

SOLANO COUNTY WATER AGENCY



BOARD OF DIRECTORS:

Chair:

Supervisor Erin Hannigan
Solano County District 1

Vice Chair:

Mayor Pete Sanchez
City of Suisun City

Mayor Len Augustine
City of Vacaville

Mayor Jack Batchelor
City of Dixon

Director Dale Crossley
Reclamation District No. 2068

Mayor Osby Davis
City of Vallejo

Director John D. Kluge
Solano Irrigation District

Director Ryan Mahoney
Maine Prairie Water District

Mayor Elizabeth Patterson
City of Benicia

Mayor Harry Price
City of Fairfield

Mayor Norm Richardson
City of Rio Vista

Supervisor Linda Seifert
Solano County District 2

Supervisor Jim Spering
Solano County District 3

Supervisor Skip Thomson
Solano County District 5

Supervisor John Vasquez
Solano County District 4

GENERAL MANAGER:

Roland Sanford
Solano County Water Agency

BOARD OF DIRECTORS MEETING

DATE: Thursday, November 10, 2016

TIME: 6:30 P.M.

PLACE: Berryessa Room
Solano County Water Agency Office
810 Vaca Valley Parkway, Suite 203
Vacaville

1. **CALL TO ORDER**

2. **PLEDGE OF ALLEGIANCE**

3. **APPROVAL OF AGENDA**

4. **PUBLIC COMMENT**

Limited to 5 minutes for any one item not scheduled on the Agenda.

5. **CONSENT ITEMS**

(A) Minutes: Approval of the Minutes of the Board of Directors meeting of October 13, 2016 is recommended.

(B) Expenditure Approvals: Approval of the October 2016 checking account register is recommended.

(C) Purchase of 2013 Ford F-750 (5-yard) Dump Truck:
Approve purchase of 2013 Ford F-750 (5-yard) Dump Truck.

6. **BOARD MEMBER REPORTS**

RECOMMENDATION: For information only.

810 Vaca Valley Parkway, Suite 203
Vacaville, California 95688
Phone (707) 451-6090 • FAX (707) 451-6099
www.scwa2.com



7. **GENERAL MANAGER'S REPORT**

RECOMMENDATION: For information only.

8. **SCWA 2015 URBAN WATER MANAGEMENT PLAN**

RECOMMENDATIONS: Hold public hearing and approve 2015 Solano County Water Agency Urban Water Management Plan

9. **LEGISLATIVE UPDATE**

RECOMMENDATION: Hear legislative update by Pat Leathers and provide direction to staff

10. **SALARY STUDY**

RECOMMENDATIONS: Adopt revised salary range placements for current job classifications and positions, and authorize General Manager to promote or demote employees within the current job classifications, subject to available budgeted funding for salary and benefits.

11. **STRATEGIC PLANNING BOARD WORKSHOP**

RECOMMENDATION: Review draft of SCWA 2016-2025 Strategic Plan.

12. **WATER POLICY UPDATES**

RECOMMENDATIONS:

1. Hear report from staff on current and emerging Delta and Water Policy issues and provide direction.
2. Hear status report from Committee Chair Supervisor Seifert on activities of the SCWA Water Policy Committee.
3. Hear report from Supervisor Thomson on activities of the Delta Counties Coalition and Delta Protection Commission.
4. Hear report from Legislative Committee.

13. **TIME AND PLACE OF NEXT MEETING**

Thursday, December 8, 2016 at 6:30 p.m. at the SCWA offices.

The Full Board of Directors packet with background materials for each agenda item can be viewed on the Agency's website at www.scwa2.com.

Any materials related to items on this agenda distributed to the Board of Directors of Solano County Water Agency less than 72 hours before the public meeting are available for public inspection at the Agency's offices located at the following address: 810 Vaca Valley Parkway, Suite 203, Vacaville, CA 95688. Upon request, these materials may be made available in an alternative format to persons with disabilities.

CONSENT ITEMS

**SOLANO COUNTY WATER AGENCY
BOARD OF DIRECTORS MEETING MINUTES**

MEETING DATE: October 13, 2016

The Solano County Water Agency Board of Directors met this evening at the Solano County Water Agency. Present were:

Supervisor Erin Hannigan, Solano County District 1
Supervisor, Linda Seifert, Solano County District 2
Supervisor James Spering, Solano County District 3
Supervisor John Vasquez, Solano County District 4
Supervisor Skip Thomson, Solano County District 5
Mayor Jack Batchelor, City of Dixon
Mayor Elizabeth Patterson, City of Benicia
Mayor Harry Price, City of Fairfield
Mayor Norm Richardson, City of Rio Vista
Mayor Len Augustine, City of Vacaville
Mayor Pete Sanchez, City of Suisun City
Director Ryan Mahoney, Maine Prairie Water District
Director Dale Crossley, Reclamation District 2068
Director John Kluge, Solano Irrigation District

CALL TO ORDER

The meeting was called to order at 6:30 P.M. by Chair Hannigan.

APPROVAL OF AGENDA

On a motion by Mayor Sanchez and a second by Mayor Batchelor the Board unanimously approved the agenda.

PUBLIC COMMENT

There were no public comments.

CONSENT ITEMS

On a motion by Mayor Batchelor and a second by Mayor Patterson the Board unanimously approved consent items:

- (A) Minutes
- (B) Expenditure Approvals
- (C) Quarterly Financial Reports
- (D) Modifications to the Reserve Fund Policy
- (E) Vallejo Permit Water-Napa NBA Point of Delivery
- (F) Contract with Integrated Environmental Restoration Services for Cold Fire Watershed Assessment
- (G) Tree Spade for John Deere 624k Loader

BOARD MEMBER REPORTS

There were no board member reports.

GENERAL MANAGER'S REPORT

There were no additions to the General Managers written report.

STATUS REPORT: NORTH BAY AQUEDUCT ALTERNATE INTAKE PROJECT

Thomas Pate gave a presentation on the history and current status of the North Bay Aqueduct Alternate Intake Project.

**SERVICE AGREEMENT WITH WILSON PUBLIC AFFAIRS FOR
COMMUNICATIONS AND OUTREACH SERVICES IN SUPPORT OF NORTH BAY
AQUEDUCT ALTERNATE INTAKE PROJECT**

On a motion by Supervisor Spering and a second by Supervisor Vasquez the Board approved the agreement with Wilson Public Affairs with the understanding that the SCWA Legislative Committee review the proposed scope of work and monitor project progress.

**GROUNDWATER MANAGEMENT OF SOLANO SUB-BASIN PURSUANT TO THE
SUSTAINABLE GROUNDWATER MANAGEMENT ACT**

Brooking Gatewood of Ag Innovations gave a presentation on the SGMA process to date and the recommendations for the proposed Groundwater Sustainability Agency.

**CONTRACT AMENDMENT FOR FACILITATION SERVICES
FOR SGMA IMPLEMENTATION**

On a motion by Mayor Patterson and a second by Supervisor Seifert the Board unanimously approved the contract amendment with Ag Innovations.

WATER POLICY UPDATES

1. There was no report from staff on current and emerging Delta and Water Policy issues.
2. There was no report on activities of the SCWA Water Policy Committee.
3. There was no report on activities of the Delta Counties Coalition and Delta Protection Commission.
4. There was no report from the Legislative Committee.

TIME AND PLACE OF NEXT MEETING

Thursday, November 10, 2016 at 6:30 p.m. at the SCWA offices.

ADJOURNMENT

This meeting of the Solano County Water Agency Board of Directors was adjourned at 8:20 p.m.

Roland Sanford
General Manager & Secretary to the
Solano County Water Agency

**ACTION OF
SOLANO COUNTY WATER AGENCY**

DATE: November 10, 2016
SUBJECT: Expenditures Approval

RECOMMENDATIONS:

Approve expenditures from the Water Agency checking accounts for the month of October 2016.


FINANCIAL IMPACT:

All expenditures are within previously approved budget amounts.

BACKGROUND:

The Water Agency auditor has recommended that the Board of Directors approve all expenditures (in arrears). Attached is a summary of expenditures from the Water Agency's checking accounts for the month of October, 2016. Additional backup information is available upon request.

Recommended: _____


Roland Sanford, General Manager

☐

Approved as
recommended

☐

Other
(see below)

☐

Continued on
next page

Modification to Recommendation and/or other actions:

I, Roland Sanford, General Manager and Secretary to the Solano County Water Agency, do hereby certify that the foregoing action was regularly introduced, passed, and adopted by said Board of Directors at a regular meeting thereof held on November 10, 2016 by the following vote.

Ayes:

Noes:

Abstain:

Absent:

Roland Sanford
General Manager & Secretary to the
Solano County Water Agency

SOLANO COUNTY WATER AGENCY
Cash Disbursements Journal
For the Period From Oct 1, 2016 to Oct 31, 2016

Filter Criteria includes: Report order is by Check Number. Report is printed in Detail Format.

Date	Check #	Name	Account I	Line Description	Debit Amount	Credit Amount
10/25/1	10161	MBK ENGINEERS	2020WC 1020SC	Invoice: 16-10-3868 MBK ENGINEERS	468.75	468.75
10/5/16	29024	ACWA JOINT POWERS IN	2020SC 1020SC	Invoice: 07.01.16 - 09.30.16 ACWA JOINT POWERS INSURANCE AUTHORIT	3,632.64	3,632.64
10/5/16	29025	AMERICAN TOWER CORP	2020SC 1020SC	Invoice: 2269379 AMERICAN TOWER CORPORATION	556.02	556.02
10/5/16	29026	ASHBY COMMUNICATIO	2020SC 1020SC	Invoice: 11010 ASHBY COMMUNICATIONS, INC.	1,486.98	1,486.98
10/5/16	29027	RILEY - BATTERIES PLUS	2020SC 1020SC	Invoice: 681-101613-01 RILEY - BATTERIES PLUS	475.08	475.08
10/5/16	29028	BLANKINSHIP & ASSOCIA	2020SC 2020SC 2020SC 2020SC 1020SC	Invoice: BA4657 Invoice: BA4658 Invoice: BA4656 Invoice: BA4659 BLANKINSHIP & ASSOCIATES, INC.	1,950.00 1,250.00 1,916.67 1,733.33	6,850.00
10/5/16	29029	BSK ASSOCIATES	2020SC 1020SC	Invoice: A623316 BSK ASSOCIATES	420.00	420.00
10/5/16	29030	CENTRAL VALLEY EQUIP	2020SC 2020SC 1020SC	Invoice: 16858 Invoice: 16853 CENTRAL VALLEY EQUIPMENT REPAIR	3,020.29 1,791.05	4,811.34
10/5/16	29031	FRED COLBURN	2020SC 1020SC	Invoice: 7016 FRED COLBURN	218.00	218.00
10/5/16	29032	GREATLAND	2020SC 1020SC	Invoice: 5284538RI GREATLAND	435.82	435.82
10/5/16	29033	HORIZON DISTRIBUTORS,	2020SC 1020SC	Invoice: 1X126409 HORIZON DISTRIBUTORS, INC.	304.35	304.35
10/5/16	29034	PETRILLO'S TIRE AND AU	2020SC 2020SC 1020SC	Invoice: 0175061 Invoice: 0177442 PETRILLO'S TIRE AND AUTO SERVICE	20.00 110.48	130.48
10/5/16	29035	RECOLOGY HAY ROAD	2020SC 1020SC	Invoice: 00951962 RECOLOGY HAY ROAD	268.51	268.51
10/5/16	29036	SBS LEASING A PROGRA	2020SC 2020SC 1020SC	Invoice: 51687691 Invoice: 51688456 SBS LEASING A PROGRAM DE LAGE	980.93 77.67	1,058.60
10/5/16	29037	SHANDAM CONSULTING	2020SC 1020SC	Invoice: 0930160229 SHANDAM CONSULTING	990.00	990.00
10/5/16	29038	SOLANO COUNTY FLEET	2020U 1020SC	Invoice: SEP 2016 SOLANO COUNTY FLEET MANAGEMENT	390.95	390.95
10/5/16	29039	CRAIG D. THOMSEN	2020U 1020SC	Invoice: AUG-SEPT 2016 CRAIG D. THOMSEN	6,492.95	6,492.95
10/5/16	29040	UNAVCO, INC.	2020SC 1020SC	Invoice: 001546 UNAVCO, INC.	122.14	122.14
10/5/16	29041	VACAVILLE TRAILER SA	2020SC 1020SC	Invoice: 7381 VACAVILLE TRAILER SALES	696.35	696.35
10/5/16	29042	WEST ASSOCIATES ENVI	2020SC 1020SC	Invoice: 16-73 WEST ASSOCIATES ENVIRONMENTAL ENGINEERS	8,940.00	8,940.00

SOLANO COUNTY WATER AGENCY
Cash Disbursements Journal
For the Period From Oct 1, 2016 to Oct 31, 2016

Filter Criteria includes: Report order is by Check Number. Report is printed in Detail Format.

Date	Check #	Name	Account I	Line Description	Debit Amount	Credit Amount
				PREVENTION SERVICE		
10/12/1	29058	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: JOSEPH KWONG TURF REBATE PROGRAM	474.00	474.00
10/12/1	29059	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: SONIA RODRIGUEZ TURF REBATE PROGRAM	544.00	544.00
10/12/1	29060	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: RON TUTTLE TURF REBATE PROGRAM	527.00	527.00
10/12/1	29061	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: ICON OWNER POOL 11 TURF REBATE PROGRAM	4,424.00	4,424.00
10/12/1	29062	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: NANCY SCHLESINGER TURF REBATE PROGRAM	289.00	289.00
10/12/1	29063	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: DEBORAH YOUNG TURF REBATE PROGRAM	705.00	705.00
10/12/1	29064	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: MILDRED CELONI TURF REBATE PROGRAM	725.00	725.00
10/12/1	29065	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: MARIE HENDOW TURF REBATE PROGRAM	752.00	752.00
10/12/1	29066	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: MICHELLE LAUZIER TURF REBATE PROGRAM	836.00	836.00
10/12/1	29067	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: DAVID FEWINS TURF REBATE PROGRAM	904.50	904.50
10/12/1	29068	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: PAULA FARNHAM TURF REBATE PROGRAM	1,275.00	1,275.00
10/12/1	29069	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: ROGER WISKEMAN TURF REBATE PROGRAM	1,000.00	1,000.00
10/12/1	29070	A & L WESTERN AGRICU	2020SC 1020SC	Invoice: 183210 A & L WESTERN AGRICULTURAL LABS	72.00	72.00
10/12/1	29071	ALPHA MEDIA II LLC	2020SC 1020SC	Invoice: IN-1160982184 ALPHA MEDIA II LLC	2,500.00	2,500.00
10/12/1	29072	CENTRAL AUTO PARTS	2020SC 2020SC 1020SC	Invoice: 948463 Invoice: 949491 CENTRAL AUTO PARTS	145.49 118.01	263.50
10/12/1	29073	EYASCO, INC.	2020SC 1020SC	Invoice: 4038 EYASCO, INC.	24,464.25	24,464.25
10/12/1	29074	GHD, INC.	2020SC 2020SC 1020SC	Invoice: 70681 Invoice: 70796 GHD, INC.	4,280.25 1,185.00	5,465.25
10/12/1	29075	GROWERS AG SERVICE	2020SC 1020SC	Invoice: 3042789 GROWERS AG SERVICE	867.00	867.00
10/12/1	29076	DENNIS GRUNSTAD	2020SC 1020SC	Invoice: 9-(16) DENNIS GRUNSTAD	880.00	880.00
10/12/1	29077	HERUM \ CRABTREE \ SU	2020SC 2020SC 2020SC 1020SC	Invoice: 81945 Invoice: 81944 Invoice: 81946 HERUM \ CRABTREE \ SUNTAG	265.20 331.50 99.45	696.15
10/12/1	29078	HOLT OF CALIFORNIA	2020SC 1020SC	Invoice: PS010788872 HOLT OF CALIFORNIA	241.40	241.40
10/12/1	29079	IN COMMUNICATIONS	2020SC 1020SC	Invoice: 2016-56 IN COMMUNICATIONS	1,470.00	1,470.00

SOLANO COUNTY WATER AGENCY
Cash Disbursements Journal
For the Period From Oct 1, 2016 to Oct 31, 2016

Filter Criteria includes: Report order is by Check Number. Report is printed in Detail Format.

Date	Check #	Name	Account I	Line Description	Debit Amount	Credit Amount
10/12/1	29080	INTERSTATE OIL COMPA	2020SC 1020SC	Invoice: CL32554 INTERSTATE OIL COMPANY	705.61	705.61
10/12/1	29081	IRON SPRINGS CORPORA	2020SC 1020SC	Invoice: 1408 IRON SPRINGS CORPORATION	5,516.00	5,516.00
10/12/1	29082	M&M SANITARY LLC	2020SC 1020SC	Invoice: 493492 M&M SANITARY LLC	144.00	144.00
10/12/1	29083	MCCORD ENVIRONMENT	2020SC 1020SC	Invoice: 24.02-3 MCCORD ENVIRONMENTAL, INC.	30,649.80	30,649.80
10/12/1	29084	RECOLOGY VACAVILLE S	2020SC 1020SC	Invoice: 40221335 RECOLOGY VACAVILLE SOLANO	232.21	232.21
10/12/1	29085	ROCK STEADY JUGGLING	2020SC 1020SC	Invoice: 1172 ROCK STEADY JUGGLING	4,000.00	4,000.00
10/12/1	29086	ROSS CLARK MATERIAL	2020SC 1020SC	Invoice: 40518 ROSS CLARK MATERIAL HANDLING	3,260.00	3,260.00
10/12/1	29087	SOLANO IRRIGATION DIS	2020SC 2020SC 1020SC	Invoice: 0004834 Invoice: 0004833 SOLANO IRRIGATION DISTRICT	169.90 9,547.23	9,717.13
10/12/1	29088	SUISUN VALLEY FRUIT G	2020SC 2020SC 2020SC 2020SC 2020SC 1020SC	Invoice: 46869 Invoice: 46913 Invoice: 46924 Invoice: 46912 Invoice: 46933 SUISUN VALLEY FRUIT GROWERS AS	146.63 304.88 226.94 251.68	27.95 902.18
10/12/1	29089	VACAVILLE REPORTER	2020SC 1020SC	Invoice: 0001003258 VACAVILLE REPORTER	2,090.52	2,090.52
10/13/1	29090	ESEF APPAREL INC.	6166SC 1020SC	WINTERS SALMON FESTIVAL T SHIRTS ESEF APPAREL INC.	2,872.20	2,872.20
10/13/1	29090V	ESEF APPAREL INC.	6166SC 1020SC	WINTERS SALMON FESTIVAL T SHIRTS ESEF APPAREL INC.	2,872.20	2,872.20
10/13/1	29091	DILLY-DALLY THE CLOW	6166SC 1020SC	CHILDRENS ENTERTAINMENT FOR SALMON FESTIVAL DILLY-DALLY THE CLOWN	350.00	350.00
10/13/1	29091V	DILLY-DALLY THE CLOW	6166SC 1020SC	CHILDRENS ENTERTAINMENT FOR SALMON FESTIVAL DILLY-DALLY THE CLOWN	350.00	350.00
10/17/1	29092	TURF REBATE PROGRAM	2020SC 2020SC 2020SC 1020SC	Invoice: SU-PHEN CORDUCK Invoice: SU-PHEN CORDUCK 1 Invoice: SU-PHEN CORDUCK 2 TURF REBATE PROGRAM	1,000.00 960.00 714.00	2,674.00
10/17/1	29093	JACK BATCHELOR	2020SC 1020SC	Invoice: OCT BOARD MTG JACK BATCHELOR	112.96	112.96
10/17/1	29094	CAMPBELL SCIENTIFIC, I	2020SC 1020SC	Invoice: 220011 CAMPBELL SCIENTIFIC, INC.	9,380.01	9,380.01
10/17/1	29095	DALE CROSSLEY	2020SC 1020SC	Invoice: OCT BOARD MTG DALE CROSSLEY	100.00	100.00
10/17/1	29096	DAILY REPUBLIC, INC.	2020SC 1020SC	Invoice: 134028 DAILY REPUBLIC, INC.	1,041.75	1,041.75

**SOLANO COUNTY WATER AGENCY
Cash Disbursements Journal**

For the Period From Oct 1, 2016 to Oct 31, 2016

Filter Criteria includes: Report order is by Check Number. Report is printed in Detail Format.

Date	Check #	Name	Account I	Line Description	Debit Amount	Credit Amount
10/17/1	29097	DILLY-DALLY THE CLOW	2020SC 1020SC	Invoice: DILLYDALLY DILLY-DALLY THE CLOWN	350.00	350.00
10/17/1	29098	ESEF APPAREL INC.	2020SC 1020SC	Invoice: SALMON SHIRTS ESEF APPAREL INC.	2,872.20	2,872.20
10/17/1	29099	GHD, INC.	2020SC 2020SC 1020SC	Invoice: 71294 Invoice: 71293 GHD, INC.	238.00 1,713.00	1,951.00
10/17/1	29100	HOME DEPOT CREDIT SE	2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 1020SC	Invoice: 3010638 Invoice: 3010637 Invoice: 9020664 Invoice: 5973779 Invoice: 3011964 Invoice: 1012256 Invoice: 1012257 Invoice: 1012258 Invoice: 9766618 Invoice: 5020243 Invoice: 4040060 Invoice: 2020534 Invoice: 1590656 Invoice: 8021023 Invoice: 8021022 HOME DEPOT CREDIT SERVICE	87.09 38.04 209.77 5,876.60 159.28 21.55 106.80 187.61 307.51 32.82 281.75 47.79 107.54 134.41 103.57	7,702.13
10/17/1	29100V	HOME DEPOT CREDIT SE	2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 1020SC	Invoice: 3010638 Invoice: 3010637 Invoice: 9020664 Invoice: 5973779 Invoice: 3011964 Invoice: 1012256 Invoice: 1012257 Invoice: 1012258 Invoice: 9766618 Invoice: 5020243 Invoice: 4040060 Invoice: 2020534 Invoice: 1590656 Invoice: 8021023 Invoice: 8021022 HOME DEPOT CREDIT SERVICE	87.09 38.04 209.77 5,876.60 159.28 21.55 106.80 187.61 307.51 32.82 281.75 47.79 107.54 134.41 103.57	7,702.13
10/17/1	29101	JEWELL INSTRUMENTS	2020SC 1020SC	Invoice: 0000082731 JEWELL INSTRUMENTS	2,148.95	2,148.95
10/17/1	29102	KENNEDY/JENKS CONSU	2020SC 2020SC 1020SC	Invoice: 105174 Invoice: 105279 KENNEDY/JENKS CONSULTANTS	460.00 1,725.00	2,185.00
10/17/1	29103	JOHN D. KLUGE	2020SC 1020SC	Invoice: OCT BOARD MTG JOHN D. KLUGE	100.00	100.00
10/17/1	29104	RYAN MAHONEY	2020SC 1020SC	Invoice: OCT BOARD MTG RYAN MAHONEY	100.00	100.00
10/17/1	29105	MARTIN'S METAL FABRI	2020SC 1020SC	Invoice: 138202 MARTIN'S METAL FABRICATION &	64.73	64.73
10/17/1	29106	ELIZABETH PATTERSON	2020SC 1020SC	Invoice: OCT BOARD MTG ELIZABETH PATTERSON	132.94	132.94
10/17/1	29107	SAM'S CLUB	2020SC 2020SC 2020SC 2020SC 1020SC	Invoice: 009737 Invoice: 999999-1 Invoice: 009948 Invoice: 008552 SAM'S CLUB	431.46 180.00 124.17 338.39	1,074.02
10/17/1	29108	LINDA SEIFERT	2020SC 1020SC	Invoice: OCT BOARD MTG LINDA SEIFERT	100.00	100.00

SOLANO COUNTY WATER AGENCY Cash Disbursements Journal

For the Period From Oct 1, 2016 to Oct 31, 2016

Filter Criteria includes: Report order is by Check Number. Report is printed in Detail Format.

Date	Check #	Name	Account I	Line Description	Debit Amount	Credit Amount
10/17/1	29109	SOLANO RESOURCE CON	2020SC 1020SC	Invoice: 1 SOLANO RESOURCE CONSERVATION DISTRICT	26,440.69	26,440.69
10/17/1	29109V	SOLANO RESOURCE CON	2020SC 1020SC	Invoice: 1 SOLANO RESOURCE CONSERVATION DISTRICT	26,440.69	26,440.69
10/17/1	29110	JAMES SPERING	2020SC 1020SC	Invoice: OCT BOARD MTG JAMES SPERING	100.00	100.00
10/17/1	29111	STERLING MAY CO.	2020SC 2020SC 2020SC 1020SC	Invoice: 63844 Invoice: 64042 Invoice: 65618 STERLING MAY CO.	21.37 38.67 99.00	159.04
10/17/1	29111V	STERLING MAY CO.	2020SC 2020SC 2020SC 1020SC	Invoice: 63844 Invoice: 64042 Invoice: 65618 STERLING MAY CO.	21.37 38.67 99.00 159.04	21.37 38.67 99.00
10/17/1	29112	JOHN VASQUEZ	2020SC 1020SC	Invoice: OCT BOARD MTG JOHN VASQUEZ	100.00	100.00
10/17/1	29113	YELLOW SPRINGS INSTR	2020SC 1020SC	Invoice: 662566 YELLOW SPRINGS INSTRUMENT CO.	8,677.36	8,677.36
10/17/1	29114	HOME DEPOT CREDIT SE	2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 1020SC	Invoice: 3010638 Invoice: 3010637 Invoice: 9020664 Invoice: 5973779 Invoice: 3011964 Invoice: 1012257 Invoice: 1012256 Invoice: 1012258 Invoice: 9766618 Invoice: 5020242 Invoice: 5020243 Invoice: 4040060 Invoice: 2020534 Invoice: 1590656 Invoice: 8021023 Invoice: 8021022 HOME DEPOT CREDIT SERVICE	87.09 38.04 209.77 5,876.60 159.28 106.80 21.55 187.61 307.51 83.20 32.82 281.75 47.79 107.54 134.41 103.57	7,785.33
10/17/1	29115	STERLING MAY CO.	2020SC 2020SC 2020SC 2020SC 1020SC	Invoice: 63844 Invoice: 64042 Invoice: 65618 Invoice: 66125 STERLING MAY CO.	21.37 38.67 99.00 0.90	159.94
10/20/1	29116	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: TRUDE RONSTAD-KEATIN TURF REBATE PROGRAM	972.00	972.00
10/20/1	29117	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: DONNA WIGAND TURF REBATE PROGRAM	1,461.00	1,461.00
10/20/1	29118	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: HALEY MONTOLIU TURF REBATE PROGRAM	893.00	893.00
10/20/1	29119	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: MALCOLM LENSON TURF REBATE PROGRAM	1,000.00	1,000.00
10/20/1	29120	ALAMEDA COUNTY WAT	2020SC 1020SC	Invoice: Q4 2015 09.30.15 ALAMEDA COUNTY WATER DISTRICT	22,183.45	22,183.45
10/20/1	29121	AG INNOVATIONS	2020SC 1020SC	Invoice: 2271 AG INNOVATIONS	11,873.50	11,873.50
10/20/1	29122	AVISTA AUDIO VIDEO EQ	2020SC 1020SC	Invoice: 16-3649 AVISTA AUDIO VIDEO EQUIPMENT RENTALS	976.04	976.04

SOLANO COUNTY WATER AGENCY
Cash Disbursements Journal
For the Period From Oct 1, 2016 to Oct 31, 2016

Filter Criteria includes: Report order is by Check Number. Report is printed in Detail Format.

Date	Check #	Name	Account I	Line Description	Debit Amount	Credit Amount
10/20/1	29123	JACK BATCHELOR	2020SC 2020SC 1020SC	Invoice: EXEC MTG OCT 2016 Invoice: EXEC MTG SEP 2016 JACK BATCHELOR	100.00 100.00	200.00
10/20/1	29124	BSK ASSOCIATES	2020SC 2020SC 1020SC	Invoice: A624429 Invoice: A625128 BSK ASSOCIATES	120.00 120.00	240.00
10/20/1	29125	CITY OF NAPA WATER DI	2020SC 1020SC	Invoice: Q4 2015 09.30.15 CITY OF NAPA WATER DIVISION	58,537.02	58,537.02
10/20/1	29126	CONTRA COSTA WATER	2020SC 1020SC	Invoice: Q4 2015 09.30.15 CONTRA COSTA WATER DISTRICT	2,364.55	2,364.55
10/20/1	29127	DEPARTMENT OF WATER	2020SC 2020SC 2020SC 1020SC	Invoice: 16-026-T-NOV 2016 Invoice: 16-024-O-NOV 2016 Invoice: 17-076-V SEP 2016 DEPARTMENT OF WATER RESOURCES	551,159.00 207.00 52,317.00	603,683.00
10/20/1	29128	IAN BAKER	2020SC 1020SC	Invoice: SEPT 2016 IAN BAKER	127.68	127.68
10/20/1	29129	KC ENGINEERING COMPA	2020SC 1020SC	Invoice: 632 KC ENGINEERING COMPANY	5,480.00	5,480.00
10/20/1	29130	JOHN D. KLUGE	2020SC 2020SC 1020SC	Invoice: EXEC MTG OCT 2016 Invoice: EXEC MTG SEP 2016 JOHN D. KLUGE	100.00 100.00	200.00
10/20/1	29131	NORMANDEAU ASSOCIA	2020SC 2020SC 1020SC	Invoice: 63030 Invoice: 63057 NORMANDEAU ASSOCIATES, INC.	812.50 12,902.91	13,715.41
10/20/1	29132	POWERCET CORPORATIO	2020SC 1020SC	Invoice: 104261 POWERCET CORPORATION	600.00	600.00
10/20/1	29133	PUTAH CREEK COUNCIL	2020SC 1020SC	Invoice: 2016 CREEK CLEANUP PUTAH CREEK COUNCIL	2,500.00	2,500.00
10/20/1	29134	SECRETARY OF STATE	2020SC 1020SC	Invoice: NOTARY TEST 2016 SECRETARY OF STATE	40.00	40.00
10/20/1	29135	SOLANO BAKING COMPA	2020SC 1020SC	Invoice: SCWA HCP CONF 2016 SOLANO BAKING COMPANY	897.47	897.47
10/20/1	29136	SONOMA COUNTY WATE	2020SC 1020SC	Invoice: IRWM RD 2 15/16 SONOMA COUNTY WATER AGENCY	35,746.53	35,746.53
10/20/1	29137	JAMES SPERING	2020SC 2020SC 1020SC	Invoice: EXEC MTG OCT 2016 Invoice: EXEC MTG SEP 2016 JAMES SPERING	100.00 100.00	200.00
10/20/1	29138	ALAMEDA COUNTY WAS	2020SC 1020SC	Invoice: Q4 2015 09.30.15 ALAMEDA COUNTY WASTE MANAGEMENT AUTHORI	14,024.24	14,024.24
10/20/1	29139	SUMMERS ENGINEERING,	2020SC 1020SC	Invoice: 18039 SUMMERS ENGINEERING, INC.	1,302.88	1,302.88
10/20/1	29140	WILDLIFE SURVEY & PH	2020SC 2020SC 1020SC	Invoice: LPCCC-FY2016-17 JULY Invoice: SCWA-FY2016-17_1 WILDLIFE SURVEY & PHOTO SERVICES	2,016.24 11,303.00	13,319.24
10/20/1	29141	ZONE 7 WATER AGENCY	2020SC 1020SC	Invoice: Q4 2015 09.30.15 ZONE 7 WATER AGENCY	4,745.44	4,745.44
10/21/1	29142	FREIGHT & AUTO TRANS	2020SC	Invoice: DELIVERY CHARGE	475.00	

SOLANO COUNTY WATER AGENCY
Cash Disbursements Journal
For the Period From Oct 1, 2016 to Oct 31, 2016

Filter Criteria includes: Report order is by Check Number. Report is printed in Detail Format.

Date	Check #	Name	Account I	Line Description	Debit Amount	Credit Amount
			1020SC	FREIGHT & AUTO TRANSPORT		475.00
10/25/16	29143	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: BRIAN HAWLEY TURF REBATE PROGRAM	847.00	847.00
10/25/16	29144	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: DALE MCNAUGHTON TURF REBATE PROGRAM	1,500.00	1,500.00
10/25/16	29145	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: MICHAEL LAUFFER TURF REBATE PROGRAM	829.50	829.50
10/25/16	29146	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: SEAN HENNESSEY TURF REBATE PROGRAM	383.00	383.00
10/25/16	29147	ACWA JOINT POWERS IN	2020SC 1020SC	Invoice: 2017 DUES ACWA JOINT POWERS INSURANCE AUTHORIT	21,555.33	21,555.33
10/25/16	29148	ADAPT CONSULTING, INC	2020SC 1020SC	Invoice: 22260B ADAPT CONSULTING, INC.	111.02	111.02
10/25/16	29149	AT&T	2020SC 2020SC 1020SC	Invoice: 8736803 Invoice: 8736804 AT&T	188.07 261.60	449.67
10/25/16	29150	ERLER & KALINOWSKI	2020SC 1020SC	Invoice: B50067.01-03 ERLER & KALINOWSKI	10,114.56	10,114.56
10/25/16	29151	ERNST & YOUNG U.S. LL	2020N 1020SC	Invoice: US0131624139 ERNST & YOUNG U.S. LLP	2,767.00	2,767.00
10/25/16	29152	MARTIN'S METAL FABRI	2020SC 1020SC	Invoice: 138265 MARTIN'S METAL FABRICATION &	363.55	363.55
10/25/16	29153	PACIFIC GAS & ELECTRIC	2020SC 1020SC	Invoice: 9/12-10/10/16 PACIFIC GAS & ELECTRIC CO,	1,094.83	1,094.83
10/25/16	29154	SOLANO RESOURCE CON	2020SC 1020SC	Invoice: 7.1.16-9.24.16 SOLANO RESOURCE CONSERVATION DISTRICT	26,440.69	26,440.69
10/25/16	29155	SOUTHWEST ENVIRONM	2020SC 1020SC	Invoice: 34432 SOUTHWEST ENVIRONMENTAL	18,146.00	18,146.00
10/25/16	29156	STAPLES	2020SC 1020SC	Invoice: 1664829161 STAPLES	71.41	71.41
10/25/16	29157	VISION TECHNOLOGY SO	2020SC 1020SC	Invoice: 33588 VISION TECHNOLOGY SOLUTIONS, LLC DBC	200.00	200.00
10/25/16	29158	STANDARD INSURANCE	2020SC 1020SC	Invoice: 006492990046NOV2016 STANDARD INSURANCE COMPANY	1,300.45	1,300.45
10/26/16	29159	WEST ASSOCIATES ENVI	2020SC 1020SC	Invoice: 16-73 WEST ASSOCIATES ENVIRONMENTAL ENGINEERS	8,940.00	8,940.00
10/28/16	29160	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: ROBERT LEE TURF REBATE PROGRAM	529.00	529.00
10/28/16	29161	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: GLENN WAN TURF REBATE PROGRAM	828.00	828.00
10/28/16	29162	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: WILLIAM MARTIN TURF REBATE PROGRAM	560.00	560.00
10/28/16	29163	TURF REBATE PROGRAM	2020SC 1020SC	Invoice: DIANE TRELEAVEN TURF REBATE PROGRAM	1,000.00	1,000.00

SOLANO COUNTY WATER AGENCY
Cash Disbursements Journal
For the Period From Oct 1, 2016 to Oct 31, 2016

Filter Criteria includes: Report order is by Check Number. Report is printed in Detail Format.

Date	Check #	Name	Account I	Line Description	Debit Amount	Credit Amount
10/28/1	29164	TURF REBATE PROGRAM	2020SC	Invoice: WANGDEN PHUNTSOK	1,000.00	
			1020SC	TURF REBATE PROGRAM		1,000.00
10/28/1	29165	TURF REBATE PROGRAM	2020SC	Invoice: JAMES NELSON	1,000.00	
			1020SC	TURF REBATE PROGRAM		1,000.00
10/28/1	29166	TURF REBATE PROGRAM	2020SC	Invoice: CRAIG LOOP	485.00	
			1020SC	TURF REBATE PROGRAM		485.00
10/28/1	29167	TURF REBATE PROGRAM	2020SC	Invoice: PATRICK NYGARD	704.00	
			1020SC	TURF REBATE PROGRAM		704.00
10/28/1	29168	TURF REBATE PROGRAM	2020SC	Invoice: BRENDA YOUNG	1,029.00	
			1020SC	TURF REBATE PROGRAM		1,029.00
10/28/1	29169	TURF REBATE PROGRAM	2020SC	Invoice: VINNY LE	384.00	
			1020SC	TURF REBATE PROGRAM		384.00
10/28/1	29170	AQUATIC INFORMATICS.	2020SC	Invoice: INV51904	2,500.00	
			1020SC	AQUATIC INFORMATICS. INC		2,500.00
10/28/1	29171	DEPT OF FORESTRY & FIR	2020SC	Invoice: 138456	457.24	
			1020SC	DEPT OF FORESTRY & FIRE PROTECTION		457.24
10/28/1	29172	FEDEX EXPRESS	2020SC	Invoice: 5-585-33415	497.15	
			1020SC	FEDEX EXPRESS		497.15
10/28/1	29173	GUCKENHEIMER SERVIC	2020SC	Invoice: 4228002205	1,886.23	
			1020SC	GUCKENHEIMER SERVICES, LLC		1,886.23
10/28/1	29174	IRON SPRINGS CORPORA	2020SC	Invoice: 1409	5,516.00	
			1020SC	IRON SPRINGS CORPORATION		5,516.00
10/28/1	29175	PACIFIC GAS & ELECTRIC	2020SC	Invoice: 0007585659-1	7,270.00	
			1020SC	PACIFIC GAS & ELECTRIC CO,		7,270.00
10/11/1	ASHLEY	BANK OF THE WEST	6040AC	NAPOLI PIZZA - INTERN MEETING	158.07	
			6040AC	REMOTE LINK	12.85	
			6040AC	REMOTE LINK	68.42	
			6040AC	NAPOLI PIZZA - ADVISORY	87.03	
			6040AC	SHANGHAI EXPRESS - TEAM MEETING	123.52	
			6040AC	NAPOLI PIZZA - NAPA SOLANO COORD/SGMA MEETING	287.99	
			6040AC	REMOTELINK	15.53	
			6040AC	WALMART - COOKIES	6.00	
			6040AC	REMOTE LINK	10.93	
			6040AC	REMOTE LINK	14.42	
			6040AC	MARYS PIZZA	40.22	
			6040AC	PURE GRAIN BAKERY - BOARD MEETING	43.50	
			6040AC	CHEVRON - ICE FOR BOARD MEETING	4.94	
			6040AC	WALMART - COOKIES FOR BOARD MEETING	8.00	
			1020SC	BANK OF THE WEST		881.42
10/25/1	BARICH	BANK OF THE WEST	6300AC	LINXUP - TRACKING SERVICE	91.96	
			6300AC	5 STAR CAR WASH	23.99	
			6310AC	CHEVRON - FUEL	47.91	
			1020SC	BANK OF THE WEST		163.86
10/6/16	COLIAS	BANK OF THE WEST	6360AC	WATERSMART INNOVATIONS - WORKSHOP	80.00	
			6330AC	SOUTH POINT HOTEL - WATERSMART WORKSHOP	89.60	
			6166SC	FACEBOOK - AD	25.02	
			6166SC	FACEBOOK - AD	1.27	

SOLANO COUNTY WATER AGENCY

Cash Disbursements Journal

For the Period From Oct 1, 2016 to Oct 31, 2016

Filter Criteria includes: Report order is by Check Number. Report is printed in Detail Format.

Date	Check #	Name	Account I	Line Description	Debit Amount	Credit Amount
			6551AC	CHAMBER OF COMMERCE	50.00	
			6166SC	FACEBOOK	50.03	
			1020SC	BANK OF THE WEST		295.92
10/25	1	CUETAR	6144SC	A-1 MILMAC, INC. - SCREWS SETS	304.36	
			6310AC	CHEVRON - FUEL	69.80	
			6144SC	CAMPBELL SCIENTIFIC - BUFFER SOLUTION	188.06	
			1020SC	BANK OF THE WEST		562.22
10/3/16	EFT	CALPERS	2020SC	Invoice: OCT HEALTH 2016	16,400.14	
			1020SC	CALPERS		16,400.14
10/14	1	EFT	6040AC	EMPLOYEE HANDBOOK ADMINISTRATION - OCT 2016	70.12	
			6111AC	FSA PARTICIPANT FEE OCT 2016	106.75	
			1020SC	PAYCHEX, INC.		176.87
10/12	1	EFT	2020SC	Invoice: SIP PPE 10.8.16	3,451.03	
			1020SC	CALPERS		3,451.03
10/12	1	EFT	2020SC	Invoice: PPE 10.8.16	7,598.65	
			1020SC	CALPERS		7,598.65
10/12	1	EFT	2020SC	Invoice: PEPRA PPE 10.8.16	870.64	
			1020SC	CALPERS		870.64
10/8/16	EFT	PAYROLL TAXES	2024AC	EMPLOYEE LIABILITIES - 10.8.16	10,920.66	
			6012AC	EMPLOYER LIABILITIES - 10.8.16	1,663.79	
			1020SC	PAYROLL TAXES		12,584.45
10/14	1	EFT	2020SC	Invoice: 2016101201	205.60	
			1020SC	PAYCHEX, INC.		205.60
10/28	1	EFT	2020SC	Invoice: 2016102301	205.80	
			1020SC	PAYCHEX, INC.		205.80
10/28	1	EFT	2020SC	Invoice: PEPRA PPE 10.22.16	870.64	
			1020SC	CALPERS		870.64
10/22	1	EFT	2020SC	Invoice: PPE 10.22.16	7,598.65	
			1020SC	CALPERS		7,598.65
10/22	1	EFT	2020SC	Invoice: SIP PPE 10.22.116	3,151.03	
			1020SC	CALPERS		3,151.03
10/22	1	EFT	2024AC	EMPLOYEE LIABILITIES - 10.22.16	10,780.48	
			6012AC	EMPLOYER LIABILITIES - 10.22.16	1,652.98	
			1020SC	PAYROLL TAXES		12,433.46
10/25	1	FLOREN	6360AC	ACWA EVENT	25.00	
			1020SC	BANK OF THE WEST		25.00
10/25	1	FOWLE	6181SC	NEW LINE PRODUCTS-PVC LOW TEMP LINE, HOSE BUILD	615.78	
			6181SC	RAIN FOR RENT-GASKET, COUPLER	115.06	
			6230SC	DIYPEST CONTROL - INSECTICIDE	270.59	
			6181SC	E REPLACEMENT PARTS-FLANGE, GASKET	21.19	
			6199SC	PAYPAL DUTCHWARE - 25 FT AMSTEEL	21.73	
			6230SC	KIMZEY WELDING WORKS - LINE REPAIR	21.00	
			6105N	76 STATION - DIESEL	75.00	
			1020SC	BANK OF THE WEST		1,140.35
10/25	1	JONES S	6199SC	MARTINS METAL - ROUND STOCK	22.63	

SOLANO COUNTY WATER AGENCY

Cash Disbursements Journal

For the Period From Oct 1, 2016 to Oct 31, 2016

Filter Criteria includes: Report order is by Check Number. Report is printed in Detail Format.

Date	Check #	Name	Account I	Line Description	Debit Amount	Credit Amount
			6230SC	STOCK		
			6230SC	BERRYESSA SPORTING	95.87	
			6230SC	GOODS - PROPANE		
			6230SC	STAPLES - SUPPLIES	134.48	
			6230SC	RAMOS ENVIRONMENTAL	84.75	
			6199SC	WORK WORLD - THUNDER	27.14	
			6300AC	BAY		
			6300AC	5 STAR CAR WASH	14.99	
			6230SC	BERRYESSA SPORTING	46.18	
			1020SC	GOODS - PROPANE		
			1020SC	BANK OF THE WEST		426.04
10/25/1	LEE SEP	BANK OF THE WEST	6410AC	MICROSOFT STORE -	229.99	
			6410AC	SOFTWARE		
			6410AC	PARALLELS - DESKTOP FOR	49.99	
			6330AC	MAC PRO		
			6330AC	E ST PLAZA PARKING -	2.75	
			6040AC	LPCCC MEETING		
			6040AC	CHIPOTLE	18.77	
			6410AC	ADOBE	49.99	
			1020SC	BANK OF THE WEST		351.49
10/25/1	MAROV	BANK OF THE WEST	6199SC	THE UPS STORE - NOTARY	50.00	
			2126SC	SERVICE		
			2126SC	CVS - ACCIDENTAL CHARGE	13.01	
			6183SC	DAVIS HOME TRENDS	15.71	
			6183SC	DOLLAR TREE	9.77	
			6183SC	DAVIS HOME TRENDS	86.79	
			6183SC	PACIFIC ACE	38.68	
			6183SC	AMAZON	8.24	
			6199SC	BEST BUY	145.62	
			6199SC	BEST BUY	7.53	
			6199SC	LOWES	3.20	
			6183SC	GREENHOUSE MEGA STORE	146.72	
			6199SC	NUGGET MARKET	10.84	
			6040AC	PUTAH CREEK CAFE	76.37	
			1020SC	BANK OF THE WEST		612.48
10/25/1	PATE SE	BANK OF THE WEST	6330AC	CITY OF SAC PARKING	16.50	
			6330AC	CITY OF SAC PARKING	9.00	
			6330AC	BEST WESTERN	109.45	
			1020SC	BANK OF THE WEST		134.95
10/25/1	SANFOR	BANK OF THE WEST	6330AC	CITY OF SAC PARKING	15.00	
			6040AC	PAESANOS - MEETING WITH	36.48	
			6330AC	DAVE OKITA		
			6330AC	CITY OF SAC PARKING	6.00	
			6330AC	CITY OF SAC PARKING	9.00	
			6040AC	PUTAH CREEK CAFE -	33.48	
			1020SC	MEETING WITH HERB		
			1020SC	WIEMER		
			1020SC	BANK OF THE WEST		99.96
10/25/1	SNYDER	BANK OF THE WEST	6310AC	QUICKSTOP - FUEL	28.24	
			6300AC	VACAVILLE AUTO PARTS -	49.39	
			6300AC	OIL, OIL FILTER		
			6300AC	HOME DEPOT - KEY/KEY	7.23	
			6300AC	TAGS		
			6300AC	VACAVILLE AUTO PARTS -	81.38	
			1020SC	OIL, OIL FILTER		
			1020SC	BANK OF THE WEST		166.24
10/25/1	WILLIN	BANK OF THE WEST	6040AC	NAPOLI PIZZA	61.92	
			6040AC	BROADWAY BAKERY	10.79	
			6360AC	THE GOOD THE BAD AND	75.00	
			6181SC	UGLY SEMINAR		
			6181SC	PAYPAL - FUEL TANK FOR	269.00	
			6360AC	SPRAY TRUCK		
			6360AC	JOINT POWERS - HR	20.00	
			6090AC	MEETING		
			6090AC	CAL OF CHAMBER	449.00	
			1020SC	MEMBERSHIP		
			1020SC	BANK OF THE WEST		885.71
Total					1,452,201.84	1,452,201.84

**ACTION OF
SOLANO COUNTY WATER AGENCY**

DATE: November 10, 2016

SUBJECT: Purchase of 2013 Ford F-750 (5-yard) Dump Truck

RECOMMENDATION:

Approve purchase of 2013 Ford F-750 (5-yard) Dump Truck.

FINANCIAL IMPACT:

2013 Ford F-750 Dump Truck cost with estimated tax: \$60,000 (Vehicle Cost = \$55,541). Sufficient funding is included in the Board adopted FY 2016-2017 Solano Project budget.

BACKGROUND:

In March-2016 the Water Agency completed construction of a \$2.1 million upgrade to the Putah Diversion Dam, which is part of the Solano Project. As part of the upgrade, an automated screen cleaning system was installed to remove aquatic vegetation entering the Putah South Canal from Lake Solano. During the following irrigation season, SCWA and Solano Project Operations staff evaluated several vehicle options for storing and hauling-off the vegetation. In the end, a Ford F-750 (5-yard) Dump Truck was rented from Blue Line Rental and found to be one of the most efficient vehicles, for turning, storing and hauling-off the aquatic vegetation. Blue Line Rental informed Solano Project staff that they will be looking to sell the vehicle and can provide a significant rental credit.

Recommended: 
Roland Sanford, General Manager

☒ Continued on Next Page

☐ Approved as
recommended

☐ Other
(see below)

Modification to Recommendation and/or other actions:

I, Roland Sanford, General Manager and Secretary to the Solano County Water Agency, do hereby certify that the foregoing action was regularly introduced, passed, and adopted by said Board of Directors at a regular meeting thereof held on November 10, 2016 by the following vote.

Ayes:

Noes:

Abstain:

Absent:

Roland Sanford
General Manager & Secretary to the
Solano County Water Agency

Agenda Item No. 5C

For purchases over \$10,000, the Agency procurement policy recommends quotes from at least two vendors if possible. The policy also allows some discretion to not accept the lowest priced quotation. Staff obtained online quotes from various used vehicle dealers, which are provided below. The Blue Line Rental is bolded and included in the table as well. Based on both cost and mileage, the Blue Line Rental Dump Truck is the best choice. Additionally, SID's maintenance staff and mechanic have inspected the Blue Line Rental vehicle and inspection logs, and find the vehicle to be in good condition. Staff recommends the purchase of the Blue Line Ford F-750 (5-yard) Dump Truck.

Comparison of Ford F-750 Dump Trucks

Model	Year	Engine / Bed Type	Mileage	Price
F-750	2013	6.7L Diesel / Landscape Dump	22,113	\$55,999
F-750	2015	6.7L Diesel / Landscape Dump	2,177	\$74,560
F-750	2013	6.7L Diesel / Landscape Dump	12,324	\$55,541

SOLANO COUNTY WATER AGENCY



MEMORANDUM

TO: Board of Directors

FROM: Roland Sanford, General Manager

DATE: November 4, 2016

SUBJECT: November 2016 General Manager's Report

2006 Bay-Delta Plan

The State Water Resources Control Board (SWRCB) is responsible for the administration of water rights and protection of water quality. Among the SWRCB's specific responsibilities is the preparation and adoption of Water Quality Control Plans. Much of work pertaining to the development and adoption of Water Quality Control Plans is delegated to the nine Regional Water Quality Control Boards that collectively encompass the State. However, in instances of statewide significance, such as the San Francisco Bay/Sacramento-San Joaquin River Delta Estuary (Bay-Delta), the SWRCB assumes the lead role with respect to plan preparation and adoption.

In May 1995 the SWRCB adopted the 1995 Bay-Delta Plan, which addresses water diversions in the Bay-Delta from a water quality planning perspective (stream flows required to maintain specific water quality conditions). The 1995 Bay-Delta Plan was subsequently revised in 2006 (2006 Bay-Delta Plan) and within the last few years the SWRCB has begun what is anticipated to be a very long and contentious update of the 2006 Bay-Delta Plan.

The basic premise - and primary source of contention - behind the ongoing Bay-Delta Plan update is that Delta inflow/outflow must be increased over current levels to protect and restore the Bay-Delta ecosystem, and that this additional inflow/outflow should ultimately be obtained by curtailing water diversions within the San Joaquin/Sacramento drainage - including possibly, those from the Solano Project and the North Bay Aqueduct. We are in the early stages of what I suspect will be at least a 10-year process and at the moment there are more good questions than good answers. However, what is certain, even at this early stage of the process, is that the Bay-Delta Plan update has the potential to significantly alter the "water supply landscape" in Solano County and therefore, I foresee considerable staff and consultant time being directed toward this issue over the next 10 years.





Fact Sheet

Bay Delta Planning Efforts

Overview

The San Francisco Bay/Sacramento-San Joaquin Delta Estuary (Bay-Delta) includes the Sacramento-San Joaquin Delta, Suisun Marsh, and San Francisco Bay. California's two major rivers, the Sacramento and the San Joaquin, converge in the Delta and meet incoming seawater from the Pacific Ocean in San Francisco Bay. Water diversions from the Delta supply a portion of the drinking water to over two thirds of Californians and for millions of acres of farmland.

The State Water Resources Control Board (State Water Board) holds dual responsibilities of allocating surface water rights and protecting water quality. The State Water Board allocates water through an administrative system that is intended to maximize the beneficial uses of water while protecting the public trust, serving the public interest, and preventing the waste and unreasonable use or method of diversion of water. State water quality law requires the adoption of Water Quality Control Plans that identify existing and potential beneficial uses of waters of the state and establish water quality objectives to protect these uses. The plans also contain implementation, surveillance and monitoring elements. While most water quality control planning is done by the Regional Water Boards, the State Water Board has authority to adopt statewide Water Quality Control Plans and adopts the Bay-Delta Plan because of its importance as a major source of water supply for the state. The Bay-Delta Plan protects water quality in the region and includes water quality objectives to protect municipal and industrial, agricultural, and fish and wildlife beneficial uses.

The State Water Board's Bay-Delta Program facilitates the development and review of plans and policies to protect beneficial uses of the water in the San Francisco Bay/Sacramento-San Joaquin Delta Estuary (Bay-Delta) pursuant to the California Water Code and federal Clean Water Act. The Bay-Delta Program also facilitates water right activities related to the Bay-Delta, including implementation of the Bay-Delta Water Quality Control Plan through water right requirements. The Bay-Delta Program resides in the Division of Water Rights because of the critical importance of flow objectives in the Water Quality Control Plan for the San Francisco Bay/Sacramento-San Joaquin Delta Estuary (Bay-Delta Plan). The Bay-Delta Program also oversees implementation of the State Water Board's and Central Valley and San Francisco Bay Regional Water Quality Control Boards' (Water Boards) 2008 Strategic Workplan for Activities in the Bay-Delta. This workplan identifies a broad, integrated list of water right and water quality activities and is available at:

http://www.waterboards.ca.gov/waterrights/water_issues/programs/bay_delta/strategic_plan/docs/baydelta_workplan_final.pdf



Recent Efforts

Numerous scientific documents have identified fishery declines and the ecological crisis in the Delta. Addressing the ecological crisis in the Delta is essential. In 2009, the State Water Board issued a Notice of Preparation under the California Environmental Quality Act to begin the process of updating the Bay-Delta Plan, including evaluating potential amendments to Delta flow and other water quality objectives. In 2009, the Legislature also enacted the Sacramento-San Joaquin Delta Reform Act, which required the State Water Board to develop flow criteria for the Delta ecosystem. The 2009 legislation also specified that no construction of Bay Delta Conservation Plan (BDCP) facilities is allowed until the State Water Board approves necessary changes in the point of diversion for the State Water Project and the Central Valley Project and that any change in the point of diversion shall include appropriate Delta flow criteria. In addition, the Delta Stewardship Council has recommended that the State Water Board adopt and implement flow objectives for the Delta by June 2014.

In 2010, pursuant to the 2009 Delta Reform Act, the State Water Board prepared a report titled "Development of Flow Criteria for the Sacramento-San Joaquin Delta Ecosystem". This report presents a technical assessment of flow and operational requirements to provide fishery protection under existing conditions. The report did not consider competing uses for water such as hydropower, recreational, municipal and industrial, and agricultural supply. Restoration and protection of the Delta ecosystem will also depend on many factors, including actions to improve habitat, reduce salmon predation, minimize entrainment of fish at pumping facilities, prevent pollution, and increase river flows. The competing uses of water are other factors are being considered in the State Water Board's current planning efforts.

Current Efforts

The State Water Board is now in the midst of a four-phased process of developing and implementing updates to the Bay-Delta Plan and flow objectives for priority tributaries to the Delta to protect beneficial uses in the Bay-Delta watershed. Phase 1 of this work involves updating San Joaquin River flow and southern Delta water quality requirements included in the Bay-Delta Plan. Phase 2 involves other comprehensive changes to the Bay-Delta Plan to protect beneficial uses not addressed in Phase 1. Phase 3 involves changes to water rights and other measures to implement changes to the Bay-Delta Plan from Phases 1 and 2. Phase 4 involves developing and implementing flow objectives for priority Delta tributaries outside of the Bay-Delta Plan updates.

Phase 1

On December 31, 2012, The State Water Board released for public review and comment, a draft Substitute Environmental Document (SED) in support of potential changes to San Joaquin River flow and southern Delta water quality objectives and a program of implementation to be included in the Bay-Delta Plan. The proposal is intended to balance the use of water for fishery protection against the competing uses for water such as municipal supply, agriculture and hydropower. After receipt of comments received both written and in testimonial form during a two day March 2013 workshop, the State Water Board will make any needed changes to the SED and prepare written responses to comments along with a final

draft SED and final draft changes to the Bay-Delta Plan for consideration by the State Water Board later this year. More information on the proposal is available at:

http://www.waterboards.ca.gov/waterrights/water_issues/programs/bay_delta/bay_delta_plan/water_quality_control_planning/2012_sed/

Phase 2

Phase 2 will focus on the following issues: (1) Delta outflow objectives, (2) export/inflow objectives, (3) Delta Cross Channel Gate closure objectives, (4) Suisun Marsh objectives; (5) potential new reverse flow objectives for Old and Middle Rivers; (6) potential new floodplain habitat flow objectives; (7) potential changes to the monitoring and special studies program, and (8) other potential changes to the program of implementation. The State Water Board will also consider other potential changes to the Bay-Delta Plan during this phase, including issues identified through the scoping process, and information that is produced as part of the BDCP. The State Water Board held six days of workshops September through November 2012 to receive information on Ecosystem Changes and the Low Salinity Zone, Bay-Delta Fishery Resources, and Analytical Tools for Evaluating Water Supply, Hydrodynamic and Hydropower Effects. An informational item will be scheduled for an upcoming Board meeting to determine next steps on how this information should be used in the Board's planning process. More information is available at:

http://www.waterboards.ca.gov/waterrights/water_issues/programs/bay_delta/comp_review.shtml

Phase 3

Phase 3 will include implementation of changes to the Bay-Delta Plan through water rights and other measures. This phase has not commenced.

Phase 4

The State Water Board is developing flow objectives, with regulatory effect, to protect the public trust resources and other beneficial uses of water, such as agriculture, municipal, and hydropower uses. Flow objectives will be tailored to each tributary to address the unique hydraulic/geomorphic characteristics, public trust resource considerations, and beneficial uses of water. The State Water Board intends to develop flow objectives and associated implementation plans for six to nine Sacramento-San Joaquin Delta priority tributaries by June 2018. State Water Board staff is consulting with the fisheries resource agencies in the selection of the Sacramento-San Joaquin Delta priority tributaries. The State Water Board is interested in collaboration with stakeholders to implement flow objectives. There will be a variety of opportunities to provide information as part of the Phase 4 flow objective setting process. More information on this effort is available at:

http://www.waterboards.ca.gov/waterrights/water_issues/programs/bay_delta/flow_objectives/index.shtml#instream

**ACTION OF
SOLANO COUNTY WATER AGENCY**

DATE: November 10, 2016

SUBJECT: SCWA 2015 Urban Water Management Plan

RECOMMENDATIONS:

Hold public hearing and approve the 2015 Solano County Water Agency Urban Water Management Plan.

FINANCIAL IMPACT:

None. The Plan was completed by SCWA staff. The Plan does not require any new programs for SCWA.

BACKGROUND:

State law requires that urban water suppliers prepare Urban Water Management Plans (UWMPs) every five years. The Solano County Water Agency (SCWA) is a wholesale water agency that provides untreated water to cities and agricultural districts in Solano County from the Federal Solano Project and the North Bay Aqueduct. Of the State Water Project. SCWA is not an urban water supplier, as defined by the water code and is not required to submit an UWMP. However, the Agency views the UWMP as a valuable planning tool and for that reason has completed an update to its UWMP. The draft SCWA Plan has been reviewed by the cities and comments received have been incorporated into the plan. The UWMP Act directs water agencies in carrying out their long-term resource planning responsibilities to ensure adequate water supplies are available to meet existing and future demands under varying environmental and climatic conditions. The UWMPs are mostly directed toward retail agencies. Therefore, not all of the requirements, such as setting water use targets and tracking progress toward decreasing daily per capita urban water use, are applicable to a wholesale water agency such as SCWA. This Plan does address all issues that pertain to wholesale water suppliers.

Recommended: _____


Roland Sanford, General Manager

☐

Approved as
recommended

☐

Other
(see below)

☐

Continued on
next page

Modification to Recommendation and/or other actions:

I, Roland Sanford, General Manager and Secretary to the Solano County Water Agency, do hereby certify that the foregoing action was regularly introduced, passed, and adopted by said Board of Directors at a regular meeting thereof held on November 10, 2016 by the following vote.

Ayes:

Noes:

Abstain:

Absent:

Roland Sanford
General Manager & Secretary to the
Solano County Water Agency

Nov.2016.It.8

SOLANO COUNTY WATER AGENCY

2015 Solano County Water Agency URBAN WATER MANAGEMENT PLAN August 2016



(page intentionally left blank)

CHAPTER 1 –INTRODUCTION.....	4
CHAPTER 2 – PLAN PREPARATION.....	4
CHAPTER 3 – SYSTEM DESCRIPTION	6
Service Area Information with 20 Year Projections	7
Climatic Information.	8
Solano County ETo	8
Average Rainfall.....	9
Average Temperatures.....	10
CHAPTER 4 – SYSTEM WATER USE	10
Water Use by Customer Type	10
CHAPTER 5 – BASELINE AND TARGETS	13
CHAPTER 6 – SYSTEM SUPPLIES	13
Water Sources.....	13
SCWA Water Supply Projections	15
Transfer and Exchange Opportunities	16
Development of Desalinated Water.....	16
Recycled Water Plan	16
Wastewater Quantity, Quality and Current Uses	17
Potential and Projected Use, Optimization Plan with Incentives	17
Future Water Supply Projects and Programs.....	17
CHAPTER 7 – WATER SUPPLY RELIABILITY AND WATER SHORTAGE CONTINGENCY PLANNING.....	18
Projected Normal Water Year Supply and Demand.....	18
State Water Project Supply.....	18
North of Delta Allocation.....	18
2014 SWP Water Supply Allocation	20
Solano Project Supply	23
WATER SHORTAGE CONTINGENCY PLAN	26
Stages of Action	26
Estimate of Minimum Supply For Next Three Years	27
Catastrophic Supply Interruption Plan	27
Solano Project.....	27
State Water Project	28
Prohibitions, Penalties and Consumption Reduction Methods	28
Analysis of Revenue Impacts of Reduced Sales During Shortages	28
Solano Project.....	28
State Water Project	28
Draft Ordinance and Use Monitoring Procedure.....	29
Solano Project.....	29
State Water Project	29
WATER QUALITY IMPACTS ON RELIABILITY	29
State Water Project	29
Solano Project.....	30
CHAPTER 9: DEMAND MANAGEMENT MEASURES	31
Wholesale agency programs.....	31

CHAPTER 1 –INTRODUCTION

The Solano County Water Agency (SCWA) is a wholesale water agency that provides untreated water to cities and agricultural districts in Solano County from the Federal Solano Project and the North Bay Aqueduct of the State Water Project. SCWA is not an urban water supplier as defined by the Water Code and is not required to submit an Urban Water Management Plan (UWMP) but is doing so on a voluntary basis. The Agency views the UWMP as a valuable planning tool and continues to update it to keep the Plan current and relevant.

Retail agencies within Solano County that are required to submit an UWMP will do so individually. Other documents related to the UWMP are the Solano Agencies' Integrated Regional Water Management Plan (February 2005) and the SCWA Water Management Plan (September 2014), the latter prepared to meet the requirements of our federal water supply from the Solano Project. The SCWA Water Management Plan was prepared in conformance with guidelines prepared by the United States Bureau of Reclamation (USBR).

CHAPTER 2 – PLAN PREPARATION

In preparing the UWMP, SCWA coordinated with appropriate agencies. Table 1 lists those agencies.

Table 1. Coordination with Appropriate Agencies

Coordinating Agencies	Participated in UWMP Development	Commented on the Draft Report	Attended Public Meetings	Contacted for Assistance	Sent Copy of the Draft Report	Sent Notice of Intention to Adopt	Not Involved/No Information
City of Vallejo			X		X	X	
City of Fairfield		X	X		X	X	
City of Suisun City			X		X	X	
City of Benicia			X		X	X	
City of Vacaville			X		X	X	
City of Rio Vista			X		X	X	
California Water Service Company					X	X	
City of Dixon			X		X	X	
Solano County			X		X	X	
Solano Irrigation District			X		X	X	
Suisun Solano Water Authority			X		X	X	
Dixon Solano Municipal Water Service			X		X	X	

Additionally, SCWA participates in San Francisco Bay Area regional water management discussions and participated in the development of a Bay Area Integrated Regional Water Management Plan (IRWMP). The Agency is also a member of the Sacramento Valley Westside IRWMP.

Extensive discussions were held with SCWA member agencies on the water supply assumptions for the State Water Projects Supply and Solano Project Supply.

SCWA uses a wide variety of water management tools and options to maximize resources and minimize the need to import water. As previously mentioned, SCWA has completed an Integrated Regional Water Management Plan, a USBR Water Management Plan and is participating in both the Bay Area Integrated Water Management Plan as well as the Sacramento Valley Westside IRWMP.

SCWA and its member agencies have comprehensive urban and agricultural water conservation programs. Water exchanges and transfers are documented in the Solano Agencies' Integrated Regional Water Management Plan. These exchanges and transfers within Solano County maximize local resources and minimize the need for additional new imported water supplies. However, longer term projections show there may be a need for additional imported water supplies.

An e-mail notification that SCWA was reviewing and considering amendments or changes to its Urban Water Management Plan was sent on xxxx to all entities that are provided water from the Agency.

Exhibit 1 is a copy of the action of the Board of Directors of the Solano County Water Agency adopting the UWMP

Any questions or comments regarding the Solano County Water Agency UWMP should be directed to:

Andrew Florendo
Water Conservation Coordinator
810 Vaca Valley Parkway, Ste. 203
Vacaville, CA 95688
aflorendo@scwa2.com

CHAPTER 3 – SYSTEM DESCRIPTION

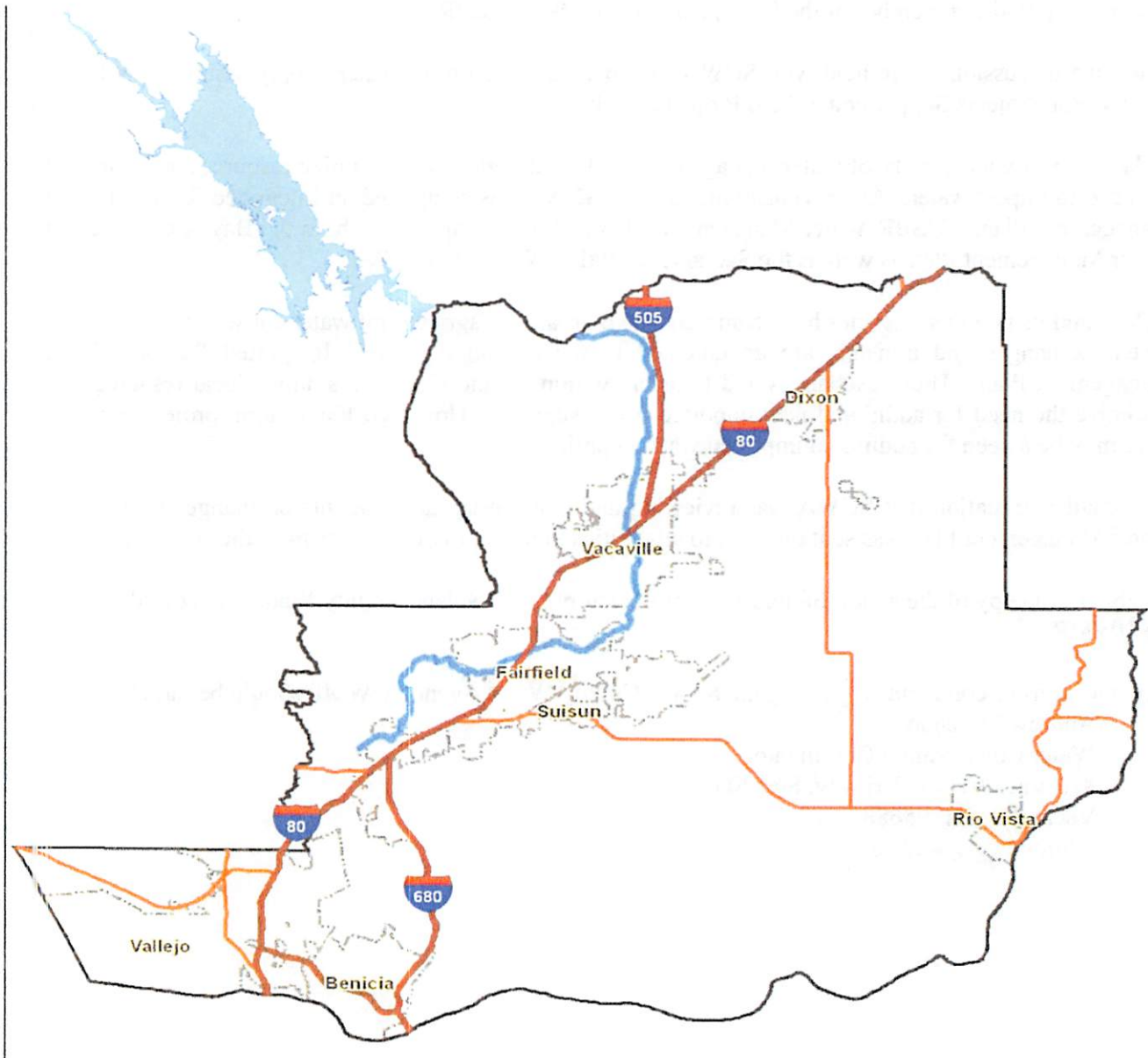


Figure 1. Solano County showing the seven incorporated cities.

According to the U.S. Census Bureau, Solano County has a land area of 829 square miles and water area of 78 square miles. San Francisco Bay, Suisun Bay, the Carquinez Straits and the Sacramento River provide the county with natural borders to the south and west. The county also contains the Suisun Marsh, which is the largest contiguous brackish water wetland in the western United States and is a protected habitat.

The boundaries of Solano County were set on February 18, 1850 by the first elected legislature of the territory of California, making Solano County one of the original 27 counties. There are seven cities in the

county as well as a major military installation – Travis Air Force Base. Two of the county's seven cities, Benicia and Vallejo, served as the State's Capital in the early 1850s.

In 1984 the voters of the county passed the Urban Growth Initiative, Measure A, which limits most urban growth to incorporated cities. Subsequent elections extended the mandates from the original Urban Growth Initiative to the present. As a result 95% of Solano County residents live within the county's seven cities compared to a statewide average of 83%. Additionally, the cities of Vallejo and Benicia have limited geographical area to expand and growth in these areas is expected to be small. The other cities, Fairfield, Vacaville, Suisun City, Dixon and Rio Vista are expected to continue to see increases in population in the future as there is suitable land available for urban growth.

Rich agricultural land lies in the northern part of the county while rolling hills are part of the southern area. Approximately 131,000 acres is comprised of irrigated crop land. In 2013, Solano County ranked 27th out of 58 counties in gross value of agricultural production. The county ranked first among California counties in triticale production and second in wheat and seed production. And third in Sudan grass hay, sheep and lambs and fourth in the production of sunflowers. Agricultural water use is expected to remain constant as there are some new areas coming under irrigation, but there is an off-setting amount of agricultural land being replaced by urban growth.

There are other demographic features affecting water management such as housing density, future commercial and industrial development, or projected income levels. The UWMP's for the cities contain more detail on growth projections and factors that are impacting urban growth.

Service Area Information with 20 Year Projections

Table 2 and Figure 2 shows current and projected population for the SCWA service area which includes all of Solano County. These data are Solano County projections provided by the California Department of Finance.

Table 2. Population – Current and Projected

Source: California Department of Finance. Total Population Projections for California and counties. July 1, 2015 to 2060 in five year increments.

	2015	2020	2025	2030	2035
SCWA Service Area Population	429,400	454,800	477,500	501,500	526,500

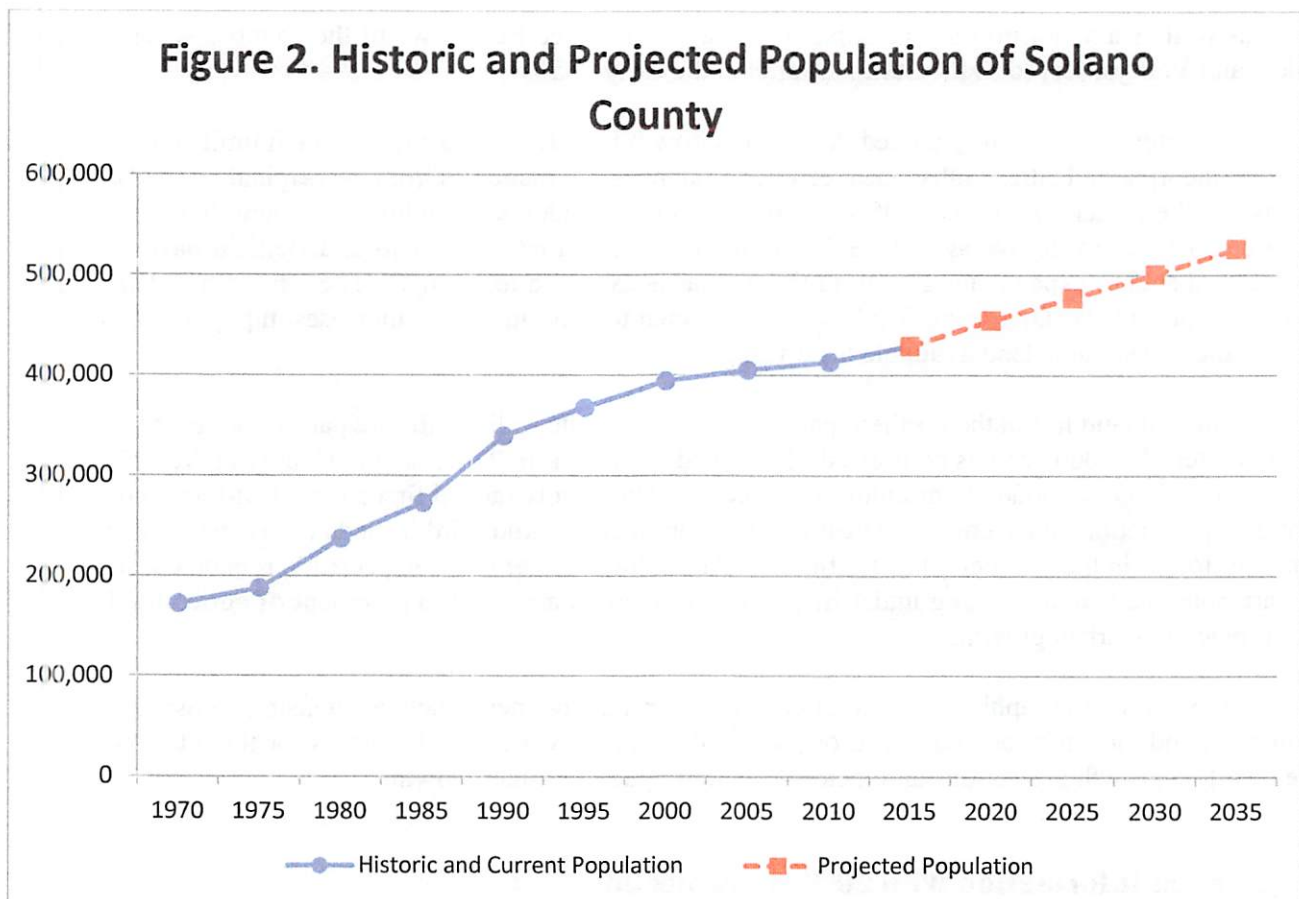


Figure 2. Solano County Population – Historic and Projected

Climatic Information.

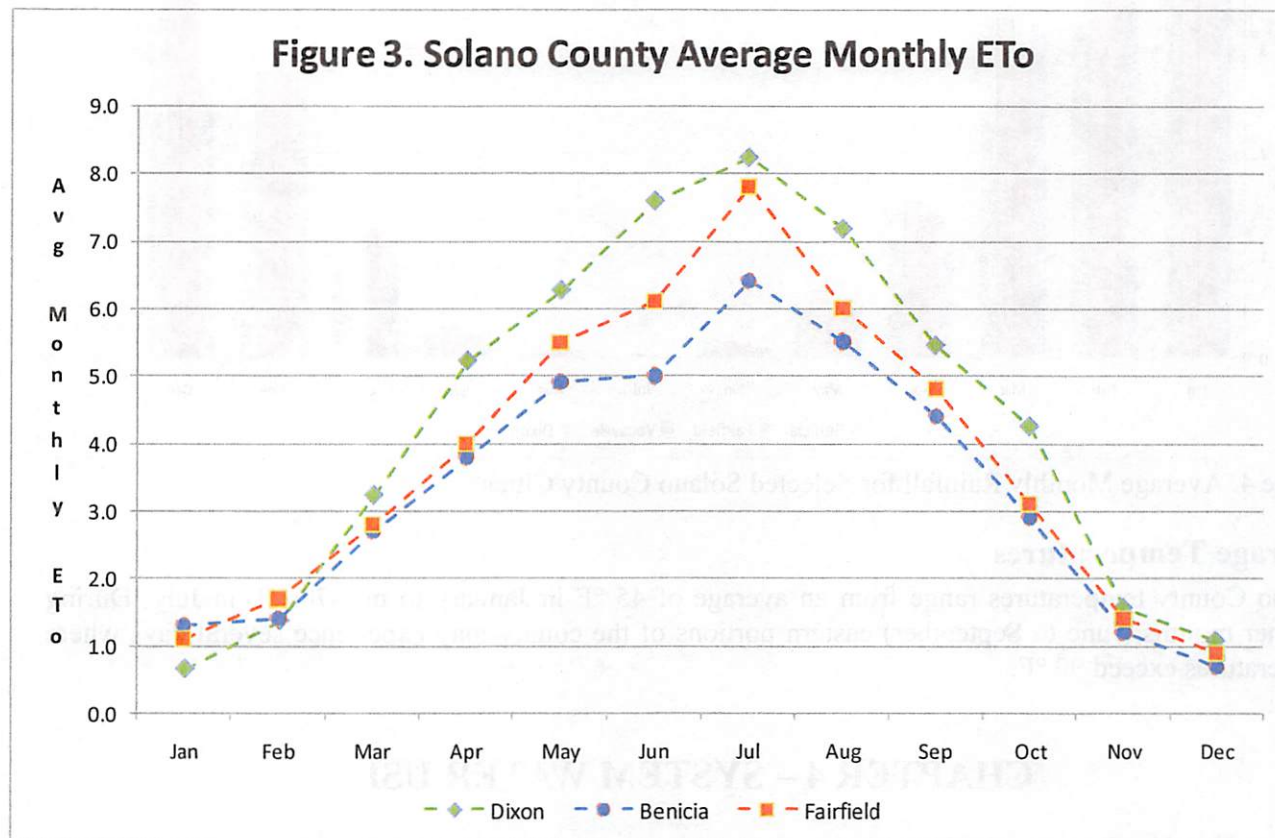
Solano County climate varies spatially depending mainly on the effects of topography on rainfall distribution. The eastern parts of the County (Sacramento Valley/Sacramento and Suisun Bay watersheds) are classified as having a Mediterranean/hot summer climate while the western portions (Napa River/San Pablo Bay watersheds) are characterized by a Mediterranean/cool summer climate.

Solano County ETo

Solano County lies within two hydrologic regions with the western part of the county in the San Francisco Bay Region and the eastern portion in the Sacramento River Region. Since Solano County is part of two hydrologic regions it is not feasible to list an “average” reference evaporation (ETo) for the entire county. The eastern portion of the county has similar climatic conditions to the Sacramento Valley and is characterized by mild winters and hot summers with periods of above 90 °F days. In contrast, the southern and western sections have more in common with the San Francisco Bay Area. The two cities in south county, Benicia and Vallejo, have inland coastal maritime climates typified by cool, wet winters with significant periods of fog and warm, dry summers with frequent cooling sea breezes. Fairfield, due to its

location near the dividing line between the San Francisco Bay Region and the Sacramento River Region, has average climatic conditions that lie between the two.

This is borne out by an examination of annual ETo data (Figure 3). Dixon, located in eastern Solano County has an annual ETo of 52.1, comparable to Sacramento at 51.9. In southwest Solano County, Benicia has an annual ETo of 40.3 which is similar to the Oakland foothill's annual ETo of 39.6. Fairfield's annual ETo of 45.2 is halfway between that of Dixon and Benicia.



Average Rainfall

The average annual precipitation in the eastern lowland areas of Solano County is *typically* between 15 and 25 inches, with higher rainfall amounts reaching 25 to 40 inches in the western hills. Average rainfall for selected Solano County cities is shown in Figure 4. Obviously, the five years from 2011 – 2015 have not been typical when compared to past years. The question remains if this weather pattern would become the norm.

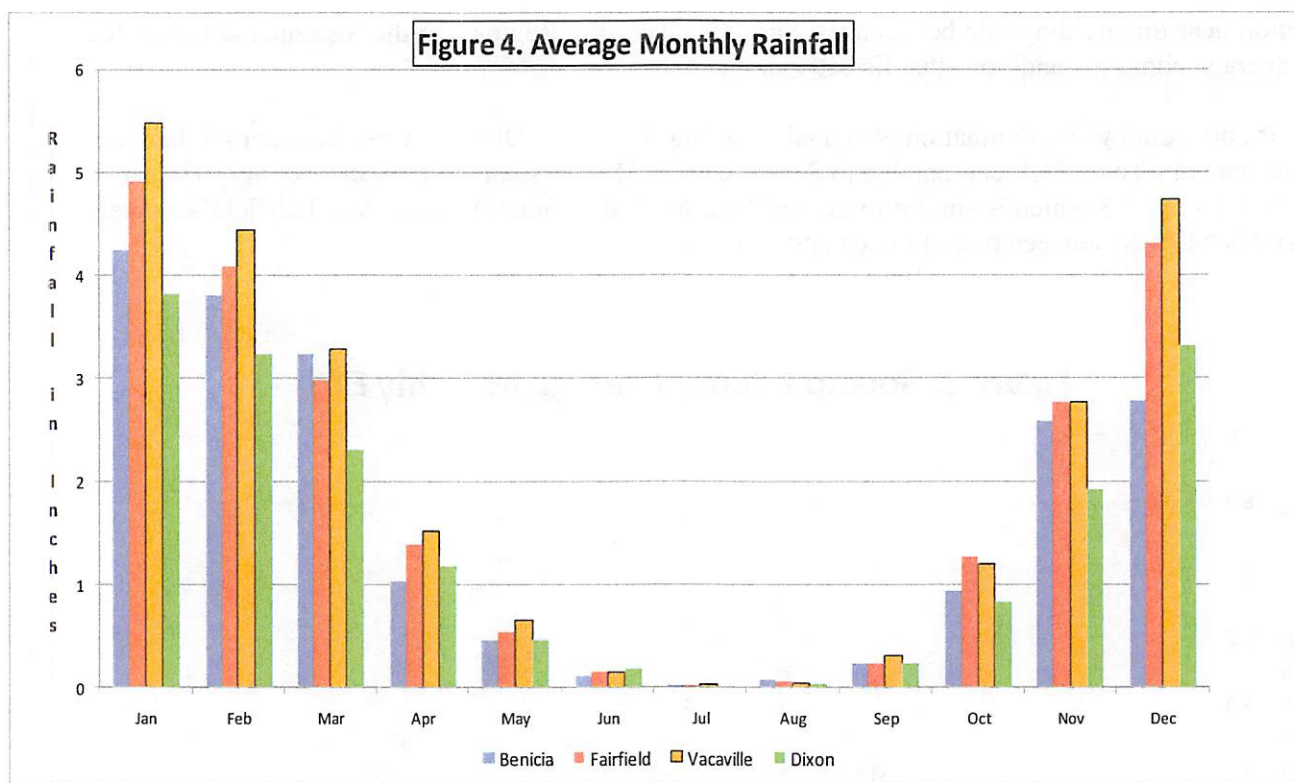


Figure 4. Average Monthly Rainfall for Selected Solano County Cities

Average Temperatures

Solano County temperatures range from an average of 45 °F in January to mid-70s °F in July. During summer months (June to September) eastern portions of the county may experience several days where temperatures exceed 90 °F.

CHAPTER 4 – SYSTEM WATER USE

Water Use by Customer Type

SCWA has three categories of customers: cities, agricultural districts and institutions.

SCWA has a contract with DWR for water supply from the SWP. In turn, SCWA has contracts with Solano cities for provision of this water supply. The NBA contracting cities are: Benicia, Vacaville, Fairfield, Vallejo, Suisun City, Rio Vista and Dixon. The city of Suisun City has an allocation of NBA water but has no facilities to take NBA water at this time. The cities of Rio Vista and Dixon have the right to obtain a specified amount of NBA water in the future, but have no facilities to take NBA water at this time.

SCWA has water contracts to deliver Solano Project water to the cities of Fairfield, Suisun City, Vacaville, and Vallejo. SCWA also has contracts with two agriculture water customers, the Solano Irrigation District and Maine Prairie Water District.

The institutions served by SCWA are the University of California at Davis (UCD) and the California State Prison – Solano (CSP-Solano). UCD receives an allocation of Solano Project Water which is used for agriculture on university property. Most of the water delivered to CSP-Solano, approximately 85%, is used mostly within the facility and the remaining 15% is used for agricultural purposes on some surrounding land.

Solano County Water Agency is strictly a wholesaler of untreated water. The Water Agency does not own or maintain any meters. By agreement all functions relating to meters and leak detection is the responsibility of our member units.

Table 4 shows past, current and projected water deliveries in five year increments from year 2010 to 2035. Years 2010 and 2015 are based upon actual deliveries. Note that since SCWA is a wholesale supplier, member unit cities have other supplies that they can use to meet their future demands. Those will be shown in each of their individual UWMP's.

All SCWA water supplies are metered.

There are no water sales to any entities other than those listed in Table 4.

(remainder of page intentionally left blank)

Table 4. Past, Current and Projected Water Deliveries – All SCWA Supplies are Metered
Units are in acre-feet.

		Year	2010 (a)	2015 (a)	2020	2025	2030	2035
Name of Agency	Water Source							
Benicia	Solano Project		1,994	2,768				
	SWP		8,231	6,538	13,815	13,815	13,815	13,815
	Total :		10,225	9,306	13,815	13,815	13,815	13,815
Cal State Prison - Solano								
	Solano Project		815	737	1,191	1,191	1,191	1,191
Fairfield	Solano Project		13,203	12,980	9,132	9,132	9,132	9,132
	SWP		7,993	5,701	11,789	11,789	11,789	11,789
	Total :		21,196	18,681	20,921	20,921	20,921	20,921
Maine Prairie Water District								
	Solano Project		10,318	16,172	14,890	14,890	14,890	14,890
Suisun City	Solano Project		4,041	2,981	1,588	1,588	1,588	1,588
	SWP				1,044	1,044	1,044	1,044
	Total :		4,041	2,981	2,632	2,632	2,632	2,632
Solano Irrigation District								
	Solano Project		114,031	130,575	139,963	139,963	139,963	139,963
University of California - Davis								
	Solano Project		1,145	1,397	3,971	3,971	3,971	3,971
Vacaville	Solano Project		3,971	6,400	5,708	5,708	5,708	5,708
	SWP		7,575	1,872	7,211	7,211	7,211	7,211
	Total :		11,546	8,272	12,919	12,919	12,919	12,919
Vallejo	Solano Project		14,672	8,184	14,493	14,493	14,493	14,493
	SWP		7,087	9,725	4,498	4,498	4,498	4,498
	Total :		21,759	17,909	18,991	18,991	18,991	18,991
TOTAL :			195,076	206,030	228,249	228,249	228,249	228,249

(a) Actual deliveries

CHAPTER 5 – BASELINE AND TARGETS

SCWA fully supports the existing and planned efforts of its member agencies to comply with the provisions of SBx 7-7. SCWA has and will continue to provide financial and technical assistance to Solano County cities and irrigation districts to implement programs for both urban and agricultural water conservation. Funding for water use efficiency programs are an integral part of the water agency's operating budget.

The Water Agency has taken the lead role in the coordination and implementation of regional water use efficiency measures for both residential and commercial accounts in Solano County. This is an ever evolving role designed to adapt to both political and environmental conditions. SCWA has been an active member of the California Urban Water Conservation Council (CUWCC) since the organization was founded in 1991.

Since 2007, SCWA has worked with its member agencies and implemented regional programs that offer financial incentives to Solano County residents to install High-Efficiency Toilets (HETs), High-Efficiency Washing Machines (HEWs), and to replace high water use turf with climate appropriate, sustainable, water-efficient landscaping. The Water Agency and its member units have also implemented a "Water Savings Incentive Program" designed to encourage Commercial, Institutional, and Industrial (CII) customers to install water saving devices.

In 2015, SCWA conducted an assessment of the effectiveness of its residential water conservation programs. The objective of this study was to assist SCWA in gaining a greater understanding of single-family residential water use throughout the SCWA service area, evaluate the effectiveness of SCWA's water conservation programs, and identify remaining water conservation potential in the SFR sector. A copy of the executive summary is included as Appendix ____.

In 2016, SCWA will implement two new programs on a pilot scale basis. The first is a program aimed at bringing water efficient devices to senior and low-income households that would otherwise be unable to install them.

The other water conservation program is called "Free Sprinkler Nozzles". SCWA will partner with Western Municipal Water District to offer free high-efficiency sprinkler nozzles to Solano County homeowners and businesses. The objective of this program is to reduce outdoor water use among Water Agency customers by improving the efficiency of customer irrigation systems.

CHAPTER 6 – SYSTEM SUPPLIES

Water Sources

SCWA serves as a water wholesaler for the Solano Project and the State Water Project (SWP). The Solano Project is a federal project with the Bureau of Reclamation (USBR) that stores water in Lake Berryessa for delivery to users throughout the region. Local agencies and USBR first conceived the project in the 1940s

and 1950s to meet the increasing water demands of agriculture, municipalities, and military facilities in Solano County. The Solano Project first delivered water in 1959. The major facilities are:

- Monticello Dam, which captures water from Putah Creek in Lake Berryessa;
- Putah Diversion Dam, which diverts water out of Lower Putah Creek just downstream of Monticello Dam; and
- Putah South Canal, which delivers water to local agencies. The Putah South Canal is 33 miles long, concrete lined and has a maximum capacity of 956 cubic feet per second.

SCWA has contracts to deliver Solano Project water for municipal and agricultural uses to Fairfield, Suisun City, Vacaville, Vallejo, Solano Irrigation District, Maine Prairie Water District, University of California at Davis, and California State Prison – Solano.

The SWP has rights to water originating from the Sacramento and San Joaquin Rivers, and it stores water in Lake Oroville (on the Feather River). The SWP provides water to SCWA through the North Bay Aqueduct (NBA).

SCWA has a long-term water master water supply contract with DWR for water supply from the State Water Project that currently expires in 2035 but is renewable. SCWA is a North of Delta SWP Contractor and receives SWP water via the North Bay Aqueduct (NBA). The NBA is a 27-mile long pipeline that delivers untreated municipal water from Barker Slough in the Sacramento-San Joaquin delta to Napa and Solano Counties. The NBA is owned and operated by DWR to deliver wholesale water supply for Municipal and Industrial uses from the Barker Slough Pumping Plant in the Sacramento-San Joaquin Delta to Napa and Solano Counties. SCWA's contract with DWR includes a maximum Table A amount of 47,756 acre-feet per year (AFY). Supplemental SWP water, "Advanced Table A" (ATA), under specific conditions, is available to SCWA from year to year. Additional supplemental water, Settlement Water, is also available under specific conditions.

SCWA has a contract with DWR for water supply from the SWP. In turn, SCWA has contracts with Solano cities for provision of this water supply. The NBA contracting cities are Benicia, Vacaville, Fairfield, Vallejo, Suisun City, Rio Vista, and Dixon. The city of Suisun City has an allocation of NBA water but has no facilities to take NBA water at this time. The cities of Rio Vista and Dixon have the right to obtain a specified amount of NBA water in the future, but have no facilities to take NBA water at this time. SCWA has contracted for an ultimate allocation of 47,756 acre-feet of water per year from the SWP.

Table 5 shows the two water supply sources for SCWA: the USBR Solano Project and the California Department of Water Resources (DWR) SWP. The contracted water supply (plus operational losses) for the Solano Project total 207,350 acre feet per year. This roughly matches USBR's calculation of "firm yield". Firm yield is the calculated amount of water supply available during the driest hydrologic period of record for the project. The table shows contract amounts and does not reflect potential deficiencies in supplies due to drought and other conditions.

SCWA does not provide groundwater supplies nor does it provide any other water supplies beyond the two wholesale sources. See each individual city's UWMP for details about other supplies used in Solano County.

Table 5. Current and Planned Water Supplies – AF/Y

Water Supply Sources	2015	2020	2025	2030	2035
Wholesale water providers					
USBR Solano Project	207,350	207,350	207,350	207,350	207,350
DWR State Water Project	47,756	47,756	47,756	47,756	47,756
Supplier produced groundwater					
Supplier surface diversions					
Transfers in or out					
Exchanges in or out					
Recycled water (current and projected use)					
Desalination					
Other					

SCWA Water Supply Projections

SCWA has provided information to our retailing agencies about the availability and reliability of our wholesale supplies - the State Water Project and Solano Project. Table 6 shows SCWA water supply availability of its two main water sources.

Table 6. Existing Water Supply Sources in Normal Water Years					
	2015	2020	2025	2030	2035
State Water Project (a)	34,869	34,869	34,869	34,869	34,869
Reliability	73%	73%	73%	73%	73%
North of Delta Allocation	3,487	3,487	3,487	3,487	3,487
Reliability	10%	10%	10%	10%	10%
Solano Project	205,825	205,825	205,825	205,825	205,825
Reliability	99%	99%	99%	99%	99%

(a) North of Delta Allocation as an additional percentage of SCWA's Table A Allocation, estimated based on actual amounts received since the implementation of the North of Delta Settlement in 2014. Because of the limited historical data, this estimate is preliminary and will be adjusted for subsequent UWMP updates as additional data becomes available.

Transfer and Exchange Opportunities

SCWA, as a wholesaler, does not conduct exchanges or transfers on its own. SCWA does facilitate and assist cities and districts in transfers and exchanges.

A thorough discussion of current transfers and exchanges is included in the Appendix A of the 2005 Solano Agencies' Integrated Regional Water Management Plan.

SCWA had an agreement with Mojave Water Agency to exchange wet weather SWP water for dry year SWP water. According to the agreement, SCWA (or its member units) can exchange two units of SWP water for a future return of one unit of SWP water to be provided at the Delta by Mojave. That agreement with Mojave was terminated in 2007.

Development of Desalinated Water

There are potential opportunities for development of desalinated water in Solano County including waters from the San Francisco Bay and treated wastewater. Some wastewater in Solano County has a high salt content which makes recycling difficult. One of SCWA's member units, the City of Vacaville, is considering a desalination process as part of a wastewater recycling project.

Currently there are no planned desalination projects in Solano County. They could be pursued if grant funding becomes available or other actions are taken to improve the economics of such projects. The Agency does not have any quantification about the potential volume of desalinated water available from these types of projects.

Recycled Water Plan

Solano County Water Agency does not collect, treat, produce or distribute recycled water and has no involvement in wastewater treatment or water recycling. Recycled water treatment and distribution is managed by the cities and wastewater special districts within the county. For details of wastewater collection and treatment systems, quantities treated, excess recycled water capacity not currently being distributed to non-potable customers, and type, place, and quantity of use, refer to the individual cities UWMP's.

Recognizing that recycled water can be an important component of the county's complete and balanced water supply program, SCWA has incorporated its use by the cities into the 2005 Solano Agencies' Integrated Regional Water Management Plan. However, the Solano Agencies have decided that any discussion regarding specific details on recycled water use should be conducted in the cities' individual UWMPs.

SCWA is committed to continually supporting the search for safe, economically feasible and publicly acceptable methods to increase local water resources by maximizing the use of recycled water. The Agency will continue to work cooperatively with the cities towards that end.

Wastewater Quantity, Quality and Current Uses

Currently, within Solano County, the city of Fairfield has the most active wastewater recycling program. Wastewater in that city is treated at a facility operated by the Fairfield-Suisun Sewer District (FSSD). The facility has been treating wastewater to a tertiary level since the 1970's. In 2002, Fairfield entered into an agreement with FSSD and the Solano Irrigation District that will provide Fairfield with a potential of up to 12 million gallons per day of effluent for a recycled water supply. The FSSD presently provides a limited amount of recycled water to sites near the FSSD facility for irrigation and industrial purposes. Distribution facilities would need to be constructed to serve additional non-potable sites.

The City of Vacaville owns and operates the Easterly Wastewater Treatment Plant, a tertiary treatment and blending elimination facility with a dry weather flow capacity of 15 MGD. Currently, treated effluent is discharged into Alamo Creek which flows into Cache Slough. A portion is used for irrigation by the Solano Irrigation District and the Maine Prairie Water District. Vacaville also offers treated effluent free of charge to construction firms for dust control and other construction activities outside of city limits.

The cities of Benicia and Vallejo discharge treated wastewater into the Carquinez Strait. For additional details of cities' wastewater collection and treatment systems, quantities treated, excess recycled water capacity not currently being distributed to non-potable customers, and type, place, and quantity of use, refer to the individual cities UWMPs.

Potential and Projected Use, Optimization Plan with Incentives

Within SCWA's service area a number of potential uses for recycled water have been identified, including increased landscape and agricultural irrigation, fire protection, industrial use (cooling towers at the Valero refinery), construction, wetlands and wildlife habitat, and other miscellaneous uses. Some of these are already in existence or, like the Valero refinery cooling towers, are in the planning stage. Other uses have not been implemented because the capital infrastructure, for example, treatment facilities and distribution systems, have not been built to accommodate such use. See individual city UWMP's for additional and more detailed information.

Future Water Supply Projects and Programs

The February 2005 Solano Agencies' Integrated Regional Water Management Plan (IRWMP) identifies numerous water supply projects and programs to be considered for implementation. The direction in the IRWMP is to look at groundwater conjunctive use as a potential way of addressing dry year shortages. None of these conjunctive use projects have been developed enough to be classified as a "planned water supply project".

Water supply projections that SCWA provided to each retail water supplier are shown as Appendix A and B.

Table 7 shows additional water uses and losses. The only category currently applicable to SCWA is "Unaccounted for System Losses" that are the losses associated with the Putah South Canal delivery of Solano Project water.

Table 7. Additional Water Uses and Losses – AF/Year

Water Use	2015	2020	2025	2030	2035
Saline barriers					
Groundwater recharge					
Conjunctive use					
Raw Water					
Recycled					
Other (define)					
Unaccounted for system losses	15,000	15,000	15,000	15,000	15,000
Total	15,000	15,000	15,000	15,000	15,000

CHAPTER 7 – WATER SUPPLY RELIABILITY AND WATER SHORTAGE CONTINGENCY PLANNING

Projected Normal Water Year Supply and Demand

This section presents a separate analysis of the SWP and Solano Project water supplies. Separate analysis is necessary because member agencies of SCWA do not all have both water supplies, so they will need a separate analysis in order to prepare their UWMP's.

State Water Project Supply

The amount of water that is allocated and delivered by the SWP to each contractor during a year under SWP contract is determined annually by DWR. Table A Amounts determine the maximum amount of water a contractor may request in any year from DWR. SWP allocations are based on CALSIM modeling runs that take into consideration SWP storage in Oroville and San Luis, "South of Delta" (SOD) Contractor demand, hydrology and operational and regulatory constraints. The allocation is typically reported as a percentage of Maximum Table A Amounts and is finalized by May 1 of the current year.

North of Delta Allocation

As a result of the North of Delta Settlement (December 31, 2013), DWR issues a separate SWP Annual allocation for SCWA, Napa, and Yuba City ("the North of Delta (NOD) Contractors"), defined as the NOD Allocation. The NOD Allocation cannot exceed the Annual Table A Amounts. The NOD Allocation amounts to an additional increment of annual allocation above the current SWP Allocation. The other SOD contractors will continue to receive an allocation based on the original formula, now defined as South of Delta (SOD) Allocation.

The concept of the NOD is to not penalize the NBA for conveyance restriction exclusive to the SOD pumping plants. Currently, DWR's D1641 CALSIM model run is used as a surrogate for determining the NOD Allocation. All regulatory requirements under D1641 are met before allocations are met, so all contractors share in the responsibility to meet those regulatory requirements. D1641 was what the SWP operated to prior to the new ESA regulations, the 2008 and 2009 Biological Opinions. The Old-Middle River restrictions (OMR) part of the ESA regulations greatly impact the SOD pumping plant, but do not impact NOD diversions. However, the NOD allocation does provide of a share of any additional ESA outflow requirements, such as Fall X2, and Delta water quality requirements. If Delta regulations change, the NOD Allocation may be affected commensurately.

Analysis performed by DWR estimated that SCWA could receive an additional 11 TAF approximately 50% of the years compared to existing Table A deliveries.¹ The actual differential varies each year being less in drier years. Since the implementation of the NOD Allocation in 2014, SCWA has received an additional increment of: 0% (2014), 5% (2015), and 15% (2016 as of April 1).

The extremely dry sequence from the beginning of January 2013 through the end of 2014 was one of the driest two-year periods in the historical record. Water year 2013 was a year with two hydrologic extremes.² October through December 2012 was one of the wettest fall periods on record, but was followed by the driest consecutive 12 months on record. Accordingly, the 2013 State Water Project (SWP) supply allocation was a low 35% of SWP Table A Amounts. The 2013 hydrology ended up being even drier than DWR's conservative hydrologic forecast, so the SWP began 2014 with reservoir storage lower than targeted levels and less stored water available for 2014 supplies. Compounding this low storage situation, 2014 also was an extremely dry year, with runoff for water year 2014 the fourth driest on record. Due to extraordinarily dry conditions in 2013 and 2014, the 2014 SWP water supply allocation was a historically low 5% of Table A Amounts. The dry hydrologic conditions that led to the low 2014 SWP water supply allocation were extremely unusual, and to date have not been included in the SWP delivery estimates presented in DWR's 2015 Delivery Capability Report.³ It is anticipated that the hydrologic record used in the DWR model will be extended to include the period through 2014 during the next update of the model, which is expected to be completed prior to issuance of the next update to the biennial SWP Delivery Capability Report. For the reasons stated above, the SCWA UWMP uses a conservative assumption that a 5% allocation of SWP Table A Amounts represents the "worst case" scenario.

Note that the SWP also makes available Article 21 water that is offered to SWP contractors under specified conditions when the Delta is in excess conditions and there is pumping capacity available. SCWA receives its water from the North Bay Aqueduct (NBA). Current DWR policy is that Article 21 water is available for the NBA whenever the Delta is in Excess conditions. This makes Article 21 water available to NBA users more frequently than SWP contractors relying upon the Banks Pumping Plant (South Delta SWP export facility) capacity. For the purposes of this UWMP, Article 21 deliveries are not included although they can be a significant additional supply most years.

¹ California Department of Water Resources State Water Project Analysis Office, *Initial Study/Proposed Negative Declaration State Water Project Supply Allocation Settlement Agreement*. Prepared by AECOM. July 2013.

² A water year begins in October and runs through September. For example, water year 2013 is October 2012 through September 2013.

³ SWP delivery estimates from DWR's 2015 SWP Delivery Capability Report are from computer model studies which use 82 years of historical hydrologic inflows from 1922 through 2003.

There are numerous factors that affect the reliability of SWP supplies. The amount of the SWP water supply delivered to the state water contractors in a given year depends on the demand for the supply, amount of rainfall, snowpack, runoff, water in storage, pumping capacity from the Delta, and legal constraints on SWP operation. SWP delivery reliability depends on three general factors: 1) the availability of water at the source, 2) the ability to convey water from the source to the desired point of delivery, and 3) the magnitude of demand for the water.

Another factor affecting SWP reliability is climate change. Climate change is expected to modify rainfall and runoff, which in turn will affect SWP operations. Some research suggests that global changes in climate is likely to significantly affect the hydrologic cycle, changing California's precipitation pattern and amount from that shown by the historical record.

SWP operations are closely regulated by Delta water quality standards established by the State Water Resources Control Board (SWRCB) in D-1641. In addition SWP and CVP operations are further constrained by requirements in the U.S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS) biological opinions. Key factors in determining water quality in the western Delta are the quality of important Delta inflows and the intrusion of ocean-derived salts associated with daily tides. The models used to develop the SWP reliability data incorporate these constraints.

SWP supply is not always available at a consistent level due to these environmental and political factors. Plans to replace or supplement the SWP source when there are shortages are the responsibility of SCWA member agencies that contract for SWP supplies. They would typically shift to other supplies such as Solano Project and groundwater (if they have rights to these supplies) or enter into purchase or exchange agreements with other Solano agencies. SCWA would also keep member agencies informed about any SWP collective programs for dry year water purchases, such as a drought water bank. SCWA would also coordinate any joint local efforts to secure short term water supplies under a drought conditions. Increased demand management measures would be the responsibility of the member agencies to implement.

2014 SWP Water Supply Allocation

The extremely dry sequence from the beginning of January 2013 through the end of 2014 was one of the driest two-year periods in the historical record. Water year 2013 was a year with two hydrologic extremes. October through December 2012 was one of the wettest fall periods on record, but was followed by the driest consecutive 12 months on record. Accordingly, the 2013 State Water Project (SWP) supply allocation was a low 35% of SWP Table A Amounts. The 2013 hydrology ended up being even drier than DWR's conservative hydrologic forecast, so the SWP began 2014 with reservoir storage lower than targeted levels and less stored water available for 2014 supplies. Compounding this low storage situation, 2014 also was an extremely dry year, with runoff for water year 2014 the fourth driest on record. Due to extraordinarily dry conditions in 2013 and 2014, the 2014 SWP water supply allocation was a historically low 5% of Table A Amounts. The dry hydrologic conditions that led to the low 2014 SWP water supply allocation were extremely unusual, and to date have not been included in the SWP delivery estimates presented in DWR's 2015 Delivery Capability Report. It is anticipated that the hydrologic record used in the DWR model will be extended to include the period through 2014 during the next update of the model, which is expected to be completed prior to issuance of the next update to the biennial SWP Delivery Capability Report. For the

reasons stated above, the SCWA UWMP uses a conservative assumption that a 5% allocation of SWP Table A Amounts represents the “worst case” scenario.

Table 8A shows normal year water supply and demand for SWP supplies. The supply number was calculated by multiplying the percentage of SWP supply for a normal year by SCWA’s SWP contract amount. The SWP supply for a normal year was defined as the average of percentage supplies for all the below normal and above normal years in the Sacramento Valley Index from 1922 through 2003. The supply total includes an adjustment for North of Delta as an additional percentage of SCWA’s Table A Allotment. For Tables 8A-C demand was assumed to be the full SWP contract amounts. For a wholesale agency like SCWA, it is not possible to accurately predict the demand of our cumulative member agencies. Therefore, a simplifying assumption that they would utilize the full amount of their contractual rights was assumed. There is a deficit since the supply was assumed to be a percentage of contract amounts while demand was assumed to be the full contracted amount by each city.

Table 8A. Projected SWP Normal Year Supply and Demand Comparison - AF/Y

	2015	2020	2025	2030	2035
Supply totals	38,356	38,356	38,356	38,356	38,356
Demand totals	23,836	47,756	47,756	47,756	47,756
Difference (supply minus demand)	14,520	-9,400	-9,400	-9,400	-9,400
Difference as % of Supply	38%	-25%	-25%	-25%	-25%
Difference as % of Demand	61%	-20%	-20%	-20%	-20%

Actual 2015 demand

(remainder of page intentionally left blank)

Table 8B shows single dry year supply and demand comparisons. There is a deficit since the supply was assumed to be 22% of contract amounts (based on a repeat of the worst case historic single dry year of 1977) and contract amounts were assumed to be the demand.

Table 8B. Projected SWP Single Dry Year Supply and Demand Comparison - AF/Y

	2015	2020	2025	2030	2035
Supply totals	10,351	10,351	10,351	10,351	10,351
Demand totals	23,836	47,756	47,756	47,756	47,756
Difference (supply minus demand)	-13,485	-37,405	-37,405	-37,405	-37,405
Difference as % of Supply	-130%	-361%	-361%	-361%	-361%
Difference as % of Demand	-57%	-78%	-78%	-78%	-78%

Actual 2015 demand

Multiple dry year water supply and demand for SWP supplies from 2015-2019 is shown in Table 8C. The supply number was calculated by multiplying the percentage of SWP supply for multiple dry years by SCWA's SWP contract amount. The SWP supply for multiple dry years was defined as the average of percentage supplies for all dry and critical years occurring in three or more consecutive years in the Sacramento Valley Index from 1922 through 2003.

For Table 8C demand was assumed to be the full SWP contract amounts. For a wholesale agency like SCWA, it is not possible to accurately predict the demand of our cumulative member agencies. Therefore, a simplifying assumption that they would utilize the full amount of their contractual rights was assumed.

Table 8C. Projected SWP Supply and Demand Comparison During a Multiple Dry Year Period Ending in 2019 - AF/Y

	2015	2016	2017	2018	2019
Supply totals	11,888	11,888	11,888	11,888	11,888
Demand totals	47,756	47,756	47,756	47,756	47,756
Difference (supply minus demand)	-35,868	-35,868	-35,868	-35,868	-35,868
Difference as % of Supply	-302%	-302%	-302%	-302%	-302%
Difference as % of Demand	-75%	-75%	-75%	-75%	-75%

Solano Project Supply

A normal year water supply and demand for Solano Project supplies is depicted in Table 9A. The supply number was calculated by multiplying the percentage of Solano Project supply for a normal year by the Solano Project contract amount. The Solano Project supply for a normal year was defined as the average of percentage supplies for all the below normal and above normal years in the Lake Berryessa Index from 1906 through 2007. The ultimate level of upstream development (for depletions in the upstream watershed) was used for these tables, not the current level of development.

For the Solano Project a similar year type index was developed based upon procedures similar to the Sacramento Valley Index. A current model exists for the Solano Project that uses hydrologic records from 1906 through 2007. Using similar assumptions as the Sacramento Valley 40/30/30 Index, year types were assigned to each of the years in the Solano Project model resulting in a Lake Berryessa Index that identifies wet, normal and dry years. Results from a SCWA funded study regarding Solano Project reliability indicate the single driest year for this water source would be based on the 1934 hydrologic year. The multiple dry year period was from 1990 – 1994.

For Table 9A demand was assumed to be the full Solano Project contract amounts. For a wholesale agency like SCWA, it is not possible to accurately predict the demand of our cumulative member agencies. Therefore, a simplifying assumption that they would utilize the full amount of their contractual rights was made. Table 9A shows normal year supply and demand comparisons. There is a deficit since the supply was assumed to be 99% of the Solano Project contract amount and demand was assumed to be the full contract amount.

Table 9A. Projected Solano Project Normal Year Supply and Demand Comparison - AF/Y

	2015 (1)	2020	2025	2030	2035
Supply Totals	182,605	205,825	205,825	205,825	205,825
Demand Totals	182,194	207,350	207,350	207,350	207,350
Difference (supply minus demand)	411	-1,525	-1,525	-1,525	-1,525
Difference as % of Supply	0.2%	-0.7%	-0.7%	-0.7%	-0.7%
Difference as % of Demand	0.2%	-0.7%	-0.7%	-0.7%	-0.7%

(1) 2015 Actual Deliveries

The allocation process for water supplies from the Solano Project is very different than for the SWP. For the Solano Project, the contract between SCWA and USBR calls for the full contract amount to be delivered to SCWA unless it is physically impossible to deliver the water from Solano Project storage (dead storage is 10,300 AF). Therefore, the full contract water supply, 207,350 acre feet per year, is allocated until there is no water available in the reservoir. All Solano Project contractors, whether they are municipal or agricultural, are on an equal basis for Solano Project water supply.

The Solano Project member agencies (cities and districts that contract with SCWA for Solano Project water supply) have entered into an Agreement “As To Drought Measures and Water Allocation” contract to reduce deliveries based upon storage levels in Lake Berryessa. Once the storage level drops below 800,000 acre feet, as measured on April 1, 95% of contract amounts are delivered with 5% being stored in the reservoir as carryover. If the reservoir drops below 550,000 acre feet by April 1, 90% can be delivered and 10% is stored as carryover. Member agencies have the ability to carryover more than this amount if they desire. Once the reservoir level is below 400,000 acre feet on April 1, the member agencies can use their full allocation and any stored carryover. All the Solano Project cities are parties to this agreement.

The main factor negatively affecting Solano Project reliability is the frequency of long droughts which could result in major drawdowns of Lake Berryessa. Environmental issues have been addressed in a legal settlement regarding downstream flows from the Solano Project and the settlement has been ratified by the State Water Resources Control Board. Limits on upstream depletions have been established through a settlement agreement administered by a court appointed Watermaster.

Table 9B shows a single dry year water supply and demand projection for Solano Project supplies. The supply number was calculated by multiplying the percentage of Solano Project supply for a single dry year by the Solano Project contract amount. The Solano Project supply for a single dry year was defined as the average of percentage supplies for all single dry and critical years below normal and above normal years in the Lake Berryessa Index from 1906 through 2007. Single dry years are defined as those dry and critical years that are not consecutive plus the first dry or critical year of consecutive sequences. The ultimate level of upstream development (for depletions in the upstream watershed) was used for these tables, not the current level of development.

Table 9B. Projected Solano Project Single Dry Year Supply and Demand Comparison – AF/Y

	2015	2020	2025	2030	2035
Supply Totals	204,051	204,051	204,051	204,051	204,051
Demand Totals	207,350	207,350	207,350	207,350	207,350
Difference (supply minus demand)	-3,299	-3,299	-3,299	-3,299	-3,299
Difference as % of Supply	-1.6%	-1.6%	-1.6%	-1.6%	-1.6%
Difference as % of Demand	-1.6%	-1.6%	-1.6%	-1.6%	-1.6%

For Table 9B demand was assumed to be the full Solano Project contract amounts. For a wholesale agency like SCWA, it is not possible to accurately predict the demand of our cumulative member agencies. Therefore, a simplifying assumption that they would utilize the full amount of their contractual rights was assumed. There is a deficit since the supply was assumed to be 98% of the Solano Project contract amount and demand was assumed to be the full contract amount.

Table 9C shows multiple dry years water supply and demand for Solano Project supplies. The supply number was calculated by multiplying the percentage of Solano Project supply for multiple dry years by

the Solano Project contract amount. The Solano Project supply for multiple dry years was defined as the average of percentage supplies for all dry and critical years occurring in three or more consecutive years in the Lake Berryessa Index from 1906 through 2007. The ultimate level of upstream development (for depletions in the upstream watershed) was used for these tables, not the current level of development. See Appendix A for the analysis. The multiple dry years supply is 184,887 AF or 89% of contract amounts.

Table 9C. Projected Solano Project Supply and Demand Comparison During Multiple Dry Year Period Ending in 2019 – AF/Y

	2015	2016	2017	2018	2035
Supply totals	184,887	184,887	184,887	184,887	184,887
Demand totals	207,350	207,350	207,350	207,350	207,350
Difference (supply minus demand)	-22,463	-22,463	-22,463	-22,463	-22,463
Difference as % of Supply	-12.1%	-12.1%	-12.1%	-12.1%	-12.1%
Difference as % of Demand	-10.8%	-10.8%	-10.8%	-10.8%	-10.8%

For Table 9C demand was assumed to be the full Solano Project contract amounts. For a wholesale agency like SCWA, it is not possible to accurately predict the demand of our cumulative member agencies. Therefore, a simplifying assumption that they would utilize the full amount of their contractual rights was assumed. There is a deficit since the supply was assumed to be 89% of contract amounts and contract amounts we assumed to be the demand.

(remainder of page intentionally left blank)

WATER SHORTAGE CONTINGENCY PLAN

Stages of Action

SCWA is strictly a wholesale supplier of water, not a water utility. It is the responsibility of each of the cities within Solano County to deal with water shortages. SCWA provides coordination assistance but is not responsible for making any decisions regarding water shortages. The only exception is that SCWA retains authority to change allocations of SWP supplies water during shortages.

The contract language is as follows: "If at any time there occurs a shortage from any cause in the quantity of project water made available to Agency so that the total quantity made available to Agency is less than the total of all quantities of project water contracted for by this member unit and other member units, Agency shall portion the project water available among all member units in such a manner as Agency shall determine to be equitable. In making such determination, Agency shall consult with all its member units as shall be guided by, but not limited to, consideration of the following factors with respect to each member unit: other supplies of water available to the member unit; the quantities of water normally used by the member unit for domestic, municipal, industrial, commercial, and other purposes, and the relative ability of the member unit to reduce the quantity of water it uses; and impact various reductions of water supply will have on the economy, public health, and welfare."

Although there are frequent shortages in the SWP supply, SCWA has never used its authority to allocate SWP supplies during any shortages. SCWA has delivered supplies in proportion to contract amounts.

A two-stage trigger for contingency actions is shown in Table 10. Stage 1 is if there is a 25% reduction in either SWP and/or Solano Project supplies. During Stage 1 conditions, SCWA will offer to assist member agencies in any internal exchanges or transfers and also assist in securing additional water supplies from outside sources such as drought water banks or joint efforts with other water agencies to obtain supplies in dry years.

Table 10. Water Supply Shortage Stages and Conditions

Stage No.	Water Supply Conditions	% Shortage
1	Reduction in SWP and/or Solano Project	25%
2	Reduction in SWP and/or Solano Project	50%

Stage 2 is invoked if there is a 50% reduction in SWP and/or Solano Project supplies. During Stage 2 conditions SCWA will perform the same functions in Stage 1 and will also state its willingness to consider allocations of shortages in the SWP supply as specified in the member agency agreements.

Estimate of Minimum Supply For Next Three Years

SCWA has two water supply sources: the SWP and the Solano Project. These two projects have different historic dry year sequences. The three worst years for the SWP supply are 1990-1993 (See Appendix B). The three worst years for the Solano Project supply are 1932-1934 (See Appendix A). These are reflected in Table 13. Note that the use of different dry year sequences in Table 11 results in a very conservative depiction of the estimated minimum supply for the next three years as it is unlikely that extreme dry period for both the Solano Project and SWP will coincide, especially since reductions in the Solano Project is based on reservoir levels while reductions in SWP supplies are based on current year hydrologic conditions.

Table 11. Three-Year Estimated Minimum Water Supply – AF/Year worst separate 3 year series

Source	Year 1	Year 2	Year 3	Normal
State Water Project*	20,000	9,800	16,590	38,356
Solano Project	184,887	184,887	184,887	205,825
Total	204,887	194,687	201,467	243,381

***does not include Article 21 Water**

Note that Table 11 does not include Article 21 water that could supplement SWP supplies. As mentioned previously, the NBA contractors have access to Article 21 water on a more frequent basis than those SWP contractors relying upon the SWP Banks pumping plant.

Catastrophic Supply Interruption Plan

The following discusses actions that would take place if there is a catastrophic event on either the SWP or Solano Project supplies.

Solano Project

Earthquake: in the event of an earthquake, the Solano Project Emergency Response Plan is invoked. The Plan, developed in coordination with the USBR, provides a detailed response for various levels of seismic activities both at the dam site and within a specified geographical area surrounding the Solano Project. The response is first an inspection then an assessment of any potential damage. If water deliveries are unavailable from the Solano Project, water users would shift to SWP supplies and/or invoking emergency exchange agreements with other public agencies.

Power Outage: The Solano Project is not dependent upon power to operate. It is a gravity system from Monticello Dam to the end of the Putah South Canal and can be operated manually.

Contamination: Any detection of contamination would result in a shut-down of the Solano Project deliveries. Member agencies would switch to the SWP supply.

Landslide: The Putah South Canal is susceptible to a landslide which could either block or damage the Canal's ability to deliver water. SCWA recently invested in a \$3 million project to provide an underground

pipeline bypass of an area most susceptible to a landslide. However, in an event of a landslide that blocks the Putah South Canal, Solano Project city water users would shift to a SWP supply. The SWP supply would not be available to agricultural water users.

State Water Project

Earthquake: Should an earthquake result in a disruption of SWP supplies through the NBA, the member agencies would switch to Solano Project Water supplies. All the NBA water users have access to Solano Project supplies in such an emergency.

Power Outage: The NBA relies upon PG&E to provide power to pump water through the NBA. Any power outage of any duration would result in the NBA not being able to provide its water supply except for the amount of water in storage in the pipeline, that is very limited. The NBA water users would shift to Solano Project supplies in this scenario.

Contamination: Should there be a contamination at the intake to the NBA, the NBA would be shut-down and the member agencies would use Solano Project water until the contamination is resolved.

Landslide: The NBA is an underground pipeline and therefore would not be subject to any landslide risks.

Prohibitions, Penalties and Consumption Reduction Methods

SCWA is purely a water wholesaler and does not implement any of the actions contemplated in this subsection. SCWA is contractually committed to provide the available water supply from the SWP and the Solano Project to its member agencies regardless of hydrologic conditions (with the exception of having the authority to allocate NBA water supplies in a manner different than contractual amounts during a water shortage). SCWA does not have the ability to take measures to provide incentives or disincentives for water use from SCWA.

Analysis of Revenue Impacts of Reduced Sales During Shortages

Solano Project

SCWA has paid off the capital debt to USBR for the Solano Project. As a result the Agency is not charged by Reclamation for the Solano Project water supply. Therefore, SCWA does not charge Solano Project member agencies for Solano Project water supply. There would be no net impact to SCWA revenues during a water shortage.

State Water Project

The contract between SCWA and its SWP member agencies require full payment of water supply costs regardless of shortages. Therefore, there would be no financial impact to SCWA from shortages.

Draft Ordinance and Use Monitoring Procedure

Solano Project

The Solano Project contract with member agencies requires the full amount allocated by the USBR be provided to the member agencies. The contract between SCWA and the USBR requires allocation of the full amount of contract amounts unless that water is physically unable to be delivered from the Solano Project.

The Solano Project Members Agreement As To Drought Measures and Water Allocation provides for a reduction in the use of Solano Project water when reservoir levels are between 800,000 acre feet of storage (approximately half full) and 450,000 acre feet of storage. The Agreement requires a reduction of five to ten percent of Solano Project use during this storage level. The five to ten percent not utilized is stored in the reservoir as carryover to be made available when the storage is above 800,000 acre feet or below 450,000 acre feet.

State Water Project

SCWA does have the ability to allocate SWP water to member agencies during a shortage but has not invoked this provision to date. SCWA has determined that it will consider invoking this provision at the request of a member agency on a case by case basis. No predetermined shortage allocations have been determined.

WATER QUALITY IMPACTS ON RELIABILITY

State Water Project

SWP water from the NBA is of lesser quality than the Solano Project. The NBA has historically been plagued with a variety of water quality issues. Throughout the winter and early spring months the NBA experiences very high concentrations of Dissolved Organic Carbon and high turbidity. Additionally, during local storm events the NBA water quality can change dramatically over the course of a few hours, and remain poor for weeks to months at a time. More recently, the NBA has encountered Taste & Odor issues from blue-green algae during the winter months, further impacting water quality.

SCWA has implemented land use Best Management Practices (BMPs) in the local watershed to reduce organic carbon and turbidity loading. Wells, additional irrigation piping and fencing have been installed to protect the upper watershed and control livestock.

The Agency has recently completed a feasibility study to determine if an alternate intake for the NBA can be constructed. An alternate intake would provide higher reliability water by virtue of being in a location that is less susceptible to impacts caused by local runoff. It would also draw water from an area that is not a spawning area for rare or endangered fish species. The study results indicated that the project is feasible, but at a cost of \$315 - \$436 million, depending on the location chosen for the intake.

Solano Project

Solano Project water quality is excellent for both agricultural and urban uses. During large storms there is a short period (a few days) when water is very turbid, and Solano Project diversions from Lake Solano are temporarily halted. This conditions occurs during low demand periods.

(remainder of page intentionally left blank)

CHAPTER 9: DEMAND MANAGEMENT MEASURES

SCWA views water conservation/demand management as a critical element of any water resources strategy developed for Solano County. As indicated earlier in the Plan, in 1991 the Agency became one of the first signatories to the Memorandum of Understanding Regarding Urban Water Conservation In California (MOU) and became a member of the CUWCC. SCWA has been an active member of the CUWCC since for 20 years and hosted a Plenary and has served as Chair of the CUWCC Residential Committee. Copies of SCWA's BMP reports are included as Appendix ____.

DWR requires wholesale urban water suppliers to address water demand management measures for metering, public education and outreach, water conservation program coordination, and other demand management measures that have a significant impact on water use, measured in GPCD.

Wholesale agency programs

SCWA, as a wholesaler, provides financial and technical support as well as program management to its member agencies. Financially, SCWA will pay 75% of the cost for a water conservation program and the cities will divide the remaining 25%. Additionally, to the extent possible, SCWA as a wholesale water agency provides reports on BMP implementation within the service area by retail water agencies that are not signatories to the MOU.

SCWA has implemented several regional conservation programs. Many programs would not be cost effective for only one city to implement but the costs become less if factored in on a county-wide basis. Currently there are regional water conservation programs directed at both residential and commercial accounts. SCWA offers rebates to homeowners for High-Efficiency Washer (HEW) installations. SCWA partners with PG&E and other Bay Area water agencies to implement a regional High-Efficiency Washing Machine (HEW) rebate program that covers all of Solano County. This program offers a total rebate of \$150 for the installation of the most energy and water-efficient clothes washers.

SCWA administers a program to replace high-water use toilets in multi-family and commercial accounts with High-Efficiency Toilets (HETs). The end use of water for toilet flushing is approximately 25 percent of indoor household usage. There are also many older toilets in the commercial, industrial and institutional sectors. There remains a significant amount of older high-water-use toilets that, when replaced with HETs reduce water usage by approximately 60 percent.

A pilot turf replacement program that offered financial incentives to homeowners to replace turf with water-efficient landscaping was implemented during 2010. It became a full scale program the following year and has grown in scale every year since. There is also a rebate program to encourage the installation of "smart" irrigation controllers (controllers that automatically adjust to changing weather conditions).

The Water Agency also manages a county-wide water conservation program directed to Commercial Industrial and Institutional (CII) accounts. SCWA began implementation in January 2007. Water audits to find leaks or water wasting practices, are offered at no cost to CII customers. Additionally SCWA offers commercial accounts the "Water Savings Incentive Program" in which SCWA will reimburse a business or other CII account as much as 50% of the costs for installing water efficient devices. Eligible accounts also have the option of replacing older, high-water use toilets with HETs. The CII water conservation program

is regional and extends throughout Solano County. This is a joint venture between SCWA and its member units.

Additionally, SCWA implements a regional residential water survey program in conjunction with its member units. Since each city would have to implement a water survey program, it was decided that conducting a regional county-wide program would be more cost-effective. This program covers the entire county and is aimed at assisting homeowners to achieve water savings and lower water bills.

In 2009, SCWA began the Residential Water Assistance Program to assist residents in identifying indoor and outdoor leaks that contribute to inefficient water use. The Residential Water Assistance Program includes both an indoor and an outdoor component. The indoor portion examines possible sources of leaks; teaches the customer how to read the meter and calculate water use; and offers suggestions to improve water efficiency. The outdoor landscape survey includes a check of the irrigation system and timers for maintenance and repairs needed; estimate or measure landscaped area; develop customer irrigation schedule based on precipitation rate, local climate, irrigation system performance, and landscape conditions; review the scheduling with customer; provide information packet to customer; and provide customer with evaluation results and water savings recommendations.

This program is patterned on the successful residential water survey program implemented by the City of Fairfield, which has conducted over 3,000 residential water surveys. Additionally, City of Fairfield provides training and office space for staff involved in this program. This is a regional program that SCWA administers in coordination with its member units. The Agency and its member units also cost share on this program.

SCWA maintains a website, <http://solanosaveswater.org> to provide water conservation information and news. The Water Agency is also active on social media and has a Facebook page, Twitter account with over 650 followers, and a Youtube channel.

SCWA funds a number of school water education programs. Among them is WaterWays, an outdoor education program for upper elementary school students designed to build understanding, appreciation, and stewardship of a local waterway by exploring the diverse uses of the water and how these uses may be protected.

The Agency also funds two non-traditional school assembly programs, ZunZun and Rock Steady Juggling. ZunZun is a performing arts group that uses music to teach students about water and environmental stewardship. Rock Steady Juggling also uses performing arts to teach students the value of water. Both methods use a fun approach to keep students engaged and more receptive to receiving the message about water.

Appendix A Solano Project Reliability

Ultimate level of development-of Lake Berryessa watershed @ 30,000 AF/yr - 2009 Study

Lake Berryessa Index

Value	Year Type
W	Wet
N	Below Normal
N	Above Normal
D	Dry
D	Critically Dry

Year	Index Value	% Full Alloc	% Full Alloc for Normal Year (N)	% Full Alloc for Single Dry Year (D) *	% Full Alloc for Multiple Dry Years (3 or more Dry years)
1906	W	100%			
1907	W	100%			
1908	D	100%		100%	
1909	W	100%			
1910	N	100%	100%		
1911	W	100%			
1912	D	100%		100%	
1913	D	100%			
1914	W	100%			
1915	W	100%			
1916	W	100%			
1917	N	100%	100%		
1918	D	100%		100%	
1919	N	100%	100%		
1920	D	100%		100%	
1921	N	100%	100%		
1922	N	100%	100%		
1923	N	100%	100%		
1924	D	95%		95%	
1925	N	95%	95%		
1926	N	95%	95%		
1927	W	95%			
1928	N	100%	100%		
1929	D	95%		95%	
1930	N	95%	95%		
1931	D	100%		100%	100%
1932	D	100%			100%
1933	D	45%			45%
1934	D	45%			45%
1935	N	100%	100%		
1936	N	100%	100%		
1937	N	100%	100%		
1938	W	100%			
1939	D	95%		95%	

1940	W	100%			
1941	W	100%			
1942	W	100%			
1943	N	100%	100%		
1944	D	100%		100%	
1945	N	100%	100%		
1946	N	100%	100%		
1947	D	100%		100%	100%
1948	D	95%			95%
1949	D	95%			95%
1950	D	95%			95%
1951	N	95%	95%		
1952	W	100%			
1953	N	100%	100%		
1954	N	100%	100%		
1955	D	95%		95%	
1956	W	100%			
1957	D	100%		100%	
1958	W	100%			
1959	D	100%		100%	
1960	N	100%	100%		
1961	D	100%		100%	
1962	N	100%	100%		
1963	W	100%			
1964	D	100%		100%	
1965	W	100%			
1966	N	100%	100%		
1967	W	100%			
1968	N	100%	100%		
1969	W	100%			
1970	W	100%			
1971	N	100%	100%		
1972	D	100%		100%	
1973	W	100%			
1974	W	100%			
1975	N	100%	100%		
1976	D	100%		100%	
1977	D	100%			
1978	W	100%			
1979	N	100%	100%		
1980	W	100%			
1981	D	100%		100%	
1982	W	100%			
1983	W	100%			
1984	N	100%	100%		
1985	D	100%		100%	
1986	W	100%			
1987	D	100%		100%	100%
1988	D	100%			100%
1989	D	100%			100%
1990	D	95%			95%

1991	N	95%	95%		
1992	D	90%		90%	
1993	W	95%			
1994	D	95%		95%	
1995	W	100%			
1996	W	100%			
1997	W	100%			
1998	W	100%			
1999	N	100%	100%		
2000	N	100%	100%		
2001	D	100%		100%	
2002	N	100%	100%		
2003	N	100%	100%		
2003	W	100%			
2004	N	100%	100%		
2005	N	100%	100%		
2006	W	100%			
2007		100%			
Average		98%	99%	98%	89%

*Includes first year of consecutive dry years

Appendix B State Water Project Reliability

DIVR Study 2009 data - SCWA Specific

Sacramento Valley Index

Value	Year Type
W	Wet
N	Below Normal
N	Above Normal
D	Dry
D	Critically Dry

Year	Sacramento Valley Index	% Full Table A	% Full Table A for Normal Year (N)	% Full Table A for Single Dry Year (D) *	% Full Table A for Multiple Dry Year (3 or more Dry years)
1922	N	0.37	0.37		
1923	N	0.84	0.84		
1924	D	0.26		0.26	0.26
1925	D	0.39			0.39
1926	D	0.49			0.49
1927	W	0.46			
1928	N	0.86	0.86		
1929	D	0.31		0.31	0.31
1930	D	0.36			0.36
1931	D	0.22			0.22
1932	D	0.35			0.35
1933	D	0.35			0.35
1934	D	0.24			0.24
1935	N	0.43	0.43		
1936	N	0.71	0.71		
1937	N	0.66	0.66		
1938	W	0.77			
1939	D	0.96		0.96	
1940	N	0.60	0.60		
1941	W	0.59			
1942	W	0.83			
1943	W	0.77			
1944	D	0.75		0.75	
1945	N	0.44	0.44		
1946	N	0.74	0.74		
1947	D	0.74		0.74	
1948	N	0.65	0.65		
1949	D	0.58		0.58	
1950	N	0.50	0.50		
1951	N	0.43	0.43		
1952	W	0.86			
1953	W	0.89			
1954	N	0.69	0.69		

1955	D	0.51		0.51	
1956	W	0.48			
1957	N	0.82	0.82		
1958	W	0.58			
1959	N	0.83	0.83		
1960	D	0.52		0.52	
1961	D	0.49			
1962	N	0.70	0.70		
1963	W	0.46			
1964	D	0.81		0.81	
1965	W	0.54			
1966	N	0.83	0.83		
1967	W	0.55			
1968	N	0.83	0.83		
1969	W	0.66			
1970	W	0.58			
1971	W	0.83			
1972	N	0.58	0.58		
1973	N	0.45	0.45		
1974	W	0.78			
1975	W	0.79			
1976	D	0.81		0.81	
1977	D	0.14			
1978	N	0.45	0.45		
1979	N	0.65	0.65		
1980	N	0.60	0.60		
1981	D	0.84		0.84	
1982	W	0.57			
1983	W	0.64			
1984	W	0.53			
1985	D	0.77		0.77	
1986	W	0.67			
1987	D	0.55		0.55	0.55
1988	D	0.24			0.24
1989	D	0.38			0.38
1990	D	0.42			0.42
1991	D	0.20			0.20
1992	D	0.20			0.20
1993	N	0.43	0.43		
1994	D	0.67		0.67	
1995	W	0.54			
1996	W	0.85			
1997	W	0.75			
1998	W	0.91			
1999	W	0.60			
2000	W	0.86			
2001	D	0.37		0.37	
2002	D	0.42			
2003	N	0.79	0.79		
Average		0.59	0.64	0.63	0.33

*Includes first year of consecutive dry years



CUWCC BMP Wholesale Coverage Report 2014

Foundational Best Management Practices for Urban Water Efficiency

ON TRACK

Exempt

BMP 1.1 Wholesale Agency Assistance Programs

207 Solano County Water Agency

Name: Andrew Florendo Email: aflorendo@scwa2.com

a) Financial Investments and Building Partnerships

BMP Section	Monetary Amount for Financial Incentives	Monetary Amount for Equivalent Resources
BMP 3 Residential	617814	50000
BMP 4 CII	109042	
BMP 5 Landscape	58400	
BMP 2.1 Public Outreach	37448	
BMP 2.2 School Education Program	65875	

b) Technical Support

c) Retail Agency

d) Water Shortage Allocation

Adoption Date: 12/5/2013

File Name: SCWA is contractually obligated to deliver the full amount of contracted water. It is the responsibility of each of the member units to deal with water shortages.

e) Non signatory Reporting of BMP implementation by non-signatory Agencies

Solano County Water Agency does not report for non-signatories.

f) Encourage CUWCC Membership List Efforts to Recruit Retailers

The Water Agency encourages its member units who are not CUWCC members to join CUWCC. The cities of Benicia, Fairfield, and Vacaville are CUWCC members. Vallejo and Suisun City are not CUWCC members but report BMP compliance

0.00

At Least As effective As

No

Exemption

Yes

Legal

Comments:

Solano County Water Agency does not own or read meters. All measurements are taken by the Member Units. Since SCWA does not own, operate, or maintain any meters, we have to rely on our member units to provide water delivery data.



CUWCC BMP Coverage Report 2014

Foundational Best Management Practices For Urban Water Efficiency

ON TRACK

Exempt

BMP 1.2 Water Loss Control

207 Solano County Water Agency

Completed Standard Water Audit Using AWWA Software? No

AWWA File provided to CUWCC? No

AWWA Water Audit Validity Score?

Complete Training in AWWA Audit Method No

Complete Training in Component Analysis Process? No

Component Analysis? No

Repaired all leaks and breaks to the extent cost effective? No

Locate and Repair unreported leaks to the extent cost effective? No

Maintain a record keeping system for the repair of reported leaks, including time of report, leak location, type of leaking pipe segment or fitting, and leak running time from report to repair. No

Provided 7 Types of Water Loss Control Info

Leaks Repairs	Value Real Losses	Value Apparent Losses	Miles Surveyed	Press Reduction	Cost Of Interventions	Water Saved (AF)
---------------	-------------------	-----------------------	----------------	-----------------	-----------------------	------------------

At Least As effective As

No

Exemption

Yes

Legal

Comments:

Solano County Water Agency is strictly a wholesaler of untreated water. We do not own or maintain any meters. By agreement all functions relating to meters and leak detection is the responsibility of our member units.



Reporting unit name

Reporting unit
number:

Solano County Water Agency

207

Implementation

Does your agency have any unmetered service connections?

No

If YES, has your agency completed a meter retrofit plan?

No

Enter the number of previously unmetered accounts fitted with meters during reporting year:

Are all new service connections being metered?

Yes

Are all new service connections being billed volumetrically?

Yes

Has your agency completed and submitted electronically to the Council a written plan, policy or program to test, repair and replace meters?

No

Meters MatrixNumber of CII Accounts
with Mixed-use MetersNumber of CII Accounts with Mixed-use Meters Retrofitted
with Dedicated Irrigation Meters during Reporting Period**Feasibility Study**

Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters?

No

If YES, please fill in the following information:

A. When was the Feasibility Study conducted

Describe, upload or provide an electronic link to the Feasibility Study Upload File

At Least As effective As

No

Exemption

Yes

Legal

Comments:

Solano County Water Agency is strictly a wholesaler of untreated water. We do not own or maintain any meters. By agreement all functions relating to meters and leak detection is the responsibility of our member units.



CUWCC BMP Coverage Report 2014

Foundational Best Management Practices For Urban Water Efficiency

BMP 2.1 Public Outreach

ON TRACK

207

Solano County Water Agency

Wholesale

Does your agency perform Public Outreach programs? Yes

The list of retail agencies your agency assists with public outreach

City of Benicia, City of Fairfield, Dept of Public Works, City of Vacaville, City of Vallejo, Solano/Suisun WA

City of Benicia
City of Fairfield
City of Vacaville
Suisun City - Paul Lum, plum@sidwater.org
City of Dixon - Paul Lum, plum@sidwater.org

The name of agency, contact name and email address if not CUWCC Group 1 members

Did at least one contact take place during each quarter of the reporting year?

No

Public Outreach Program List

Number

General water conservation information

5000

Flyers and/or brochures (total copies), bill stuffers, messages printed on bill, information packets

1000

General water conservation information

100

Website

4800

Total 10900

Did at least one contact take place during each quarter of the reporting year?

Yes

Number Media Contacts

Number

Radio contacts

3

Articles or stories resulting from outreach

2

News releases

5

Online Advertisings

6

Total 16

Did at least one website update take place during each quarter of the reporting year?

Yes

Public Information Program Annual Budget

Annual Budget Category

Annual Budget Amount

Public Outreach

85000

Total Amount: 85000

Description of all other Public Outreach programs

Comments:



CUWCC BMP Coverage Report 2014

Foundational Best Management Practices For Urban Water Efficiency

BMP 2.1 Public Outreach

ON TRACK

Budget numbers are for fiscal year 2013/2014 - 7/1/2013 to 6/30/2014

At Least As effective As

No

Exemption

No

0



CUWCC BMP Coverage Report 2014

Foundational Best Management Practices For Urban Water Efficiency

BMP 2.2 School Education Programs

ON TRACK

207 Solano County Water Agency

Wholesale

Does your agency implement School Education programs? Yes

The list of retail agencies your agency assists with public outreach

City of Benicia, City of Fairfield, Dept of Public Works, City of Rio Vista, City of Vacaville, City of Vallejo, Solano/Suisun WA

Materials meet state education framework requirements? Yes

Assemblies are appropriate for Grades K-6 and meet State Content Standards in Science, Math, and Fine Arts.

Materials distributed to K-6? Yes

We provide materials to the retail agencies to distribute the materials to the schools. We do not distribute the materials.

Materials distributed to 7-12 students? No (Info Only)

We provide materials to the retail agencies to distribute the materials to the schools. We do not distribute the materials.

Annual budget for school education program: 84450.00

Description of all other water supplier education programs

SCWA also sponsors Marine Science Institute Discovery Voyages.

Comments:

At Least As effective As

No

Exemption

No

0



CUWCC BMP Wholesale Coverage Report 2013

Foundational Best Management Practices for Urban Water Efficiency

ON TRACK

BMP 1.1 Wholesale Agency Assistance Programs

Exempt

207 Solano County Water Agency

Name: Andrew Florendo Email: aflorendo@scwa2.com

a) Financial Investments and Building Partnerships

BMP Section	Monetary Amount for Financial Incentives	Monetary Amount for Equivalent Resources
BMP 2.1 Public Outreach	50000	3850
BMP 2.2 School Education Program	62430	
BMP 3 Residential	231985	
BMP 4 CII	218235	
BMP 5 Landscape	20000	

b) Technical Support

c) Retail Agency

d) Water Shortage Allocation

Adoption Date: 12/5/2013

File Name: SCWA is strictly a wholesale supplier of water, not a water utility. It is the responsibility of each of the cities within Solano County to deal with water shortages.
SCWA is contractually committed to deliver the full contract amount of water su

e) Non signatory Reporting of BMP implementation by non-signatory Agencies

The Water Agency does not report for non-signatories.

f) Encourage CUWCC Membership List Efforts to Recruit Retailers

The Water Agency encourages its member units who are not CUWCC members to join CUWCC

At Least As effective As

No

Exemption

Yes

Legal

Comments:

Solano County Water Agency does not own or read meters. All measurements are taken by the Member Units. Since SCWA does not own, operate, or maintain any meters, we have to rely on our member units to provide water delivery data.



CUWCC BMP Coverage Report 2013

Foundational Best Management Practices For Urban Water Efficiency

ON TRACK

Exempt

BMP 1.2 Water Loss Control

207 Solano County Water Agency

Completed Standard Water Audit Using AWWA Software? No

AWWA File provided to CUWCC? No

AWWA Water Audit Validity Score?

Complete Training in AWWA Audit Method No

Complete Training in Component Analysis Process? No

Component Analysis? No

Repaired all leaks and breaks to the extent cost effective? No

Locate and Repair unreported leaks to the extent cost effective? No

Maintain a record keeping system for the repair of reported leaks, including time of report, leak location, type of leaking pipe segment or fitting, and leak running time from report to repair.

No

Provided 7 Types of Water Loss Control Info

Leaks Repairs	Value Real Losses	Value Apparent Losses	Miles Surveyed	Press Reduction	Cost Of Interventions	Water Saved (AF)
---------------	-------------------	-----------------------	----------------	-----------------	-----------------------	------------------

At Least As effective As

No

Exemption

Yes

Legal

Comments:

Solano County Water Agency is strictly a wholesaler of untreated water. We do not own or maintain any meters. By agreement all functions relating to meters and leak detection is the responsibility of our member units.



Reporting unit name

Reporting unit
number:

Solano County Water Agency

207

Implementation

Does your agency have any unmetered service connections?

No

If YES, has your agency completed a meter retrofit plan?

No

Enter the number of previously unmetered accounts fitted with meters during reporting year:

Are all new service connections being metered?

No

Are all new service connections being billed volumetrically?

No

Has your agency completed and submitted electronically to the Council a written plan, policy or program to test, repair and replace meters?

No

Meters MatrixNumber of CII Accounts
with Mixed-use MetersNumber of CII Accounts with Mixed-use Meters Retrofitted
with Dedicated Irrigation Meters during Reporting Period**Feasibility Study**

Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters?

No

If YES, please fill in the following information:

A. When was the Feasibility Study conducted

1/1/0001

Describe, upload or provide an electronic link to the Feasibility Study Upload File

At Least As effective As

No

Exemption

Yes

Legal

Comments:

Water Agency does not own or operate any meters. Any functions relating to meters is the responsibility of our member units.



CUWCC BMP Coverage Report 2013

Foundational Best Management Practices For Urban Water Efficiency

BMP 2.1 Public Outreach

ON TRACK

207

Solano County Water Agency

Wholesale

Does your agency perform Public Outreach programs? Yes

The list of retail agencies your agency assists with public outreach

City of Benicia, City of Fairfield, Dept of Public Works, City of Vacaville, City of Vallejo, Solano/Suisun WA

City of Benicia
City of Fairfield
City of Vacaville
Suisun City - Paul Lum, plum@sidwater.org
City of Dixon - Paul Lum, plum@sidwater.org

The name of agency, contact name and email address if not CUWCC Group 1 members

Did at least one contact take place during each quarter of the reporting year?

Yes

Public Outreach Program List

Number

General water conservation information

5000

Flyers and/or brochures (total copies), bill stuffers, messages printed on bill, information packets

1000

Website

4800

General water conservation information

100

Total 10900

Did at least one contact take place during each quarter of the reporting year?

Yes

Number Media Contacts

Number

News releases

10

Articles or stories resulting from outreach

1

Online Advertisings

6

Total 17

Did at least one website update take place during each quarter of the reporting year?

Yes

Public Information Program Annual Budget

Annual Budget Category

Annual Budget Amount

Public Outreach

56000

Total Amount: 56000

Public Outreach Additional Programs

Public presentation on drought

Description of all other Public Outreach programs

Bay Friendly



CUWCC BMP Coverage Report 2013

Foundational Best Management Practices For Urban Water Efficiency

BMP 2.1 Public Outreach

ON TRACK

Comments:

Budget numbers are for fiscal year 2013/2014 - 7/1/2013 to 6/30/2014

At Least As effective As

No

Exemption

No

0



CUWCC BMP Coverage Report 2013

Foundational Best Management Practices For Urban Water Efficiency

BMP 2.2 School Education Programs

ON TRACK

207 Solano County Water Agency

Wholesale

Does your agency implement School Education programs?

Yes

The list of retail agencies your agency assists with public outreach

City of Benicia, City of Fairfield, Dept of Public Works, City of Rio Vista, City of Vacaville, City of Vallejo, Solano/Suisun WA

Materials meet state education framework requirements?

Yes

Assemblies are appropriate for Grades K-6 and meet State Content Standards in Science, Math, and Fine Arts.

Materials distributed to K-6?

Yes

We provide materials to the retail agencies to distribute the materials to the schools. We do not distribute the materials.

Materials distributed to 7-12 students?

No (Info Only)

We provide materials to the retail agencies to distribute the materials to the schools. We do not distribute the materials.

Annual budget for school education program:

144730.00

Description of all other water supplier education programs

SCWA also sponsors Marine Science Institute Discovery Voyages.

Comments:

At Least As effective As

No

Exemption

No

0



CUWCC BMP Wholesale Coverage Report 2011

Foundational Best Management Practices for Urban Water Efficiency

BMP 1.1 Wholesale Agency Assistance Programs

ON TRACK

207 Solano County Water Agency

Name: Andrew Florendo Email: aflorendo@scwa2.com

a) Financial Investments and Building Partnerships

BMP Section	Monetary Amount for Financial Incentives	Monetary Amount for Equivalent Resources
BMP 3 Residential	105590	65500
BMP 4 CII	51265	58900
BMP 2.2 School Education Program	0	85000
BMP 2.1 Public Outreach	17500	11500

b) Technical Support

c) Retail Agency

d) Water Shortage Allocation

Adoption Date: 12:00:00 AM

File Name: NA

e) Non signatory Reporting of BMP implementation by non-signatory Agencies

NA

f) Encourage CUWCC Membership List Efforts to Recruit Retailers

The water agency encourages its member units to join CUWCC

At Least As effective As

No

Exemption

No

0

Comments:



CUWCC BMP Wholesale Coverage Report 2012

Foundational Best Management Practices for Urban Water Efficiency

BMP 1.1 Wholesale Agency Assistance Programs

ON TRACK

207 Solano County Water Agency

Name: Andrew Florendo Email: aflorendo@scwa2.com

a) Financial Investments and Building Partnerships

BMP Section	Monetary Amount for Financial Incentives	Monetary Amount for Equivalent Resources
BMP 3 Residential	365000	
BMP 4 CII	520000	

b) Technical Support

c) Retail Agency

d) Water Shortage Allocation

Adoption Date: 12/5/2013

File Name: SCWA is contractually committed to provide the available water supply from the Solano Project to its member agencies regardless of hydrologic conditions.

e) Non signatory Reporting of BMP implementation by non-signatory Agencies

SCWA does not report for non-signatories

f) Encourage CUWCC Membership List Efforts to Recruit Retailers

The water agency encourages non-CUWCC members to join the CUWCC

At Least As effective As

No

Exemption

No

0

Comments:



CUWCC BMP Coverage Report 2011

Foundational Best Management Practices For Urban Water Efficiency

BMP 1.2 Water Loss Control

On Track

207 Solano County Water Agency

Completed Standard Water Audit Using AWWA Software? No

AWWA File provided to CUWCC? No

AWWA Water Audit Validity Score?

Complete Training in AWWA Audit Method No

Complete Training in Component Analysis Process? No

Component Analysis? No

Repaired all leaks and breaks to the extent cost effective? No

Locate and Repair unreported leaks to the extent cost effective? No

Maintain a record keeping system for the repair of reported leaks, including time of report, leak location, type of leaking pipe segment or fitting, and leak running time from report to repair. No

Provided 7 Types of Water Loss Control Info

Leaks Repairs	Value Real Losses	Value Apparent Losses	Miles Surveyed	Press Reduction	Cost Of Interventions	Water Saved (AF)
---------------	-------------------	-----------------------	----------------	-----------------	-----------------------	------------------

At Least As effective As

No

Solano County Water Agency does not read meters. All measurements are taken by the Member Units. Since SCWA does not own, operate, or maintain any meters, we have to rely on our member units to provide water delivery data. Member units send water del

Exemption

No

Legal

Comments:

Solano CWA owns no meters or pipelines. Solano CWA only delivers raw water. Solano CWA is responsible for maintaining the Putah South Canal (PSC) of the Solano Project. PSC losses are calculated by taking measured flows (measured by Parshall flume) a



CUWCC BMP Coverage Report 2012

Foundational Best Management Practices For Urban Water Efficiency

BMP 1.2 Water Loss Control

On Track

207 Solano County Water Agency

Completed Standard Water Audit Using AWWA Software? No

AWWA File provided to CUWCC? Yes

Zero_AWWA_2012.xls

AWWA Water Audit Validity Score?

Complete Training in AWWA Audit Method No

Complete Training in Component Analysis Process? No

Component Analysis? No

Repaired all leaks and breaks to the extent cost effective? Yes

Locate and Repair unreported leaks to the extent cost effective? No

Maintain a record keeping system for the repair of reported leaks, including time of report, leak location, type of leaking pipe segment or fitting, and leak running time from report to repair. No

Provided 7 Types of Water Loss Control Info

Leaks Repairs	Value Real Losses	Value Apparent Losses	Miles Surveyed	Press Reduction	Cost Of Interventions	Water Saved (AF)
---------------	-------------------	-----------------------	----------------	-----------------	-----------------------	------------------

At Least As effective As

No

Exemption

Yes

Legal

Comments:

Solano County Water Agency is strictly an untreated water wholesaler. The water agency does not own or maintain any meters. As specified in the water service contract, all meter reading and calibration is conducted by the agency's member units.



CUWCC BMP Coverage Report 2011

Foundational Best Management Practices For Urban Water Efficiency

BMP 1.3 Metering With Commodity

ON TRACK

207 Solano County Water Agency

Numbered Unmetered Accounts No

Metered Accounts billed by volume of use Yes

Number of CII Accounts with Mixed Use
Meters

Conducted a feasibility study to assess merits of a
program to provide incentives to switch mixed-use
accounts to dedicated landscape meters? No

Feasibility Study provided to CUWCC? No

Date: 12:00:00 AM

Uploaded file name:

Completed a written plan, policy or program to test,
repair and replace meters No

At Least As effective As

No

Solano County Water Agency does not read meters. All measurements are taken by the Member Units. Since SCWA does not own, operate, or maintain any meters, we have to rely on our member units to provide water delivery data.

Exemption

No

3

Comments:

This BMP is not applicable. Solano CWA does not own any meters.



CUWCC BMP Coverage Report 2012
Foundational Best Management Practices For Urban Water Efficiency

**BMP 1.3 Metering With
Commodity**

On Track

207 Solano County Water Agency

Numbered Unmetered Accounts

No

Metered Accounts billed by volume of use

Yes

Number of CII Accounts with Mixed Use
Meters

Conducted a feasibility study to assess merits of a
program to provide incentives to switch mixed-use
accounts to dedicated landscape meters?

No

Feasibility Study provided to CUWCC?

No

Date: 12:00:00 AM

Uploaded file name:

Completed a written plan, policy or program to test,
repair and replace meters

No

At Least As effective As

No

Exemption

Yes

3

Comments:

All SCWA water sales are metered – there are no unmetered connections. However, none of those meters belong to SCWA. Therefore, SCWA does not handle any operations or maintenance of the meters, that becomes the responsibility of the respective member



CUWCC BMP Coverage Report 2011

Foundational Best Management Practices For Urban Water Efficiency

BMP 2.1 Public Outreach

On Track

207 Solano County Water Agency

Wholesale Only

Does your agency perform Public Outreach programs? Yes

The list of retail agencies your agency assists with public outreach

City of Benicia , Fairfield, Vacaville, and Vallejo	
---	--

Agency Name	ID number
City of Benicia	6291
City of Fairfield, Dept of Public Works	57
City of Vacaville	5990
City of Vallejo	6012
Solano/Suisun WA	6014

The name of agency, contact name and email address if not CUWCC Group 1 members

Did at least one contact take place during each quarter of the reporting year? Yes

Public Outreach Program List

Number

Website

Newsletter articles on conservation

Newsletter articles on conservation

Total

Did at least one contact take place during each quarter of the reporting year? No

Did at least one website update take place during each quarter of the reporting year? No

Public Information Program Annual Budget

Annual Budget Category

Annual Budget Amount

demonstration garden	15000
public outreach materials	10000
outreach event	1000

Total Amount: 26000

Public Outreach Additional Programs

Water Efficient Landscaping Workshop

Description of all other Public Outreach programs



CUWCC BMP Coverage Report 2011

Foundational Best Management Practices For Urban Water Efficiency

BMP 2.1 Public Outreach

On Track

Comments:

SCWA has a Facebook page and also sends messages via Twitter. We have 164 followers on Twitter.

At Least As effective As

No

Exemption

No

0



CUWCC BMP Coverage Report 2012

Foundational Best Management Practices For Urban Water Efficiency

BMP 2.1 Public Outreach

On Track

207

Solano County Water Agency

Wholesale Only

Does your agency perform Public Outreach programs? Yes

The list of retail agencies your agency assists with public outreach

City of Benicia, City of Fairfield, Dept of Public Works, City of Rio Vista, City of Vacaville, City of Vallejo, Solano/Suisun WA

The name of agency, contact name and email address if not CUWCC Group 1 members

Did at least one contact take place during each quarter of the reporting year?

No

Public Outreach Program List

Number

Website

5000

Newsletter articles on conservation

3

Total 5003

Did at least one contact take place during each quarter of the reporting year?

Yes

Number Media Contacts

Number

Articles or stories resulting from outreach

2

Total 2

Did at least one website update take place during each quarter of the reporting year?

Yes

Public Information Program Annual Budget

Annual Budget Category

Annual Budget Amount

Demonstration Garden

15000

Public Outreach Materials

10000

Conservation Showcase

1000

California Water Awareness Campaign

2000

Conservation Website

7000

Total Amount: 35000

Public Outreach Additional Programs

17

Description of all other Public Outreach programs



CUWCC BMP Coverage Report 2012

Foundational Best Management Practices For Urban Water Efficiency

BMP 2.1 Public Outreach

On Track

Bay Friendly Coalition

Comments:

SCWA has a Facebook page and also sends messages via Twitter.

At Least As effective As

No

Exemption

No

0



CUWCC BMP Coverage Report 2011

Foundational Best Management Practices For Urban Water Efficiency

BMP 2.2 School Education Programs

On Track

207 Solano County Water Agency

Wholesale Only

Does your agency implement School Education programs? Yes

The list of retail agencies your agency assists with public outreach

City of Benicia, City of Fairfield, Dept of Public Works, City of Gilroy, City of Rio Vista, City of Vacaville, City of Vallejo, Solano/Suisun WA
Solano/Suisun WA - Paul Lum, LumP@sidwater.org

Materials meet state education framework requirements? Yes

Assemblies are appropriate for Grades K-6 and meet State Content Standards in Science, Math, and Fine Arts

Materials distributed to K-6? Yes

Assemblies are appropriate for Grades K-6 and meet State Content Standards in Science, Math, and Fine Arts

Materials distributed to 7-12 students? No (Info Only)

Annual budget for school education program: 100000.00

Description of all other water supplier education programs

Assemblies are appropriate for Grades K-6 and meet State Content Standards in Science, Math, and Fine Arts Assemblies are appropriate for Grades K-6 and meet State Content Standards in Science, Math, and Fine Arts SCWA also sponsors Marine Science Institute Discovery Voyages. SCWA sponsored a high school video contest in 2011. The videos depicted wise water use.

Comments:

At Least As effective As

No

Exemption

No

0



CUWCC BMP Coverage Report 2012

Foundational Best Management Practices For Urban Water Efficiency

BMP 2.2 School Education Programs

On Track

207 Solano County Water Agency

Wholesale Only

Does your agency implement School Education programs?

Yes

The list of retail agencies your agency assists with public outreach

City of Benicia, City of Fairfield, Dept of Public Works, City of Rio Vista, City of Vacaville, City of Vallejo, Solano/Suisun
WA

Materials meet state education framework requirements?

Yes

Assemblies are appropriate for Grades K-6 and meet State Content Standards in Science, Math, and Fine Arts.

Materials distributed to K-6?

Yes

We provide materials to the retail agencies to distribute the materials to the schools. We do not distribute the materials.

Materials distributed to 7-12 students?

No (Info Only)

We provide materials to the retail agencies to distribute the materials to the schools. We do not distribute the materials.

Annual budget for school education program:

84450.00

Description of all other water supplier education programs

Assemblies are appropriate for Grades K-6 and meet State Content Standards in Science, Math, and Fine Arts. We provide materials to the retail agencies to distribute the materials to the schools. We do not distribute the materials. SCWA also sponsors Marine Science Institute Discovery Voyages. SCWA sponsored a high school video contest in 2012. The videos depicted wise water use.

Comments:

At Least As effective As

No

Exemption

No

0

**ACTION OF
SOLANO COUNTY WATER AGENCY**

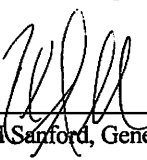
DATE: November 10, 2016

SUBJECT: Legislative Update

RECOMMENDATION: Hear presentation by Pat Leathers and provide direction to staff.

FINANCIAL IMPACT: None at this time.

BACKGROUND: Pat Leathers, the Water Agency's legislative advocate, will discuss recent and pending legislation and characterize the legislative "climate" heading into January 2017 and the beginning of the 2017 legislative year.

Recommended: 
Roland Sanford, General Manager

☐

Approved as
recommended

☐

Other
(see below)

Modification to Recommendation and/or other actions:

I, Roland Sanford, General Manager and Secretary to the Solano County Water Agency, do hereby certify that the foregoing action was regularly introduced, passed, and adopted by said Board of Directors at a regular meeting thereof held on November 10, 2016 by the following vote.

Ayes:

Noes:

Abstain:

Absent:

Roland Sanford
General Manager & Secretary to the
Solano County Water Agency

**ACTION OF
SOLANO COUNTY WATER AGENCY**

DATE: November 10, 2016

SUBJECT: Salary Study

RECOMMENDATIONS:

Adopt revised salary range placements for current job classifications and positions, as presented in the "Proposed Salary Range Placements" table of the October 28, 2016 Salary Survey Background and Recommendations memo to the SCWA Executive Committee, and authorize General Manager to promote or demote employees within the current job classifications, subject to available budgeted funding for salary and benefits.

FINANCIAL IMPACT:

Implementation of the revised salary range placements, beginning with the November 20, 2016 pay period, would increase FY 2016-17 salary and benefit costs by 3 percent (\$50,039), from \$1,634,168 to \$1,684,207. Had the revised salary schedule been implemented at the beginning of FY 2016-2017, salary and benefit costs would have increased by 5 percent (\$82,082), from \$1,634,168 to \$1,716,250. Sufficient funding is available within the FY 2016-2017 Salary and Benefits line items to implement the revised salary schedule.

BACKGROUND: (see attached "Salary Survey Background and Recommendations" memo to SCWA Executive Committee dated October 28, 2016)

Recommended: _____


Roland Sanford, General Manager

☐

Approved as
recommended

☐

Other
(see below)

Modification to Recommendation and/or other actions:

I, Roland Sanford, General Manager and Secretary to the Solano County Water Agency, do hereby certify that the foregoing action was regularly introduced, passed, and adopted by said Board of Directors at a regular meeting thereof held on November 10, 2016 by the following vote.

Ayes:

Noes:

Abstain:

Absent:

Roland Sanford
General Manager & Secretary to the
Solano County Water Agency

SOLANO COUNTY WATER AGENCY



MEMORANDUM

TO: SCWA Executive Committee

FROM: Roland Sanford, General Manager

DATE: October 28, 2016

SUBJECT: Salary Survey Background and Recommendations

Introduction

In 2015 Bryce Consulting conducted a salary survey for the Solano County Water Agency (SCWA) – the first comprehensive salary survey performed for SCWA since 2009. The 2015 Bryce Consulting salary survey results are summarized in the “Solano County Water Agency 2015 Compensation Study” report dated March, 2015. General Manager David Okita retired shortly after the Bryce Consulting report was completed. Due to other priorities and the fact that I did not assume the General Manager position at SCWA until August, 2015, no action was taken with regard to the salary survey results until March of this year.

In February 2016 a supplemental salary survey was performed by CPS HR Consulting to augment the data compiled by Bryce Consulting for one existing position (Principal Water Resources Specialist), and to develop information for two proposed positions that were ultimately approved by the Board (Accountant I and Assistant Water Resources Specialist). In April 2016 Bryce Consulting presented the results of their March 2015 salary survey to the SCWA Executive Committee. The Executive Committee discussed the results and requested additional analyses, which were completed by Bryce Consulting in June 2016.

This memo summarizes the work performed by the Bryce Consulting and CPS HR Consulting, and the resulting salary adjustment recommendations derived from their respective analyses.

Overview of Salary Survey Methods

Both the Bryce Consulting and CPS HR Consulting salary surveys utilized the same basic three step methodology: identification of competing employers, identification and review of comparable job classifications, and the determination of the median maximum base salary for each job title and classification. Competing employers were determined on the basis of employer size, geographic proximity to SCWA, and the nature of the services provided. Both salary surveys utilized the following competing employers for their analyses:

810 Vaca Valley Parkway, Suite 203
Vacaville, California 95688
Phone (707) 451-6090 • FAX (707) 451-6099
www.scwa2.com



California Department of Water Resources
City of Vacaville
City of Yuba City
San Joaquin County Flood Control and Water Conservation District
Solano Irrigation District
South San Joaquin Irrigation District
Yolo County Flood Control and Water Conservation District
Yuba County Water Agency
Zone 7 Water Agency

(Note: initially both salary surveys included the Contra Costa Water District and the Fairfield Suisun Sewer District in their suite of competing employers. In April 2016 the SCWA Executive Committee requested supplemental analyses that excluded the Contra Costa Water District and the Fairfield Suisun Sewer District. Neither the Contra Costa Water District nor the Fairfield Suisun Sewer District data sets were used to develop the salary adjustment recommendations discussed below.)

All of the aforementioned employers have at least some job classifications and descriptions that are similar but not necessarily identical to those of SCWA. In order to determine their relevance to SCWA, each employer's job description was evaluated with respect to reporting relationships, functional areas of responsibility, and the job description's class relationship to other job classifications. In all but one instance – SCWA's Principal Water Resources Specialist position – there were at least six relevant competing employer job descriptions identified for each corresponding SCWA job description. Bryce Consulting's evaluation of SCWA's Principal Water Resources Specialist relied on three competing employer job descriptions. Similarly, CPS HR Consulting's evaluation of SCWA's Principal Water Resources Specialist relied on four competing employer job descriptions.

In the third and final step of the salary survey the maximum monthly base salaries for each group of competing employer job descriptions (e.g. the four competing employer job descriptions pertaining to SCWA's Principal Water Resources Specialist position, the eight competing employer job descriptions pertaining to SCWA's Water Resources Technician position, etc.) were tabulated and the median monthly base salary for each group delineated. The resulting median maximum monthly base salary values provided the basis for the recommended salary adjustments.

Development of Salary Recommendations

The maximum monthly base salary data provide a useful metric when comparing salaries for a given job classification – say engineers – among competing employers. However, the maximum monthly base salary data do not necessarily reflect how a given job classification should be paid in relation to another job classification – say engineers versus biologists or planners – within an organization. Within a given organization the salaries of the various job classifications are determined in part by the size of the organization, the number of job classifications and job positions within each job classification, and the priorities of the organization. Consequently, it is often necessary to adjust the maximum monthly base salary data to account for the specific characteristics of the organization that intends to apply the salary survey data.

In 2009 Koff and Associates, Inc. conducted a comprehensive salary survey and job classification study for SCWA. In addition to recommending salaries for selected positions, the

study recommended and SCWA subsequently implemented a "Classification Plan" that sets forth the various job classifications that comprise SCWA's organizational structure, and guidelines for adding/deleting/maintaining positions within those job classifications. SCWA continues to implement the Koff and Associates Classification Plan and the associated guidelines regarding salaries within a given job classification and between job classifications.

The maximum monthly base salary data developed by Bryce Consulting and CPS HR Consulting were evaluated in the context of SCWA's existing job classifications and organizational structure for the following existing vacant and filled positions:

- Principal Water Resources Engineer
- Principal Water Resources Specialist
- Supervising Water Resources Engineer (currently vacant)
- Supervising Water Resources Specialist (currently vacant)
- Senior Water Resources Engineer
- Senior Water Resources Specialist
- Associate Water Resources Engineer (currently vacant)
- Associate Water Resources Specialist (currently vacant)
- Assistant Water Resources Engineer
- Assistant Water Resources Specialist
- Accountant II
- Accountant I
- Water Resources Technician
- Administrative Assistant

Three positions were not evaluated:

- Streamkeeper
- Water Conservation Coordinator
- Administrative Services Manager (currently vacant)

The Streamkeeper position was created by the 2000 Putah Creek Accord and although a SCWA job position, the salary is determined in part by the Lower Putah Creek Coordinating Committee. The responsibilities of this position have grown significantly since this position was created, revisions to the current job description and salary are warranted and will be addressed in a separate study and process. The Water Conservation Coordinator position was reviewed relatively recently – 2014 – and therefore was not included in this analysis. The Administrative Services Manager job description is currently under review and likely to be revised within the next 6 to 12 months, and therefore was also excluded from this analysis.

Salary Recommendations

The recommended salary adjustments are presented in the Proposed Salary Range Placements Table (attached) and the accompanying Solano County Water Agency Base Salary Recommendations – September 2016 tables (attached). Additional notes are as follows:

Principal Water Resources Engineer – recommendation based on Bryce Consulting salary survey

Principal Water Resources Specialist – recommendation based on Bryce Consulting and CPS HR Consulting salary surveys and classification recommendations by Koff and Associates regarding pay ranges between job positions within a given job classification

Supervising Water Resources Engineer – based on internal alignment (relation to Senior Water Resources Engineer pay) and classification recommendations by Koff and Associates regarding pay ranges between job positions within a given job classification

Supervising Water Resources Specialist – based on internal alignment (relation to Senior Water Resources Specialist pay) and classification recommendations by Koff and Associates regarding pay ranges between job positions within a given job classification

Senior Water Resources Engineer – based on Bryce Consulting salary survey

Senior Water Resources Specialist – based on internal alignment (relation to Associate Water Resources Specialist pay) and classification recommendations by Koff and Associates regarding pay ranges between job positions within a given job classification

Associate Water Resources Engineer – based on internal alignment (relation to Assistant Water Resources Engineer pay) and classification recommendations by Koff and Associates regarding pay ranges between job positions within a given job classification

Associate Water Resources Specialist – based on CPS HR Consulting salary survey

Assistant Water Resources Engineer – based on Bryce Consulting salary survey

Assistant Water Resources Specialist – based on internal alignment (relation to Associate Water Resources Specialist pay) and classification recommendations by Koff and Associates regarding pay ranges between job positions within a given job classification

Accountant II – based on internal alignment (relation to Accountant I pay) and classification recommendations by Koff and Associates regarding pay ranges between job positions within a given job classification

Water Resources Technician – based on Bryce Consulting salary survey

Administrative Assistant – based on Bryce Consulting salary survey

Solano County Water Agency
Volume II - Appendix IV
Proposed Salary Range Placements
September 2016

Class Title	Current Monthly Salary Range	Current Maximum Monthly Salary	Proposed Salary Range	Proposed Maximum Monthly Salary	Percent Difference	Rationale
Principal Water Resources Engineer	49	\$ 11,987	50	\$ 12,287	2.50%	Market and Range Placement
Principal Water Resources Specialist	45	\$ 10,873	49	\$ 11,987	10.25%	Market and Range Placement
Supervising Water Resources Engineer	41	\$ 9,862	44	\$ 10,614	7.63%	Internal Alignment: 10% Above Senior WRE
Supervising Water Resources Specialist	37	\$ 8,945	38	\$ 9,168	2.49%	Internal Alignment: 15% Above Senior WRS
Senior Water Resources Engineer	39	\$ 9,392	40	\$ 9,627	2.50%	Market and Range Placement
Senior Water Resources Specialist	29	\$ 7,359	31	\$ 7,727	5.00%	Internal Alignment: 15% Above Associate WRS
Associate Water Resources Engineer	27	\$ 7,009	34	\$ 8,316	18.65%	Internal Alignment: 10% Above Assistant WRE
Associate Water Resources Specialist	23	\$ 6,357	25	\$ 6,675	5.00%	Market and Range Placement
Accountant II	27	\$ 7,009	29	\$ 7,359	5.00%	Internal Alignment: 10% Above Accountant I
Assistant Water Resources Engineer	27	\$ 7,009	30	\$ 7,543	7.63%	Market and Range Placement
Accountant I	-	\$ 5,966	25	\$ 6,675	11.88%	Market and Range Placement
Assistant Water Resources Specialist	17	\$ 5,491	21	\$ 6,054	10.25%	Internal Alignment: 10% Below Associate WRS
Water Resources Technician	14	\$ 5,105	17	\$ 5,491	7.55%	Market and Range Placement
Administrative Assistant	6	\$ 4,200	12	\$ 4,862	15.76%	Market and Range Placement

Further Salary Study Needed

Streamkeeper	\$ 7,775 (*)					
Administrative Service Manager	39	\$ 9,392.00				
Water Conservation Coordinator	36	\$ 8,731.89				Market and Range Placement Performed in 2014

Notes: Vacant positions highlighted in yellow

(*) Streamkeeper position not full time - 32 hours/week

Classification: Accountant

Accountant II

\$6,054 \$6,357 \$6,675 \$7,009 \$7,359

\$5,766 \$6,054 \$6,357 \$6,675 \$7,009

Proposed - Range 25

\$5,491 \$5,766 \$6,054 \$6,357 \$6,675

\$4,748 \$5,032 \$5,310 \$5,628 \$5,966

\$4,000

\$5,000

\$6,000

\$7,000

\$8,000

\$9,000

Solano County Water Agency Base Salary Recommendation - September 2016

Classification: Water Resources Engineer

*Graph includes 2% COLA rates approved at the June 2015 and June 2016 Board meetings.

Principal Water Resources Engineer									
Proposed - Range 50								\$10,108	\$10,614
								\$11,144	\$11,702
								\$12,287	
Current - Range 49								\$9,862	\$10,355
								\$10,873	\$11,416
								\$11,967	
Supervising Water Resources Engineer									
Proposed - Range 44								\$8,732	\$9,168
								\$9,627	\$10,108
								\$10,614	
Current - Range 41								\$8,113	\$8,519
								\$8,945	\$9,392
								\$9,862	
Senior Water Resources Engineer									
Proposed - Range 40								\$7,920	\$8,316
								\$8,732	\$9,168
								\$9,627	
Current - Range 39								\$7,727	\$8,113
								\$8,519	\$8,945
								\$9,392	
Associate Water Resources Engineer									
Proposed - Range 34								\$6,842	\$7,184
								\$7,543	\$7,920
								\$8,316	
Current - Range 27								\$5,766	\$6,054
								\$6,357	\$6,675
								\$7,009	
Assistant Water Resources Engineer									
Proposed - Range 30								\$6,206	\$6,516
								\$6,842	\$7,184
								\$7,543	
Current - Range 27								\$5,766	\$6,054
								\$6,357	\$6,675
								\$7,009	
	\$5,000	\$6,000	\$7,000	\$8,000	\$9,000	\$10,000	\$11,000	\$12,000	

Classification: Water Resources Specialist

*Graph includes 2% COLA rates approved at the June 2015 and June 2016 Board meetings.

Principal Water Resources Specialist																		
Proposed - Range 49										\$9,862	\$10,355	\$10,873	\$11,416	\$11,987				
Current - Range 45									\$8,945	\$9,392	\$9,862	\$10,355	\$10,873					
Supervising Water Resources Specialist																		
Proposed - Range 38											\$7,543	\$7,920	\$8,316	\$8,732	\$9,168			
Current - Range 37									\$7,359	\$7,727	\$8,113	\$8,519	\$8,945					
Senior Water Resources Specialist																		
Proposed - Range 31											\$6,357	\$6,675	\$7,009	\$7,359	\$7,727			
Current - Range 29									\$6,054	\$6,357	\$6,675	\$7,009	\$7,359					
Associate Water Resources Specialist																		
Proposed - Range 25											\$5,491	\$5,766	\$6,054	\$6,357	\$6,675			
Current - Range 23									\$5,230	\$5,491	\$5,766	\$6,054	\$6,357					
Assistant Water Resources Specialist																		
Proposed - Range 21											\$4,981	\$5,230	\$5,491	\$5,766	\$6,054			
Current - Range 17									\$4,518	\$4,744	\$4,981	\$5,230	\$5,491					
		\$ 4,000		\$5,000		\$6,000		\$7,000		\$8,000		\$9,000		\$10,000		\$11,000		\$12,000

Solano County Water Agency Base Salary Recommendation - September 2016

*Graph includes 2% COLA rates approved at the June 2015 and June 2016 Board meetings.

General Manager									
Proposed	None								
Current	\$14,025								
Principal Water Resources Engineer									
Proposed - Range 50	\$10,108 \$10,614 \$11,144 \$11,702 \$12,287								
Current - Range 49	\$9,862 \$10,355 \$10,873 \$11,416 \$11,987								
Principal Water Resources Specialist									
Proposed - Range 49	\$9,862 \$10,355 \$10,873 \$11,416 \$11,987								
Current - Range 45	\$8,945 \$9,392 \$9,862 \$10,355 \$10,873								
Streamkeeper									
Proposed	None								
Current	\$9,719								
Administrative Service Manager									
Proposed	None								
Current - Range 36	\$7,184 \$7,543 \$7,920 \$8,316 \$8,732								
Supervising Water Resources Engineer									
Proposed - Range 44	\$8,732 \$9,168 \$9,627 \$10,108 \$10,614								
Current - Range 41	\$8,113 \$8,519 \$8,945 \$9,392 \$9,862								
Supervising Water Resources Specialist									
Proposed - Range 38	\$7,543 \$7,920 \$8,316 \$8,732 \$9,168								
Current - Range 37	\$7,359 \$7,727 \$8,113 \$8,519 \$8,945								
Senior Water Resources Engineer									
Proposed - Range 40	\$7,920 \$8,316 \$8,732 \$9,168 \$9,627								
Current - Range 39	\$7,727 \$8,113 \$8,519 \$8,945 \$9,392								
Water Conservation Coordinator									
Proposed	None								
Current - Range 36	\$7,184 \$7,543 \$7,920 \$8,316 \$8,732								

Solano County Water Agency Base Salary Recommendation - September 2016

*Graph includes 2% COLA rates approved at the June 2015 and June 2016 Board meetings.

Senior Water Resources Specialist						
Proposed - Range 31						\$6,357 \$6,675 \$7,009 \$7,359 \$7,727
Current - Range 29					\$6,054 \$6,357 \$6,675 \$7,009 \$7,359	
Associate Water Resources Engineer						
Proposed - Range 34						\$6,842 \$7,184 \$7,543 \$7,920 \$8,316
Current - Range 27					\$5,766 \$6,054 \$6,357 \$6,675 \$7,009	
Associate Water Resources Specialist						
Proposed - Range 25						\$5,491 \$5,766 \$6,054 \$6,357 \$6,675
Current - Range 23					\$5,230 \$5,491 \$5,766 \$6,054 \$6,357	
Assistant Water Resources Engineer						
Proposed - Range 30						\$6,206 \$6,516 \$6,842 \$7,184 \$7,543
Current - Range 27					\$5,766 \$6,054 \$6,357 \$6,675 \$7,009	
Accountant II						
Proposed - Range 29						\$6,054 \$6,357 \$6,675 \$7,009 \$7,359
Current - Range 27					\$5,766 \$6,054 \$6,357 \$6,675 \$7,009	
Assistant Water Resources Specialist						
Proposed - Range 21						\$4,981 \$5,230 \$5,491 \$5,766 \$6,054
Current - Range 17					\$4,518 \$4,744 \$4,981 \$5,230 \$5,491	
Accountant I						
Proposed - Range 25						\$5,491 \$5,766 \$6,054 \$6,357 \$6,675
Current -					\$4,748 \$5,032 \$5,310 \$5,628 \$5,966	
Water Resources Technician						
Proposed - Range 17						\$4,518 \$4,744 \$4,981 \$5,230 \$5,491
Current - Range 14					\$4,200 \$4,410 \$4,631 \$4,862 \$5,105	
Administrative Assistant						
Proposed - Range 12						\$4,000 \$4,200 \$4,410 \$4,631 \$4,862
Current - Range 6					\$3,455 \$3,628 \$3,810 \$4,000 \$4,200	
	\$3,000	\$4,000	\$5,000	\$6,000	\$7,000	\$8,000