in compliance with the Contract Documents.
- c. Where inspection and testing are to be conducted by an independent laboratory or agency, materials or samples of materials to be inspected or tested shall be selected by such laboratory or agency, or by the District, and not by Contractor. All tests or inspections of materials shall be made in accordance with the commonly recognized standards of national organizations.
- d. In advance of manufacture of materials to be supplied by Contractor which must be tested or inspected, Contractor shall notify the District so that the District may arrange for testing

GENERAL CONDITIONS

at the source of supply. Any materials which have not satisfactorily passed such testing and inspection shall not be incorporated into The Work.

- e. If the manufacture of materials to be inspected or tested will occur in a plant or location outside the geographic limits of District, the Contractor shall pay for any excessive or unusual costs associated with such testing or inspection, including but not limited to excessive travel time, standby time and required lodging.
- f. Reexamination of Work may be ordered by the District. If so ordered, Work must be uncovered or deconstructed by Contractor. If Work is found to be in accordance with the Contract Documents, the District shall pay the costs of reexamination and reconstruction. If such work is found not to be in accordance with the Contract Documents, Contractor shall pay all costs.

ARTICLE 27. PROTECTION OF WORK AND PROPERTY

- a. The Contractor shall be responsible for all damages to persons or property that occur as a result of The Work. Contractor shall be responsible for the proper care and protection of all materials delivered and Work performed until completion and final Acceptance by the District. All Work shall be solely at the Contractor's risk. Contractor shall adequately protect adjacent property from settlement or loss of lateral support as necessary. Contractor shall comply with all applicable safety laws and building codes to prevent accidents or injury to persons on, about, or adjacent to the Project site where Work is being performed. Contractor shall erect and properly maintain at all times, as required by field conditions and progress of work, all necessary safeguards, signs, barriers, lights, and watchmen for protection of workers and the public, and shall post danger signs warning against hazards created in the course of construction.
- b. In an emergency affecting safety of life or of work or of adjoining property, Contractor, without special instruction or authorization from the Engineer, is hereby permitted to act to prevent such threatened loss or injury; and Contractor shall so act, without appeal, if so authorized or instructed by the Engineer or the District. Any compensation claimed by Contractor on account of emergency work shall be determined by and agreed upon by the District and the Contractor.
- c. Contractor shall provide such heat, covering, and enclosures as are necessary to protect all Work, materials, equipment, appliances, and tools against damage by weather conditions.
- d. Contractor shall take adequate precautions to protect existing sidewalks, curbs, pavements, utilities, and other adjoining property and structures, and to avoid damage thereto, and Contractor shall repair any damage thereto caused by The Work operations. Contractor shall:

GENERAL CONDITIONS

- 1) Enclose the working area with a substantial barricade, and arrange work to cause minimum amount of inconvenience and danger to the public.
- 2) Provide substantial barricades around any shrubs or trees indicated to be preserved.
- 3) Deliver materials to the Project site over a route designated by the Engineer.
- 4) Provide any and all dust control required and follow the Applicable air quality regulations as appropriate. If the Contractor does not comply, the District shall have the immediate authority to provide dust control and deduct the cost from payments to the Contractor.
- 5) Confine Contractor's apparatus, the storage of materials, and the operations of its workers to limits required by law, ordinances, permits, or directions of the Engineer. Contractor shall not unreasonably encumber the Project site with its materials.
- 6) Take care to prevent disturbing or covering any survey markers, monuments, or other devices marking property boundaries or corners. If such markers are disturbed by accident, they shall be replaced by an approved civil engineer or land surveyor, at no cost to the District.
- 7) Ensure that existing facilities, fences and other structures are all adequately protected and that, upon completion of all Work, all facilities that may have been damaged are restored to a condition acceptable to the District.
- 8) Preserve and protect from injury all buildings, pole lines and all direction, warning and mileage signs that have been placed within the right-of-way.
- 9) At the completion of work each day, leave the Project site in a clean, safe condition.
- 10) Comply with any stage construction and traffic handling plans. Access to residences and businesses shall be maintained at all times.

These precautionary measures will apply continuously and not be limited to normal working hours. Full compensation for the Work involved in the preservation of life, safety and property as above specified shall be considered as included in the prices paid for the various contract items of Work, and no additional allowance will be made therefor.

- e. Should damage to persons or property occur as a result of The Work, Contractor shall be responsible for proper investigation, documentation, including video or photography, to adequately memorialize and make a record of what transpired. The District shall be entitled to inspect and copy any such documentation, video, or photographs.

ARTICLE 28. CONTRACTORS MEANS AND METHODS

Contractor is solely responsible for the means and methods utilized to Perform The Work. In no

GENERAL CONDITIONS

case shall the Contractor's means and methods deviate from commonly used industry standards.

ARTICLE 29. AUTHORIZED REPRESENTATIVES

The District shall designate representatives, who shall have the right to be present at the Project site at all times. The District may designate an inspector who shall have the right to observe all of the Contractor's Work. The inspector is not authorized to make changes in the Contract Documents. The inspector shall not be responsible for the Contractor's failure to carry out The Work in accordance with the Contract Documents. Contractor shall provide safe and proper facilities for such access.

ARTICLE 30. HOURS OF WORK

- a. Eight (8) hours of work shall constitute a legal day's work. The Contractor and each subcontractor shall forfeit, as penalty to the District, twenty-five dollars (\$25) for each worker employed in the execution of Work by the Contractor or any subcontractor for each day during which such worker is required or permitted to work more than eight (8) hours in any one day and forty (40) hours in any week in violation of the provisions of the Labor Code, and in particular, Section 1810 to Section 1815, except as provided in Labor Code Section 1815.
- b. Work shall be accomplished on a regularly scheduled eight (8) hour per day work shift basis, Monday through Friday, between the hours of 7:00 a.m. and 5:00 p.m.
- c. It shall be unlawful for any person to operate, permit, use, or cause to operate any of the following at the Project site, other than between the hours of 7:00 a.m. to 5:00 p.m., Monday through Friday, with no Work allowed on District-observed holidays, unless otherwise Approved by the Engineer:
 - 1) Powered Vehicles
 - 2) Construction Equipment
 - 3) Loading and Unloading Vehicles
 - 4) Domestic Power Tool.

ARTICLE 31. PAYROLL RECORDS

- a. Pursuant to Labor Code Section 1776, the Contractor and each subcontractor shall maintain weekly certified payroll records showing the name, address, social security number, work classification, straight time and overtime hours paid each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker or other employee employed in connection with the work. Contractor shall certify under penalty of perjury that records maintained and submitted by Contractor are true and accurate. Contractor

GENERAL CONDITIONS

shall also require subcontractor(s) to certify weekly payroll records under penalty of perjury.

- b. The payroll records described herein shall be certified and submitted by the Contractor at a time designated by the District. The Contractor shall also provide the following:
 - 1) A certified copy of the employee's payroll records shall be made available for inspection or furnished to such employee or his or her authorized representative on request.
 - 2) A certified copy of all payroll records described herein shall be made available for inspection or furnished upon request of the Department of Industrial Relations ("DIR").
- c. The certified payroll records shall be on forms provided by the Division of Labor Standards Enforcement ("DLSE") of the DIR or shall contain the same information as the forms provided by the DLSE.
- d. Any copy of records made available for inspection and furnished upon request to the public shall be marked or obliterated in such a manner as to prevent disclosure of an individual's name, address, and social security number. The name and address of the Contractor or any subcontractor shall not be marked or obliterated.
- e. In the event of noncompliance with the requirements of this Section, the Contractor shall have ten (10) days in which to comply subsequent to receipt of written notice specifying any item or actions necessary to ensure compliance with this section. Should noncompliance still be evident after such ten (10) day period, the Contractor shall, as a penalty to the District, forfeit Twenty-five Dollars (\$25.00) for each day, or portion thereof, for each worker until strict compliance is effectuated. Upon the request of the DIR, such penalties shall be withheld from contract payments.

ARTICLE 32. PREVAILING RATES OF WAGES

- a. The Contractor is aware of the requirements of Labor Code Sections 1720 et seq. and 1770 et seq., as well as California Code of Regulations, Title 8, Section 16000 et seq. ("Prevailing Wage Laws"), which require the payment of prevailing wage rates and the performance of other requirements on certain "public works" and "maintenance" projects. Since this Project involves an applicable "public works" or "maintenance" project, as defined by the Prevailing Wage Laws, and since the total compensation is \$1,000 or more, Contractor agrees to fully comply with such Prevailing Wage Laws. The Contractor shall obtain a copy of the prevailing rates of per diem wages at the commencement of this Agreement from the website of the Division of Labor Statistics and Research of the Department of Industrial Relations located at www.dir.ca.gov/dlsr/. In the alternative, the Contractor may view a copy of the prevailing rates of per diem wages at the District.

GENERAL CONDITIONS

Contractor shall make copies of the prevailing rates of per diem wages for each craft, classification or type of worker needed to perform work on the Project available to interested parties upon request, and shall post copies at the Contractor's principal place of business and at the Project site. Contractor shall defend, indemnify and hold the District, its elected officials, officers, employees and agents free and harmless from any claims, liabilities, costs, penalties or interest arising out of any failure or allege failure to comply with the Prevailing Wage Laws.

- b. The Contractor and each subcontractor shall forfeit as a penalty to the District not more than fifty dollars (\$50) for each calendar day, or portion thereof, for each worker paid less than the stipulated prevailing wage rate for any work done by him, or by any subcontract under him, in violation of the provisions of the Labor Code. The difference between such stipulated prevailing wage rate and the amount paid to each worker for each calendar day or portion thereof for which each worker was paid less than the stipulated prevailing wage rate shall be paid to each worker by the Contractor.
- c. Contractor shall post, at appropriate conspicuous points on the Project site, a schedule showing all determined general prevailing wage rates and all authorized deductions, if any, from unpaid wages actually earned.

ARTICLE 33. EMPLOYMENT OF APPRENTICES

The Contractor's attention is directed to the provisions of Sections 1777.5, 1777.6, and 1777.7 of the Labor Code concerning employment of apprentices by the Contractor or any subcontractor. The Contractor shall obtain a certificate of apprenticeship before employing any apprentice pursuant to Section 1777.5, 1777.6, and 1777.7 of the Labor Code. Information relative to apprenticeship standards, wage schedules, and other requirements may be obtained from the Director of Industrial Relations, the Administrator of Apprenticeships, San Francisco, California, or from the Division of Apprenticeship Standards and its branch offices.

ARTICLE 34. NONDISCRIMINATION/EQUAL EMPLOYMENT OPPORTUNITY/EMPLOYMENT ELIGIBILITY

Pursuant to Labor Code Section 1735 and other applicable provisions of law, the Contractor and its subcontractors shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, age, political affiliation, marital status, or handicap on this Project. The Contractor will take affirmative action to insure that employees are treated during employment or training without regard to their race, color, religion, sex, national origin, age, political affiliation, marital status, or handicap.

Employment Eligibility; Contractor. By executing this Contract, Contractor verifies that it fully complies with all requirements and restrictions of state and federal law respecting the employment of undocumented aliens, including, but not limited to, the Immigration Reform and Control Act of 1986, as may be amended from time to time. Such requirements and restrictions include, but are

GENERAL CONDITIONS

not limited to, examination and retention of documentation confirming the identity and immigration status of each employee of the Contractor. Contractor also verifies that it has not committed a violation of any such law within the five (5) years immediately preceding the date of execution of this Contract, and shall not violate any such law at any time during the term of the Contract. Contractor shall avoid any violation of any such law during the term of this Contract by participating in an electronic verification of work authorization program operated by the United States Department of Homeland Security, by participating in an equivalent federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, or by some other legally acceptable method. Contractor shall maintain records of each such verification, and shall make them available to the District or its representatives for inspection and copy at any time during normal business hours. The District shall not be responsible for any costs or expenses related to Contractor's compliance with the requirements provided for in Section 3.16 or any of its sub-sections.

Employment Eligibility; Subcontractors, Sub-subcontractors and Consultants. To the same extent and under the same conditions as Contractor, Contractor shall require all of its subcontractors, sub-subcontractors and consultants performing any work relating to the Project or this Contract to make the same verifications and comply with all requirements and restrictions provided for in Section 3.16.1.

Employment Eligibility; Failure to Comply. Each person executing this Contract on behalf of Contractor verifies that they are a duly authorized officer of Contractor, and understands that any of the following shall be grounds for the District to terminate the Contract for cause: (1) failure of Contractor or its subcontractors, sub-subcontractors or consultants to meet any of the requirements provided for in Sections 3.16.1 or 3.16.2; (2) any misrepresentation or material omission concerning compliance with such requirements (including in those verifications provided to the Contractor under Section 3.16.2); or (3) failure to immediately remove from the Project any person found not to be in compliance with such requirements.

ARTICLE 35. LABOR/EMPLOYMENT SAFETY

The Contractor shall maintain emergency first aid treatment for his employees which complies with the Federal Occupational Safety and Health Act of 1970 (29 U.S.C. § 651 et seq.), and California Code of Regulations, Title 8, Industrial Relations Division 1, Department of Industrial Relations, Chapter 4.

ARTICLE 36. WORKERS' COMPENSATION INSURANCE

The Contractor shall Provide, during the life of this Contract, workers' compensation insurance for all of the employees engaged in Work under this Contract, on or at the Project site, and, in case any of sublet Work, the Contractor shall require the subcontractor similarly to provide workers' compensation insurance for all the latter's employees as prescribed by State law. Any class of employee or employees not covered by a subcontractor's insurance shall be covered by the Contractor's insurance. In case any class of employees engaged in work under this Contract, on or

GENERAL CONDITIONS

at the Project site, is not protected under the Workers' Compensation Statutes, the Contractor shall provide or shall cause a subcontractor to provide, adequate insurance coverage for the protection of such employees not otherwise protected. The Contractor is required to secure payment of compensation to his employees in accordance with the provisions of Section 3700 of the Labor Code. The Contractor shall file with the District certificates of his insurance protecting workers. Company or companies providing insurance coverage shall be acceptable to the District, if in the form and coverage as set forth in the Contract Documents.

ARTICLE 37. EMPLOYER'S LIABILITY INSURANCE

Contractor shall provide during the life of this Contract, Employer's Liability Insurance, including Occupational Disease, in the amount of, at least, one million dollars (\$1,000,000.00) per person per accident. Contractor shall provide District with a certificate of Employer's Liability Insurance. Such insurance shall comply with the provisions of the Contract Documents. The policy shall be endorsed, if applicable, to provide a Borrowed Servant/Alternate Employer Endorsement and contain a Waiver of Subrogation in favor of the District.

ARTICLE 38. COMMERCIAL GENERAL LIABILITY INSURANCE

- a. Contractor shall procure and maintain during the life of this Contract and for such other period as may be required herein, at its sole expense, occurrence version Commercial General Liability insurance coverage, including but not limited to, premises liability, contractual liability, products/completed operations if applicable, personal and advertising injury – which may arise from or out of Contractor's operations, use, and management of the Project site, or the performance of its obligations hereunder. Policy limits shall not be less than \$1,000,000 per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit.
- b. Such policy shall comply with all the requirements of this Article. The limits set forth herein shall apply separately to each insured against whom claims are made or suits are brought, except with respect to the limits of liability. Further the limits set forth herein shall not be construed to relieve the Contractor from liability in excess of such coverage, nor shall it limit Contractor's indemnification obligations to the District, and shall not preclude the District from taking such other actions available to the District under other provisions of the Contract Documents or law.
- c. Contractor shall make certain that any and all subcontractors hired by Contractor are insured in accordance with this Contract. If any subcontractor's coverage does not comply with the foregoing provisions, Contractor shall indemnify and hold the District harmless from any damage, loss, cost, or expense, including attorneys' fees, incurred by the District as a result thereof.

GENERAL CONDITIONS

- d. All general liability policies provided pursuant to the provisions of this Article shall comply with the provisions of the Contract Documents.
- e. All general liability policies shall be written to apply to all bodily injury, including death, property damage, personal injury, owned and non-owned equipment, blanket contractual liability, completed operations liability, explosion, collapse, under-ground excavation, removal of lateral support, and other covered loss, however occasioned, occurring during the policy term, and shall specifically insure the performance by Contractor of that part of the indemnification contained in these General Conditions, relating to liability for injury to or death of persons and damage to property. If the coverage contains one or more aggregate limits, a minimum of 50% of any such aggregate limit must remain available at all times; if over 50% of any aggregate limit has been paid or reserved, the District may require additional coverage to be purchased by Contractor to restore the required limits. Contractor may combine primary, umbrella, and as broad as possible excess liability coverage to achieve the total limits indicated above. Any umbrella or excess liability policy shall include the additional insured endorsement described in the Contract Documents.
- f. Such insurance shall comply with the provisions of Article 42 below.

ARTICLE 39. AUTOMOBILE LIABILITY INSURANCE

Contractor shall take out and maintain at all times during the term of this occurrence version Contract Automobile Liability Insurance in the amount of, at least, one million dollars (\$1,000,000). Such insurance shall provide coverage for bodily injury and property damage including coverage for non-owned and hired vehicles, in a form and with insurance companies acceptable to the District. Such insurance shall comply with the provisions of Article 42 below.

ARTICLE 40. FORM AND PROOF OF CARRIAGE OF INSURANCE

- a. Any insurance carrier providing insurance coverage required by the Contract Documents shall be admitted to and authorized to do business in the State of California unless waived, in writing, by the District Risk Manager. Carrier(s) shall have an A.M. Best rating of not less than an A:VIII. Insurance deductibles or self-insured retentions must be declared by the Contractor, and such deductibles and retentions shall have the prior written consent from the District. At the election of the District the Contractor shall either 1) reduce or eliminate such deductibles or self-insured retentions, or 2) procure a bond which guarantees payment of losses and related investigations, claims administration, and defense costs and expenses.
- b. Contractor shall cause its insurance carrier(s) to furnish the District with either 1) a properly executed original Certificates(s) of Insurance and certified original copies of Endorsements effecting coverage as required herein, or 2) if requested to do so in writing by the District Risk Manager, provide original Certified copies of policies including all Endorsements and all attachments thereto, showing such insurance is in full force and

GENERAL CONDITIONS

effect. The District, its Director's and officers, employees, agents or representatives are named as Additional Insureds and Provide a Waiver of Subrogation in favor of those parties. Further, said Certificate(s) and policies of insurance shall contain the covenant of the insurance carrier(s) that shall provide no less than thirty (30) days written notice be given to the District prior to any material modification or cancellation of such insurance. In the event of a material modification or cancellation of coverage, the District may terminate or Stop Work pursuant to the Contract Documents, unless the District receives, prior to such effective date, another properly executed original Certificate of Insurance and original copies of endorsements or certified original policies, including all endorsements and attachments thereto evidencing coverages set forth herein and the insurance required herein is in full force and effect. Contractor shall not take possession, or use the Project site, or commence operations under this Agreement until the District has been furnished original Certificate(s) of Insurance and certified original copies of Endorsements or policies of insurance including all Endorsements and any and all other attachments as required in this Section. The original Endorsements for each policy and the Certificate of Insurance shall be signed by an individual authorized by the insurance carrier to do so on its behalf.

- c. It is understood and agreed to by the parties hereto and the insurance company(s), that the Certificate(s) of Insurance and policies shall so covenant and shall be construed as primary, and the District's insurance and/or deductibles and/or self-insured retentions or self-insured programs shall not be construed as contributory.
- d. The District reserves the right to adjust the monetary limits of insurance coverage's during the term of this Contract including any extension thereof-if in the District's reasonable judgment, the amount or type of insurance carried by the Contractor becomes inadequate.
- e. Contractor shall pass down the insurance obligations contained herein to all tiers of sub-contractors working under this Contract.

ARTICLE 41. TIME FOR COMPLETION AND LIQUIDATED DAMAGES

- a. **Time for Completion/Liquidated Damages.** Work shall be commenced within ten (10) days of the date stated in the District's Notice to Proceed and shall be completed by Contractor in the time specified in the Contract Documents. The District is under no obligation to consider early completion of the Project; and the Contract completion date shall not be amended by the District's receipt or acceptance of the Contractor's proposed earlier completion date. Furthermore, Contractor shall not, under any circumstances, receive additional compensation from the District (including but not limited to indirect, general, administrative or other forms of overhead costs) for the period between the time of earlier completion proposed by the Contractor and the Contract completion date. If The Work is not completed as stated in the Contract Documents, it is understood that the District will suffer damage. In accordance with Government Code section 53069.85, being impractical and infeasible to determine the amount of actual damage, it is agreed that

GENERAL CONDITIONS

Contractor shall pay to the District as fixed and liquidated damages, and not as a penalty, the sum stipulated in the Contract for each day of delay until The Work is fully completed. Contractor and its surety shall be liable for any liquidated damages. Any money due or to become due the Contractor may be retained to cover liquidated damages.

- b. **Inclement Weather.** Contractor shall abide the Engineer's determination of what constitutes inclement weather. Time extensions for inclement weather shall only be granted when the Work stopped during inclement weather is on the critical path of the Project schedule.
- c. **Extension of Time.** Contractor shall not be charged liquidated damages because of any delays in completion of The Work due to unforeseeable causes beyond the control and without the fault or negligence of Contractor (or its subcontractors or suppliers). Contractor shall within five (5) Days of identifying any such delay notify the District in writing of causes of delay. The District shall ascertain the facts and extent of delay and grant extension of time for completing The Work when, in its judgment, the facts justify such an extension. Time extensions to the Project shall be requested by the Contractor as they occur and without delay. No delay claims shall be permitted unless the event or occurrence delays the completion of the Project beyond the Contract completion date.
- d. **No Damages for Reasonable Delay.** The District's liability to Contractor for delays for which the District is responsible shall be limited to only an extension of time unless such delays were unreasonable under the circumstances. In no case shall the District be liable for any costs which are borne by the Contractor in the regular course of business, including, but not limited to, home office overhead and other ongoing costs. Damages caused by unreasonable District delay, including delays caused by items that are the responsibility of the District pursuant to Government Code section 4215, shall be based on actual costs only, no proportions or formulas shall be used to calculate any delay damages.

ARTICLE 42. COST BREAKDOWN AND PERIODIC ESTIMATES

Contractor shall furnish on forms Approved by the District:

- a. Within ten (10) Days of award of the Contract a detailed estimate giving a complete breakdown of the Contract price;
- b. A monthly itemized estimate of Work done for the purpose of making progress payments. In order for the District to consider and evaluate each progress payment application, the Contractor shall submit a detailed measurement of Work performed and a progress estimate of the value thereof before the tenth (10th) Day of the following month.
- c. Contractor shall submit, with each of its payment requests, an adjusted list of actual quantities, verified by the Engineer, for unit price items listed, if any, in the Bid Form.

GENERAL CONDITIONS

- d. Following the District's Acceptance of the Work, the Contractor shall submit to the District a written statement of the final quantities of unit price items for inclusion in the final payment request.
- e. The District shall have the right to adjust any estimate of quantity and to subsequently correct any error made in any estimate for payment.

Contractor shall certify under penalty of perjury, that all cost breakdowns and periodic estimates accurately reflect the Work on the Project.

ARTICLE 43. MOBILIZATION

- a. When a bid item is included in the Bid Form for mobilization, the costs of Work in advance of construction operations and not directly attributable to any specific bid item will be included in the progress estimate ("Initial Mobilization"). When no bid item is provided for "Initial Mobilization," payment for such costs will be deemed to be included in the other items of The Work.
- b. Payment for Initial Mobilization based on the lump sum provided in the Bid Form, which shall constitute full compensation for all such Work. No payment for Initial Mobilization will be made until all of the listed items have been completed to the satisfaction of the Engineer. The scope of the Work included under Initial Mobilization shall include, but shall not be limited to, the following principal items:
 - 1. Obtaining and paying for all bonds, insurance, and permits.
 - 2. Moving on to the Project site of all Contractor's plant and equipment required for first month's operations.
 - 3. Installing temporary construction power, wiring, and lighting facilities.
 - 4. Establishing fire protection system.
 - 5. Developing and installing a construction water supply.
 - 6. Providing and maintaining the field office trailers for the Contractor, complete with all specified furnishings and utility services including telephones, telephone appurtenances, computer and printer, and copying machine.
 - 7. Providing on-site communication facilities including telephones, radio pagers, and fax machines.
 - 8. Providing on-site sanitary facilities and potable water facilities as specified per Cal-OSHA and these Contract Documents.

GENERAL CONDITIONS

9. Furnishing, installing, and maintaining all storage buildings or sheds required for temporary storage of products, equipment, or materials that have not yet been installed in the Work. All such storage shall meet manufacturer's specified storage requirements, and the specific provisions of the specifications, including temperature and humidity control, if recommended by the manufacturer, and for all security.
10. Arranging for and erection of Contractor's work and storage yard.
11. Posting all OSHA required notices and establishment of safety programs per Cal-OSHA.
12. Full-time presence of Contractor's superintendent at the job site as required herein.
13. Submittal of Construction Schedule as required by the Contract Documents.

ARTICLE 44. PAYMENTS

- a. The District shall make monthly progress payments following receipt of undisputed and properly submitted payment requests. Contractor shall be paid a sum equal to ninety-five percent (95%) of the value of Work performed up to the last day of the previous month, less the aggregate of previous payments.
- b. The Contractor shall, after the full completion of The Work, submit a final payment application. All prior progress estimates shall be subject to correction in the final estimate and payment.
- c. Unless otherwise required by law, the final payment of five percent (5%) of the value of the Work, if unencumbered, shall be paid no later than sixty (60) Days after the date of recordation of the Notice of Completion.
- d. Acceptance by Contractor of the final payment shall constitute a waiver of all claims against the District arising from this Contract.
- e. Payments to the Contractor shall not be construed to be an acceptance of any defective work or improper materials, or to relieve the Contractor of its obligations under the Contract Documents.
- f. The Contractor shall submit with each payment request the Contractor's conditional waiver of lien for the entire amount covered by such payment request, as well as a valid unconditional waiver of lien from the Contractor and all subcontractors and materialmen for all work and materials included in any prior invoices. Waivers of lien shall be in the forms prescribed by California Civil Code Section 3262. Prior to final payment by the District, the Contractor shall submit a final waiver of lien for the Contractor's work, together with releases of lien from any subcontractor or materialmen.

GENERAL CONDITIONS

ARTICLE 45. PAYMENTS WITHHELD AND BACKCHARGES

In addition to amounts which the District may retain under other provisions of the Contract Documents the District may withhold payments due to Contractor as may be necessary to cover:

- a. Stop Notice Claims.
- b. Defective work not remedied.
- c. Failure of Contractor to make proper payments to its subcontractors or suppliers.
- d. Completion of the Contract if there exists a reasonable doubt that the work can be completed for balance then unpaid.
- e. Damage to another contractor or third party.
- f. Amounts which may be due the District for claims against Contractor.
- g. Failure of Contractor to keep the record ("as-built") drawings up to date.
- h. Failure to provide updates on the construction schedule.
- i. Site clean up.
- j. Failure of the Contractor to comply with requirements of the Contract Documents.
- k. Liquated damages.
- l. Legally permitted penalties.

Upon completion of the Contract, the District will reduce the final Contract amount to reflect costs charged to the Contractor, backcharges or payments withheld pursuant to the Contract Documents.

ARTICLE 46. CHANGES AND EXTRA WORK

- a. **Change Order Work.**
 - 1) The District, without invalidating the Contract, may order changes in the Work consisting of additions, deletions or other revisions, the Contract amount and Contract time being adjusted accordingly. All such changes in the Work shall be authorized by Change Order, and shall be performed under the applicable conditions of the Contract Documents. A Change Order signed by the Contractor indicates the Contractor's agreement therewith, including any adjustment in the Contract amount or the Contract time, and the full and final settlement of all costs (direct, indirect and overhead) related to the Work authorized by the Change Order.

GENERAL CONDITIONS

- 2) All claims for additional compensation to the Contractor shall be presented in writing before the expense is incurred and will be adjusted as provided herein. No work shall be allowed to lag pending such adjustment, but shall be promptly executed as directed, even if a dispute arises. No claim will be considered after the work in question has been done unless a written contract change order has been issued or a timely written notice of claim has been made by Contractor. Contractor shall not be entitled to claim or bring suit for damages, whether for loss of profits or otherwise, on account of any decrease or omission of any item or portion of Work to be done. Whenever any change is made as provided for herein, such change shall be considered and treated as though originally included in the Contract, and shall be subject to all terms, conditions and provisions of the original Contract.
- 3) Owner Initiated Change. The Contractor must submit a complete cost proposal, including any change in the Contract time, within seven (7) Days after receipt of a scope of a proposed change order, unless the District requests that proposals be submitted in less than seven (7) Days.
- 4) Contractor Initiated Change. The Contractor must give written notice of a proposed change order required for compliance with the Contract Documents within seven (7) Days of discovery of the facts giving rise to the proposed change order.
- 5) Whenever possible, any changes to the Contract amount shall be in a lump sum mutually agreed to by the Contractor and the District.
- 6) Price quotations from the Contractor shall be accompanied by sufficiently detailed supporting documentation to permit verification by the District.
- 7) If the Contractor fails to submit the cost proposal within the seven (7) Day period (or as requested), the District has the right to order the Contractor in writing to commence the work immediately on a force account basis and/or issue a lump sum change to the contract price in accordance with the District's estimate of cost. If the change is issued based on the District estimate, the Contractor will waive its right to dispute the action unless within fifteen (15) Days following completion of the added/deleted work, the Contractor presents written proof that the District's estimate was in error.
- 8) Estimates for lump sum quotations and accounting for cost-plus-percentage work shall be limited to direct expenditures necessitated specifically by the subject extra work, and shall be segregated as follows:
 - (a) Labor. The costs of labor will be the actual cost for wages prevailing locally for each craft or type of worker at the time the extra work is done,

GENERAL CONDITIONS

plus employer payments of payroll taxes and insurance, health and welfare, pension, vacation, apprenticeship funds, and other direct costs resulting from Federal, State or local laws, as well as assessment or benefits required by lawful collective bargaining agreements. The use of a labor classification which would increase the extra work cost will not be permitted unless the contractor establishes the necessity for such additional costs. Labor costs for equipment operators and helpers shall be reported only when such costs are not included in the invoice for equipment rental.

- (b) Materials. The cost of materials reported shall be at invoice or lowest current price at which such materials are locally available in the quantities involved, plus sales tax, freight and delivery. Materials cost shall be based upon supplier or manufacturer's invoice. If invoices or other satisfactory evidence of cost are not furnished within fifteen (15) Days of delivery, then the Engineer shall determine the materials cost, at its sole discretion.
- (c) Tool and Equipment Use. No payment will be made for the use of small tools, tools which have a replacement value of \$1,000 or less. Regardless of ownership, the rates to be used in determining equipment use costs shall not exceed listed rates prevailing locally at equipment rental agencies, or distributors, at the time the work is performed.
- (d) Overhead, Profit and Other Charges. The mark-up for overhead (including supervision) and profit on work added to the Contract shall be according to the following:
 - i. "Net Cost" is defined as consisting of costs of labor, materials and tools and equipment only excluding overhead and profit. The costs of applicable insurance and bond premium will be reimbursed to the Contractor and subcontractors at cost only, without mark-up.
 - ii. For Work performed by the Contractor's forces the added cost for overhead and profit shall not exceed fifteen (15%) percent of the Net Cost of the Work.
 - iii. For Work performed by a subcontractor, the added cost for overhead and profit shall not exceed fifteen (15%) percent of the Net Cost of the Work to which the Contractor may add five (5%) percent of the subcontractor's Net Cost.
 - iv. For Work performed by a sub-subcontractor the added cost for overhead and profit shall not exceed fifteen (15 %) percent of the Net Cost for Work to which the subcontractor and general contractor

GENERAL CONDITIONS

may each add an additional five (5 %) percent of the Net Cost of the lower tier subcontractor.

- iv. No additional mark up will be allowed for lower tier subcontractors, and in no case shall the added cost for overhead and profit payable by District exceed twenty-five (25%) percent of the Net Cost as defined herein.
- 9) For added or deducted Work by subcontractors, the Contractor shall furnish to the District the subcontractor's signed detailed estimate of the cost of labor, material and equipment, including the subcontractor markup for overhead and profit. The same requirement shall apply to sub-subcontractors.
- 10) For added or deducted work furnished by a vendor or supplier, the Contractor shall furnish to the District a detailed estimate or quotation of the cost to the Contractor, signed by such vendor or supplier.
- 11) Any change in The Work involving both additions and deletions shall indicate a net total cost, including subcontracts and materials. Allowance for overhead and profit, as specified herein, shall be applied if the net total cost is an extra; overhead and profit allowances shall not be applied if the net total cost is a credit. The estimated cost of deductions shall be based on labor and material prices on the date the Contract was executed.
- 12) Contractor shall not reserve a right to assert impact costs, extended job site costs, extended overhead, constructive acceleration and/or actual acceleration beyond what is stated in the change order for work. No claims shall be allowed for impact, extended overhead costs, constructive acceleration and/or actual acceleration due to a multiplicity of changes and/or clarifications. The Contractor may not change or modify the District's change order form in an attempt to reserve additional rights.
- 13) If the District disagrees with the proposal submitted by Contractor, it will notify the Contractor and the District will provide its opinion of the appropriate price and/or time extension. If the Contractor agrees with the District, a change order will be issued by the District. If no agreement can be reached, the District shall have the right to issue a unilateral change order setting forth its determination of the reasonable additions or savings in costs and time attributable to the extra or deleted work. Such determination shall become final and binding if the Contractor fails to submit a claim in writing to the District within fifteen (15) Days of the issuance of the unilateral change order, disputing the terms of the unilateral change order.
- 14) No dispute, disagreement or failure of the parties to reach agreement on the terms of the change order shall relieve the Contractor from the obligation to proceed with performance of the work, including extra work, promptly and expeditiously.

GENERAL CONDITIONS

- 15) Any alterations, extensions of time, extra work or any other changes may be made without securing consent of the Contractor's surety or sureties.

ARTICLE 47. OCCUPANCY

The District reserves the right to occupy or utilize any portion of The Work at any time before completion, and such occupancy or use shall not constitute Acceptance of any part of Work covered by this Contract. This use shall not relieve the Contractor of its responsibilities under the Contract.

ARTICLE 48. INDEMNIFICATION

Contractor shall defend (with counsel of District's choosing), indemnify and hold the District, its officials, officers, agents, employees, and representatives free and harmless from any and all claims, demands, causes of action, costs, expenses, liabilities, losses, damages or injuries, in law or equity, regardless of whether the allegations are false, fraudulent, or groundless, to property or persons, including wrongful death, to the extent arising out of or incident to any acts, omissions or willful misconduct of Contractor, its officials, officers, employees, agents, consultants and contractors arising out of or in connection with the performance of the Work or this Contract, including claims made by subcontractors for nonpayment, including without limitation the payment of all consequential damages and attorneys fees and other related costs and expenses. Contractor shall defend, at Contractor's own cost, expense and risk, with counsel of District's choosing, any and all such aforesaid suits, actions or other legal proceedings of every kind that may be brought or instituted against District, its officials, officers, agents, employees and representatives. To the extent of its liability, Contractor shall pay and satisfy any judgment, award or decree that may be rendered against District, its officials, officers, employees, agents, employees and representatives, in any such suit, action or other legal proceeding. Contractor shall reimburse District, its officials, officers, agents, employees and representatives for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided. The only limitations on this provision shall be those imposed by Civil Code Section 2782.

ARTICLE 49. RECORD ("AS BUILT") DRAWINGS

- a. Contractor shall prepare and maintain a complete set of record drawings (herein referred to as "as-builts") and shall require each trade to prepare its own as-builts. The as-builts must show the entire site for each major trade, including but not limited to water, sewer, electrical, data, telephone, cable, fire alarm, gas and plumbing. Contractor shall mark the as-builts to show the actual installation where the installation varies from the Work as originally shown. Contractor shall mark whichever drawings are most capable of showing conditions fully and where shop drawings are used, Contractor must record a cross-reference at the corresponding location on the contract drawings. Contractor shall give particular attention to concealed elements that would be difficult to measure and record at a

GENERAL CONDITIONS

later date. Contractor shall use colors to distinguish variations in separate categories of The Work.

- b. Contractor shall note related change order numbers where applicable. Contractor shall organize as-builts into manageable sets, bound with durable paper cover sheets and shall print suitable title, dates and other identification on the cover of each set. Contractor to also provide an electronic version of the as-builts. The suitability of the as-builts will be determined by the Engineer.

ARTICLE 50. RESOLUTION OF CONSTRUCTION CLAIMS

- a. In accordance with Public Contract Code Sections 20104 *et seq.* and other applicable law, public works claims of \$375,000 or less which arise between the Contractor and the District shall be resolved under the following the statutory procedure unless the District has elected to resolve the dispute pursuant to Public Contract Code Section 10240 *et seq.*
- b. **All Claims:** All claims shall be submitted in writing and accompanied by substantiating documentation. Claims must be filed on or before the date of final payment unless other notice requirements are provided in the contract. "Claim" means a separate demand by the claimant for (1) a time extension, (2) payment of money or damages arising from work done by or on behalf of the claimant and payment of which is not otherwise expressly provided for or the claimant is not otherwise entitled, or (3) an amount the payment of which is disputed by the District.
- c. **Claims Under \$50,000.** The District shall respond in writing to the claim within 45 days of receipt of the claim, or, the District may request, in writing, within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses or claims the District may have. If additional information is needed thereafter, it shall be provided upon mutual agreement of the District and the claimant. The District's written response shall be submitted 15 days after receiving the additional documentation, or within the same period of time taken by the claimant to produce the additional information, whichever is greater.
- d. **Claims over \$50,000 but less than or equal to \$375,000.** The District shall respond in writing within 60 days of receipt, or, may request in writing within 30 days of receipt of the claim, any additional documents supporting the claim or relating to defenses or claims the District may have against the claimant. If additional information is needed thereafter, it shall be provided pursuant to mutual agreement between the District and the claimant. The District's response shall be submitted within 30 days after receipt of the further documents, or within the same period of time taken by the claimant to produce the additional information or documents, whichever is greater. The Contractor shall make these records and documents available at all reasonable times, without any direct charge.
- e. The Contractor will submit the claim justification in the following format:

GENERAL CONDITIONS

61

- 1) Summary of claim merit and price, and Contract clause pursuant to which the claim is made.
 - 2) List of documents relating to claim
 - (a) Specifications
 - (b) Drawings
 - (c) Clarifications (Requests for Information)
 - (d) Schedules
 - (e) Other
 - 3) Chronology of events and correspondence
 - 4) Analysis of claim merit
 - 5) Analysis of claim cost
 - 6) Analysis of time impact analysis in CPM format
 - 7) Cover letter and certification of validity of the claim
- f. If the claimant disputes the District's response, or if the District fails to respond within the statutory time period(s), the claimant may so notify the District within 15 days of the receipt of the response or the failure to respond, and demand an informal conference to meet and confer for settlement. Upon such demand, the District shall schedule a meet and confer conference within 30 Days.
- g. If following the meet and confer conference, the claim or any portion thereof remains in dispute, the claimant may file a claim pursuant to Government Code 900 et seq. and Government Code 910 et seq. For purposes of those provisions, the time within which a claim must be filed shall be tolled from the time the claimant submits the written claim until the time the claim is denied, including any time utilized for the meet and confer conference.
- h. Submission of a claim, properly certified, with all required supporting documentation, and written rejection or denial of all or part of the claim by District, is a condition precedent to any action, proceeding, litigation, suit, general conditions claim, or demand for arbitration by Contractor.

GENERAL CONDITIONS

ARTICLE 51. DISTRICT'S RIGHT TO TERMINATE CONTRACT

- a. **Termination for Cause:** The District may, without prejudice to any other right or remedy, serve written notice upon Contractor of its intention to terminate this Contract if the Contractor: (i) refuses or fails to prosecute The Work or any part thereof with such diligence as will ensure its completion within the time required; (ii) fails to complete The Work within the required time; (iii) should file a bankruptcy petition or be adjudged a bankrupt; (iv) should make a general assignment for the benefit of its creditors; (v) should have a receiver appointed; (vi) should persistently or repeatedly refuse or fail to supply enough properly skilled workers or proper materials to complete the work; (vii) should fail to make prompt payment to subcontractors or for material or labor; (viii) persistently disregard laws, ordinances, other requirements or instructions of the District; or (ix) should violate any of the provisions of the Contract Documents.

The notice of intent to terminate shall contain the reasons for such intention to terminate. Unless within ten (10) Days after the service of such notice, such condition shall cease or satisfactory arrangements (acceptable to the District) for the required correction are made, this Contract shall be terminated. In such case, Contractor shall not be entitled to receive any further payment until the Project has been finished. The District may take over and complete The Work by any method it may deem appropriate. Contractor and its surety shall be liable to the District for any excess costs or other damages incurred by the District to complete the Project. If the District takes over The Work, the District may, without liability for so doing, take possession of and utilize in completing The Work such materials, appliances, plant, and other property belonging to the Contractor as may be on the Project site.

- b. **Termination For Convenience:** The District may terminate performance of The Work in whole or, in part, if the District determines that a termination is in the District's interest.

The Contractor shall terminate all or any part of The Work upon delivery to the Contractor of a Notice of Termination specifying that the termination is for the convenience of the District, the extent of termination, and the effective date of such termination.

After receipt of Notice of Termination, and except as directed by the District, the Contractor shall, regardless of any delay in determining or adjusting any amounts due under this Termination for Convenience clause, immediately proceed with the following obligations:

- 1) Stop Work as specified in the Notice.
- 2) Complete any Work specified in the Notice of Termination in a least cost/shortest time manner while still maintaining the quality called for under the Contract Documents.

GENERAL CONDITIONS

- 3) Leave the property upon which the Contractor was working and upon which the facility (or facilities) forming the basis of the Contract Documents is situated in a safe and sanitary manner such that it does not pose any threat to the public health or safety.
 - 4) Terminate all subcontracts to the extent that they relate to the portions of The Work terminated.
 - 5) Place no further subcontracts or orders, except as necessary to complete the remaining portion of The Work.
 - 6) Submit to the District, within ten (10) Days from the effective date of the Notice of Termination, all of the documentation called for by the Contract Documents to substantiate all costs incurred by the Contractor for labor, materials and equipment through the Effective Date of the Notice of Termination. Any documentation substantiating costs incurred by the Contractor solely as a result of the District's exercise of its right to terminate this Contract pursuant to this clause, which costs the Contractor is authorized under the Contract Documents to incur, shall: (i) be submitted to and received by the District no later than thirty (30) Days after the Effective Date of the Notice of Termination; (ii) describe the costs incurred with particularity; and (iii) be conspicuously identified as "Termination Costs Occasioned by the District's Termination for Convenience."
 - 7) These provisions are in addition to and not in limitation of any other rights or remedies available to the District.
- c. Notwithstanding any other provision of this Article, when immediate action is necessary to protect life and safety or to reduce significant exposure or liability, the District may immediately order Contractor to cease Work on the Project until such safety or liability issues are addressed to the satisfaction of the District or the Contract is terminated.

ARTICLE 52. WARRANTY AND GUARANTEE

- a. Contractor warrants that all materials and equipment furnished under this Contract shall be new unless otherwise specified in the Contract Documents; and that all Work conforms to the Contract Document requirements and is free of any defect whether performed by the Contractor or any subcontractor or supplier.
- b. Unless otherwise stated, all warranty periods shall begin upon the filing of the Notice of Completion. Unless otherwise stated, the warranty period shall be for one year.
- c. The Contractor shall remedy at its expense any damage to District-owned or controlled real or personal property.

GENERAL CONDITIONS

- d. Contractor shall furnish the District with all warranty and guarantee documents prior to final Acceptance of the Project by the District.
- e. The District shall notify the Contractor, in writing, within a reasonable time after the discovery of any failure, defect, or damage. The Contractor shall within ten (10) Days after being notified commence and perform with due diligence all necessary Work. If the Contractor fails to promptly remedy any defect, or damage; the county shall have the right to replace, repair, or otherwise remedy the defect, or damage at the Contractor's expense.
- f. In the event of any emergency constituting an immediate hazard to health, safety, property, or licensees, when caused by Work of the Contractor not in accordance with the Contract requirements, the District may undertake at Contractor's expense, and without prior notice, all Work necessary to correct such condition.
- g. With respect to all warranties, express or implied, from subcontractors, manufacturers, or suppliers for Work performed and Materials furnished under this Contract, the Contractor shall:
 - 1) Obtain for District all warranties that would be given in normal commercial practice;
 - 2) Require all warranties to be executed, in writing, for the benefit of the District; and
 - 3) Enforce all warranties for the benefit of the District, unless otherwise directed in writing by the District.

This Article shall not limit the District's rights under this Contract or with respect to latent defects, gross mistakes, or fraud. The District specifically reserves all rights related to defective work, including but not limited to the defect claims pursuant to California Code of Civil Procedure Section 337.15.

ARTICLE 53. DOCUMENT RETENTION & EXAMINATION

- a. In accordance with Government Code Section 8546.7, records of both the District and the Contractor shall be subject to examination and audit by the State Auditor General for a period of three (3) years after final payment.
- b. Contractor shall make available to the District any of the Contractor's other documents related to the Project immediately upon request of the District.
- c. In addition to the State Auditor rights above, the District shall have the right to examine and audit all books, estimates, records, contracts, documents, bid documents, subcontracts, and other data of the Contractor (including computations and projections) related to negotiating, pricing, or performing the modification in order to evaluate the accuracy and

GENERAL CONDITIONS

completeness of the cost or pricing data at no additional cost to the District, for a period of four (4) years after final payment.

ARTICLE 54. SOILS INVESTIGATIONS

When a soils investigation report for the Project site is available, such report shall not be a part of the Contract Documents. Any information obtained from such report as to subsurface soil condition, or to elevations of existing grades or elevations of underlying rock, is approximate only and is not guaranteed. Contractor acknowledges that any soils investigation report (including any borings) was prepared for purposes of design only and Contractor is required to examine the site before submitting its bid and must make whatever tests it deems appropriate to determine the underground condition of the soil.

ARTICLE 55. SEPARATE CONTRACTS

- a. The District reserves the right to let other contracts in connection with this Work or on the Project site. Contractor shall permit other contractors reasonable access and storage of their materials and execution of their work and shall properly connect and coordinate its Work with theirs.
- b. To ensure proper execution of its subsequent Work, Contractor shall immediately inspect work already in place and shall at once report to the Engineer any problems with the work in place or discrepancies with the Contract Documents.
- c. Contractor shall ascertain to its own satisfaction the scope of the Project and nature of any other contracts that have been or may be awarded by the District in prosecution of the Project to the end that Contractor may perform this Contract in the light of such other contracts, if any. Nothing herein contained shall be interpreted as granting to Contractor exclusive occupancy at site of the Project. Contractor shall not cause any unnecessary hindrance or delay to any other contractor working on the Project. If simultaneous execution of any contract for the Project is likely to cause interference with performance of some other contract or contracts, the Engineer shall decide which Contractor shall cease Work temporarily and which contractor shall continue or whether work can be coordinated so that contractors may proceed simultaneously. The District shall not be responsible for any damages suffered or for extra costs incurred by Contractor resulting directly or indirectly from award, performance, or attempted performance of any other contract or contracts on the Project site.

ARTICLE 56. NOTICE AND SERVICE THEREOF

All notices shall be in writing and either served by personal delivery or mailed to the other party as designated in the Bid Forms. Written notice to the Contractor shall be addressed to Contractor's principal place of business unless Contractor designates another address in writing for service of notice. Notice to District shall be addressed to the District as designated in the Notice Inviting

GENERAL CONDITIONS

Bids unless District designates another address in writing for service of notice. Notice shall be effective upon receipt or five (5) Days after being sent by first class mail, whichever is earlier. Notice given by facsimile shall not be effective unless acknowledged in writing by the receiving party.

ARTICLE 57. NOTICE OF THIRD PARTY CLAIMS

Pursuant to Public Contract Code Section 9201, the District shall provide Contractor with timely notification of the receipt of any third-party claim relating to the Contract.

ARTICLE 58. STATE LICENSE BOARD NOTICE.

Contractors are required by law to be licensed and regulated by the Contractors' State License Board which has jurisdiction to investigate complaints against contractors if a complaint regarding a patent act or omission is filed within four (4) years of the date of the alleged violation. A complaint regarding a latent act or omission pertaining to structural defects must be filed within ten (10) years of the date of the alleged violation. Any questions concerning a contractor may be referred to the Registrar, Contractors' State License Board, P.O. Box 26000, Sacramento, California 95826.

ARTICLE 59. INTEGRATION

- a. Oral Modifications Ineffective. No oral order, objection, direction, claim or notice by any party or person shall affect or modify any of the terms or obligations contained in the Contract Documents.
- b. Contract Documents Represent Entire Contract. The Contract Documents represent the entire agreement of the District and Contractor.\
- c. The failure of either Party to insist upon strict performance of any of the terms, conditions or covenants in this Agreement shall not be deemed a waiver of any right or remedy for a subsequent breach or default of the terms, conditions or covenants herein contained, unless such waiver is in writing.

ARTICLE 60. CHANGE IN NAME AND NATURE OF CONTRACTOR'S LEGAL ENTITY

Should a change be contemplated in the name or nature of the Contractor's legal entity, the Contractor shall first notify the District in order that proper steps may be taken to have the change reflected on the Contract.

ARTICLE 61. ASSIGNMENT OF ANTITRUST ACTIONS

Pursuant to Section 7103.5 of the Public Contract Code, in entering into a public works contract or subcontract to supply goods, services, or materials pursuant to a public works contract, Contractor

GENERAL CONDITIONS

67

or subcontractor offers and agrees to assign to the District all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Section 15) or under the Cartwright Act (chapter 2 (commencing with Section 16700) of part 2 of division 7 of the Business and Professions Code), arising from the purchase of goods, services, or materials pursuant to this Contract or any subcontract. This assignment shall be made and become effective at the time the District makes final payment to the Contractor, without further acknowledgment by the parties.

ARTICLE 62. PROHIBITED INTERESTS

No District official or representative who is authorized in such capacity and on behalf of the District to negotiate, supervise, make, accept, or approve, or to take part in negotiating, supervising, making, accepting or approving any engineering, inspection, construction or material supply contract or any subcontract in connection with construction of the project, shall be or become directly or indirectly interested financially in the Contract.

ARTICLE 63. LAWS AND REGULATIONS

- a. Contractor shall give all notices and comply with all federal, state and local laws, ordinances, rules and regulations bearing on conduct of work as indicated and specified by their terms. References to specific laws, rules or regulations in this Contract are for reference purposes only, and shall not limit or affect the applicability of provisions not specifically mentioned. If Contractor observes that drawings and specifications are at variance therewith, he shall promptly notify the Engineer in writing and any necessary changes shall be adjusted as provided for in this Contract for changes in work. If Contractor performs any work knowing it to be contrary to such laws, ordinances, rules and regulations, and without such notice to the Engineer, he shall bear all costs arising therefrom.
- b. Contractor shall be responsible for familiarity with the Americans with Disabilities Act ("ADA") (42 U.S.C. § 12101 et seq.). The Work will be performed in compliance with ADA laws, rules and regulations. Contractor shall comply with the Historic Building Code, including, but not limited to, as it relates to the ADA, whenever applicable.
- c. Contractor acknowledges and understands that, pursuant to Public Contract Code Section 20676, sellers of "mined material" must be on an approved list of sellers published pursuant to Public Resources Code Section 2717(b) in order to supply mined material for this Contract.

ARTICLE 64. PATENT FEES OR ROYALTIES.

The Contractor shall include in its bid amount the patent fees or royalties on any patented article or process furnished or used in the Work. Contractor shall assume all liability and responsibility arising from the use of any patented, or allegedly patented, materials, equipment, devices or

GENERAL CONDITIONS

processes used in or incorporated with The Work, and shall defend, indemnify and hold harmless the District, its officials, officers, agents, employees and representatives from and against any and all liabilities, demands, claims, damages, losses, costs and expenses, of whatsoever kind or nature, arising from such use.

ARTICLE 65. OWNERSHIP OF DRAWING

All Contract Documents furnished by the District are District property. They are not to be used by Contractor or any subcontractor on other work nor shall Contractor claim any right to such documents. With exception of one complete set of Contract Documents, all documents shall be returned to the District on request at completion of The Work.

ARTICLE 66. NOTICE OF TAXABLE POSSESSORY INTEREST

In accordance with Revenue and Taxation Code Section 107.6, the Contract Documents may create a possessory interest subject to personal property taxation for which Contractor will be responsible.

GENERAL CONDITIONS

69

SPECIAL CONDITIONS

"ARTICLE 67 SHALL BE ADDED TO THE GENERAL CONDITIONS TO READ AS FOLLOWS:

ARTICLE 67. VALUE ENGINEERING CHANGE PROPOSALS (VECP)

Value Engineering - Modifications to the project which are proposed by the Contractor and which provide the product or services equal to that called for in the project specifications, but at lower cost than the cost of those products or services designated in the specifications.

- a. Applicability - The provisions of this section shall apply only to Value Engineering Change Proposals (VECPs) resulting in net cost savings of Twenty Thousand dollars (\$20,000) or greater.

- b. Future Changes - The Contractor is entitled to share in the net cost savings of the VECP to the full extent provided for in this section and in the change order implementing the VECP. However, the net cost savings shall not continue to subsequent contract change orders nor other modifications of the contract which may change the service provided or increase the quantity of any item related to the VECP.

- c. VECP Submittal - The Contractor must submit all VECPs to the Engineer after receipt of the Notice To Proceed and prior to surpassing forty percent (40%) of the contract time allowed in Section 01010-3.0, Time Allowed For Completion. The number of copies of the VECP submitted shall be in accordance with that designated for submittals in Section 01300, SUBMITTALS.

The Contractor shall include the following information for each VECP, in a form acceptable to the Engineer:

- 1) Description of the differences between the existing design and the proposed design.

- 2) Description of the advantages and disadvantages of the existing design and the proposed design.

- 3) If the function of an item is altered, the justification for altering that function.

- 4) The effect of the proposed modifications on the performance of the system or facility.

SPECIAL CONDITIONS

- 5) Any test data regarding the proposed modification.
 - 6) A listing and analysis of all design criteria and specifications that must be changed if the VECP is accepted.
 - 7) A separate detailed estimate of the impact on the project costs, together with a copy of the Contractor's approved schedule of values or costs.
 - 8) A description and estimate of costs the District may incur to implement the VECP, including, but not limited to, design changes, inspection, testing, and evaluation costs.
 - 9) A prediction of any effects the VECP may have on life-cycle costs.
 - 10) The effect of the VECP on design and construction schedules.
 - 11) All preliminary engineering data necessary to support approval of the VECP.
- d. Acceptance of VECP by District - The District shall have sole discretion to determine whether or not to accept a VECP. The District's decision shall be final.

A VECP will be rejected if it causes an increase to the contract amount.

Within thirty (30) days after receipt of a VECP by the Engineer, the Contractor shall be notified in writing that the VECP is acceptable, rejected, or additional time is required for the Engineer's response.

If determined acceptable, the Engineer will initiate a contract change order to implement the VECP. A VECP which is acceptable shall be incorporated into the project only through a contract change order.

- e. Contractor's Right to Withdraw VECP - The Contractor has the right to withdraw part or all of any VECP at any time prior to written acceptance by the District. Such withdrawal shall be made in writing. Each VECP submitted by the Contractor shall remain valid for a period of thirty (30) days from the date received, unless extended by the Engineer. If the Contractor desires to withdraw the VECP prior to its acceptance or rejection, the Contractor shall be liable for the costs incurred by the District in reviewing the VECP.
- f. Change Order Content For Accepted VECP - The contract change order for an accepted VECP shall offer to the Contractor fifty percent (50%) of the net cost savings, as determined by the Engineer. The change order shall detail the cost

SPECIAL CONDITIONS

savings of each contract item that is part of the final accepted VECP. The net cost savings shall be accomplished through progress payments for the various items of work listed in the contract change order.

- g. Identical VECP - A VECP identical to a VECP submitted under any other contract, by the Contractor, or any other contractor, may also be submitted under this contract, provided that the VECP originated with such contractor and not with the District, Design Consultant, or Engineer.
- h. Restrictions - The Contractor may restrict the District's right to use any VECP data by marking it with the following statement:

“This data, furnished pursuant to the Value Engineering Change Proposal section of this contract, shall not be duplicated, used or disclosed, in whole or in part, for any purpose except to evaluate the VECP, unless the VECP is accepted by the District. This restriction does not limit the City's right to use information contained in this data if it is or has been obtained, or is otherwise available from the Contractor or from other sources, without limitations. When this VECP is accepted by the District, the District shall have the right to duplicate, use and disclose any data in any manner and for any purpose whatsoever, and have others do so whether under this or any other contract.”

SPECIAL CONDITIONS

72

TECHNICAL SPECIFICATIONS

THE FOLLOWING PLANS AND DRAWINGS ARE INCORPORATED HEREIN BY REFERENCE AS IF SET FORTH IN THEIR ENTIRETY:

1. G-1 TITLE SHEET, INDEX OF DRAWINGS AND LOCATION MAPS
2. G-2 STANDARD ABBREVIATIONS, SYMBOLS AND GENERAL NOTES
3. G-3 GENERAL FLOW SCHEMATIC
4. C101 DEMO PLAN
5. C102 SITE PLAN
6. M051 MECHANICAL DETAILS
7. M101 PUMP PIPING EXISTING SECTION
8. M102 PUMP PIPING PLAN AND SECTION
9. M103 PUMP PIPING FILTER VESSELS
10. M201 BACKWASH TANK IMPROVEMENTS 1
11. M202 BACKWASH TANK IMPROVEMENTS 2
12. M203 RECLAIM PUMPS
13. E01 ELECTRICAL SYMBOLS AND ABBREVIATION
14. E02 EXISTING MOTOR CONTROL CENTER ONELINE DIAGRAM AND PANEL SCHEUDLE
15. E03 EXISTING MOTOR CONTROL CENTER ELEVATION
16. E04 VFD WIRING DIAGRAM
17. E05 SOFT START WIRING DIAGRAM
18. E06 BACKWASH RETURN PUMPS WIRING DIAGRAM
19. E40 CONDUIT SCHEDULE
20. E50 ELECTRICAL DETAILS
21. E101 ELECTRICAL SITE PLAN
22. E102 ELECTRICAL DEMO PLAN

TECHNICAL SPECIFICATIONS

- 23. E103 ELECTRICAL FLOOR PLAN
- 24. I01 PROCESS AND INSTRUMENTATION SYMBOLS AND ABBREVIATIONS
- 25. I02 PROCESS AND INSTRUMENTATION
- 26. I03 PROCESS AND INSTRUMENTATION
- 27. I04 PROCESS AND INSTRUMENTATION
- 28. I05 PROCESS AND INSTRUMENTATION
- 29. I06 PROCESS AND INSTRUMENTATION
- 30. I07 PROCESS AND INSTRUMENTATION
- 31. I08 PROCESS AND INSTRUMENTATION
- 32. I09 PROCESS AND INSTRUMENTATION
- 33. I10 PROCESS AND INSTRUMENTATION
- 34. I11 PROCESS AND INSTRUMENTATION
- 35. I12 PROCESS AND INSTRUMENTATION
- 36. I20 COMMUNICATION BLOCK DIAGRAM
- 37. I50 INSTRUMENTATION DETAILS

PART B – TECHNICAL SPECIFICATIONS

HAMPTON VILLAGE WATER TREATMENT PLANT REFURBISHMENT
PROJECT

July 23, 2014

TO: Chairman and Directors of the Florin Resource Conservation District
FROM: Ellen Carlson, Management Analyst
SUBJECT: **LEGISLATIVE UPDATE**

RECOMMENDATION

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

Summary

Summer recess began at close of business day July 3 for both Federal and State legislators. They will reconvene on August 4. The only bill of immediate, active interest is SB 848, Senator Wolk's alternative bond proposal that was recently amended to a reduced amount.

DISCUSSION

Background

The Board requests monthly updates of legislation items related to the District. Attached is a summary of bills with recent activity and a spreadsheet tracking water bond proposals.

Present Situation

The legislators are on recess until August 4, so no important actions can be expected until they reconvene. The most recent event was the revision of SB 848. In response to Governor Brown's call for a reduced water bond proposal, SB 848 was further amended and reduced to a 7.5 billion dollar bill. This is still a larger bond proposal than what Governor Brown wants. He has specifically called for a \$6 billion proposal that disassociates the bond from the Delta tunnels project.

July 23, 2014

LEGISLATIVE UPDATE

Page 2

AB2100, which would prohibit associations, such as homeowner associations, from fining residences for dead lawns during declared droughts is in engrossing and enrolling, which is the final step of preparation for the Governor's signature.

STRATEGIC PLAN CONFORMITY

Tracking active legislation complies with the District's Regulatory Compliance goals of the 2012-2017 Strategic Plan.

FINANCIAL SUMMARY

There is no direct financial impact associated with the legislative items at this time.

Respectfully submitted,



ELLEN R. CARLSON
MANAGEMENT ANALYST

Attachments

Current Legislation

Federal

Bill	HR 1837
Author (s)	Pallone(cosponsors Reichert, Yarmuth and Sanchez and others)
Title	Clean Water Protection Act
Introduced	5/7/2013
Summary	Amends the Federal Water Pollution Control Act to clarify that fill material cannot be comprised of waste materials
Status	5/7/2013 In subcommittee on Water Resources and Environment
Support	
Opponents	

Bill	HR 3080
Author (s)	Shuster
Title	Water Resources Development Act of 2013
Introduced	9/11/13
Summary	Increases spending on flood control and related mitigation projects
Status	6/10/2014 Signed into law by President Obama
Support	US Chamber of Commerce, American Society of Engineers, National Association of Home Builders, Laborers' International Union, Associated General Contractors, American Soybean Association, Painters and Allied Trades Union, National Waterways Conference, American Waterways Operators,
Opponents	National Wildlife Federation, Natural Resources Defense Council, Sierra Club, Defenders of Wildlife, Environmental Defense Fund, Ocean Conservancy, The Wilderness Society, Center for Biological Diversity, American Rivers, Clean Water Action

Bill	HR 3964
Author (s)	Valadao
Title	Sacramento-San Joaquin Valley Emergency Water Delivery Act
Introduced	1/29/2014
Summary	Reallocates water released for fish and wildlife purposes to the Central Valley Water Project
Status	2/10/2014 placed on Senate calendar under General Orders (has passed the House)
Support	Congressman Nunes, Council for Citizens against Government Waste,
Opponents	Governor Brown, Restore the Delta, Friends of the River, Planning and Conservation League, California Water Impact League, California Sportfishing Protection Alliance, Clean Water Action California, Coalition for Water, Sierra Club, AquAlliance, Sacramento River Preservation Trust, Center for Biological Diversity, Winnemem Wintu Tribe, Southern California Watershed Alliance, California Coastkeeper Alliance, California Rural Legal Assistance Foundation, Foothill Conservancy, Metropolitan Water of Southern California, Eastern Municipal Water District and many others

Bill	HR 4039
Author (s)	Costa
Title	California Emergency Drought Act of 2014
Introduced	2/11/2014
Summary	Provides disaster assistance to California for drought concerns
Status	2/14/2014 referred to House subcommittee on the Environment and the Economy
Support	Metropolitan Water of Southern California, Eastern Municipal Water District, if amended; EBMUD
Opponents	

Bill	HR 4125
Author (s)	Costa
Title	Shasta Dam expansion
Introduced	2/28/2014
Summary	Authorizes expansion of Shasta Dam at an approximate cost of \$1.1 billion
Status	3/5/2014 referred to House committee on Water and Power
Support	
Opponents	

Bill	HR 4126
Author (s)	Costa
Title	San Luis Reservoir expansion
Introduced	2/28/2014
Summary	Authorizes expansion of San Luis reservoir at a cost of \$360 million
Status	3/7/2014 referred to House committee on Water and Power
Support	
Opponents	

Bill	HR 4127
Author (s)	Costa
Title	Upper San Joaquin River storage (Temperance Flat)
Introduced	2/28/2014
Summary	Authorizes construction of storage in Upper San Joaquin River at a cost estimate of \$2.5 billion
Status	3/6/2014 referred to House subcommittee on Water and Power
Support	
Opponents	

Bill	HR 4239
Author (s)	Huffman
Title	To provide Drought Assistance to the State of California and other affected Western States
Introduced	3/13/2014
Summary	Requires the "maximum quantity" of water supplies possible to the Central Valley Project and the Klamath Project and to expedite WaterSMART grant funding and emergency appropriations of \$255,000,000 for drought response
Status	4/16/2014 Referred to subcommittee on Crime, Terrorism, Homeland Security and Investigations
Support	
Opponents	

Bill	HR 4300
Author (s)	Garamendi and LaMalfa
Title	Sacramento Valley Water Storage and Restoration Act of 2014 (the Sites Project)
Introduced	3/26/2014
Summary	Approves building of the Sites Reservoir to improve flood control efforts, increase water storage, improve fish and wildlife conditions and improve the State's water system at a cost of up to \$4.1 billion.
Status	3/31/2014 Referred to House committee on Water and Power
Support	
Opponents	

Bill	S 1508
Author (s)	Cardin
Title	Water Infrastructure Resiliency and Sustainability Act of 2013
Introduced	9/17/2013
Summary	Authorizes the EPA to award grants that address changes to the hydrological conditions in the US
Status	9/17/2013 referred to the Environment and Public Works committee
Support	
Opponents	

Bill	S 2016
Author (s)	Feinstein and Boxer
Title	California Emergency Drought Relief Act of 2014
Introduced	2/11/2014
Summary	Provides western states (including California) with \$300 million for drought relief projects: \$100 million to Dept. of the Interior for water supply increase, \$100 million to farmers who practice water conservation measures that protect sensitive watersheds and the balance for grants, particularly for private forest landowners and migrant and seasonal workers directly harmed by the drought. Also increases funding for other programs and expedites drought related projects and decisions
Status	2/11/2014 referred to committee on Energy and Natural Resources
Support	Westlands Water District, California Farm Bureau Federation, California Association of Sanitation Agencies, East Bay MUD, Tulare Farm Bureau, Metropolitan Water of Southern California, Eastern Municipal Water District, if amended;
Opponents	Contra Costa Water District

Bill	S 2198
Author (s)	Feinstein
Title	Emergency Drought Relief Act of 2014
Introduced	4/1/2014
Summary	To provide additional water supplies and disaster assistance to the State of California and other Western States due to drought and for other purposes
Status	5/23/2014 Held at desk
Support	Families Protecting the Valley
Opponents	

California Assembly

Bill	AB 194
Author (s)	Campos
Title	Brown Act amendment
Introduced	1/28/13
Summary	Amended to expand the authorization for a district attorney or interested party to seek a judicial determination that an action taken by a legislative body is null and void if the legislative body violated the requirement that every agenda for a regular meeting or notice for a special meeting provide an opportunity for members of the public to address the legislative body on items being considered, as specified.
Status	7/1/2014 Read second time and amended; ordered to third reading
Support	
Opponents	ACWA, Association of California School Administrators, CSDA

Bill	AB 1331
Author (s)	Rendon
Title	Clean and Safe Drinking Water Act of 2014
Introduced	2/22/2013
Summary	Authorizes the issuance of water bonds in the amount of \$6,500,000,000
Status	6/18/2014 Withdrawn from committee
Support	California Water Association, San Gabriel Valley Council of Governments, California Waterfowl Association, Metropolitan Water District (if amended)
Opponents	ACWA (unless amended – wants increased groundwater funding)

Bill	AB 1434
Author (s)	Yamada
Title	Water corporations – Low income relief
Introduced	1/6/2014
Summary	Would require the Department of Community Services and Development and the State Board of Equalization to implement programs to provide assistance to low-income customers of water corporations.
Status	6/24/2014 Do pass and referred to Appropriations
Support	American Federation of State, County and Municipal Employees, Office of Ratepayer Advocates
Opponents	ACWA (compliance would cost too much), Sacramento Regional Water Alliance

Bill	AB 1739
Author (s)	Dickinson
Title	Groundwater basin management: sustainability
Introduced	2/14/2014
Summary	Amends the Groundwater Quality Monitoring Act of 2001 to prioritize monitoring of groundwater basins that supply drinking water. Requires SWRCB and DWR to develop thresholds for sustainable management of priority groundwater basins.
Status	6/25/2014 Do pass and referred to Appropriations
Support	ACWA (if amended)
Opponents	

Bill	AB 2043
Author (s)	Bigelow and Conway
Title	Safe, Clean and Reliable Water Supply Act of 2014
Introduced	2/20/2014
Summary	Authorizes a \$7.935 billion bond to finance a safe drinking water and water supply reliability program which includes \$3 billion for water storage, \$0.8 billion for groundwater protection and water quality, \$1.5 billion for Delta sustainability, nearly \$1.19 billion for regional water supply reliability, \$1.05 billion for water recycling projects and advanced water treatment technology, and \$395 million for drought relief, wastewater treatment, and safe drinking water.
Status	6/30/2014 Joint Rule 62(a) file notice suspended
Support	Metropolitan Water (if amended), San Diego County Water Authority (if amended)
Opponents	ACWA (unless amended)

Bill	AB 2067
Author (s)	Weber
Title	Urban Water Management Plans:
Introduced	2/20/2014
Summary	Would add the requirement that water demand management measures be detailed in the UWMP
Status	7/3/2014 In Senate, held at Desk
Support	Metropolitan Water
Opponents	

Bill	AB 2100
Author (s)	Campos
Title	Yard maintenance and fines during drought
Introduced	2/20/2014
Summary	Would prohibit an association, during a drought emergency declared by the governor, from enforcing a law or ordinance requiring a resident to water his/her lawn
Status	7/3/2014 To engrossing and enrolling
Support	East Bay MUD, ACWA, Metropolitan Water, San Diego County Water Authority
Opponents	

Bill	AB 2104
Author (s)	Gonzalez
Title	Common interest developments: water-efficient landscapes
Introduced	2/20/2014
Summary	Would prohibit landscape requirements or guidelines from prohibiting low water-using plants or restricts water efficient landscaping
Status	6/12/2014 Ordered to third reading
Support	East Bay MUD, ACWA, San Diego County Water Authority
Opponents	

Bill	AB 2554
Author (s)	Rendon
Title	Clean, Safe, and Reliable Drinking Water Act of 2014
Introduced	2/21/2014
Summary	Water bond measure for \$8.5 billion
Status	4/29/2014 Passed committee on Water, Parks and Wildlife, to Appropriations, Bill is very similar to AB 1331, but Rendon has objected to AB 1331 amendments
Support	Metropolitan Water (if amended)
Opponents	ACWA (unless amended)

Bill	AB 2686
Author (s)	Perea
Title	Clean, Safe and Reliable Water Supply Act of 2014
Introduced	2/21/2014
Summary	Authorizes a bond action of unspecified amount
Status	6/30/2014 Joint Rule 62(a) file notice suspended
Support	ACWA, Logue, Metropolitan Water (if amended), San Diego County Water Authority
Opponents	Clean Water Action, Planning and Conservation League, Sierra Club

California Senate

Bill	SB 848
Author (s)	Wolk
Title	Safe Drinking Water, Water Quality and Flood Protection Act of 2014
Introduced	1/9/2014
Summary	Repeals the previous bond proposals and replaces them with a \$7,500,000,000 bond to finance water storage projects
Status	7/3/2014 Read third time and amended
Support	Sonoma County Water Agency, Yolo County Board of Supervisors, Water Bond Coalition, CARCD, County of Sacramento,
Opponents	ACWA (unless amended – wants more Delta sustainability funding and continuous appropriation for storage), Metropolitan Water (unless amended), Madera County Farm Bureau, Northern California Water Association

Bill	SB 927
Author (s)	Cannella and Vidak
Title	Safe, Clean and Reliable Drinking Water Supply Act of 2014
Introduced	1/29/2014
Summary	Proposes a water bond in the amount of \$9,217,000,000, removes authorization for funds for ecosystem and watershed protection and restoration and increases funding for disadvantaged and economically distressed areas.
Status	4/22/2014 Failed passage in Natural Resources and Water committee, reconsideration granted
Support	Metropolitan Water (if amended)
Opponents	ACWA, unless amended

Bill	SB 992
Author (s)	Nielsen
Title	Common interest developments: water-efficient landscaping
Introduced	2/12/2014
Summary	Would prohibit landscape requirements or guidelines from prohibiting low water-using plants or restricts water efficient landscaping
Status	6/19/2014 Ordered to third reading
Support	East Bay MUD, Metropolitan Water (if amended), San Diego County Water Authority
Opponents	

Bill	SB 1036
Author (s)	Pavley
Title	Urban water management plans
Introduced	2/18/2014
Summary	Requires DWR to develop methodology for voluntary reporting of energy consumption in urban water management plans
Status	6/17/2014 Do pass and referred to Appropriations
Support	Metropolitan Water, East Bay MUD
Opponents	

Bill	SB 1168
Author (s)	Pavley
Title	Groundwater management plans
Introduced	2/20/2014
Summary	Enacts the Sustainable Groundwater Management Act for the sustainable management of groundwater basins through local entities with adopted groundwater management plans
Status	6/24/2014 Do pass and referred to Appropriations.
Support	ACWA (if amended)
Opponents	

Bill	SB 1250
Author (s)	Hueso
Title	Safe, Clean and Reliable Drinking Water Supply Act of 2014
Introduced	2/20/2014
Summary	Proposes a 10,150,000,000 Water Bond
Status	5/13/2014 Hearing cancelled at request of author
Support	ACWA, Metropolitan Water (if amended)
Opponents	

Bill	SB 1281
Author (s)	Pavley
Title	Oil and gas production: water use reporting
Introduced	2/21/201
Summary	Would require an unspecified reduction in the use of freshwater in oil and gas production
Status	7/2/2014 Hearing cancelled at request of author
Support	Clean Water Action, EarthWorks, Environmental Working Group, Citizens for Responsible Oil & Gas, Los Padres Forest Watch, Natural Resources Defense Council
Opponents	Chambers of Commerce Alliance – Santa Barbara and Venture Counties,

Bill	SB 1370
Author (s)	Galgiani
Title	Reliable Water Supply Bond Act of 2014
Introduced	2/21/2014
Summary	Water bond for \$6,260,000,000
Status	4/8/2014 first hearing in Senate Natural Resources and Water committee
Support	
Opponents	ACWA (unless amended), Metropolitan Water (unless amended), San Diego County Water Authority (unless amended)

Bill	SB 1420
Author (s)	Wolk
Title	Urban Water Management Plans
Introduced	2/21/2014
Summary	Will require water districts to quantify and report on system distribution loss
Status	6/17/2014 Do pass and referred to Appropriations
Support	Metropolitan Water, San Diego County Water Authority
Opponents	

California Water Bonds 2013-2014

Bill	2014 Bond	AB 1331	AB 2043	AB 2554	AB 2686	SB 848	SB 1250	SB 1370
Author - Party		Rendon - D	Bigelow - R	Rendon - D	Perea - D	Wolk - D	Hueso - D	Galgiani - D
Grant \$?	X	X	X		X	X	X	
Status	Existing proposal	Hearing postponed	Hearing postponed	Probably dead	Hearing postponed	Senate Appropriations	Hearing cancelled	Probably dead
Clean and Safe Drinking Water projects		\$ 1,000,000,000		\$ 1,000,000,000	\$ 1,000,000,000	\$ 2,350,000,000	\$ 900,000,000	
Multibenefit ecosystem and watershed protection and restoration projects	\$ 1,785,000,000	\$ 1,500,000,000		\$ 1,500,000,000	\$ 1,500,000,000	\$ 2,300,000,000	\$ 1,300,000,000	
Climate change	\$ 2,250,000,000	\$ 1,000,000,000	\$ 1,500,000,000	\$ 1,000,000,000	\$ 2,250,000,000	\$ 850,000,000	\$ 2,250,000,000	
Delta projects	\$ 3,000,000,000	\$ 2,500,000,000	\$ 3,000,000,000	\$ 3,000,000,000	\$ 3,000,000,000		\$ 3,100,000,000	\$ 6,260,000,000
Water storage	\$ 1,050,000,000		\$ 840,000,000				\$ 1,000,000,000	
Water supply reliability	\$ 455,000,000		\$ 395,000,000			\$ 2,000,000,000		
Drought relief/preparedness	\$ 1,000,000,000		\$ 800,000,000		\$ 1,000,000,000		\$ 500,000,000	
Groundwater protection	\$ 250,000,000		\$ 1,050,000,000				\$ 250,000,000	
Water efficiency/conservation			\$ 350,000,000				\$ 350,000,000	
Water conveyance								
Regional grant projects	\$ 350,000,000							
Water recycling	\$ 1,000,000,000				?		\$ 500,000,000	
Total Bond Amount:	\$ 11,140,000,000	\$ 8,000,000,000	\$ 7,935,000,000	\$ 8,500,000,000	unspecified	\$ 7,500,000,000	\$ 10,150,000,000	\$ 6,260,000,000