

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, December 8, 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 November 10, 2016 is recommended.

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

(C) Purchase of 2016 Vrisimo 84FH Flail Mower for ASV Tractor

6. BOARD MEMBER REPORTS

RECOMMENDATION: For information only.

7. GENERAL MANAGER'S REPORT

RECOMMENDATION: For information only.

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



8. **ADOPTION OF SCWA 2016-2025 STRATEGIC PLAN**

RECOMMENDATION: Adopt SCWA 2016-2025 Strategic Plan. *(copies of the Strategic Plan can be downloaded at <http://www.scwa2.com/> - go to the "Resources Management" tab and select "Strategic Plan Stakeholder Meetings" and click on SCWA Strategic Plan v8 (12-01-16) (ID 211922).)*

9. **LAKE BERRYESSA OUTREACH PRESENTATION**

RECOMMENDATION: Hear presentation on 2016 Lake Berryessa Outreach Program and provide direction to staff

10. **WINTERS SALMON FESTIVAL**

RECOMMENDATION: Hear presentation on Winters Salmon Festival and provide direction to staff

11. **LOWER PUTAH CREEK SALMON STUDY**

RECOMMENDATION: Authorize General Manager to sign \$125,000 contract amendment with UC Davis for Lower Putah Creek Salmon Study

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.

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

Thursday, January 10, 2017 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: November 10, 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
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 Supervisor Vasquez and a second by Supervisor Seifert 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 the consent items:

- (A) Minutes
- (B) Expenditure Approvals
- (C) Purchase of 2013 Ford F-750 Dump Truck

BOARD MEMBER REPORTS

There were no board member reports.

GENERAL MANAGER'S REPORT

There were no additions to the General Managers written report.

SCWA 2015 URBAN WATER MANAGEMENT PLAN

Chairwoman Hannigan opened the public hearing to receive public comments on the draft SCWA 2015 Urban Water Management Plan. There were no public comments on the Urban Water Management Plan and the hearing was subsequently closed. On a motion by Mayor Batchelor and a second by Mayor Price the Board unanimously approved the SCWA 2015 Urban Water Management Plan.

LEGISLATIVE UPDATE

Patrick Leathers provided a brief verbal report on the results of the November 8, 2016 State and Federal government elections, and the potential implications of the elections on State and Federal water policy.

SALARY STUDY

On a motion by Supervisor Seifert and a second by Mayor Patterson the Board unanimously approved the revised salary range placements for current job classifications and positions, and authorized the General Manager to promote or demote employees within the current job classifications, subject to available budgeted funding for salary and benefits.

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. The Legislative Committee will next meet on December 14, 2016.

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 6:52 p.m.

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

**ACTION OF
SOLANO COUNTY WATER AGENCY**

DATE: December 8, 2016
SUBJECT: Expenditures Approval

RECOMMENDATIONS:

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

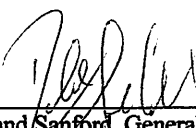
FINANCIAL IMPACT:

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 November, 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 December 8, 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 Nov 1, 2016 to Nov 30, 2016

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

Date	Check #	Account ID	Line Description	Debit Amount	Credit Amount
11/1/16	29176	2020SC 1020SC	Invoice: 5005763848 CINTAS CORPORATION	54.95	54.95
11/1/16	29177	2020SC 1020SC	Invoice: DOVER WSIP 2016 DOVER WOODS VENTURE LLP	1,693.54	1,693.54
11/1/16	29178	2020SC 1020SC	Invoice: HUMVEE DOORS EASTERN SURPLUS AND EQUIPMENT CO.	2,380.00	2,380.00
11/1/16	29179	2020SC 1020SC	Invoice: CL33872 INTERSTATE OIL COMPANY	496.21	496.21
11/1/16	29180	2020SC 2020SC 1020SC	Invoice: 138566 Invoice: 138597 MARTIN'S METAL FABRICATION &	242.72 80.91	323.63
11/1/16	29181	2020SC 1020SC	Invoice: 1177 ROCK STEADY JUGGLING	3,000.00	3,000.00
11/1/16	29182	2020SC 1020SC	Invoice: 40595 ROSS CLARK MATERIAL HANDLING	2,250.50	2,250.50
11/1/16	29183	2020SC 1020SC	Invoice: SOL CTY WSIP 2016 JAMES SIMON/SOLANO COUNTY	2,048.32	2,048.32
11/1/16	29184	2020SC 1020SC	Invoice: 0004837 SOLANO IRRIGATION DISTRICT	43,922.27	43,922.27
11/1/16	29185	2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 1020SC	Invoice: 0042-170-200 01 Invoice: 0042-170-230 01 Invoice: 0042-170-190 01 Invoice: 0042-150-110 01 Invoice: 0042-170-220 01 Invoice: 0042-170-210 01 CHARLES LOMELI, TAX COLLECTOR	2,026.26 1,993.06 3,049.60 647.76 4,066.14 2,948.42	14,731.24
11/1/16	29186	2020SC 1020SC	Invoice: 33371 TERRA REALTY ADVISORS, INC.	993.69	993.69
11/1/16	EFT	2020SC 1020SC	Invoice: NOV HEALTH 2016 CALPERS	16,400.14	16,400.14
11/3/16	29185V	2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 1020SC	Invoice: 0042-170-200 01 Invoice: 0042-170-230 01 Invoice: 0042-170-190 01 Invoice: 0042-150-110 01 Invoice: 0042-170-220 01 Invoice: 0042-170-210 01 CHARLES LOMELI, TAX COLLECTOR	2,026.26 1,993.06 3,049.60 647.76 4,066.14 2,948.42 14,731.24	
11/3/16	29187	2020SC 1020SC	Invoice: TRISTAN KENNEDY TURF REBATE PROGRAM	438.00	438.00
11/3/16	29188	2020SC 1020SC	Invoice: CITY OF VALLEJO TURF REBATE PROGRAM	5,000.00	5,000.00
11/3/16	29189	2020SC 1020SC	Invoice: MICHELLE WALLACE TURF REBATE PROGRAM	686.00	686.00
11/3/16	29190	2020SC 1020SC	Invoice: ATANACIA CASTRO TURF REBATE PROGRAM	1,000.00	1,000.00
11/3/16	29191	2020SC 1020SC	Invoice: CYNTHIA WILLIAMS TURF REBATE PROGRAM	1,000.00	1,000.00
11/3/16	29192	2020SC 1020SC	Invoice: BRENDA THOMAS TURF REBATE PROGRAM	1,000.00	1,000.00
11/3/16	29193	2020SC	Invoice: DONNA SOUZA	388.00	

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		1020SC	TURF REBATE PROGRAM		388.00
11/3/16	29194	2020SC 1020SC	Invoice: 2298650 AMERICAN TOWER CORPORATION	556.02	556.02
11/3/16	29195	2020N 1020SC	Invoice: NOVEMBER 2016 CLEAN TECH ADVOCATES	8,600.00	8,600.00
11/3/16	29196	2020SC 2020SC 1020SC	Invoice: 71871 Invoice: 71847 GHD, INC.	786.25 1,063.25	1,849.50
11/3/16	29197	2020SC 1020SC	Invoice: 1X127964 HORIZON DISTRIBUTORS, INC.	20.25	20.25
11/3/16	29198	2020SC 1020SC	Invoice: OCT 2016 IAN BAKER	478.22	478.22
11/3/16	29199	2020SC 1020SC	Invoice: 72809 INTEGRATED ENVIRONMENTAL RESTORATION	3,966.25	3,966.25
11/3/16	29200	2020SC 1020SC	Invoice: 16A-4973 IVES TRAINING & COMPLIANCE GROUP	1,095.00	1,095.00
11/3/16	29201	2020N 1020SC	Invoice: 1116-1 JEFFREY J JANIK	750.00	750.00
11/3/16	29202	2020SC 1020SC	Invoice: RR102816 ROOSEVELT RANCH LLC	28,047.50	28,047.50
11/3/16	29203	2020SC 1020SC	Invoice: MARCH 2017 SRF CONFE SALMONID RESTORATION FEDERATION	1,000.00	1,000.00
11/3/16	29204	2020SC 1020SC	Invoice: 34434 SOUTHWEST ENVIRONMENTAL	23,315.50	23,315.50
11/3/16	29205	2020SC 1020SC	Invoice: 16-80 WEST ASSOCIATES ENVIRONMENTAL ENGINEERS	950.00	950.00
11/5/16	EFT	2024AC 6012AC 1020SC	EMPLOYEE LIABILITIES - 11.05.16 EMPLOYER LIABILITIES - 11.05.16 PAYROLL TAXES	10,826.80 1,535.12	12,361.92
11/6/16	COLIAS OCT 201	6330AC 6330AC 6360AC 6551AC 6551AC 6551AC 6551AC 6040AC 6551AC 6330AC 6166SC 6551AC 1020SC	SOUTHWEST AIRLINES SOUTHWEST AIRLINES EVENTBRITE - FALL GATHERING ROCK SOURCE - BARK, COMPOST HOME DEPOT STAPLES OAKLAND PACKAGING STARBUCKS HOME DEPOT - BOXES PARKING FACEBOOK BANK OF THE WEST	30.00 233.97 30.00 483.64 15.62 74.64 58.95 31.90 62.14 6.00 50.96 27.61	1,105.43
11/7/16	29170V	2020SC 1020SC	Invoice: INV51904 AQUATIC INFORMATICS. INC	2,500.00	2,500.00
11/7/16	29206	2020SC 1020SC	Invoice: FRANCISCO MORALES TURF REBATE PROGRAM	735.00	735.00
11/7/16	29207	2020SC 1020SC	Invoice: JOHAN CLAY TURF REBATE PROGRAM	864.00	864.00
11/7/16	29208	2020SC	Invoice: STEPHANIE COX	714.00	

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		1020SC	TURF REBATE PROGRAM		714.00
11/7/16	29209	2020SC 1020SC	Invoice: MIAH HOOVER TURF REBATE PROGRAM	1,059.00	1,059.00
11/7/16	29210	2020SC 1020SC	Invoice: 16-853 BARTEL ASSOCIATES	3,794.00	3,794.00
11/7/16	29211	2020SC 2020SC 2020SC 2020SC 1020SC	Invoice: BA4698 Invoice: BA4697 Invoice: BA4699 Invoice: BA4700 BLANKINSHIP & ASSOCIATES, INC.	1,250.00 1,916.67 1,950.00 1,733.33	6,850.00
11/7/16	29212	2020SC 1020SC	Invoice: HUMVEE T24406 DEPARTMENT OF GENERAL SERVICES	3,920.00	3,920.00
11/7/16	29213	2020SC 1020SC	Invoice: 1130 FORTY-TWO PACIFIC, INC.	500.00	500.00
11/7/16	29214	2020SC 2020SC 1020SC	Invoice: 82202 Invoice: 82201 HERUM \ CRABTREE \ SUNTAG	99.45 878.22	977.67
11/7/16	29215	2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 1020SC	Invoice: 5240584 Invoice: 5014386 Invoice: 2014681 Invoice: 1014765 Invoice: 4020278 Invoice: 4010122 Invoice: 6011099 Invoice: 6011098 Invoice: 4011367 Invoice: 4011368 Invoice: FCH-006131981 HOME DEPOT CREDIT SERVICE	18.95 343.04 45.49 297.07 361.60 71.02 54.68 161.58 103.19 22.83 20.00	1,499.45
11/7/16	29216	2020SC 2020SC 2020SC 1020SC	Invoice: 120793 Invoice: 120794 Invoice: 120850 JB POWER EQUIPMENT	197.13 129.65 29.26	356.04
11/7/16	29217	2020SC 1020SC	Invoice: NOV 2016 EXEC MTG JOHN D. KLUGE	100.00	100.00
11/7/16	29218	2020SC 1020SC	Invoice: 8152 MANN, URRUTIA, NELSON, CPAS	4,000.00	4,000.00
11/7/16	29219	2020SC 2020SC 1020SC	Invoice: 52052334 Invoice: 52053431 SBS LEASING A PROGRAM DE LAGE	980.93 77.67	1,058.60
11/7/16	29220	2020SC 1020SC	Invoice: 1031160229 SHANDAM CONSULTING	8,085.00	8,085.00
11/7/16	29221	2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 1020SC	Invoice: 0042-170-200 01 #2 Invoice: 0042-170-190 01 Invoice: 0042-170-220 01 Invoice: 0042-170-200 01 Invoice: 0042-170-190 01 #2 Invoice: 0042-150-110 01 Invoice: 0042-170-220 01 #2 Invoice: 0042-170-210 01 #2 Invoice: 0042-150-110 01 #2 Invoice: 0042-170-210 01 Invoice: 0042-170-230 01 Invoice: 0042-170-230 01 #2 CHARLES LOMELI, TAX COLLECTOR	1,524.80 996.53 2,033.07 1,524.80 996.53 1,013.13 2,033.07 323.88 1,013.13 323.88 1,474.21 1,474.21	14,731.24

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11/7/16	29222	2020SC 1020SC	Invoice: EXEC MTG NOV 2016 JAMES SPERING	100.00	100.00
11/7/16	29223	2020SC 2020SC 1020SC	Invoice: SCWA-IDR-2016-01 Invoice: PCT-2016-02 DONALD R. POORE, dba STREAMWISE	1,687.50 4,295.89	5,983.39
11/7/16	29224	2020SC 1020SC	Invoice: 201611-12979 TERRA REALTY ADVISORS, INC.	447.91	447.91
11/8/16	28475V	2020SC 1020SC	Invoice: STEVE FREY TURF REBATE PROGRAM	1,000.00	1,000.00
11/8/16	29225	2020SC 1020SC	Invoice: JULIE BERNARD TURF REBATE PROGRAM	1,021.50	1,021.50
11/8/16	29226	2020SC 1020SC	Invoice: PAUL MCCARRON TURF REBATE PROGRAM	476.00	476.00
11/8/16	29227	2020SC 1020SC	Invoice: PETER SCANNELL TURF REBATE PROGRAM	570.00	570.00
11/8/16	29228	2020SC 1020SC	Invoice: MIKE GUNION TURF REBATE PROGRAM	900.00	900.00
11/8/16	29229	2020SC 1020SC	Invoice: MICHAEL MITCHELL TURF REBATE PROGRAM	1,000.00	1,000.00
11/8/16	29230	2020SC 1020SC	Invoice: 0446669 ACWA JOINT POWERS INSURANCE AUTHORITY	1,463.13	1,463.13
11/8/16	29231	2020SC 1020SC	Invoice: IN-1161082637 ALPHA MEDIA II LLC	2,500.00	2,500.00
11/8/16	29232	2020SC 1020SC	Invoice: INV51904 AQUATIC INFORMATICS. INC	2,500.00	2,500.00
11/8/16	29233	2020SC 1020SC	Invoice: 09-16 004009 BANK OF THE WEST CENTRAL ACCOUNT ANALYS	2.03	2.03
11/8/16	29234	2020SC 2020SC 1020SC	Invoice: 949689 Invoice: 949686 CENTRAL AUTO PARTS	83.50 119.16	202.66
11/8/16	29235	2020U 1020SC	Invoice: 31208775 -1 CROP PRODUCTION SERVICES, INC.	1,000.00	1,000.00
11/8/16	29236	2020SC 1020SC	Invoice: 4058 EYASCO, INC.	36,786.62	36,786.62
11/8/16	29237	2020SC 1020SC	Invoice: 10-(16) DENNIS GRUNSTAD	950.00	950.00
11/8/16	29238	2020SC 2020SC 1020SC	Invoice: 381771 Invoice: 381900 HAUGHN & SON TIRE	363.05 437.69	800.74
11/8/16	29239	2020SC 1020SC	Invoice: CL35208 INTERSTATE OIL COMPANY	390.68	390.68
11/8/16	29240	2020U 1020SC	Invoice: OCT 2016 SOLANO COUNTY FLEET MANAGEMENT	846.87	846.87
11/8/16	29241	2020SC 2020SC 2020SC 1020SC	Invoice: 0004899 Invoice: 0004904 Invoice: 0004903 SOLANO IRRIGATION DISTRICT	149,463.93 187.60 9,888.43	159,539.96

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11/8/16	29242	2020SC	Invoice: 47250	168.71	
		2020SC	Invoice: 47414	84.41	
		2020SC	Invoice: 47450	34.23	
		1020SC	SUISUN VALLEY FRUIT GROWERS AS		287.35
11/8/16	29243	2020SC	Invoice: 623073	1,391.86	
		1020SC	SYAR INDUSTRIES, INC		1,391.86
11/8/16	29244	2020SC	Invoice: 0001010017	229.85	
		1020SC	VACAVILLE REPORTER		229.85
11/9/16	EFT	2020SC	Invoice: SIP PPE 11.5.16	3,383.60	
		1020SC	CALPERS		3,383.60
11/9/16	EFT	2020SC	Invoice: PEPPRA PPE 11.5.16	870.64	
		1020SC	CALPERS		870.64
11/9/16	EFT	2020SC	Invoice: PPE 11.5.16	7,598.65	
		1020SC	CALPERS		7,598.65
11/10/16	29245	2020SC	Invoice: JULY-AUGUST 2016	15,125.91	
		1010WC	PUTAH CREEK COUNCIL		15,125.91
11/10/16	EFT	2020SC	Invoice: 2016110801	180.30	
		1020SC	PAYCHEX, INC.		180.30
11/11/16	ASHLEY OCT 20	6040AC	REMOTELINK	67.95	
		6250SC	THE WEBSTRAURANT STORE	163.27	
		6040AC	REMOTELINK	38.92	
		6040AC	AMAZON	48.95	
		6040AC	REMOTELINK	18.92	
		6040AC	WIENERSCHNITZEL	80.42	
		6040AC	NATIONS	22.50	
		6040AC	REMOTELINK	33.68	
		6040AC	NAPOLI	133.89	
		6040AC	NAPOLI	92.03	
		6040AC	REMOTELINK	10.73	
		6040AC	REMOTELINK	8.69	
		6090AC	ACWA REGISTRATION FOR CHRIS LEE	40.00	
		6090AC	ACWA REGISTRATION FOR ROLAND	40.00	
			SANFORD		
		6090AC	ACWA REGISTRATION FOR THOMAS	40.00	
			PATE		
		6040AC	PAYPAL RUBBERSTAMP	43.95	
		6040AC	REMOTELINK	10.19	
		6040AC	REMOTELINK	23.47	
		6040AC	PUREGRAIN BAKERY	43.50	
		6040AC	WALMART	10.00	
		1020SC	BANK OF THE WEST		971.06
11/14/16	29246	2020SC	Invoice: NOV 2016 BOARD MTG	112.96	
		1020SC	JACK BATCHELOR		112.96
11/14/16	29247	2020SC	Invoice: A625639	120.00	
		2020SC	Invoice: A627233	540.00	
		1020SC	BSK ASSOCIATES		660.00
11/14/16	29248	2020SC	Invoice: 48864467	316.66	
		1020SC	CHEVRON AND TEXACO		316.66
11/14/16	29249	2020SC	Invoice: NOV 2016 BOARD MTG	100.00	
		1020SC	DALE CROSSLEY		100.00
11/14/16	29250	2020SC	Invoice: B50067.01-04	1,755.52	
		1020SC	ERLER & KALINOWSKI		1,755.52
11/14/16	29251	2020SC	Invoice: 72802	1,605.00	
		1020SC	GHD, INC.		1,605.00

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11/14/16	29252	2020SC 1020SC	Invoice: NOV 2016 BOARD MTG RYAN MAHONEY	100.00	100.00
11/14/16	29253	2020SC 1020SC	Invoice: NOV 2016 BOARD MTG ELIZABETH PATTERSON	132.94	132.94
11/14/16	29254	2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 1020SC	Invoice: 729307 Invoice: 729306 Invoice: 729445 Invoice: 729597 Invoice: 729701 Invoice: 730808 Invoice: 731129 Invoice: 732504 Invoice: 732503 PISANIS AUTO PARTS	122.30 59.08 34.80 45.74 34.93 45.72 42.55 3.54 338.63	727.29
11/14/16	29255	2020SC 1020SC	Invoice: NOV 2016 BOARD MTG LINDA SEIFERT	100.00	100.00
11/14/16	29256	2020SC 1020SC	Invoice: 34434 SOUTHWEST ENVIRONMENTAL	21,575.50	21,575.50
11/14/16	29257	2020SC 1020SC	Invoice: NOV 2016 BOARD MTG JAMES SPERING	100.00	100.00
11/14/16	29258	2020SC 1020SC	Invoice: 2016-17 MWQI STATE WATER PROJECT CONTRACTORS AUTHORI	5,094.00	5,094.00
11/14/16	29259	2020SC 2020SC 2020SC 1020SC	Invoice: 12080265 Invoice: 12080263 Invoice: 12080264 THE TREMONT GROUP, INC.	10.83 41.70 247.61	300.14
11/14/16	29260	2020SC 1020SC	Invoice: NOV 2016 BOARD MTG JOHN VASQUEZ	100.00	100.00
11/14/16	29261	2020SC 1020SC	Invoice: 33776 VISION TECHNOLOGY SOLUTIONS, LLC DBC	200.00	200.00
11/14/16	29262	2020SC 1020SC	Invoice: 16-81 WEST ASSOCIATES ENVIRONMENTAL ENGINEERS	4,030.00	4,030.00
11/14/16	29263	2020SC 1020SC	Invoice: NOV 2016 BOARD MTG JOHN D. KLUGE	100.00	100.00
11/14/16	EFT	6040AC 6111AC 1020SC	EMPLOYEE HANDBOOK ADMINISTRATION FSA PARTICIPANT FEE PAYCHEX, INC.	70.12 106.75	176.87
11/18/16	29264	2020SC 1020SC	Invoice: MELISSA ABUEG TURF REBATE PROGRAM	910.00	910.00
11/18/16	29265	2020SC 1020SC	Invoice: AARON GADOW TURF REBATE PROGRAM	416.00	416.00
11/18/16	29266	2020SC 1020SC	Invoice: PAULA STENZ TURF REBATE PROGRAM	1,000.00	1,000.00
11/18/16	29267	2020SC 1020SC	Invoice: JOSEPH NAVARRO TURF REBATE PROGRAM	554.00	554.00
11/18/16	29268	2020SC 1020SC	Invoice: 681-101684-01 RILEY - BATTERIES PLUS	440.06	440.06

SOLANO COUNTY WATER AGENCY
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Date	Check #	Account ID	Line Description	Debit Amount	Credit Amount
11/18/16	29269	2020SC	Invoice: A627628	120.00	
		2020SC	Invoice: A617606	120.00	
		1020SC	BSK ASSOCIATES		240.00
11/18/16	29270	2020SC	Invoice: 35627	4,925.62	
		1020SC	GROUP MOBILE		4,925.62
11/18/16	29271	2020SC	Invoice: 162221	760.00	
		2020SC	Invoice: 161790	760.00	
		1020SC	INSTITUTE FOR ENVIRONMENTAL HEALTH, INC		1,520.00
11/18/16	29272	2020SC	Invoice: 1410	5,516.00	
		1020SC	IRON SPRINGS CORPORATION		5,516.00
11/18/16	29273	2020SC	Invoice: 11092016	254.80	
		1020SC	J. RICHARD EICHMAN, CPA		254.80
11/18/16	29274	2020SC	Invoice: 63213	19,222.42	
		1020SC	NORMANDEAU ASSOCIATES, INC.		19,222.42
11/18/16	29275	2020SC	Invoice: 214928	40.36	
		2020SC	Invoice: 215034	26.86	
		2020SC	Invoice: 214999	5.31	
		2020SC	Invoice: 215070	103.08	
		2020SC	Invoice: 215260	4.83	
		2020SC	Invoice: 215744	56.18	
		2020SC	Invoice: 215391	116.98	
		2020SC	Invoice: 215378	20.39	
		2020SC	Invoice: 930151	177.00	
		2020SC	Invoice: 930191	143.51	
		2020SC	Invoice: 215628	33.31	
		2020SC	Invoice: 215612	18.80	
		2020SC	Invoice: 215599	97.76	
		2020SC	Invoice: 215572	28.43	
		2020SC	Invoice: 215600		4.28
		2020SC	Invoice: 215830	11.79	
		2020SC	Invoice: 215860		1.30
		2020SC	Invoice: 215850	79.35	
		2020SC	Invoice: 215857	1.42	
		2020SC	Invoice: 215942		13.95
		2020SC	Invoice: 215941	37.60	
		2020SC	Invoice: 215933	28.77	
		2020SC	Invoice: 215922	46.91	
		2020SC	Invoice: 215995	3.21	
		2020SC	Invoice: 216070	10.19	
		2020SC	Invoice: 216302	15.14	
		1020SC	PACIFIC ACE HARDWARE		1,087.65
11/18/16	29275V	2020SC	Invoice: 214928		40.36
		2020SC	Invoice: 215034		26.86
		2020SC	Invoice: 214999		5.31
		2020SC	Invoice: 215070		103.08
		2020SC	Invoice: 215260		4.83
		2020SC	Invoice: 215744		56.18
		2020SC	Invoice: 215391		116.98
		2020SC	Invoice: 215378		20.39
		2020SC	Invoice: 930151		177.00
		2020SC	Invoice: 930191		143.51
		2020SC	Invoice: 215628		33.31
		2020SC	Invoice: 215612		18.80
		2020SC	Invoice: 215599		97.76
		2020SC	Invoice: 215572		28.43
		2020SC	Invoice: 215600	4.28	
		2020SC	Invoice: 215830		11.79
		2020SC	Invoice: 215860	1.30	
		2020SC	Invoice: 215850		79.35
		2020SC	Invoice: 215857		1.42

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		2020SC	Invoice: 215942	13.95	
		2020SC	Invoice: 215941		37.60
		2020SC	Invoice: 215933		28.77
		2020SC	Invoice: 215922		46.91
		2020SC	Invoice: 215995		3.21
		2020SC	Invoice: 216070		10.19
		2020SC	Invoice: 216302		15.14
		1020SC	PACIFIC ACE HARDWARE	1,087.65	
11/18/16	29276	2020SC	Invoice: 0178955	103.55	
		1020SC	PETRILLO'S TIRE AND AUTO SERVICE		103.55
11/18/16	29277	2020SC	Invoice: 40281669	232.21	
		1020SC	RECOLOGY VACAVILLE SOLANO		232.21
11/18/16	29278	2020SC	Invoice: 000186	107.71	
		2020SC	Invoice: 001704	246.20	
		2020SC	Invoice: 008738	55.89	
		2020SC	Invoice: 008537	95.22	
		1020SC	SAM'S CLUB		505.02
11/18/16	29279	2020SC	Invoice: 12079925	82.29	
		1020SC	THE TREMONT GROUP, INC.		82.29
11/18/16	29280	2020SC	Invoice: 9772732033	2,255.27	
		2020SC	Invoice: 9774398585	2,411.59	
		1020SC	VERIZON WIRELESS		4,666.86
11/18/16	29281	2020SC	Invoice: 31670	544.00	
		1020SC	YOLO-SOLANO AQMD		544.00
11/18/16	29282	2020SC	Invoice: 214728	9.21	
		2020SC	Invoice: 214928	40.36	
		2020SC	Invoice: 215034	26.86	
		2020SC	Invoice: 214999	5.31	
		2020SC	Invoice: 215070	103.08	
		2020SC	Invoice: 215260	4.83	
		2020SC	Invoice: 215744	56.18	
		2020SC	Invoice: 215391	116.98	
		2020SC	Invoice: 215378	20.39	
		2020SC	Invoice: 930151	177.00	
		2020SC	Invoice: 930191	143.51	
		2020SC	Invoice: 215628	33.31	
		2020SC	Invoice: 215599	97.76	
		2020SC	Invoice: 215612	18.80	
		2020SC	Invoice: 215572	28.43	
		2020SC	Invoice: 215600		4.28
		2020SC	Invoice: 215830	11.79	
		2020SC	Invoice: 215860		1.30
		2020SC	Invoice: 215850	79.35	
		2020SC	Invoice: 215857	1.42	
		2020SC	Invoice: 215941	37.60	
		2020SC	Invoice: 215933	28.77	
		2020SC	Invoice: 215942		13.95
		2020SC	Invoice: 215922	46.91	
		2020SC	Invoice: 215995	3.21	
		2020SC	Invoice: 216070	10.19	
		2020SC	Invoice: 216302	15.14	
		1020SC	PACIFIC ACE HARDWARE		1,096.86
11/19/16	EFT	2024AC	EMPLOYEE LIABILITIES - 11.19.16	10,763.16	
		6012AC	EMPLOYER LIABILITIES - 11.19.16	1,608.63	
		1020SC	PAYROLL TAXES		12,371.79
11/22/16	29283	2020SC	Invoice: PAUL RAUPACH	571.00	
		1020SC	TURF REBATE PROGRAM		571.00
11/22/16	29284	2020SC	Invoice: LINDA MONIQUE EPPERS	561.00	
		1020SC	TURF REBATE PROGRAM		561.00

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11/22/16	29285	2020SC 1020SC	Invoice: LEILA LENDWAY TURF REBATE PROGRAM	1,000.00	1,000.00
11/22/16	29286	2020SC 1020SC	Invoice: RAJA EREIQAT TURF REBATE PROGRAM	1,000.00	1,000.00
11/22/16	29287	2020SC 1020SC	Invoice: 184075 A & L WESTERN AGRICULTURAL LABS	350.00	350.00
11/22/16	29288	2020SC 2020SC 1020SC	Invoice: 8874850 Invoice: 8874851 AT&T	188.07 523.25	711.32
11/22/16	29288V	2020SC 2020SC 1020SC	Invoice: 8874850 Invoice: 8874851 AT&T	711.32	188.07 523.25
11/22/16	29289	2020SC 1020SC	Invoice: 681-146162 RILEY - BATTERIES PLUS	217.80	217.80
11/22/16	29290	2020SC 1020SC	Invoice: 69170/1 CALIFORNIA SURVEYING & DRAFTIN	220.00	220.00
11/22/16	29291	2020SC 1020SC	Invoice: 4260866-0001 CRESCO EQUIPMENT RENTAL	488.97	488.97
11/22/16	29292	2020SC 2020SC 2020SC 1020SC	Invoice: 17-102-V-OCT 2016 Invoice: 16-026-T DEC 2016 Invoice: 16-024-O DEC 2016 DEPARTMENT OF WATER RESOURCES	50,073.00 551,158.00 207.00	601,438.00
11/22/16	29293	2020N 1020SC	Invoice: US0131647673 ERNST & YOUNG U.S. LLP	1,383.00	1,383.00
11/22/16	29294	2020SC 1020SC	Invoice: 138293 MARTIN'S METAL FABRICATION &	100.00	100.00
11/22/16	29294V	2020SC 1020SC	Invoice: 138293 MARTIN'S METAL FABRICATION &	100.00	100.00
11/22/16	29295	2020SC 1020SC	Invoice: EY00173 N&S TRACTOR	13,926.68	13,926.68
11/22/16	29296	2020SC 1020SC	Invoice: 10/11/16-11/08/16 PACIFIC GAS & ELECTRIC CO,	953.06	953.06
11/22/16	29297	2020SC 1020SC	Invoice: 40518-FRT ROSS CLARK MATERIAL HANDLING	322.71	322.71
11/22/16	29298	2020SC 1020SC	Invoice: 6801 RYAN MARTINEZ	21,440.00	21,440.00
11/22/16	29299	2020SC 1020SC	Invoice: 006492990046DEC2016 STANDARD INSURANCE COMPANY	1,300.45	1,300.45
11/22/16	29300	2020SC 1020SC	Invoice: 18192 SUMMERS ENGINEERING, INC.	3,772.31	3,772.31
11/22/16	29301	2020SC 1020SC	Invoice: 15723 VACAVILLE TRAILER SALES	719.66	719.66
11/22/16	29302	2020N 1020SC	Invoice: 66758 WIENHOFF DRUG TESTING	210.00	210.00
11/22/16	29303	2020SC 2020SC 1020SC	Invoice: SCWA-FY2016-17_2 Invoice: LPCCC-FY2016-17_2 WILDLIFE SURVEY & PHOTO SERVICES	14,971.41 4,551.36	19,522.77

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Date	Check #	Account ID	Line Description	Debit Amount	Credit Amount
11/23/16	EFT	2020SC 1020SC	Invoice: SIP PPE 11.19.16 CALPERS	3,383.59	3,383.59
11/23/16	EFT	2020SC 1020SC	Invoice: PPE 11.19.16 CALPERS	7,598.65	7,598.65
11/23/16	EFT	2020SC 1020SC	Invoice: PEPRA PPE 11.19.16 CALPERS	870.64	870.64
11/25/16	BARICH OCT 20	6310AC 6300AC 1020SC	CHEVRON AGILIS LINUX BANK OF THE WEST	20.27 91.96	112.23
11/25/16	CUETARA OCT	6144SC 6144U 6310AC 6144SC 6144SC 6144SC 6310AC 6144U 6144SC 1020SC	A1 - MILMAC OREILLY AUTO CHEVRON DICKSPORTING GOODS CAMPBELL SCIENTIFIC LOWES CHEVRON AUTOZONE FASTENAL BANK OF THE WEST	272.47 163.96 67.08 129.43 342.20 85.43 73.29 184.98 81.87	1,400.71
11/25/16	EFT	2020SC 1020SC	Invoice: 2016112201 PAYCHEX, INC.	195.60	195.60
11/25/16	FLORENDO OCT	6330AC 6330AC 6330AC 6330AC 6330AC 6551AC 6551AC 6330AC 6551AC 6330AC 1020SC	SOUTHWEST - SACRAMENTO - SAN DIEGO SOUTHWEST SO PT HOTEL AND CASINO - LAS VEGAS YANNI GREEK GRILL SACRAMENTO PARKING ASSOC OF CA WATER EB WATERSHED TOWN AND COUNTRY PAYPAL - AQUACRAFT SACRAMENTO PARKING BANK OF THE WEST	263.96 30.00 302.40 18.39 40.00 40.00 10.00 15.31 50.00 12.00	782.06
11/25/16	FOWLER OCT 20	6181SC 6181SC 6181SC 6181SC 6181SC 6181SC 1020SC	PVC FITTINGS DIRECT - MK RITTENHOUSE AND SONS - MANIFOLD LINE STRAINER COMMERCIAL INDUSTRIAL ROCK - SUPPLIES US PLASTIC CORP - SUPPLIES 6181SC US PLASTIC CORP US PLASTIC CORP BANK OF THE WEST	244.36 305.60 36.85 130.23 63.15 84.27 16.79	881.25
11/25/16	JONES OCT 2016	6183SC 6183SC 6230SC 6310AC 6140SC 6149SC 6181SC 6230SC 6183SC 1020SC	YOLO COUNTY LANDFILL YOLO COUNTY LANDFILL WM SUPERCENTER BERRYESSA SPORTING GOODS ROSS CLARK MATERIAL SPORTSMANS WAREHOUSE A&M AUTO DISMANTLER BERRYESSA SPORTING GOODS YOLO COUNTY LANDFILL BANK OF THE WEST	37.96 43.16 97.27 50.63 496.75 223.58 90.85 35.58 69.16	1,144.94
11/25/16	LEE OCT 2016	6330AC 6330AC 6410AC 1020SC	HILTON CONCORD SOUTHWEST ADOBE CREATIVE CLOUD BANK OF THE WEST	216.80 275.96 49.99	542.75
11/25/16	PATE OCT 2016	6330AC 6330AC	CITY OF SAC PARKING CITY OF SAC PARKING	13.50 9.00	

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		6330AC	CITY OF SAC PARKING	9.00	
		6330AC	BEST WESTERN SAC	109.45	
		6041AC	AMAZON	4.20	
		2023AC	SERVICE CLEANERS - REIMBURSED	39.00	
		6041AC	AMAZON	136.25	
		2023AC	KAISER - REIMBURSED	15.00	
		1020SC	BANK OF THE WEST		335.40
11/25/16	RABIDOUX OCT	6330AC	CITY OF SAC PARKING	20.00	
		6041AC	TARGET	49.12	
		6330AC	CITY OF SAC PARKING	7.50	
		6360AC	ABAG INC	325.00	
		6360AC	ABAG INC	325.00	
		6360AC	ABAG INC	325.00	
		1020SC	BANK OF THE WEST		1,051.62
11/25/16	SANFORD OCT	6090AC	ACWA REGISTRATION FOR PETE SANCHEZ	695.00	
		6045AC	SAILOR JACKS	35.42	
		6045AC	CITY OF SAC PARKING	19.50	
		1020SC	BANK OF THE WEST		749.92
11/25/16	SNYDER OCT 20	6300AC	PISANIS AUTO PARTS	65.51	
		6310AC	CHEVRON	21.09	
		6330AC	ACE PARKING	14.00	
		6670U	SAFETY SIGN	141.93	
		6310AC	CHEVRON	20.91	
		6670U	HOME DEPOT	31.27	
		6230SC	HOME DEPOT	61.40	
		6310AC	CHEVRON	70.58	
		6042AC	OPTICSPLANET	140.11	
		1020SC	BANK OF THE WEST		566.80
11/25/16	WILLINGMYRE	6181SC	COMMERCIAL INDUSTRIAL ROCK	468.28	
		6330AC	CITY OF SAC PARKING	13.50	
		6199SC	BEL-METRIC	112.32	
		6040AC	STAPLES	61.16	
		6330AC	ACE PARKING SAC	30.00	
		6040AC	MARYS PIZZA SHACK	203.39	
		1020SC	BANK OF THE WEST		888.65
11/28/16	29212V	2020SC	Invoice: HUMVEE T24406		3,920.00
		1020SC	DEPARTMENT OF GENERAL SERVICES	3,920.00	
11/28/16	29295V	2020SC	Invoice: EY00173		13,926.68
		1020SC	N&S TRACTOR	13,926.68	
11/28/16	29298V	2020SC	Invoice: 6801		21,440.00
		1020SC	RYAN MARTINEZ	21,440.00	
11/28/16	29304	2020SC	Invoice: 6801	21,440.00	
		1020SC	RYAN MARTINEZ		21,440.00
11/28/16	29304V	2020SC	Invoice: 6801		21,440.00
		1020SC	RYAN MARTINEZ	21,440.00	
11/28/16	29305	2020SC	Invoice: 6801	21,440.00	
		1020SC	RYAN MARTINEZ		21,440.00
11/29/16	29306	2020SC	Invoice: ICON OWNER POOL 1 SF	5,000.00	
		1020SC	TURF REBATE PROGRAM		5,000.00
11/29/16	29307	2020SC	Invoice: SUAN NEUHAUS	348.00	
		1020SC	TURF REBATE PROGRAM		348.00
11/29/16	29308	2020SC	Invoice: DARREL NYSTROM	891.00	
		1020SC	TURF REBATE PROGRAM		891.00
11/29/16	29309	2020SC	Invoice: CARRIE DODSON	792.00	

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		1020SC	TURF REBATE PROGRAM		792.00
11/29/16	29310	2020SC 1020SC	Invoice: NANCY CURREY TURF REBATE PROGRAM	960.00	960.00
11/29/16	29311	2020SC 1020SC	Invoice: DENNIS SCHLOSSER TURF REBATE PROGRAM	1,467.00	1,467.00
11/29/16	29312	2020SC 1020SC	Invoice: THERESE VARNEY TURF REBATE PROGRAM	918.00	918.00
11/29/16	29313	2020SC 1020SC	Invoice: DUANE MAGNO TURF REBATE PROGRAM	1,500.00	1,500.00
11/29/16	29314	2020SC 1020SC	Invoice: JOE LUCCHIO TURF REBATE PROGRAM	540.00	540.00
11/29/16	29315	2020SC 1020SC	Invoice: JOHN WORKING TURF REBATE PROGRAM	820.00	820.00
11/29/16	29316	2020SC 1020SC	Invoice: JOSHUA THALLER TURF REBATE PROGRAM	565.00	565.00
11/29/16	29317	2020SC 1020SC	Invoice: BARBARA BENNETT TURF REBATE PROGRAM	651.00	651.00
11/29/16	29318	2020SC 1020SC	Invoice: A628739 BSK ASSOCIATES	120.00	120.00
11/29/16	29319	2020SC 1020SC	Invoice: 5-615-99777 FEDEX EXPRESS	421.09	421.09
11/29/16	29320	2020SC 1020SC	Invoice: 0007592838-2 PACIFIC GAS & ELECTRIC CO,	6,490.00	6,490.00
11/29/16	29321	2020SC 2020SC 1020SC	Invoice: 34434 Invoice: 34440 SOUTHWEST ENVIRONMENTAL	44,891.00	21,575.50 23,315.50
11/29/16	29322	2020SC 2020SC 2020SC 1020SC	Invoice: 0002 5383 882 Invoice: 0002 5243 190 Invoice: 0002 5475 280 STATE BOARD OF EQUALIZATION	4,037.33 1,810.99 62,740.24	68,588.56
11/29/16	29323	2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 2020SC 1020SC	Invoice: 1672762651 Invoice: 1678496161 Invoice: 1680111581 Invoice: 1683174261 Invoice: 1683965811 Invoice: 31909 Invoice: 1686603541 Invoice: 1688690181 Invoice: 32256 STAPLES	101.88 90.93 27.82 174.07 19.95 16.71 47.96 56.06	27.82 507.56
11/29/16	29324	2020N 1020SC	Invoice: ST7-36 SWIFT	28,505.44	28,505.44
11/30/16	29325	2020SC 1020SC	Invoice: HUMVEE TITLE DMV	507.00	507.00
Total				1,550,662.29	1,550,662.29

ACTION OF
SOLANO COUNTY WATER AGENCY

DATE: December 8, 2016

SUBJECT: Purchase of 2016 Vrisimo 84FH Flail Mower for ASV Tractor

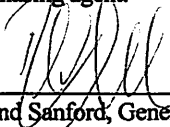
RECOMMENDATION: Approve purchase of 2016 Vrisimo 84FH Flail Mower for ASV Tractor

FINANCIAL IMPACT: Total cost of \$13,926.68 to be paid through the combination of Westside IRWM grant funds obtained by the Lower Putah Creek Coordinating Committee (\$10,000) and the Lower Putah Creek Coordinating Committee's FY 2016-2017 Equipment budget (\$3,926.68)

BACKGROUND:

The Lower Putah Creek Coordinating Committee (LPCCC) is engaged in large scale invasive weed control projects in the Interdam Reach and from the Putah Diversion Dam to the City of Winters. To date these projects have typically involved weed spraying with herbicides and burning of weed residues. Increasingly stringent regulatory restrictions, to protect air quality or avoid wildfire, have made burning impractical. Mulching in place with a flail mower is proving to be an economical alternative to burning.

The selected mower was formerly known by the brand "Rock Hound" and is capable of grinding tough woody weeds like Tamarisk, which makes it particularly well suited to the work on Putah Creek. The mower is sold through dealers at the manufacture's set price. The Westside IRWM has awarded a grant of \$10,000 toward the purchase of the mower and the LPCCC has authorized the expenditure of \$3,926.68 from the LPCCC's Equipment budget to complete the purchase. The Water Agency is a member of the LPCCC and serves as the LPCCC's fiscal, and in this case, purchasing agent.

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 December 8, 2016 by the following vote.

Ayes:

Noes:

Abstain:

Absent:

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

Dec.2016.lt5C

File: V

SOLANO COUNTY WATER AGENCY



MEMORANDUM

TO: Board of Directors

FROM: Roland Sanford, General Manager

DATE: December 2, 2016

SUBJECT: December General Manager's Report

Water Supply Projections for 2017

On November 28, 2016 the Department of Water Resources announced initial water supply allocations for the State Water Project (SWP). The initial allocation for the North Bay Aqueduct is 25 percent of full Table A deliveries. Initial SWP allocations are typically very low due to the uncertainty regarding precipitation/runoff predictions for the balance of the rainy season, so the initial 25 percent allocation is not surprising. As of this writing most if not all of Northern California has experienced above average precipitation, while the southern Sierra has experienced at or near average precipitation. It's still early in the rainy season, but at least we are off to a good start.

The water supply picture for the Solano Project is much clearer and positive. While there has been comparatively little reservoir inflow to date - which is typical for the months of October and November- the surrounding watershed has received at or near average rainfall and in the absence of a prolonged dry spell, should begin to experience significant runoff in December. Given that Lake Berryessa storage is currently in excess of 850,000 acre-feet, it is anticipated that full allocations will be delivered in 2017, even if the balance of the rainy season is well below average.

Chinook Salmon in Lower Putah Creek

For the second consecutive year large numbers of adult Chinook salmon have migrated into Lower Putah Creek. Based on visual surveys, an estimated 700 adult Chinook salmon entered Lower Putah Creek last winter - by far the most salmon in recent memory, if not ever. Already, this year it is estimated that approximately 1,400 adult Chinook salmon have found their way into Lower Putah Creek. Prior to 2015, no more than a few dozen adult salmon had been observed in Lower Putah Creek in any given year.



It remains unclear why so many adult salmon have migrated into Lower Putah Creek these last two years. Most if not all of the adult salmon observed to date are thought to be hatchery strays. Assuming these strays successfully spawn and their progeny grow to adults, it is conceivable that a self-sustaining “native” population could become established in Lower Putah Creek.

The presence of so many salmon as well as other native fish species in Lower Putah Creek, following implementation of the 2000 Putah Creek Accord, is remarkable and not without potentially significant implications. The creek’s fish populations and the Putah Creek Accord has been the subject, at least in part, of several academic papers and in many respects, the creek has become a living laboratory of statewide if not national significance. With respect to water management, Lower Putah Creek is arguably a model for demonstrating how a judicious application of water combined with physical habitat improvements can achieve significant ecological restoration goals.

**ACTION OF
SOLANO COUNTY WATER AGENCY**

DATE: December 8, 2016

SUBJECT: Adoption of SCWA 2016-2025 Strategic Plan

RECOMMENDATION: Adopt SCWA 2016-2025 Strategic Plan

FINANCIAL IMPACT: None

BACKGROUND:

On November 16, 2016 the Board held a workshop to review the draft SCWA 2016-2025 Strategic Plan. Minor revisions to the document were requested and have subsequently been incorporated into the attached "final draft" of the SCWA 2016-2025 Strategic Plan. The SCWA 2016-2025 Strategic Plan is now ready for adoption by the SCWA Board. *(copies of the Strategic Plan can be downloaded at <http://www.scwa2.com/> - go to the "Resources Management" tab and select "Strategic Plan Stakeholder Meetings" and click on SCWA Strategic Plan v8 (12-01-16) (ID 211922).)*

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 December 8, 2016 by the following vote.

Ayes:

Noes:

Abstain:

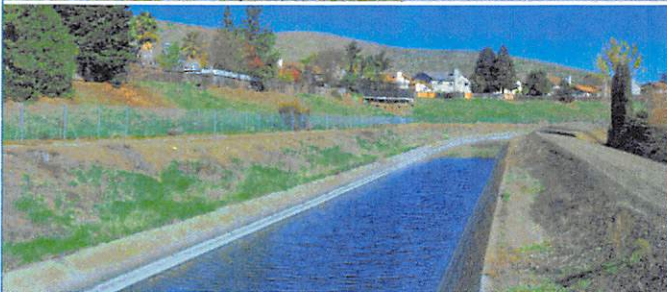
Absent:

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



Solano County Water Agency

SCWA 2016 – 2025 Strategic Plan



Prepared by:

Kennedy/Jenks Consultants

December 2016

ACKNOWLEDGEMENTS

Prepared by:

The Solano County Water Agency Strategic Planning Stakeholder Group

With the assistance of:

Kennedy/Jenks Consultants

JM Consultants

The Consultants would like to thank the dedicated members of the Solano County Water Agency Strategic Planning Stakeholder Group and SCWA staff for their time and thoughtful participation in this Strategic Plan. The consultants also appreciate the input from the Advisory Commission in developing the implementing strategies. This Plan is a true collaborative effort.

Cover Photos (Clockwise from top left):

Glory Hole spill (2006), Lake Berryessa (*photo credit: Thomas Pate*)

Inter-dam reach of Putah Creek (*photo credit: SCWA*)

Putah Diversion Dam and Putah South Canal headworks (*photo credit: SCWA*)

Putah South Canal, Fairfield (*photo credit: SCWA*)

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I. EXECUTIVE SUMMARY

This Strategic Plan defines a clear vision for the management of water resources within the Solano County Water Agency's (SCWA) scope of responsibility. The Plan highlights important goals and objectives needed to accomplish the mission and vision of SCWA through 2025.

Introduction

At the recommendation of the Advisory Commission, the SCWA Board of Directors established a Strategic Planning Stakeholder Group (SPSG) to develop a Strategic Plan for SCWA. The purpose of the 2016 Strategic Plan is to provide guidance to the Board and SCWA staff in directing SCWA policy and resources to address current and future issues within SCWA's purview. All aspects of SCWA's responsibilities and operations were examined. Specific topics addressed included:

- Water Supply Management
- Groundwater Management
- Watershed Management
- Flood Management
- Delta Management
- Policy Management
- Resource Management

Stakeholder Process

A total of twenty-one (21) individuals participated in the SPSG. A list of participants can be found in Appendix F. The SPSG met monthly from September 2015 through May 2016. To establish a starting point, the SPSG participated in a brainstorming exercise to identify issues, challenges, trends and opportunities that could positively or negatively affect SCWA in the foreseeable future. The SPSG then developed goals and objectives to address those issues and challenges. The Advisory Commission assisted with the development of implementing strategies to ensure they were practical and implementable. The resulting Strategic Plan is a true collaborative effort.

Strategic Plan content generally flows from the general to the specific. At the highest level are the Mission, Vision and Values statements, followed by the goals which represent specific targets that achieve the organization's vision. More specific objectives and implementing strategies are then developed to describe how the goals will be achieved. The Mission, Vision, Values and ten specific Goals that were developed by the SPSG are described below. In

addition, the ongoing objectives, as well as additional high priority objectives – both which represent the near-term action items - are listed after the Goals. A complete list of Goals, Objectives and Strategies can be found in Section V.

Mission Statement

Solano County Water Agency exists to ensure sustainable, reliable high-quality water resources and flood management for the benefit of the residents, businesses, industries and agricultural communities in Solano County.

Vision Statement

Solano County Water Agency is a widely respected, innovative leader in California water resource management.

Goals

- Goal #1: **Water Supply Management:** Optimize the management of the County's current and future water resources in a sustainable manner.
- Goal #2: **Water Management Infrastructure:** Optimize the use of SCWA managed infrastructure.
- Goal #3: **Flood Management:** Implement SCWA's role in flood management.
- Goal #4: **Water Resource Resiliency:** Protect access to reliable water supplies under current and future stressors.
- Goal #5: **Education and Outreach:** Provide and maintain communication of SCWA activities and responsibilities.
- Goal #6: **Data Management:** Maintain data that supports effective, efficient water supply and reliability.
- Goal #7: **Natural Resources Stewardship:** Develop comprehensive approaches to the stewardship of natural resources.
- Goal #8: **Groundwater Management:** Implement SCWA's role in Sustainable Groundwater Management Act (SGMA).
- Goal #9: **Advocacy:** Expand proactive advocacy at regional, state and federal levels to achieve the objectives of SCWA.
- Goal #10: **Funding and Staffing:** Provide the necessary resources to continue to achieve SCWA's mission and values efficiently and effectively in a fiscally responsible manner.

Summary of Ongoing and High Priority Objectives

Section V provides the detailed description of the 36 objectives and 112 strategies that address the 10 goals described above. The first table below extracts those objectives that are standard, ongoing activities that are either already occurring and should continue, or new actions for incorporation to SCWA routine activities. The second table lists additional high priority objectives. These objectives should be the current focus of SCWA activities.

Ongoing Objectives

	Goals and Objectives	Priority	Timeframe
Goal #1: Water Supply Management: Optimize the management of the County's current and future water resources in a sustainable manner.			
A	Identify current supply and demand requirements - and project future water resources needs.	High	Ongoing
C	Develop a SCWA Water Management Plan to ensure a sustainable water supply.	High	Ongoing
Goal #3: Flood Management: Implement SCWA's role in flood management.			
C	Assist local interests (Participating Agencies and landowners) in developing flood management plans and improvements outside of SCWA direct responsibility.	Med	Ongoing
Goal #4: Water Resource Resiliency: Protect access to reliable water supplies under current and future stressors.			
B	Protect water rights and supplies.	High	Ongoing
C	Monitor emerging challenges to SCWA water supply reliability and promote advocacy of SCWA interests.	High	Ongoing
Goal #5: Education and Outreach: Provide and maintain communication of SCWA activities and responsibilities.			
A	Develop an ongoing program to keep Board Members informed of SCWA responsibilities as well as regional, state and federal issues impacting SCWA.	High	Ongoing

	Goals and Objectives	Priority	Timeframe
Goal #6:	Data Management: Maintain data that supports effective, efficient water supply and reliability.		
A	Maintain an integrated water-related data management system.	Med	Ongoing
C	Continue to compile and report for CA Statewide Groundwater Elevation Monitoring (CASGEM).	Med	Ongoing
Goal #7:	Natural Resources Stewardship: Develop comprehensive approaches to the stewardship of natural resources.		
A	Implement the Solano Multi-species Habitat Conservation Plan (HCP).	High	Ongoing
B	Support and promote Lower Putah Creek Coordinating Committee (LPCCC) programs and projects.	Med	Ongoing
C	Protect SCWA water supply sources.	Med	Ongoing
D	Identify other habitat and watershed stewardship opportunities and implement activities where feasible.	Med	Ongoing
E	Monitor and assess outside planning efforts for influences on SCWA's habitat stewardship activities.	Med	Ongoing
Goal #9:	Advocacy: Expand proactive advocacy at regional, state and federal levels to achieve the objectives of SCWA.		
C	Actively promote legislative / advocacy priorities.	High	Ongoing
Goal #10:	Funding and Staffing: Provide the necessary resources to continue to achieve SCWA's mission and values efficiently and effectively in a fiscally responsible manner.		
A	Prepare SCWA Fiscal Plan(s) that includes normal operational costs and anticipated costs to implement the strategic plan goals and objectives.	High	Ongoing

	Goals and Objectives	Priority	Timeframe
C	Provide necessary and sufficient staffing and resources to maintain program activities and to achieve the goals and objectives of strategic plan priorities.	High	Ongoing
D	Optimize opportunities for cost-savings strategies.	High	Ongoing

Additional High Priority Objectives

	Goals and Objectives	Priority	Timeframe
Goal #1: Water Supply Management: Optimize the management of the County's current and future water resources in a sustainable manner.			
B	Match available water supplies to appropriate uses.	High	Short
Goal #2: Water Management Infrastructure: Optimize the use of SCWA managed infrastructure.			
A	Develop the North Bay Aqueduct Alternate Intake Project (NBA AIP) in coordination with Napa participants.	High	Long
Goal #4: Water Resource Resiliency: Protect access to reliable water supplies under current and future stressors.			
A	Promote regional water supply and flood management interests in Yolo Bypass/Cache Slough Complex.	High	Long
Goal #5: Education and Outreach: Provide and maintain communication of SCWA activities and responsibilities.			
B	Evaluate, and where appropriate, coordinate public awareness water-related programs throughout the County.	High	Short

	Goals and Objectives	Priority	Timeframe
Goal #8:	Groundwater Management: Implement SCWA's role in Sustainable Groundwater Management Act (SGMA).		
A	Participate in ongoing development of Solano Sub-basin Groundwater Sustainability Agency (GSA).	High	Short
Goal #9:	Advocacy: Expand proactive advocacy at regional, state and federal levels to achieve the objectives of SCWA.		
A	Develop legislative / advocacy priorities.	High	Short
B	Prepare legislative / advocacy materials.	High	Short
D	Monitor CA Water Fix and EcoRestore processes to avoid or minimize the impacts to Solano water interests.	High	Long
E	Promote the Lower Sacramento-Delta North Region Corridor Management Framework (CMF).	High	Long
Goal #10:	Funding and Staffing: Provide the necessary resources to continue to achieve SCWA's mission and values efficiently and effectively in a fiscally responsible manner.		
B	Evaluate Reserve Policy and amend as appropriate to be fiscally responsible and defensible.	High	Short



SPSG developing Goals and Objectives

photo credit: SCWA

II. INTRODUCTION

Water is a fundamental ingredient and determinant of our quality of life in Solano County. The natural features of the Delta, agricultural production, and the County's urban communities are all shaped in part by the availability of water. We are fortunate, and it is by no means an accident, that Solano County has one of the more reliable water supplies in the State. Today we collectively benefit from the foresight and fortitude of those who championed construction of the Solano Project, the North Bay Aqueduct, the Ulati Flood Control Project, and defended our water rights – projects that require substantial long-term planning and coordination.

The Solano County Water Agency provides the necessary forum and resources to accomplish long-term goals and protect the County's water resources for the benefit of the residents, businesses, industries and agricultural communities in Solano County. The management of water resources, as a discipline, continues to expand in scope and evolve in concert with changing societal values. These changes have and will continue to be reflected by the scope of the Solano County Water Agency's activities and the composition of its staff. This strategic plan defines a clear vision for the Solano County Water Agency through 2025.

Solano County Water Agency

SCWA is an independent special district created by the California State Legislature for the "conservation, development, control, and use of water for the public good and for the protection of life and property therein¹." The Agency boundary "consists of all territory within the County of Solano lying within the exterior boundaries thereof, the area of the Davis Campus of the University of California, and that portion of the territory of any participating agency lying outside the exterior boundaries of the County of Solano²."

SCWA's Participating Agencies are:

- Solano County
- Seven cities in Solano County:
 - City of Benicia
 - City of Dixon
 - City of Fairfield
 - City of Rio Vista

¹ California Water Code Appendix Section 64-20

² California Water Code Appendix Section 64-30

- City of Suisun City
- City of Vacaville
- City of Vallejo
- Three agricultural irrigation districts:
 - Solano Irrigation District
 - Reclamation District 2068
 - Maine-Prairie Water District

The primary charge of SCWA falls into two main categories: water supply and flood management. The water supply function consists of providing wholesale, untreated water supply to cities, districts and state agencies. Additionally, SCWA leads efforts to protect rights to existing sources of water and participates in efforts to secure new sources of water for water supply reliability and future growth in the County.

The Agency holds as executors, long-term master water supply contracts with U.S. Bureau of Reclamation (USBR) for the federal Solano Project and CA Department of Water Resources for the State Water Project on behalf of those participating agencies with subsidiary water supply service agreements with SCWA. SCWA provides wholesale water service to the participating agencies only, it does not operate any water treatment plants nor have any direct retail customers.

SCWA currently provides municipal and industrial water supplies to the cities of Benicia, Fairfield, Suisun City, Vacaville, and Vallejo; and agriculture water to Maine Prairie Water District and Solano Irrigation District. The cities of Dixon and Rio Vista have future water supply contract options. SCWA also has water supply contracts with the University of California at Davis and California State Prisons. Reclamation District 2068 does not receive water directly from SCWA.

SCWA is responsible for operations and maintenance of two enterprise flood management systems: the Ulati Flood Control Project and the Green Valley Flood Control Project. SCWA is also involved in numerous regional flood management activities within the County of Solano including levees bordering the Yolo Bypass in and adjacent to the County of Solano. Other flood management matters within the boundaries of SCWA, beyond the influence of SCWA managed facilities, are directed to SCWA for investigation and development of potential solutions. Additionally, SCWA also performs habitat conservation and watershed management activities.

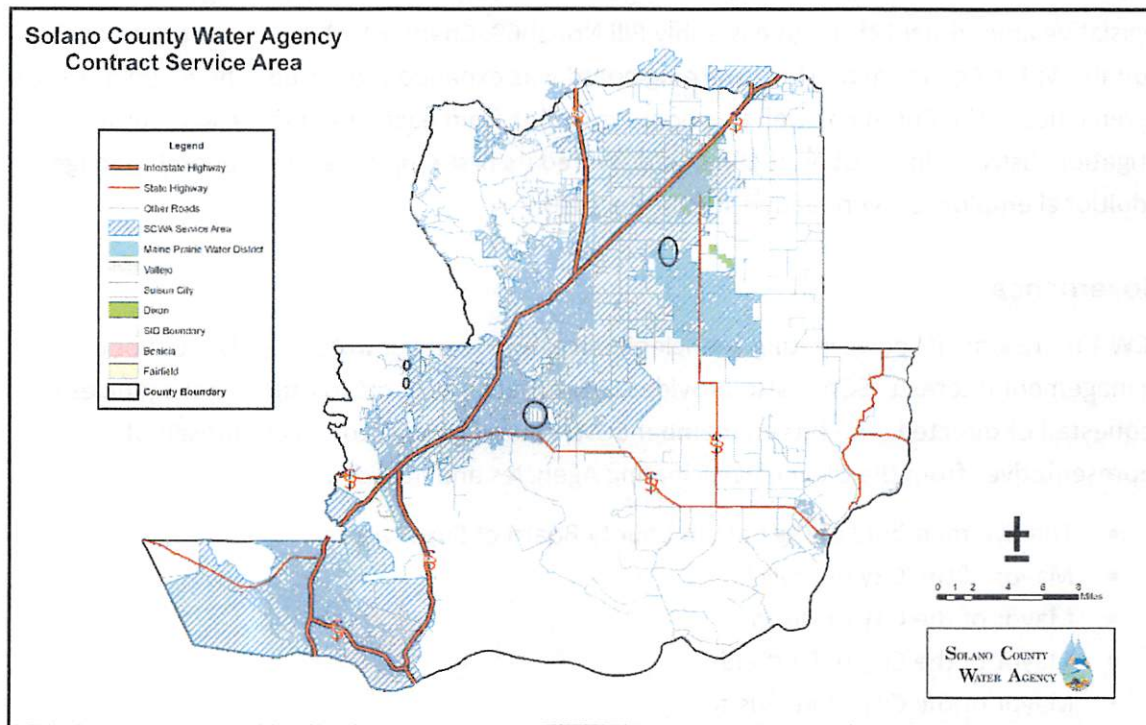
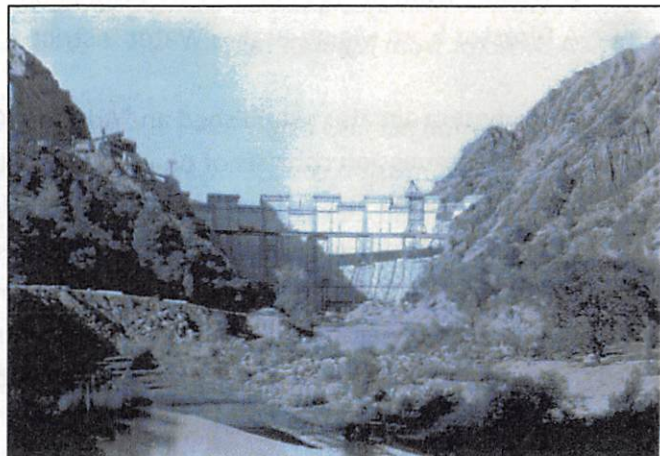


Figure 1: Solano County Water Agency Contract Service Area

History

The Solano County Flood Control and Water Conservation District (SCFC&WCD) was formed in 1951 by an Act of the State Legislature. The full text of the legislative act, as amended, is in the California Water Code Appendix Chapter 64 entitled “Solano County Water Agency Act.” As originally established, the Board of Supervisors of Solano County was the governing board (ex-officio) of the SCFC&WCD. The County Transportation Department and other County departments provided staff and administrative services. The first major action of the SCFC&WCD was to contract with the USBR for water supply from the Solano Project.



Monticello Dam under Construction Nov. 27, 1956

Photo credit: E.S. Ensor

In 1989, the name of SCFC&WCD was changed to the Solano County Water Agency by legislative amendment through Assembly Bill No. 2069, Chapter 573, Section 5 entitled: "Solano County Water Agency Act." The governing board was expanded to include the mayors from all seven cities in the County as well as a board member from each of the three agricultural irrigation districts. In October of 1989, SCWA hired its first employee, the General Manager. Additional employees were added starting in 1990.

Governance

SCWA represents its participating agencies in local and regional water supply and flood management interests. SCWA also provides collaborative support to other local agencies as requested or directed. The fifteen member SCWA Board of Directors is comprised of representatives from the eleven Participating Agencies and includes:

- The five members of the Solano County Board of Supervisors
- Mayor of the City of Benicia
- Mayor of the City of Dixon
- Mayor of the City of Fairfield
- Mayor of the City of Rio Vista
- Mayor of City of Suisun City
- Mayor of the City of Vacaville
- Mayor of the City of Vallejo
- A Director from The Solano Irrigation District
- A Trustee from Reclamation District No. 2068
- A Director from Maine-Prairie Water District

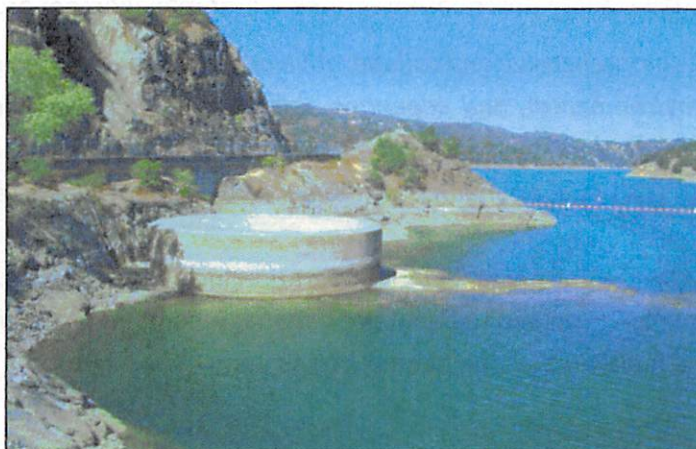
The 1989 formation act also established an "Advisory Commission" to advise the Board of Directors. The Commission consists of one representative appointed by each of the Cities of Benicia, Dixon, Fairfield, Rio Vista, Suisun City, Vacaville, and Vallejo. Solano County, Solano Irrigation District, Maine Prairie Water District, and Reclamation District No. 2068 also each appoint one representative. Representation consists of the chief administrative officers or chief technical staffs that meet monthly to deliberate on current and emerging water and flood issues of interest to Solano County and develops collaborative recommendations to the Board of Directors for consideration.

2005 Strategic Plan

The [2005 Strategic Plan](#) was a subset of the Solano County Integrated Regional Water Management (IRWM) Plan. The Strategic Plan was created by a Stakeholder Group who established strategic issues and strategy statements that were applicable for both the region and SCWA. The 2005 Strategic Plan included only actions where SCWA has a major role,

whereas the IRWM Plan includes all actions that the Solano agencies could implement. The Strategic Plan also included conclusions to aid in SCWA policy development.

The 2005 Strategic Plan recognized that while many potential actions fall under SCWA's mission, it only had the resources to undertake a fraction of those actions at any given time. The purpose of the 2005 Strategic Plan was to create a roadmap for SCWA that identified the immediate and high priority actions for commitment of agency resources.



"Glory Hole" Spillway at Lake Berryessa (2008) – 28 ft. diameter

Photo credit: Thomas Pate

The 10-year plan prioritized forty-two potential actions as being in Tier 1, Tier 2 or Tier 3. Tier 1 actions were identified as the highest priority and anticipated to be accomplished using existing resources. There was general agreement that while the 2005 Strategic Plan was a useful tool with most of the recommended actions implemented, it was out-of-date and was no longer useful in assisting the Board to prioritize SCWA resources.

2016 Strategic Plan

The 2016 Strategic Plan comes at a critical time of change in the County, both in the way water is - and will be - managed in California, and in ushering in new leadership at SCWA. A decision was made that this Strategic Plan will focus on opportunities, current issues and potential future stressors relevant to SCWA itself, independent of IRWM planning.

The purpose of the 2016 Strategic Plan is to provide guidance to the Board and SCWA staff in directing SCWA policy and resources to address current and future issues within SCWA's purview. Topics addressed include:

- Water Supply Management
- Groundwater Management
- Watershed Management
- Flood Management
- Delta Management
- Policy Management
- Resource Management

This plan is based on the principle of *Integrated Water Management*. The [California Water Plan 2013 Update](#) describes integrated water management as:

A comprehensive and collaborative approach for managing water to concurrently achieve social, environmental, and economic objectives. This integrated approach delivers higher value for investments by considering all interests, providing multiple benefits, and working across jurisdictional boundaries at the appropriate geographic scale.

SCWA water management integration includes regional water supply reliability and water quality, local and regional flood management, and stewardship of regional natural resources such watershed and habitat ecosystems.



Photos courtesy of the City of Vacaville and Solano Irrigation District

III. PLANNING PROCESS

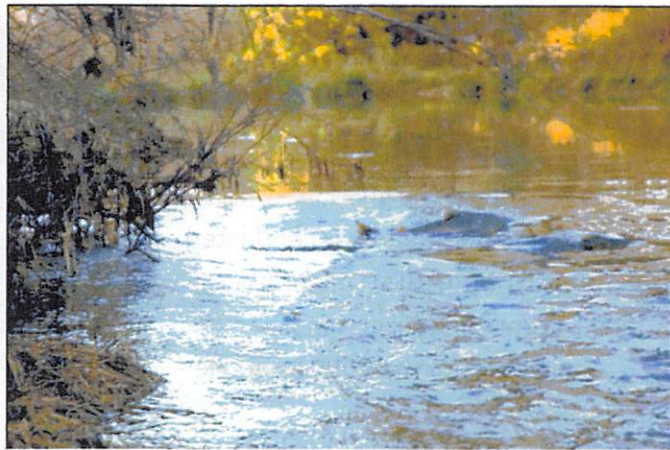
Stakeholder Group

At the recommendation of the Advisory Commission (Appendix A), the SCWA Board established a Strategic Planning Stakeholder Group (SPSG) on March 12, 2015 (Appendix B). The SPSG was directed by the Board to proceed with issuing a Request for Qualifications (RFQ) and soliciting proposals from consulting firms to assist the SPSG with completing a new Strategic Plan.

The purpose of the SPSG was to develop a Strategic Plan for SCWA.

The goals of the SPSG were to:

- Work collaboratively with other SPSG members who represent SCWA member agencies and other water users and interests throughout the entire Solano County.
- Develop a common understanding of current and future water needs and resources in Solano County.
- Support development of integrated water resource management objectives that protect resources in a sustainable manner, ensure local control, address current and future local water needs, and support the economy and the environment.
- Negotiate in good faith to achieve consensus on the development of a Strategic Plan that will guide the management of surface and groundwater into the future.



Salmon spawning in Putah Creek Photo credit: R. Marovich

The membership of the SPSG was originally designed as:

- Up to five SCWA Board members with one of the Board members appointed as Chair;
- Five Advisory Commission members selected by the Commission;
- The Chair of the Agency's Flood Control Advisory Committee; and
- A staff representative from the Fairfield Suisun Sewer District and the Vallejo Sanitation and Flood Control District.

John Kluge, Director, Solano Irrigation District, was appointed by the Board as Chair of the SPSG.

The Board later amended participation in the SPSG to include representatives from any of the Participating Agencies and SCWA staff.

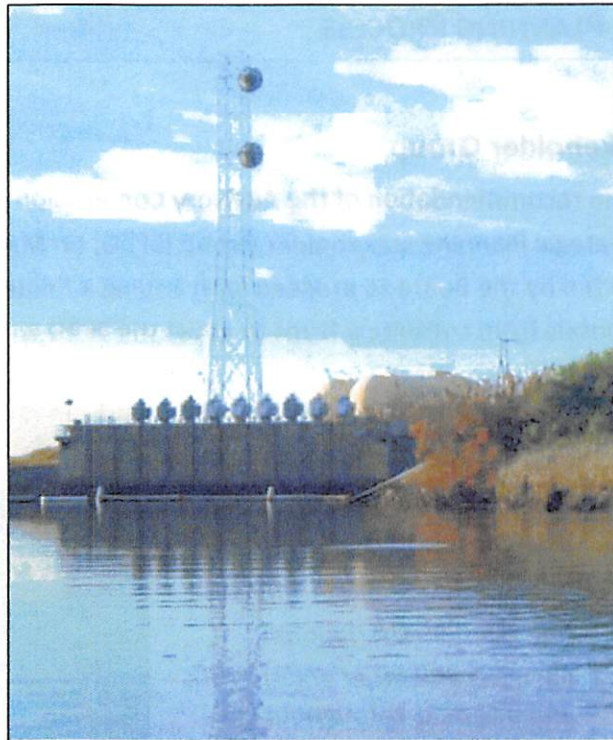
Consultants

SCWA contracted with Kennedy/Jenks Consultants to prepare the 2016 Strategic Plan. The consultant team includes Sachi Itagaki, Kennedy/Jenks and Jodie Monaghan, JM Consultants.

Stakeholder Assessment

Prior to convening the SPSG, a stakeholder assessment was conducted. The purpose of the assessment was to:

- Review the efficacy and outcomes of the 2005 Strategic Plan,
- Understand stakeholder expectations of the 2016 Strategic Plan, and
- Assess the challenges currently facing SCWA.



North Bay Aqueduct Intake, Barker Slough Pumping Plant

Photo credit: SCWA

Twenty-six (26) confidential interviews were conducted in September and October 2015 with key stakeholders representing:

- Solano County
- 7 cities in Solano County
- Solano Irrigation District
- RD2068
- Maine-Prairie Water District
- Solano Resource Conservation District (RCD)
- Suisun RCD
- SCWA Flood Control Advisory Committee
- SCWA Water Advisory Commission
- SCWA Staff

Questionnaires (Appendix C) were provided in advance to the 26 interviewees (appendix D). A summary of key assessment findings can be found in Appendix E.

Stakeholder Process

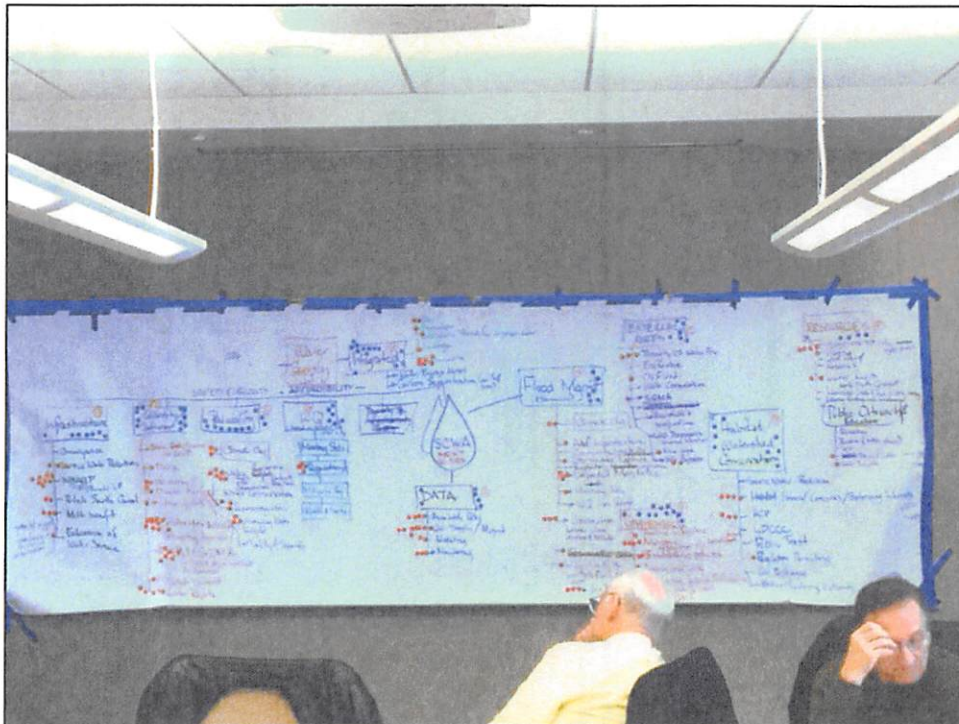
Twenty-one (21) individuals participated in the development of the Strategic Plan. A list of participants can be found in Appendix F. Ten meetings were held monthly from September 2015 through May 2016. A workbook was used to guide the group through the process. The group thoughtfully and diligently developed the goals and objectives of this Plan. A final meeting to approve the draft and recommend Board acceptance was held on August 1, 2016.

Charter

A Charter (Appendix G) was developed and approved by the SPSG. The purpose of the Charter was to delineate the purpose and goals of the group, membership, ground rules, decision-making protocols, media conventions and public engagement procedures.

Mind Map

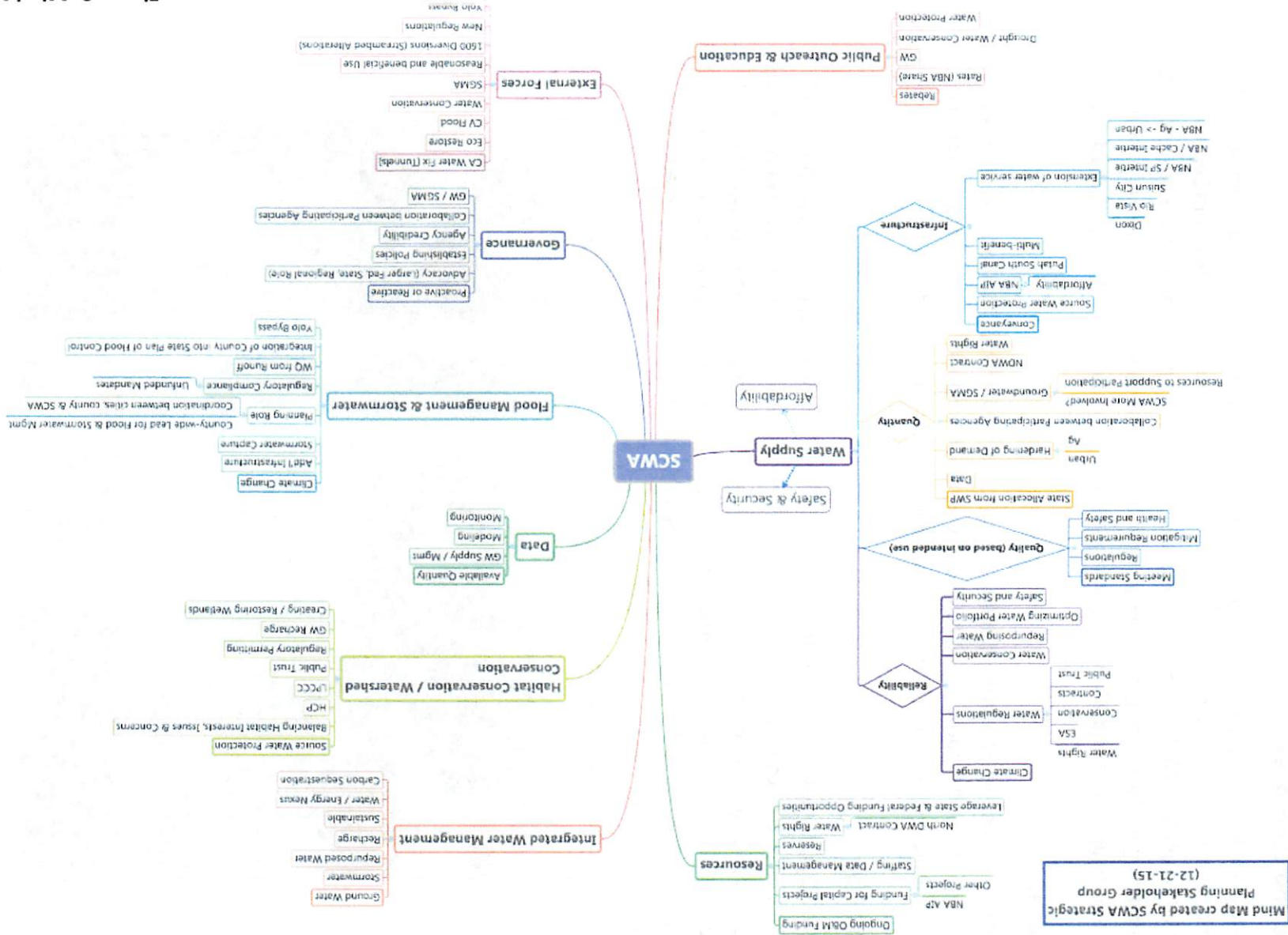
The SPSG participated in a brainstorming exercise to identify issues, challenges, trends and opportunities that could positively or negatively affect SCWA. The information was graphically recorded on a Mind Map. The purpose of the Mind Map (Figure 2) is to identify all factors that influence SCWA, then have the participants “vote” to further identify topics of highest priority. The results were used as a basis for developing the goals, objectives and implementing strategies.



SPSG Members studying completed Mind Map

Photo credit: John Vasquez

Figure 2: Mind Map



Planning Horizon

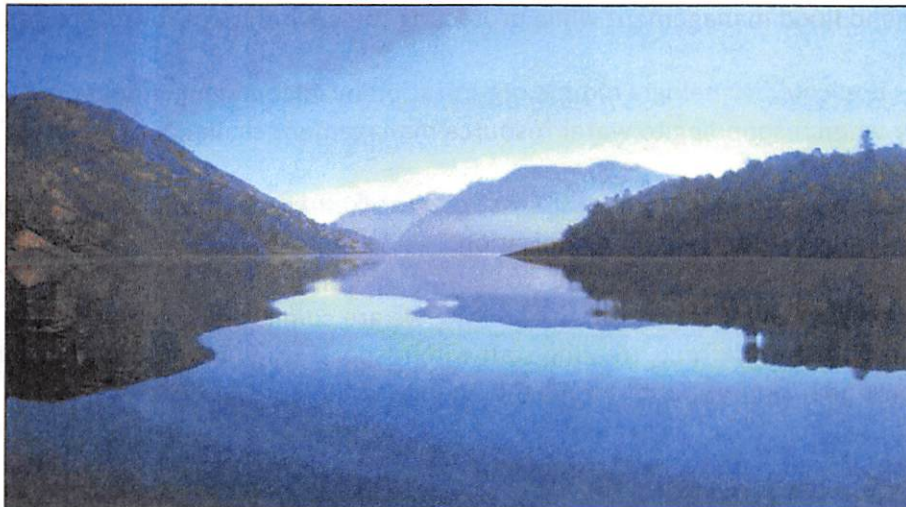
The Board directed this to be a 10-year Strategic Plan.

Adaptive Management: Monitor, Review and Update

An important element of the Strategic Plan is the recognition that conditions change over a 10-year period. Wet or dry years affect water supply, state regulations can affect water deliveries, and funding drives SCWA's ability to achieve the objectives in this Plan. These are just a few of the conditions that, if changed, could significantly impact both the goals and the priorities.

If conditions change, it is suggested that SCWA management, in concert with the Advisory Commission, review the results of the review and make recommendations to the Board to update the Strategic Plan. The SPSG included several review points to ensure the Strategic Plan is appropriately guiding the Board:

- Objective 1.C recommends the development of a Water Management Plan to ensure a sustainable water supply and mandates the plan be updated every 5 years.
- Objective 3.C calls for monitoring emerging challenges to SCWA's water supply reliability.
- Objective 6.C involves monitoring and assessing outside planning efforts to protect SCWA's water supply sources.
- Strategy 9.A.3 recommends monitoring current legislative activities and recommending modifications to the Legislative Platform as appropriate.



Lake Berryessa

Photo credit: Ken Davis

IV. MISSION, VISION, AND VALUES

Mission Statement

Solano County Water Agency exists to ensure sustainable, reliable high-quality water resources and flood management for the benefit of the residents, businesses, industries and agricultural communities of County of Solano.

Vision Statement

Solano County Water Agency is a widely respected, innovative leader in California integrated water resource management.

Values Statements

Our agency is committed to work collaboratively for the benefit of our participating agencies.

The agency will work proactively and ethically to identify and lead in the adaption to opportunities and threats that impact agency resources.

The agency strives to provide excellent service to all stakeholders.

The agency will manage the natural resources with which it is entrusted to sustainably provide water supply and flood management while protecting the environment for future generations.

The agency is dedicated to being a nimble organization by encouraging innovation, creativity and ingenuity when responding to water resource management challenges.

The agency is committed to fostering the trust of all stakeholders through accountability, integrity, transparency and open communication.

The agency's most valuable resource is its people; we are committed to creating and empowering a diverse workforce, treating staff with respect. Empowerment can inspire staff to use their talents and commitment to fulfill the Agency's mission.

V. 2016 STRATEGIC PLAN GOALS, OBJECTIVES AND IMPLEMENTATION STRATEGIES

Introduction

All aspects of SCWA's responsibilities and operations were examined. The following areas were identified as strategic topics to be addressed in this Plan:

- Water Supply Management
 - Includes all sources of water including surface water, groundwater, stormwater, drainage, waste water, recycled water, etc.
- Water Management Infrastructure
 - Includes reservoirs, intakes, facilities, conveyance system, etc.
- Flood Management
 - Recognizes localized flooding often covers multiple jurisdictions.
- Water Resource Resiliency
 - Resiliency is defined as having the ability and resources to withstand stressors (ex. drought, curtailment of supply, regulatory restrictions, climate change etc.)
- Education and Outreach
 - Includes education and outreach to Board members, Participating Agencies and the general public.
- Data Management
 - Refers to SCWA as a data repository.
- Natural Resource Stewardship
 - Acknowledges that watershed health is directly tied to habitat health.
- Groundwater Management
 - Acknowledges that SCWA will likely play an important role in groundwater management though that role is not yet defined.
- Advocacy
 - Recognizes the need for SCWA to broaden its area of influence.
- Funding and Staffing
 - Identifies the resources needed to implement this Strategic Plan.

Key Terms

There is often confusion between goals and objectives. Whereas a goal is a description of a destination, an objective is a measure of the progress that is needed to get to the destination.

Goals

A goal is a specific target, an end result or something to be desired. It is a major step in solving a problem and achieving the vision of the organization.

In the strategic planning context, a goal is a place where the organization wants to be - in other words a destination. Goals identify what the organization sees as the outcome of their business efforts. They describe what the organization as a whole needs to achieve to be successful over the life of the strategic plan.

Objectives

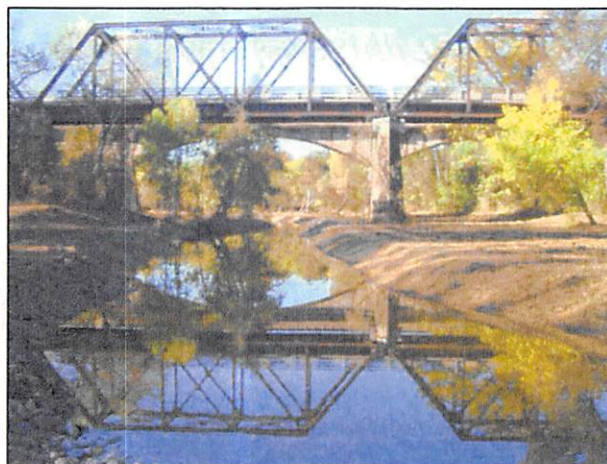
An objective is a measure of change in order to bring about the achievement of the goal. The attainment of each goal may require a number of objectives to be reached. An important principle in formulating objectives is that they should be SMART (Specific, Measurable, Achievable, Realistic and be Time-bound. Words like 'increase' and 'reduce' indicate change.

Strategies

Put simply, a strategy is something that must be done to achieve the objective (the measure of change). The setting of goals and objectives is not, in and of itself, sufficient to ensure that the organization will progress towards its goals. Strategies are where organizations put their efforts in order to achieve the desired changes that will bring about the achievement of the organization's goals.

In Summary:

- A goal is where you want to be, a destination.
- An objective is the direction you have to take to get to your destination.
- A strategy is an action plan of what you have to do to get there.



Winters Putah Creek Park Restoration Project Photo credit: Thomas Pate

Goals and Objectives - Summary and Prioritization

The goals, which are numeric, are presented in no particular order and without respect to priority. The objectives, which are alphabetical within each goal, are prioritized and noted with the anticipated timeframe and level of effort to complete.

Legend:

Priority: Low, Medium, High

Timeframe: Short Term (1 – 2 years); Medium Term (3 – 5 years); Long Term (5 – 10+ years); and Ongoing (standard perpetual activities that are either already occurring and should continue or new actions for incorporation to SCWA routine activities.)

Level of Effort: Low, Medium, High

	Goals and Objectives	Priority	Timeframe	Level of Effort
Goal #1: Water Supply Management: Optimize the management of the County's current and future water resources in a sustainable manner.				
A	Identify current supply and demand requirements - and project future water resources needs.	High	Ongoing	Med
B	Match available water supplies to appropriate uses.	High	Short	Med
C	Develop a SCWA Water Management Plan to ensure a sustainable water supply.	High	Ongoing	Med
D	Evaluate and develop additional water sources as necessary.	Med	Long	Med
Goal #2: Water Management Infrastructure: Optimize the use of SCWA managed infrastructure.				
A	Develop the North Bay Aqueduct Alternate Intake Project (NBA AIP) in coordination with Napa participants.	High	Long	High
B	Optimize conveyance capabilities to match current and future needs.	Med	Med	Low
C	Inventory facilities and their operational status.	Med	Med	Low
D	Identify and evaluate needs for infrastructure improvement.	Med	Med	Med

	Goals and Objectives	Priority	Timeframe	Level of Effort
Goal #3: Flood Management: Implement SCWA's role in flood management.				
A	Identify local and regional flood management facilities relevant to SCWA and Solano County interests. (Note: Solano interest include anything that impacts Solano County.)	Med	Short	Low
B	Define SCWA's role in flood management.	Med	Short	Med
C	Assist local interests (Participating Agencies and landowners) in developing flood management plans and improvements outside of SCWA direct responsibility.	Med	Ongoing	Low
Goal #4: Water Resource Resiliency: Protect access to reliable water supplies under current and future stressors.				
A	Promote regional water supply and flood management interests in Yolo Bypass/Cache Slough Complex.	High	Long	High
B	Protect water rights and supplies.	High	Ongoing	High
C	Monitor emerging challenges to SCWA water supply reliability and promote advocacy of SCWA interests.	High	Ongoing	Med
Goal #5: Education and Outreach: Provide and maintain communication of SCWA activities and responsibilities.				
A	Develop an ongoing program to keep Board Members informed of SCWA responsibilities as well as regional, state and federal issues impacting SCWA.	High	Ongoing	Med
B	Evaluate, and where appropriate, coordinate public awareness of water-related programs throughout the County.	High	Short	Med
C	Enhance SCWA website.	Med	Short	Low

	Goals and Objectives	Priority	Timeframe	Level of Effort
Goal #6: <i>Data Management</i>: Maintain data that supports effective, efficient water supply and reliability.				
A	Maintain an integrated water-related data management system.	Med	Ongoing	Med
B	Evaluate the need for a comprehensive Solano County water-related data management system.	Med	Short	Med
C	Continue to compile and report for CA Statewide Groundwater Elevation Monitoring (CASGEM).	Med	Ongoing	Low
Goal #7: <i>Natural Resources Stewardship</i>: Develop comprehensive approaches to the stewardship of natural resources.				
A	Implement the Solano multi-species Habitat Conservation Plan (HCP).	High	Ongoing	High
B	Support and promote Lower Putah Creek Coordinating Committee (LPCCC) programs and projects.	Med	Ongoing	Med
C	Protect SCWA water supply sources.	Med	Ongoing	Med
D	Identify other habitat and watershed stewardship opportunities and implement activities where feasible.	Med	Ongoing	Low
E	Monitor and assess outside planning efforts for influences on SCWA's habitat stewardship activities.	Med	Ongoing	Med
Goal #8: <i>Groundwater Management</i>: Implement SCWA's role in Sustainable Groundwater Management Act (SGMA).				
A	Participate in ongoing development of Solano Sub-basin Groundwater Sustainability Agency (GSA).	High	Short	High
B	Support Groundwater Management Plan Development.	Med	Med	Med

	Goals and Objectives	Priority	Timeframe	Level of Effort
Goal #9: <i>Advocacy</i>: Expand proactive advocacy at regional, state and federal levels to achieve the objectives of SCWA.				
A	Develop legislative / advocacy priorities.	High	Short	Low
B	Prepare legislative / advocacy materials.	High	Short	Med
C	Actively promote legislative / advocacy priorities.	High	Ongoing	High
D	Monitor CA Water Fix and EcoRestore processes to avoid or minimize the impacts to Solano water interests.	High	Long	Med
E	Promote the Lower Sacramento-Delta North Region Corridor Management Framework (CMF).	High	Long	High
Goal #10: <i>Funding and Staffing</i>: Provide the necessary resources to continue to achieve SCWA's mission and values efficiently and effectively in a fiscally responsible manner.				
A	Prepare SCWA Fiscal Plan(s) that includes normal operational costs and anticipated costs to implement the strategic plan goals and objectives.	High	Ongoing	Low
B	Evaluate Reserve Policy and amend as appropriate to be fiscally responsible and defensible.	High	Short	Med
C	Provide necessary and sufficient staffing and resources to maintain program activities and to achieve the goals and objectives of strategic plan priorities.	High	Ongoing	Med
D	Optimize opportunities for cost-savings strategies.	High	Ongoing	Low

Strategic Plan Goals, Objectives and Strategies

The inherent challenge in developing goals, objectives and strategies is that goals are frequently interdependent. It is difficult to plan water supply management without considering resiliency, infrastructure or natural resources stewardship. It is equally challenging to create objectives and strategies that address a single goal. Many of the objectives and strategies are cross-cutting – that is, they can provide benefits for more than one goal. An example of multiple benefits would be the implementation of the North Bay Aqueduct Alternate Intake. The Alternate Intake Project could address water quality, water supply and water resiliency as well as infrastructure and habitat stewardship.

As with the summary, the complete list of goals, which are numeric, are presented in no particular order and without respect to priority. The objectives, which are alphabetical within each goal, are prioritized and noted with the anticipated timeframe and level of effort to complete. The implementing strategies are numerical within each objective.

Legend:

Priority: Low, Medium, High

Timeframe: Short Term (1 – 2 years); Medium Term (3 – 5 years); Long Term (5 – 10+ years); and Ongoing (standard perpetual activities that are either already occurring and should continue or new actions for incorporation to SCWA routine activities.)

Level of Effort: Low, Medium, High

Goal #1: **Water Supply Management:** Optimize the management of the County's current and future water resources in a sustainable manner.

Object-ive	Strat-egy	Objectives and Strategies	Pri	Time frame	LOE
A		Identify current supply and demand requirements - and project future water resources needs.	High	On-going	Med
	1	Compile a County-wide inventory of current supplies and demand.			
	2	Monitor and assess groundwater conditions.			
	3	Improve understanding of relationship between surface water and ground water.			
	4	Develop a County-wide water balance, synthesizing current supply/demand data.			

Objective	Strategy	Objectives and Strategies	Pri	Time frame	LOE
	5	Develop supply and demand projections using different assumptions.			

B	Match available water supplies to appropriate uses.		High	Short	Med
	1	Identify current opportunities for cost-savings and cost efficiencies in water operations.			
	2	Identify future opportunities for coordinated operations including: <ul style="list-style-type: none"> Water transfers (also see Goal 2) Stormwater / Flood Management Water Reuse / Recycling 			

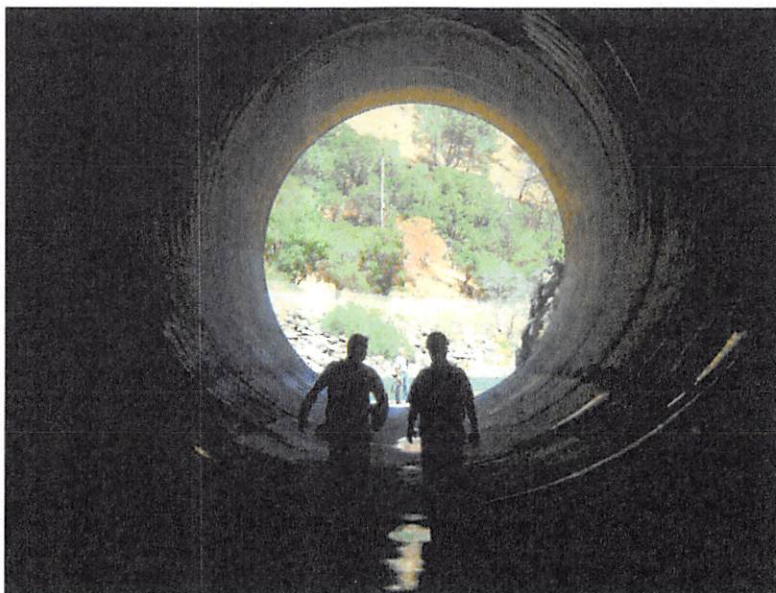
C	Develop a SCWA Water Management Plan to ensure a sustainable water supply.		High	On-going	Med
	1	Identify issues to achieve sustainable water supply.			
	2	Identify critical data gaps from supply and demand projections and water sources.			
	3	Prioritize short-term and long-term implementation actions and prepare Management Plan.			
	4	Update Management Plan every 5 years.			

D	Evaluate and develop additional water sources as necessary.		Med	Long	Med
	1	Quantify water source including reliability, needed infrastructure and life-cycle costing.			
	2	Analyze and identify locally cost-effective implementation actions.			
	3	Determine possible new water sources.			

Goal #2: Water Management Infrastructure: Optimize the use of SCWA managed infrastructure.

Object-ive	Strat-egy	Objectives and Strategies	Pri	Time frame	LOE
A		Develop the North Bay Aqueduct Alternate Intake Project (NBA AIP) in coordination with Napa participants.	High	Long	High
	1	Complete Environmental Documents.			
	2	Determine financial implications (capital/O&M) and evaluate the cost effectiveness of the project.			
	3	Develop Outreach Plan.			
	4	Advocate for ecosystem-benefit funding; identify and secure funding.			
	5	Complete permitting and implement project.			
B		Optimize conveyance capabilities to match current and future needs.	Med	Med	Low
	1	Determine feasible opportunities to integrate SP/NBA water conveyance.			
	2	Determine feasible opportunities to integrate SCWA-managed sources (NBA, Solano Project) with other sources (recycled water, stormwater, drainage and groundwater, et al).			
	3	Identify opportunities for coordinated operations including: <ul style="list-style-type: none"> a. Water conveyance b. Stormwater/flood management c. Water reuse/recycling 			

Object-ive	Strat-egy	Objectives and Strategies	Pri	Time frame	LOE
C	Inventory facilities and their operational status.		Med	Med	Low
	1	Create an inventory of all water related facilities that serve Solano County and include their operational status.			
	2	Identify any redundant infrastructure and assess the need for the redundancy.			
	3	Explore alternative beneficial uses of existing infrastructure.			
D	Identify and evaluate needs for infrastructure improvement.		Med	Med	Med
	1	Determine the need for improvements and/or additions to the infrastructure.			
	2	Determine project life cycle costs and benefits and prioritize projects based on cost-effectiveness and need.			
	3	Create a 10-year implementation plan for infrastructure improvements based on the priorities			



Glory Hole Spillway Outlet

Photo credit: SCWA

Goal #3: Flood Management: Implement SCWA's role in flood management.

Object-ive	Strat-egy	Objectives and Strategies	Pri	Time frame	LOE
A	Inventory local and regional flood management and planning efforts.		Med	Short	Low
	1	Identify local, regional, and statewide flood management facilities relevant to SCWA and Solano interests. (Note: Solano interests include anything that impacts Solano County.)			
	2	Develop an atlas to map and describe all flood management infrastructure in Solano County.			
	3	Inventory and index existing flood studies.			
	4	Identify and evaluate existing joint-use of facilities and multi-benefit opportunities (e.g. water supply, groundwater recharge, etc.)			
	5	Identify and prioritize outstanding concerns (e.g., climate change and sea-level rise), additional infrastructure and study needs.			
B	Define SCWA's role in flood management.		Med	Short	Med
	1	Convene a stakeholder policy-level Flood Management Committee to develop guidelines and criteria for SCWA's role in flood management.			
	2	Identify scope, responsibility, and liability of SCWA and Participating Agencies regarding local flood management.			
	3	Identify collective responsibilities and evaluate potential synergies for efficient utilization of collaborative resources between SCWA and Participating Agencies.			

Objective	Strategy	Objectives and Strategies	Pri	Time frame	LOE
	4	Evaluate current SCWA flood management policies, programs, and level of funding for effectiveness and recommendations for improvements.			
	5	Develop local flood management policy recommendations for Board review and approval.			
	6	Coordinate and implement adopted flood management policy.			

C	Assist local interests (Participating Agencies and landowners) in developing flood management plans and improvements outside of SCWA direct responsibility.		Med	On-going	Low
	1	Provide expertise and technical support to develop feasible, cost-effective flood management solutions.			
	2	Consider funding assistance for flood management improvements in accordance with approved policies.			
	3	Provide assistance to locate and secure state or federal grant funding where appropriate.			



Ulatris Flood Control Channel at Nut Tree Road, Vacaville (Dec 2005)
Photo credit: Thomas Pate

Goal #4: Water Resource Resiliency: Protect access to reliable water supplies under current and future stressors.

Object-ive	Strat-egy	Objectives and Strategies	Pri	Time frame	LOE
A		Promote regional water supply and flood management interests in Yolo Bypass/Cache Slough Complex.	High	Long	High
	1	Participate in appropriate forums to the benefit of SCWA and Solano County stakeholders.			
	2	Determine strategic issues and priorities and identify needed staffing and resources.			
	3	Update Board as strategies and priorities evolve.			

B		Protect water rights and supplies.	High	On-going	High
	1	Maintain and enhance SWP/NBA Reliability by: <ul style="list-style-type: none"> a. Continue participation in State Water Project Contractor forums b. Implement the NBA AIP 			
	2	Protect Solano Project reliability including: <ul style="list-style-type: none"> a. Complete Solano Project municipal water rights licensing process b. Implement Solano Habitat Conservation Plan (HCP) c. Monitor and comply with Putah Creek Accord. d. Support Lower Putah Creek Coordinating Committee (LPCCC) and promote success. e. Monitor potential ESA and water rights concerns. 			
	3	Promote protection of North Delta Water Agency contract(s).			
	4	Protect Area of Origin (AOO) status.			
	5	Protect other water rights and permit holders.			

Object- ive	Strat- egy	Objectives and Strategies	Pri	Time frame	LOE
C		Monitor emerging challenges to SCWA water supply reliability and promote advocacy of SCWA interests.	High	On- going	Med
	1	Continue participation in the Bay Area and Westside IRWM programs.			
	2	Support the collaborative regional and individual interests of the Lower Sacramento-Delta North Region Corridor Management Framework (CMF) coalition members and the adopted values and principles of the CMF.			



Putah South Canal Terminal Reservoir, Solano Project

Photo Credit: Ken Davis

Goal #5: Education and Outreach: Provide and maintain communication of SCWA activities and responsibilities.

Object-ive	Strat-egy	Objectives and Strategies	Pri	Time frame	LOE
A		Develop an ongoing program to keep Board Members informed of SCWA responsibilities as well as regional, state and federal issues impacting SCWA.	High	On-going	Med
	1	Develop and maintain a briefing book for Board members.			
	2	Maintain an electronic resources library.			
	3	Provide links to relevant source information in board agenda packets.			
B		Evaluate, and where appropriate, coordinate public awareness of water-related programs throughout the County.	High	Short	Med
	1	Inventory existing SCWA and Participating Agencies outreach programs.			
	2	Identify additional needs and develop Outreach Plan.			
	3	Implement the Outreach Plan to promote the accomplishments of SCWA programs.			
	4	Coordinate outreach efforts and assistance programs including water conservation, storm water, and other emerging issues.			
	5	Engage the public, where appropriate, in water issues affecting Solano County.			
C		Enhance SCWA website.	Med	Short	Low
	1	Evaluate the need for improvements to the existing SCWA website.			
	2	Implement improvements and maintain website regularly with current up-to-date information.			

Goal #6: Data Management: Maintain data that supports effective, efficient water supply and reliability.

Objective	Strategy	Objectives and Strategies	Pri	Time frame	LOE
A		Maintain an integrated water-related data management system.	Med	On-going	Med
	1	Develop data management policies and guidelines.			
	2	Provide integrated system in a user-friendly format for use by Participating Agencies (internal) and the public (external) consistent with policies and guidelines.			
B		Evaluate the need for a comprehensive Solano County water-related data management system.	Med	Short	Med
	1	Advisory Commission to assess the needs for a comprehensive data management system.			
	2	Evaluate data sources and need for additional data.			
	3	Evaluate existing data system and hardware for future needs.			
C		Continue to compile and report for CA Statewide Groundwater Elevation Monitoring (CASGEM).	Med	On-going	Low



Operations controls, PSC Headworks – Old (left) and Upgrade (right) Photo credit: SCWA

Goal #7: Natural Resources Stewardship: Develop comprehensive approaches to the stewardship of natural resources.

Object-ive	Strat-egy	Objectives and Strategies	Pri	Time frame	LOE
A		Implement the Solano Multi-Species Habitat Conservation Plan (HCP).	High	On-going	High
	1	Release, finalize and adopt all documents.			
	2	Identify and provide required SCWA resources for HCP Implementation.			
B		Support and promote Lower Putah Creek Coordinating Committee (LPCCC) programs and projects.	Med	On-going	Med
	1	Continue to provide staff support and agency resources to implement stream restoration projects.			
	2	Develop streamlined permitting processes to implement projects.			
C		Protect SCWA water supply sources.	Med	On-going	Med
	1	Continue development and support of the SCWA Lake Berryessa Outreach Program.			
	2	Continue monitoring and develop protections for Lake Berryessa from the threat of invasive species introduction (e.g., Quagga/Zebra mussels, etc.)			
	3	Monitor and develop opportunities to address threats to Barker Slough including water quality and endangered species regulations.			
D		Identify other habitat and watershed stewardship opportunities and implement activities where feasible.	Med	On-going	Low
	1	Identify current activities and opportunities.			

Object-ive	Strat-egy	Objectives and Strategies	Pri	Time frame	LOE
	2	Prioritize and implement activities and opportunities.			
	3	Monitor and develop future opportunities.			

E	Monitor and assess outside planning efforts for influences on SCWA's habitat stewardship activities.		Med	On-going	Med
	1	Participate in local and regional planning efforts considered for implementation in or potentially affecting Solano County.			
	2	Identify and address impacts to SCWA stewardship activities.			
	3	Develop opportunities to implement SCWA stewardship priorities.			



Putah Creek dam removal
Photo credit: SCWA



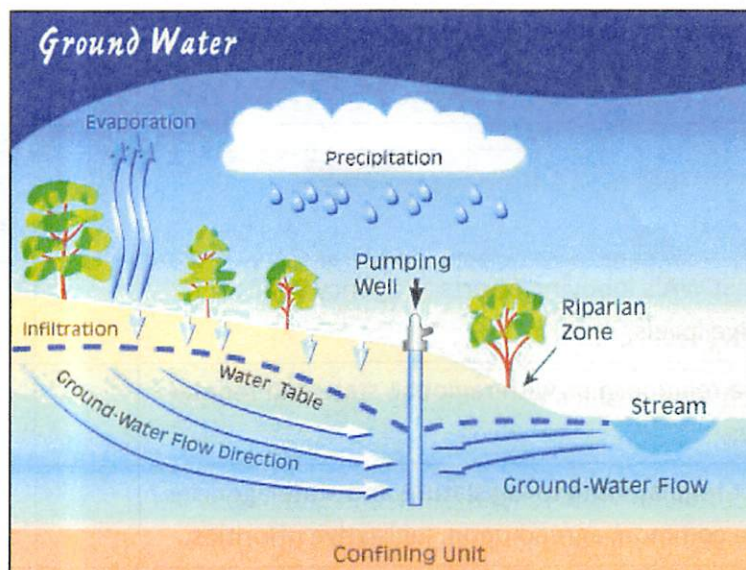
Chinook salmon spawning in Putah Creek restoration site
Photo credit: Thomas Pate



Reclaimed refuse from Lower Putah Creek restoration site
Photo credit: Thomas Pate

Goal #8: Groundwater Management: Implement SCWA's role in Sustainable Groundwater Management Act (SGMA).

Objective	Strategy	Objectives and Strategies	Pri	Time frame	LOE
A		Participate in ongoing development of Solano Sub-basin Groundwater Sustainability Agency (GSA).	High	Short	High
	1	Provide support and attend SGMA discussions.			
	2	Maintain a strong objective relationship with municipal and agricultural stakeholders.			
	3	Determine SCWA's role in Solano Sub-basin GSA and periodically assess continued role.			
B		Support Groundwater Management Plan Development.	Med	Med	Med
	1	Provide services and staff support upon request and approval.			
	2	Provide a regional groundwater data repository, as appropriate.			



Groundwater system schematic

Photo credit: Google

Goal #9: Advocacy: Expand proactive advocacy at regional, state and federal levels to achieve the objectives of SCWA.

Object-ive	Strat-egy	Objectives and Strategies	Pri	Time frame	LOE
A	Develop legislative / advocacy priorities.		High	Short	Low
	1	Conduct annual workshop to develop Legislative Platform with SCWA Board and Staff to set water-related legislative priorities for regional, state and federal interests that benefit Solano County.			
	2	Define structure and develop guidelines for the function of an active SCWA Legislative Committee.			
	3	Monitor current activities and recommend strategic modifications to Legislative Platform.			
B	Prepare legislative / advocacy materials.		High	Short	Med
	1	Develop and maintain advocacy materials annually to include current legislative priorities.			
	2	Retain professional public relation and outreach firms, where appropriate, to prepare targeted advocacy materials.			
C	Actively promote legislative / advocacy priorities.		High	On-going	High
	1	Elevate SCWA's lobbying efforts at agency and legislative levels.			
	2	Enhance relationships with regional, state and federal agencies.			
	3	Conduct regular visits to legislature and state agencies to share common, agreed upon, legislative priorities.			

Object-ive	Strat-egy	Objectives and Strategies	Pri	Time frame	LOE
	4	Explore potential benefits of federal lobbying.			
	5	Prepare annual summary report of outcomes.			

D	Monitor CA Water Fix and EcoRestore processes to avoid or minimize the impacts to Solano water interests.		High	Long	Med
	1	Follow and participate in relevant discussions and forums.			

E	Promote the Lower Sacramento-Delta North Region Corridor Management Framework (CMF).		High	Long	High
	1	Support the collaborative regional and individual interests of the CMF coalition members and the adopted values and principles of the CMF.			
	2	Participate and collaborate with state and federal agencies to develop and implement locally supportable, mutually-beneficial solutions that meet multiple objectives.			
	3	Advocate for federal and state support and assistance to implement the NBA AIP as part of the regional public benefit ecosystem solutions.			
	4	Advocate for support and assistance to implement Rio Vista flood protection due to public need for proposed improvements for increased flood capacity through the Yolo Bypass.			

Goal #10: Funding and Staffing: Provide the necessary resources to continue to achieve SCWA's mission and values efficiently and effectively in a fiscally responsible manner.

Object-ive	Strat-egy	Objectives and Strategies	Pri	Time frame	LOE
A		Prepare SCWA Fiscal Plan(s) that includes normal operational costs and anticipated costs to implement the strategic plan goals and objectives.	High	On-going	Low
	1	Prepare 5-year and 10-year Fiscal Plan with performance measures.			
	2	Monitor, evaluate, and project trends in operational costs and revenue streams.			
	3	Recommend changes, as appropriate.			
B		Evaluate Reserve Policy and amend as appropriate to be fiscally responsible and defensible.	High	Short	Med
	1	Retain consultant to evaluate policy and recommend modifications.			
	2	Implement approved recommendations.			
C		Provide necessary and sufficient staffing and resources to maintain program activities and to achieve the goals and objectives of strategic plan priorities.	High	On-going	Med
	1	Review current SCWA budget, organizational structure, job classifications, and assignment of duties of current staff for effective balance and economy of resources.			
	2	Determine additional staffing needs to continue providing the highest quality and cost effective service while maintaining positive professional recognized organizational culture.			

Objective	Strategy	Objectives and Strategies	Pri	Time frame	LOE
	3	Recruit high-caliber qualified candidates for employment and integration into the SCWA professional team and culture.			
	4	Provide appropriate resources and incentives to staff to promote retention and longevity of SCWA investments in staff.			
	5	Develop succession planning.			

D	Optimize opportunities for cost-savings strategies.		High	On-going	Low
	1	Monitor and evaluate potential private partnership opportunities for special projects.			
	2	Monitor and evaluate upcoming state/federal funding opportunities.			
	3	Review internal operations and programs for cost efficiencies.			



SCWA staff rescuing fish

Photo credit: SCWA

GLOSSARY OF ACRONYMS, SELECTED DEFINITIONS AND REFERENCES

ACRONYMS

CMF	Lower Sacramento-Delta North Region Corridor Management Framework
DWR	California Department of Water Resources
ESA	Endangered Species Act
HCP	Habitat Conservation Plan
IRWM	Integrated Regional Water Management
LPC	Lower Putah Creek
LPCCC	Lower Putah Creek Coordinating Committee
NBA	North Bay Aqueduct
NBA AIP	North Bay Aqueduct Alternate Intake Project
PSC	Putah South Canal
RFQ	Request for Qualifications
SCFC&WCD	Solano County Flood Control and Water Conservation District
SCWA	Solano County Water Agency
SP	The Solano Project (built by the U.S. Bureau of Reclamation and principally consists of the following features: Lake Berryessa, Monticello Dam, and the Putah Diversion Dam)
SPSG	Strategic Planning Stakeholder Group
SWP	State Water Project
USBR	U.S. Bureau of Reclamation

DEFINITIONS

Integrated water management includes regional water supply reliability and water quality, local and regional flood management, and stewardship of regional natural resources such watershed and habitat ecosystems.

Life-cycle costing includes the actual costs to purchase, own, operate, maintain and, finally, dispose of an object or process.

REFERENCES

CA Water Fix: <http://www.californiawaterfix.com/>

California Water Plan 2013 Update: <http://www.water.ca.gov/waterplan/cwpu2013/final/index.cfm>

Lower Sacramento-Delta North Region Corridor Management

Framework: <http://www.scwa2.com/resources-management/ybcs-corridor-stakeholder>

EcoRestore: <http://resources.ca.gov/ecorestore/>

Lower Putah Creek Coordinating Committee: <http://www.scwa2.com/water-supply/lpccc>

Solano Multispecies Habitat Conservation Plan: <http://www.scwa2.com/water-supply/habitat/solano-multispecies-habitat-conservation-plan>

SOLANO COUNTY WATER AGENCY

MEMORANDUM



TO: Board or Directors

FROM: SCWA Advisory Commission

DATE: February 26, 2015

SUBJECT: Planning

At the December 11 SCWA Board meeting the Board requested a recommendation from the Advisory Commission on appropriate SCWA planning efforts. The Advisory Commission met on January 7 to discuss the request.

There are several upcoming planning needs that need to be addressed:

- Urban Water Management Plans (UWMP) - due July 2016. The larger cities are required, SCWA is optional
- Groundwater Sustainability Plans - due 2020. Putah Fan/Tehama groundwater basin
- USBR Water Management Plans - due date varies. Solano Project water users, including SCWA
- SCWA Strategic Plan - last done in 2005. No requirement

The Advisory Commission recommends the following:

1. The SCWA Strategic Plan be updated. As was done in 2005, the Strategic Plan should cover all functions of SCWA including water supply, flood management, habitat conservation, water conservation and public education. Funding should be allocated in the FY 2015-2016 SCWA budget for this effort. As was done in 2005 the Board should establish a committee made up of Board members, member agency staff and other stakeholders to participate in the planning effort. The consultant selection process should start immediately. The Strategic Plan should be completed, or at least in final draft by the end of 2015.
2. SCWA prepare a new UWMP (with more content than the last SCWA UWMP). Cities continue to prepare their own UWMPs. The SCWA Strategic Plan will include documentation of Solano Project and State Water Project water supplies and countywide conservation efforts. The individual UWMPs will use or reference much of the information

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in the Strategic Plan. The Strategic Plan will also be used to provide information for the USBR Water Management Plans.

3. The Groundwater Sustainability Plan be done separate from the Strategic Plan to be led by a Groundwater Sustainability Agency formed by the Solano groundwater users. The Groundwater Plan is not due until 202 and has a slower development pace than the Strategic Plan and UWMPs and involves a smaller subset of local agencies.

APPENDIX B: SCWA BOARD ACTION

Action Item No. 2015-16
Agenda Item No. 8

ACTION OF SOLANO COUNTY WATER AGENCY

DATE: March 12, 2015

SUBJECT: SCWA Strategic Planning

RECOMMENDATIONS:

1. Establish a SCWA Strategic Planning Stakeholder Group.
2. Appoint Board members and a Chair to the Stakeholder Group.
3. Authorize staff to proceed with solicitation of Requests for Qualifications and Proposals to hire a consultant to assist in preparing the SCWA 2015 Strategic Plan.

FINANCIAL IMPACT:

There is adequate funding in the current SCWA FY2014-2015 budget to initiate the process. The bulk of the expenses will be in the next fiscal year. A scope and budget will be negotiated with a selected consultant and brought to the Board for approval in May or June. Funding will need to be included in the FY 2015-2016 budget.

BACKGROUND:

At the December 11, 2014 SCWA Board meeting the Board requested a recommendation from the Advisory Commission on appropriate SCWA planning efforts. The Advisory Commission met on January 7, 2015 to discuss the request. A memorandum to the Board from the Advisory Commission is attached.

☒ Continued on next page

Recommended: _____
David B. Okita, General Manager

☐ Approved as
recommended

☒ Other
(see below) No Action taken

Modification to Recommendation and/or other actions:

Chairman Crossley appointed Mayors Batchelor, Patterson and Price; Supervisors Seifert and Vasquez; and Director Kluge to the Strategic Planning Stakeholder Group. Director Kluge was appointed chair of the Group.

I, David B. Okita, 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 March 12, 2015 by the following vote.

Ayes: Directors Patterson, Pederson, Price, Holdener, Crossley, Richardson, Hannigan, Seifert, Spering, Vasquez, Kluge, Thomson, Sanchez, Augustine, and Davis

Noes: None

Agenda Item No. 8

Page 2

The Advisory Commission recommends that the Agency develop a new SCWA Strategic Plan, last done in 2005. Staff concurs with the Commission's recommendation. The 2005 Plan was a useful tool with most of the recommendations implemented but the 2005 Plan is out of date and of little current use. The purpose of a Strategic Plan is to provide assistance to the Board in prioritizing Agency resources and staffing. The Strategic Plan will include a prioritized list of integrated actions dealing with a broad range of Agency programs including water supply, water quality, flood management, habitat conservation plan, water conservation, and environmental issues. The Plan will be developed using principles of integrated water management. The Plan will also be used by the Agency and cities in developing their respective Urban Water Management Plans which are due in July, 2016.

The Agency's 2005 Strategic Plan was developed by a Stakeholder Group made up of five SCWA Board members, three Advisory Commission members, the Solano Irrigation District General Manager, the Chair of the Flood Control Advisory Committee and a representative from each Solano wastewater agency (Fairfield-Suisun Sewer District and Vallejo Sanitation and Flood Control District). A consultant was hired to assist the Stakeholder Group to prepare the 2005 Strategic Plan. The cost to develop the 2005 Strategic Plan was approximately \$150,000; staff anticipates a similar cost for the 2015 Plan development.

The 2015 Strategic Plan should be completed by the end of 2015 in order to be useful in the development of Urban Water Management Plans. Staff recommends establishing a Strategic Plan Stakeholder Group consisting of:

1. Up to five SCWA Board members with one of the Board members appointed Chair;
2. Five Advisory Commission members selected by the Commission;
3. The Chair of the Agency's Flood Control Advisory Committee; and
4. A staff representative from the Fairfield Suisun Sewer District and the Vallejo Sanitation and Flood Control District.

Staff seeks authorization to proceed with Requests for Qualification and Proposals to procure consulting services to assist the Stakeholder Group complete the 2015 Strategic Plan on schedule. A scope and budget proposal from the preferred consultant will be brought back to the Board with a recommendation from the Stakeholder Group for consideration.

SOLANO COUNTY WATER AGENCY STRATEGIC PLAN ASSESSMENT QUESTIONNAIRE

v.4 (09-04-15)

Introduction:

The Solano County Water Agency (SCWA) is working with Kennedy/Jenks (K/J) to prepare a new Strategic Plan. The last Strategic Plan was prepared in 2005, and while it was a useful tool with most of the recommendations implemented, it is out-of-date and no longer provides guidance to prioritize resources. The 2005 Strategic Plan was an integral element of the Solano Counties Integrated Regional Water Management Plan. The 2015 Strategic Plan is anticipated to be a standalone Strategic Plan.

Updating a Strategic Plan is an opportunity to review the changes that have occurred over the past 10 years and plan for the challenges SCWA anticipates facing moving forward into the next 10 years (we will confirm this timeframe during our meeting). It allows SCWA to set a vision and future for the high priority policies and actions that the SCWA and its agency members will implement in the coming years.

Many ideas go into preparing a Strategic Plan. To understand the perspectives of the stakeholders, Jodie Monaghan, JM Consultants (a subcontractor of K/J), will conduct interviews to assess stakeholder expectations for the Plan. The purpose of the interviews will be to:

- Review the efficacy and outcomes of the 2005 Strategic Plan.
- Understand stakeholder expectations of the 2015 Strategic Plan.
- Assess the challenges currently facing SCWA.

Confidentiality:

All interviews are confidential. Nothing will be attributed to any individual. K/J will use the information gained to prepare a scope of work for the balance of the project. In addition, the findings will be discussed at the September 21st meeting.

Assessment Questions

Overview

1. Please describe your role and responsibilities within your agency/district.
2. What services does your agency/district receive from SCWA?
3. How do you interface with SCWA?

Strategic Planning

4. Thinking of the 2005 Strategic Plan:
 - a. What do you know of the 2005 Strategic Plan?
 - b. How did you agency/organization use the Strategic Plan?
5. What do you consider to be the key issues that SCWA will face in the next 10 years?
6. What do think are the priority activities that SWCA needs to engage in over the next 10 years?
7. The authorities of SCWA fall into two main categories: water supply and flood control. It also performs habitat conservation and watershed management activities. Does this scope serve all the member agencies and districts well? Should SCWA be doing more? Should it be doing less?
8. What do you consider to be the strengths of SCWA? The weaknesses?
9. To assist in creating a vision and Strategic Plan for SCWA, what key technical questions need to be answered?
10. Do you believe there are critical information/data gaps that need to be addressed before a Strategic Plan can be developed?
11. What are your expectations for the 2015 Strategic Plan?
 - a. What do you think the scope of the Plan should be?
 - b. What do you think the desired outcomes of the Plan should be?
 - c. What topics should be included in the Plan?
 - d. What process would best facilitate the development of the Plan?
 - e. Who should participate in the development of the Plan?
 - f. How do you think you will use the Plan?
12. Would it be useful to have a Charter for the stakeholders participating in the strategic planning process?

Wrap-up

13. Is there anything we haven't talked about that would help us understand your thoughts on the preparation of the Strategic Plan?
14. We intend to interview all of the stakeholders on the Strategic Planning Stakeholder Group but is there anybody else we speak with to understand the issues?

APPENDIX D: STAKEHOLDER ASSESSMENT INTERVIEWEES

Len Augustine	Mayor, City of Vacaville
Greg Baatrup	Fairfield Suisun Sewer District
Jack Batchelor	Mayor, City of Dixon
Steve Chappell	Suisun Resource Conservation District
John Currey	Dixon Resource Conservation District
Bill Emlen	Solano County- Resource Management
Gioulart, Roberta L.	Solano County- Resource Management
Erin Hannigan	Solano County Supervisor – District 1
Mike Hardesty	RD 2068
Don Holdener	Maine Prairie Water District
Cary Keaten	General Manager, Solano Irrigation District
John D. Kluge	Solano Irrigation District
Chris Lee	Solano County Water Agency
Thomas Pate	Solano County Water Agency
Elizabeth Patterson	Mayor, City of Benicia
Katherine Phillips	Solano County Water Agency
Harry Price	City of Fairfield, Mayor
Martin Querin	Assistant Public Works Director, City of Vallejo
Alex Rabidoux	Solano County Water Agency
Norman Richardson	Mayor, City of Rio Vista
Terry Riddle	Flood Control Advisory Commission
Felix Riesenber	City of Fairfield
Scott Rovnpera	City of Benicia
Pete Sanchez	Mayor, City of Suisun City
Roland Sanford	Solano County Water Agency
Steve Sawyer	City of Vacaville
Linda Seifert	Solano County Supervisor – District 2
Jim Sperring	Solano County Supervisor – District 3
John Vasquez	Solano County Supervisor – District 4

APPENDIX E: SUMMARY OF STAKEHOLDER ASSESSMENT FINDINGS

- Conducted 26 Interviews. All interviews confidential. Interviewed representatives from:
 - Solano County
 - 7 cities
 - Solano Irrigation District
 - RD2068
 - Maine-Prairie Water District
 - Solano RCD
 - Suisun RCD
 - SCWA Flood Control Advisory Committee
 - SCWA Water Advisory Commission
 - SCWA Staff
- Purpose of interviews:
 - Review the efficacy and outcomes from the 2005 Strategic Plan.
 - Assess the challenges currently facing SCWA.
 - Understand the expectations for the 2016 Strategic Plan.
- 2005 Strategic Plan:
 - Few current members participated in developing 2005 Strategic Plan.
 - Most not aware if Plan was used.
 - Many Board members didn't recall if they were updated on the progress.
 - The general consensus was that most projects were completed.
 - Overall impression: The Strategic Plan was more effective as a guidance tool in the earlier years.
- Current Key Issue: Water Reliability
 - About half the interviewees asked if there is an adequate water supply.
 - There was a concern that future demand could outstrip supply if cities fully build out and agriculture continues to expand to permanent crops.
 - With the drought, there is uncertainty of SWP deliveries.
 - Increasing regulations and concern that state may redo water rights.
 - Evolving state policy regarding reasonable use of water.
- Current Key Issue: Infrastructure
 - Solano Project has ongoing replacement and betterment needs.
 - Ongoing operations and maintenance needed for all conveyance systems.

- There are conveyance capacity limitations for NBA.
 - Total available supply exceeds current conveyance capability. Currently not an issue because local districts work around flow limitations by increasing local storage and timing of deliveries.
- 2 cities have contract rights to NBA water but no conveyance system. This water could be needed sometime in the future.
- The Alternate Intake for the North Bay Aqueduct was cited by a majority of interviewees as a major need to address a growing problem. The issues involve water quality and pumping restrictions to accommodate endangered species.
- Current Key Issue: Groundwater
 - Groundwater was a key issue for most interviewees.
 - Concern that the hardening of demand from changing crop patterns could lead to overdraft the Solano aquifer.
 - The question was asked - should GW be managed for the entire County or just those sitting on sub-basins?
 - The State has mandated Sustainable GW Plans. Many asked who should be the SGMA lead.
 - 75% opined that SCWA made the most sense to be the SGMA lead.
 - 25% believe the County is the better choice with SCWA as technical support.
 - A few suggested a Joint Powers Agency independent of both SCWA and the County.
 - Should sub-basin boundaries be redrawn to match County boundaries?
 - Who should monitor and permit wells?
- Key Issue: Integration of all Water Resources
 - There was acknowledgment that all water resources are related including:
 - Surface water
 - Groundwater
 - Flood water
 - Drain water
 - Waste water
 - Recycled water
 - There was an overwhelming desire for local control but also to have one coordinating agency for all water resources.
 - Some opined that waste water might better be integrated at the County level.

- **Key Issue: Drought / Climate Change**
 - Will likely affect both supply and demand of:
 - Surface water
 - Ground water use and recharge
 - Some expressed concern about the changing weather patterns and the increased likelihood of flooding.
 - Several interviewees worried about increasing drought regulations.
 - They worried that evolving state policy regarding reasonable use of water could ultimately require excess supplies to be shared with cities and counties who don't have an adequate water supply.
 - A few interviewees thought SCWA should develop a county-wide Drought Plan.
 - Several respondents thought SCWA should have taken a stronger role in water conservation by developing guidelines that the individual Participating Agencies could use.

- **Key Issue: Flood Management**
 - It was noted that SCWA has authority but no specific responsibility to do flood management. No one agency has overall responsibility for flood management in Solano County.
 - Several suggested that rural flood management is an issue.
 - There was mixed reaction whether the County's flood needs are well served. Not all participating agencies with needs feel they are served.
 - It was noted that previously developed flood control assessment districts that would have addressed some of the flood issues were vetoed by voters.
 - Incremental approach to flood projects may be better tactic.
 - Staff noted that several studies have been done but few proposed solutions have been implemented for a variety of reasons.
 - There is concern that widening the Yolo Bypass could involve more seasonal flooding.
 - Several expressed concern about the impacts of the CA Fix if it is ever built.

- **Key Issue: Watershed Management**
 - Habitat Conservation is an important mission of SCWA. Conservation activities include:
 - Cache Slough
 - Putah Creek Accord
 - The Habitat Conservation Plan (HCP) needs to be completed as soon as possible.
 - SCWA is currently subject to restricted maintenance in riparian corridors until the HCP is completed.
 - Participating Agencies need to look at the benefits of the HCP.

- Watershed stewardship is vital. Watershed health protects surface water supply.
- **Key Issue: Funding**
 - Grant programs to individual landowners for flood control are highly valued.
 - There is a need for increased funding and technical support for Participating Agencies.
 - SCWA currently has substantial reserves.
 - There is concern that the Reserve Policy may not be adequate to protect reserves.
 - Many remarked that funding should be more transparent.
- **Key Issue: Regulations**
 - Many noted that SCWA needs to be vigilant against regulatory creep from state agencies.
 - It will be incumbent upon SCWA to manage regulatory impacts.
 - Many interviewees express the need for more engagement in legislative affairs at the regional, state and federal levels.
 - Most commented that SCWA needs to participate in all regional forums. They noted that relationship building is key to getting the County's needs met.
- **Key Issue: Public Outreach**
 - Interviewees were split on the need for public awareness of SCWA.
 - Some saw the benefits of public awareness; others wanted to maintain local control.
 - Several asked what the right level of public outreach is. They suggested, at a minimum, the value must equal the cost.
 - Several suggested that representative of ag, business and major users should be included in SCWA planning.
- **Additional Issues raised by a few respondents include:**
 - There is a need for additional water storage.
 - There is a need for additional water sources – though now (i.e., the drought) is not the time.
 - The County needs to balance land use (and therefore water demand) between urban and ag.
 - Participating Agencies should have the right to sell excess water at market prices.
 - There is an inequity of services to some Participating Agencies though all pay the same rates.

- A further concern is that Participating Agencies don't receive equal services from SCWA but have an equal vote on the Board.
- A key question raised by many interviewees is: What should be the Role of SCWA?
 - Is it a county-wide water agency managing all sources of water or is it a water contractor with ancillary responsibilities?
 - With the need to integrate water resources, should SCWA be expanded to be the key water agency in Solano County?
 - It was noted that SCWA's footprint is the same as the County but SCWA doesn't serve the entire County.
 - There are conflicting expectations of SCWA.
 - There is a general feeling that SCWA should be taking more of a leadership role.
- Strengths of SCWA
 - Impressive, competent staff.
 - Solves problems using a team approach.
 - Nimble – responds quickly to new issues.
 - Repository/generator of data – helps Participating Agencies make better decisions.
 - Has financial resources.
 - Diverse Board.
 - Helps participating agencies exchange water to meet everyone's needs.
- Challenges for SCWA
 - Small staff – limited ability to get things done.
 - Inequities in addressing Participating Agency's issues.
 - Focuses too much on supply, not enough on flood control.
 - Should take more of a leadership role in some areas (ex. Water Conservation.)
 - The public is not typically aware of SCWA. SCWA should seek to build public trust.
 - Some internal operations should have better controls.
 - Sometimes politics gets in the way – SCWA's duty should be to the residents of Solano County.

APPENDIX F: STRATEGIC PLANNING STAKEHOLDER GROUP

Ron Anderson	Assistant City Manager, City of Suisun City
Greg Baatrup	General Manager, Fairfield Suisun Sewer District
Jack Batchelor	Mayor, City of Dixon
Suzanne Bragdon	City Manager, City of Suisun City
Justen Cole, P.E.	Senior Civil Engineer, City of Vacaville
Royce Cunningham, P.E.	Director of Utilities, City of Vacaville
Roberta Goulart	Resource Management, Solano County
Mike Hardesty	General Manager, Reclamation District 2068
Misty Kaltreider	Geologist, Solano County
Cary Keaten, P.E.	General Manager, Solano Irrigation District
John Kluge	Director, Solano Irrigation District, SPSG Chair
Thomas L. Pate, P.E.	Principal Water Resources Engineer, Solano County Water Agency
Elizabeth Patterson	Mayor, City of Benicia
Harry Price	Mayor, City of Fairfield
Felix Riesenber, P.E.	Assistant Public Works Director, Utilities, City of Fairfield
Scott Rovanager	Water Treatment Plant Superintendent, City of Benicia
Roland Sanford	General Manager, Solano County Water Agency
Steve Sawyer, P.E.	Assistant Director, Utilities, City of Vacaville
Terry Schmidtbauer	Assistant Director, Resource Management, Solano County
Linda Seifert	District 2 Supervisor, Solano County
John Vasquez	District 4 Supervisor, Solano County

Solano County Water Agency Strategic Planning Stakeholder Group

Charter

Purpose and Goals

The purpose of the Solano County Water Agency (SCWA) Strategic Planning Stakeholder Group (SPSG) is to develop a Strategic Plan (Plan) for the SCWA. SCWA is a wholesale water supply agency providing untreated water to cities and agricultural districts from the Federal Solano Project and the North Bay Aqueduct located in the Delta out of Cache Slough. Additionally, SCWA is involved in numerous Flood Management programs within Solano County including levees bordering the Yolo Bypass in and adjacent to Solano County. SCWA also performs habitat conservation and watershed management activities.

The goals of the SPSG are to:

- Work collaboratively with other SPSG members who represent SCWA member agencies and other water users and interests throughout the entire Solano County.
- Develop a common understanding of current and future water needs and resources in Solano County.
- Support development of water resource management objectives that protect resources in a sustainable manner, ensure local control, address current and future local water needs, and support the economy and the environment.
- Negotiate in good faith to achieve consensus on the development of a Strategic Plan that will guide the management of surface and groundwater into the future.

Stakeholder Group Membership

The core Stakeholder Group is structured as an ad hoc alliance of representatives from SCWA and its participating agencies. Current membership includes representatives from:

- City of Benicia
- City of Dixon
- City of Fairfield
- City of Rio Vista
- City of Vacaville
- City of Vallejo
- Fairfield Suisun Sewer District

- Solano County
- RD 2068
- Solano County Flood Control Advisory Committee
- Solano County Water Agency
- Solano Irrigation District
- City of Suisun City

Roles and Responsibilities

Stakeholder Group: The Stakeholder Group is responsible for the initial development of the Strategic Plan and recommendation of the Plan to the SCWA Board for approval. Stakeholders are responsible for keeping their SCWA Board Member informed of the ongoing deliberations and actively seek their Board Member's input.

Work Groups or Subcommittees: The Stakeholder Group can form work groups or subcommittees to assist with its work of developing goals, objectives, and strategies for the Strategic Plan. Members of the work group need not be members of the Stakeholder Group. The work groups may develop recommendations or proposals for the full stakeholder group's consideration.

Stakeholder Group Chair: John Kluge, Solano Irrigation District, serves as the Stakeholder Group Chair. The Chair will work with the Project Manager, technical consultants and facilitator to:

- Develop the agendas for each meeting.
- Assist in building consensus among stakeholders.
- In cooperation with the Project Manager, brief the SCWA Board on the progress of the Strategic Plan.

Project Manager: Roland Sanford and Thomas Pate will serve as the Project Managers. They will interface with the Chair, technical consultant and facilitator to ensure meetings are efficient and work is completed in a timely manner.

SCWA Board: The SCWA Board has final approval of the SCWA Strategic Plan.

Consultant: Kennedy/Jenks (K/J) has a contract with the SCWA to assist in the creation of a 10-year Strategic Plan and perform all related technical analysis. Sachi Itagaki, K/J, will serve as the main point of contact with the Project Managers. The consultant will attend all Stakeholder Group meetings, contribute to the development of the Strategic Plan and strive to balance stakeholder input with sound technical judgement.

Facilitator: In cooperation with the Chair, Project Managers and the Consultant, the facilitator from JM Consultants will design meetings and assist in guiding the process to develop a Strategic Plan for SCWA. The Facilitator will:

- Based on input from the Project Managers, Chair and stakeholders, draft agendas and desired outcomes for each meeting.
- Facilitate stakeholder meetings and ensure compliance with all Ground Rules.
- Assist in the preparation of meeting summaries including points of agreement and disagreement.
- Assist in building consensus among members.
- Advocate for a fair, effective, and credible process but remain impartial with respect to the outcome of the deliberations.

Attendance

Given the volume of information to be considered and the in depth discussion expected to occur, regular attendance by the SPSG member or his/her designated representative is essential. Designees are expected to be fully briefed and able to represent the member during decision making.

Ground Rules

The Stakeholder Group will use the following standing ground rules to establish a productive protocol for meetings and may modify them as appropriate.

The Stakeholder Group agrees to:

- Listen and openly discuss issues with others who hold diverse views.
- View disagreements as problems to be solved rather than battles to be won.
- Refrain from ascribing motives or intentions to other participants.
- Respect the integrity and values of other participants.

During the meetings, the Stakeholder Group agrees to:

- Honor time.
- Use conversational courtesy.
- Keep pagers and mobile phones silent during meetings.
- Appreciate humor but not engage in humor at the expense of others.

Decision Making

The SPSG is a working group tasked to develop a Strategic Plan for approval by the SCWA Board. In the development of the Strategic Plan, the SPSG will strive for consensus (agreement among all participants) in all of its decision-making. **Working toward consensus is a fundamental principle.**

Consensus means that all group members either fully support or can live with the decision or overall Plan and believe that their agencies and organizations can as well. In reaching consensus, it is useful to refer to the Gradients of Agreement. This scale makes it easier for participants to be honest. Using it, members can register less-than-whole-hearted support without fearing that their statement will be interpreted as a veto.

Gradients of Agreement					
1	2	3	4	5	6
Fully endorse!	Endorsement with minor issues.	Conditional Agreement	Stand Aside / Abstain / Neutral	Disagreement	Reject
I strongly support the proposal.	I generally like it. Proceed with my support.	I can support if some steps are taken now or in the future.	I neither support nor reject the proposal – Proceed.	I don't agree with the proposal in its current form but will not reject it outright	I cannot support the proposal at all.

When differences of opinion exist after extensive discussion, a straw poll will be taken using the Gradients of Agreement. Unless a member votes to reject (level 6), the proposal will move forward. In the event a member cannot support the proposal and votes to reject, a subcommittee will be convened to further discuss the issue until a resolution can be reached.

Communication

Media: Members are asked to speak only for their organizations or themselves when asked by external parties, including the media, about the SPSG's progress. Members will refer media inquiries to SCWA General Manager Roland Sanford and reserve freedom to express their own opinions to media representatives. Members should be careful to express only their own views and not those of other member of the Stakeholder Group. The temptation to discuss someone else's statement or position should be avoided.

Member Agencies: Members are asked to keep their member agencies informed about the process of the SPSG and to bring their agency's views into the discussion.

Decision Makers: The SCWA General Manager and the SPSG Chair will provide periodic updates to the SCWA Board.

Meeting Summaries: Meeting summaries will be provided following each SPSG meeting.

Public Engagement

All SPSG meetings will be open to the public and the public is welcome to participate in discussions. The facilitator may limit public comment to a designated public comment period if necessary to assure the Stakeholder Group can complete its work in a timely fashion.

Early in the process, the SPSG will oversee development of a public outreach plan which will guide activities related to public engagement and outreach.

Amendments to this Charter

The SPSG may use its decision-making procedure, identified above, to adopt changes to this Charter.

**ACTION OF
SOLANO COUNTY WATER AGENCY**

DATE: December 8, 2016

SUBJECT: Lake Berryessa Outreach Presentation

RECOMMENDATION:

Hear presentation on 2016 Lake Berryessa Outreach Program and provide direction to staff.

FINANCIAL IMPACT: None

BACKGROUND:

The goal of the Lake Berryessa Outreach Program is to educate boaters and recreationists on responsible boating practices vis-a-vis the protection of water quality, and to prevent the infestation of zebra and quagga mussels in Lake Berryessa. The outreach program was expanded in 2016 to provide daily mussel screening at boat launch facilities during the summer boating season. A total of 22 likely infested boats were prevented from launching in 2016. The Lake Berryessa Outreach Program is largely staffed by Water Agency interns, who will be making the presentation before the Water Agency Board of Directors.

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 December 8, 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: December 8, 2016

SUBJECT: Winters Salmon Festival

RECOMMENDATION:

Hear presentation on Winters Salmon Festival and provide direction to staff.

FINANCIAL IMPACT: None.

BACKGROUND:

The inaugural Winters Salmon Festival was held on November 5th, 2016 in the City of Winters. The festival was conceived as a way to celebrate the success of restoration efforts along Putah Creek, and to encourage the public and interested stakeholders to support and participate in future restoration efforts. Approximately 300 people attended the festival. In addition to providing staff support, the Water Agency, City of Winters, Pacific Gas and Electric Company, and the U.S. Bureau of Reclamation each contributed \$2,500 to fund festival operations.

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 December 8, 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: December 8, 2016

SUBJECT: Lower Putah Creek Salmon Study

RECOMMENDATIONS:

Authorize General Manager to sign \$125,000 contract amendment with UC Davis for Lower Putah Creek Salmon Study.

FINANCIAL IMPACT:

\$125,000, sufficient funds are available in the FY 2016-2017 Solano Project budget.

BACKGROUND:

Last year approximately 700 adult salmon were observed in Lower Putah Creek, by far the most observed in recent memory, if ever. As of this writing nearly twice as many adult salmon have already been observed in Lower Putah Creek, in many instances, occupying stream segments where SCWA personnel recently completed salmon spawning habitat improvement projects. The appearance of adult salmon in such large numbers is remarkable and certainly well beyond expectations when the Putah Accord was signed in May, 2000 (among other things, the Putah Accord includes provisions for salmon attraction flows). Most if not all of the adult salmon are thought to be stray hatchery fish. It remains unclear why so many of these adult salmon have appeared in Lower Putah Creek this and last fall – the salmon attraction flows have occurred every year since 2000. Ultimately, the question is: are we beginning to establish a self-sustaining population of salmon in Lower Putah Creek? The answer to this question could play a significant role in our collective ability to obtain future grant restoration funds for Lower Putah Creek, and how the State and Federal fishery agencies view Lower Putah Creek with respect to Solano Project operations, and in the context of the 2006 Bay Delta Plan Update and restoration of the Bay Delta ecosystem.

Using a combination of fish tagging, trapping and genetic analysis, the proposed Lower Putah Creek Salmon Study will address the following questions:

- 1) To what degree are adult salmon successfully spawning in Lower Putah Creek?
- 2) When do juvenile salmon migrate downstream, and when they do, are most of them consumed by Bass and other fish-eating species that are relatively abundant in the downstream segments of Lower Putah Creek?
- 3) Assuming most of the adult salmon observed to date are hatchery strays, where are they originating from?
- 4) Are we beginning to see salmon that were born in Lower Putah Creek returning as adults (self sustaining population)?

The Water Agency has an existing contract with UC Davis for fisheries investigations performed for the Lower Putah Creek Coordinating Committee (the Water Agency is a member of the Lower Putah Creek Coordinating Committee and serves as the Committee's fiscal agent). The original contract was for \$69,019 and was signed in 2003. Since then there have been three contract amendments, which collectively have increased the contract value from \$69,019 to \$310,708. Copies of the original contract and existing amendments are attached. The proposed \$125,000 contract amendment (see attached) for the Lower Putah Creek Salmon Study would be the fourth contract amendment and the first that was for work funded by the Water Agency, as opposed to the LPCCC.

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 December 8, 2016 by the following vote.

Ayes:

Noes:

Abstain:

Absent:

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

SOLANO COUNTY WATER AGENCY
AMENDMENT TO AGREEMENT FOR PROFESSIONAL SERVICES

AMENDMENT NUMBER: 4

CONTRACTOR: UC Davis Contract #03-00206VR

EFFECTIVE DATE: January 1, 2017

PROJECT: PUTAH CREEK CHINOOK SALMON MONITORING

DESCRIPTION OF AMENDMENT:

1. Increase compensation limit from \$310,708 to \$435,708 for fiscal year ending June 30, 2018 for Putah Creek Chinook Salmon Monitoring, as described in Exhibit A.

SIGNATURES:

Solano County Water Agency,
A Public Agency

The Regents of the University of CA

By: _____
Roland Sanford
General Manager

By: _____
Jo Clare Peterman
Business Contract Officer

Origin and Abundance of Fall-Run Chinook Salmon in Putah Creek

Peter Moyle, Michael Miller, Gabriel Singer, and Eric Chapman

University of California, Davis

Background & Objectives

Putah Creek historically supported a population of fall run Chinook salmon *Oncorhynchus tshawytscha* (Yoshiyama et al. 2000). Monticello Dam was completed in 1957, preventing access to spawning habitat in the Berryessa Valley. During low flow conditions of the 1990s, fall-run Chinook salmon were only occasionally present in the creek in very small numbers. Recently, Putah Creek has been actively managed to promote salmon returns and spawning conditions in the creek. On average, surveys found fewer than 10 Chinook salmon in Putah Creek (Moyle 2015). However, in the fall of 2014 Chinook salmon numbers were estimated to be around 200 individuals (Moyle 2015) and in the fall of 2015 there were an estimated 700 spawners in the creek (Peter Moyle, pers. comm.). We propose to genotype and assign juvenile Chinook salmon to parental pairs which will enable us to develop a pedigree for Putah Creek Chinook salmon. We will be able to determine if fish are full or half siblings (sibships) and estimate successful spawner abundance. By sampling adults in Putah Creek we will learn if the fish are strays from hatcheries each year or if some of the offspring spawned in Putah Creek are returning to their natal stream. We will also learn more about the timing of juvenile outmigration, juvenile survival, and environmental factors associated with migration and mortality. It is likely that information will also be collected on out-migrations of juvenile Pacific lamprey as well.

This project will be multi-disciplinary and will involve cross-campus and agency collaboration. We have been communicating with Colin Purdy in the North Central Region of the Department of Fish and Wildlife (DFW). His office has agreed to lend us one of their backup Rotary Screw Traps contingent upon 1) a scientific collecting permit being in place, 2) us agreeing to pull the trap should DFW need it, and 3) a Memorandum of Understanding being signed that places the liability of replacing or repairing the trap on the Solano County Water Agency. The Solano County Water Agency has agreed to sign the MOU in the unlikely event it is damaged beyond repair. Three laboratories (Moyle, Klimley, and Miller) at the University of California Davis will be collaborating on this project.

Methods/Techniques

We propose to determine the outmigration timing and relative abundance of juvenile Chinook salmon by operating a rotary screw trap (RST) in lower Putah Creek. We also propose to determine outmigration survival by injecting each fish caught in the RST with a Passive Integrated Transponder (PIT) tag. We will deploy PIT tag antennas in at least two locations below the RST to determine survival through each reach, and hope to deploy two stations above the trap. We would like to capture some juveniles that are rearing in the upper reaches to look at their movements from their rearing habitat down through Putah Creek. We have 8-10 PIT tag antennas that we can use on the project, and will likely need to deploy two to three in each location. We will tend the RST a minimum of once daily, increasing to two times per day during peak emigration and/or high flows as necessary to clean the trap and minimize any predation in the trap. We will evacuate the stomach contents of any predator greater than 70mm by pulsed gastric lavage (Hartleb and Moring 1995). If we find that we are capturing more predators than expected, and that they are consuming juvenile salmon, we will add cover to the live box to provide protection from these predators or increase frequency of trap checking. Each time the trap is tended we will collect the following data: revolutions of the cone, amount of debris, water velocity, water temperature, dissolved oxygen, fish counts by species, and mortalities in the trap. We will collect information on any mortalities in an attempt to determine if the mortality was prior to or after being captured in the trap. We will install a temperature logger in the trap and compare it with daily measurements taken with a handheld YSI meter. Temperature information will be used to determine whether or not there is a correlation with emigration timing and temperature. Prior to the season, and

Putah Creek Chinook Salmon Monitoring – Exhibit A

after any significant change in channel morphology, we will obtain water depth-velocity profiles across the creek channel at the trap to document the bathymetry and channel profile to assess the total volume of water moving past the trap. In addition to these data we will collect information on juvenile salmon captured in the trap including length, weight, condition (scales, fins, and eyes), and collect genetic tissue sample from each fish (small fin clip).

We will identify any non-Chinook salmon species and obtain length and weight frequencies for all fish not in the larval stage (i.e. >20mm). If a large number ($n > 30$) of any non-target species is captured, we will collect information on a sub-sample of 30 individual fish. We propose to operate the trap 24 hours per day from January through June or until the water temperature reaches 20° C. Once the temperature drops in the fall we will operate the trap again to capture any fish that over summer in Putah Creek. The trap will operate Monday through Friday for the duration of the study period, and also on weekends after the first fish is captured. Weekend fishing will continue until no fish are captured for five consecutive days (Music et al. 2010). A crew of two people will be required to tend the trap and prepare daily, weekly, monthly, and a final trap catch summary. We will prepare a final report that will include histograms of the daily catch, daily flow velocity at the trap, length weight frequencies, diel patterns of juvenile emigration, and any preliminary genetic results. We intend to publish significant findings in peer-reviewed journals.

If we are unable to obtain a permit to operate a RST in the first year we will obtain the necessary permits for year two. In this case we will seine in Putah Creek for juvenile Chinook salmon using a bag seine that is 30x4 ft with ¼ inch mesh, in one or more standard locations. We will collect a fin clip for genetic analysis from all fish as well as obtain length/weight frequencies and record the condition (scale, fin, eye, and smoltification score) of each fish and all non-Chinook salmon. These fish will be PIT tagged and recorded on the antennas throughout the creek.

Adults

We propose to conduct carcass surveys to collect genetic and scale samples from each carcass encountered. By looking at early growth rates based examination of scales, we can determine whether or not the fish was of hatchery origin. We will also collect the head of each fish so that we can harvest the otoliths. In addition any fish without an adipose fin will be examined for a coded wire tag (CWT) to determine hatchery of origin. We will do this by surveying the creek in a canoe, walking the banks in the reach below the diversion dam and in Winters, and working with landowners and volunteers. By sampling as many adults as possible in year one, we will be able to begin assigning juveniles to parents in the first year which will increase the precision in our estimates of successful spawner abundance. We are hoping to install an adult weir (Alaska) in year two of the project in order to collect tissue samples from up-migrating adults, but we are not requesting funding for the weir in this proposal.

Literature Cited

Duffy, W.G., E.P. Bjorkstedt, & C.S. Ellings. 2011. Predation on Juvenile Pacific Salmon *Oncorhynchus* spp. in downstream migrant traps in Prairie Creek, California. *North American Journal of Fisheries Management* 31:1, 151-164. DOI:10.1080/02755947.2011.562752

Hartleb, C. F., and J. R. Moring. 1995. An improved gastric lavage device for removing stomach contents from live fish. *Fisheries Research* 24:261–265

Moyle, Peter. 2015. Salmon finding a home in my backyard – Could it be? California Water Blog UC Davis Center for Watershed Sciences

Music, P.A., J.P. Hawkes & M.S. Cooperman. 2010. Magnitude and causes of smolt mortality in rotary screw traps: An Atlantic salmon case study. *North American Journal of Fisheries Management*, 30:3, 713-722, DOI: 10.1577/M09-181.1

Putah Creek Chinook Salmon Monitoring – Exhibit A

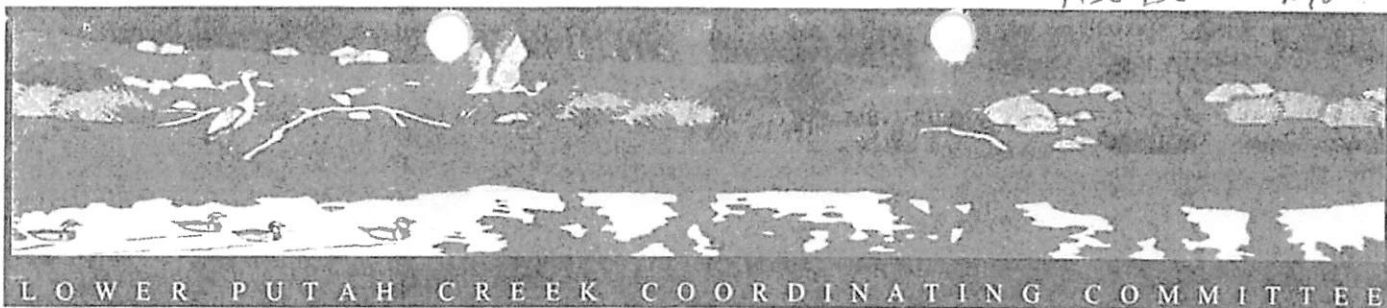
Yoshiyama R.M., P.B. Moyle , E.R. Gerstung & F.W. Fisher. 2000. Chinook Salmon in the California Central Valley: An Assessment, Fisheries, 25:2, 6-20, DOI: 10.1577/1548-8446(2000)0252.0.CO;2

EXHIBIT "A" (Continued)

Start Date:		1/1/2017		Project Title:		Putah Creek Chinook Salmon Monitoring											
End Date:		12/31/2017		PI(s):		Moyle, P.B.				12 Months		0 Months	0 Months	0 Months	0 Months	12 Months	
Personnel								Reference Info			Escalation:					FY	3%
								Period 1	Period 2	Period 3	Period 4	Period 5	Total				
Name/Role:				Base Salary	% Annual Effort			Type	/12	Escal	1/1/17-12/31/17					1/1/17-12/31/17	
1	Chapman, Eric D., Staff Research Associate, Level IV, Step 10			68,232	50%						34,628	0	0	0	0	34,628	
2	Undergraduate Researcher (TBD)			23,490	20%						4,768	0	0	0	0	4,768	
3	Junior Specialist (TBD) Step 1 (next year \$40,044.00)			37,548	100%						38,111	0	0	0	0	38,111	
Total Salaries											77,507	0	0	0	0	77,507	
				Split:	6/6	0/0	0/0	0/0	0/0								
Benefits by Person				Code	%	%	%	%	%		Period 1	Period 2	Period 3	Period 4	Period 5	Total	
1	Chapman, Eric D., Staff Research Associate, Level IV, Step 10			D	51.8/53.4						18,215	0	0	0	0	18,215	
2	Undergraduate Researcher (TBD)			G	1.3						62					62	
3	Junior Specialist (TBD) Step 1 (next year \$40,044.00)			C	38.3/39.4						14,806	0	0	0	0	14,806	
Total Benefits											33,083	0	0	0	0	33,083	
Total Personnel											110,590	0	0	0	0	110,590	
Equipment																	Total
																	0
																	0
																	0
Total Equipment											0	0	0	0	0	0	0
Travel											International?						Total
Truck rental, \$800.00/month X 6										No	4,800					4,800	
										No						0	
										No						0	
Total Travel											4,800	0	0	0	0	0	4,800
Supplies																	Total
Nets											716						716
Anesthetics @ 95.99 + \$7.20 (tax) = \$103.19											103						103
Measuring board @ \$39.95 + \$2.99 (tax) = \$42.95 x 2											86						86
Scale @ \$351.20 + \$26.34 (tax) = 377.54											378						378
Hobo temperature logger = \$99.99 + \$7.50 (tax) = 107.49 ea x 5											537						537
Waders and boots @ \$899.99 + \$67.50 (tax) = \$967.49 ea. x 3											2,902						2,902
Life jackets @ 87.99 + \$6.60 (tax) = \$94.59 x 2											189						189
Misc supplies (buckets, totes, gloves, rope, rite in the rain paper, pencils, stop watch) = \$1000.00 + \$75.00 (tax) = \$1075.00											1,075						1,075
Bismark Brown dye @ \$116 + \$8.70 (tax) = \$124.70											125						125
Diving Flashlight (LED Waterproof) \$90.99 + \$6.82 (tax) = \$97.81 x 3											293						293
PIT tags @ \$3.00 + \$0.23 (tax) = \$3.23 ea x 500											1,615						1,615
PIT tag antenna batteries 8 @ 99.99 + \$7.50 (tax) = 107.49 ea.											860						860
Coaxial cable for PIT tag antennas 1 spool @ \$104.99 + \$7.87 (tax) = \$112.86											113						113
Canoe poles @ \$333 ea. + \$24.98 (tax) = \$357.98 X 2											716						716
											0						0
																	0
Total Supplies											9,709	0	0	0	0	0	9,709
Subaward Costs											UC/Non-UC						Total
											Non-UC						0
											Non-UC						0
											Non-UC						0
											Non-UC						0
Total Subaward Costs											0	0	0	0	0	0	0
Consultant/Service Agreement Costs																	Total
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A30 BG Rich



January 16, 2003

Peter Moyle
Department of Wildlife, Fish, and Conservation Biology
University of California, Davis
1 Shields Avenue
Davis CA 95616

Dear Dr. Moyle,

Thank you for your proposal of January 7 to conduct fisheries monitoring work for the Lower Putah Creek Coordinating Committee (LPCCC). I am pleased to enclose two signed copies of a five-year contract to implement the proposed studies based on the annual costs that you identified, plus a three percent compounded increase for inflation each year for a total of \$69,019 for the five-year term of the contract.

The terms of the contract outside of the budget and scope of work are the same as previously approved by Jo Clare Peterman, UCD Business Contract Officer under UCD Contract# 02-00846 IC (Terrestrial Biomonitoring Plan Development).

Please cite the "February 21, 2002 Blanket Indirect Cost Waiver" on the UCD Business Agreement Request and Data Sheet (BARDS) form to include the waiver of overhead for LPCCC projects.

I hope that this contract will be executed in time for late winter and spring monitoring work. Please request that one signed original be returned and contact me if any questions arise concerning this contract.

Sincerely,

Rich Marovich
Putah Creek Streamkeeper
(530) 902-1794

UNIVERSITY OF CALIFORNIA, DAVIS

BIRKELEY • DAVIS • IRVINE • LOS ANGELES • MERCED • RIVERSIDE • SAN DIEGO • SAN FRANCISCO



SANTA BARBARA • SANTA CRUZ

BUSINESS CONTRACTS
ONE SHIELDS AVENUE
DAVIS, CALIFORNIA 95616-8800
TELEPHONE: (530) 752-2426
FAX: (530) 752-0791

March 6, 2003

Rock Marovich
Putah Creek Streamkeeper
Lower Putah Creek Coordinating Committee
5018 Elmira Road
Vacaville, CA 95687

RE: UCD Agreement No. 03-00206VR

Dear Mr. Marovich:

Enclosed for your records is a copy of the fully executed agreement between the Solano County Water Agency and the Regents of the University of California for fisheries monitoring work. Thank you very much for incorporating our revisions from our previously approved Contract No. 02-00846IC. It facilitated my review and processing of the agreement significantly. If you have any questions, please do not hesitate to call me at (530) 752-5125. Thank you once again for your assistance in establishing this agreement.

Sincerely,

A handwritten signature in cursive script that reads "Crystal Blackburn".

Crystal M. Blackburn

Encl.

RECEIVED
MAR 13 2003
SOLANO COUNTY
WATER AGENCY

Name of Project: **LPCCC- Fisheries Monitoring**

UCD Contract # **03-00206VR**

SOLANO COUNTY WATER AGENCY

AGREEMENT FOR PROFESSIONAL SERVICES

THIS AGREEMENT, effective MARCH 6, 2003 is between SOLANO COUNTY WATER AGENCY, a public agency existing under and by virtue of Chapter 573 of the 1989 statutes of the State of California, hereinafter referred to as "Agency," and The Regents of the University of California, hereinafter referred to as "Contractor."

The Agency requires services for **LPCCC- Fisheries Monitoring**; and the Contractor is willing to perform these services pursuant to the terms and conditions set out in this Agreement.

IT IS MUTUALLY AGREED, as follows:

1. SCOPE OF SERVICES

The Agency hereby engages the Contractor, and the Contractor agrees to perform the services for **LPCCC- Fisheries Monitoring**, as described in Exhibit A, in accordance with the terms of this Agreement and any applicable laws, codes, ordinances, rules or regulations. In case of conflict between any part of this Agreement, this Agreement shall control over any Exhibit.

2. COMPENSATION

Compensation for services shall be as follows: Hourly rate of personnel plus any allowed reimbursable expenses based on unit costs as indicated on any allowed reimbursable expense in Exhibit B not to exceed \$ 13,000.00 per year, indexed for inflation at 3% per year for all work contemplated by this Agreement:

Year ending	Compensation	Cumulative Total
June 30, 2003	\$13,000	\$13,000
June 30, 2004	\$13,390	\$26,390
June 30, 2005	\$13,791	\$40,181
June 30, 2006	\$14,205	\$54,386
June 30, 2007	\$14,632	\$69,019

3. METHOD OF PAYMENT

Upon submission of an invoice by the Contractor, and upon approval of the Agency's representative, the Agency shall pay the Contractor monthly in arrears for fees and allowed expenses incurred the prior month, up to the maximum amount provided for in paragraph 2 of this Agreement. Every invoice shall specify hours worked for each task identified in Exhibit A undertaken.

UCD Contract

4. TIME OF PERFORMANCE

This Agreement shall become effective as of the date it is executed and said services will take place between this date and June 30, 2008 as directed by the Agency.

5. WARRANTY

The Agency has relied upon the ability and training of the Contractor as a material inducement to enter into this Agreement. The Contractor hereby represents that all of its work will be performed in accordance with the requirements of applicable federal, state and local laws, it being understood that acceptances of the Contractor's work by the Agency shall not operate as a waiver or release.

6. MODIFICATION AND TERMINATION

This Agreement may be modified or amended only by written instrument signed by the parties hereto, and the Contractor's compensation and time of performance of this Agreement shall be adjusted if they are materially affected by such modification or amendment.

Any change in the scope of the services to be done, method of performance, nature of materials or price thereof, or to any other matter materially affecting the performance of nature of the professional services will not be paid for or accepted unless such change, addition or deletion be approved in advance, in writing, by the Agency's General Manager.

This Agreement may be terminated by the parties at any time, without cause, upon written notification to the other.

Following termination by the Agency or the Contractor, the Contractor shall be reimbursed for all expenditures made in good faith in accordance with the terms of this Agreement that are unpaid at the time of termination.

7. PERMITS

Permits required by governmental authorities will be obtained at the Contractor's expense, and the Contractor will comply with local, state and federal regulations and statutes including Cal/OSHA requirements.

8. Mutual Indemnification

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA shall defend, indemnify and hold harmless SOLANO COUNTY WATER AGENCY, its agencies, officers, employees, and agents from and against any and all liability, loss, expense, attorneys' fees or claims for injury or damages arising from the performance of this agreement, but only in proportion to and to the extent such liability, loss, expense, attorneys' fees, or claims for injury or damages are caused by or result from the negligence or intentional acts or omissions of THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, its agencies, officers, employees and agent.

SOLANO COUNTY WATER AGENCY shall defend, indemnify and hold harmless THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, its agencies, officers, employees, and agents from and against any and all liability, loss, expense, attorneys' fees or claims for injury or damages arising from the performance of this agreement, but only in proportion to and to the extent such liability, loss, expense, attorneys' fees, or claims for injury or damages are caused by SOLANO COUNTY WATER AGENCY or result from the negligence or intentional acts or omissions of, its agencies, officers, employees and agent.

9. INSURANCE

By his/her signature hereunder, Contractor certifies that he/she is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and that Contractor will comply with such provisions before commencing the performance of the professional services under this agreement. Contractor and subcontractors will keep workers' compensation insurance for their employees in effect during all work covered by this agreement.

Contractor will file with the Agency, before beginning professional services, certificates of insurance satisfactory to the Agency evidencing general liability coverage of not less than \$1,000,000 per occurrence (\$2,000,000 general and products-completed operations aggregate (if used)) for bodily injury, personal injury and property damage; auto liability of at least \$1,000,000 for bodily injury and property damage each accident limit; workers' compensation (statutory limits) and employer's liability (\$1,000,000) (if applicable); requiring 30 days (10 days for non-payment of premium) notice of cancellation to the Agency. Any insurance, self-insurance or other coverage maintained by the Agency, its directors, officers, employees, or authorized volunteers shall not contribute to it. The general liability coverage shall give the Agency, its directors, officers, employees, and authorized volunteers insured status using ISO endorsement CG2010, CG2033, or equivalent. Coverage is to be placed with a carrier with an A.M. Best rating of no less than A- :VII, or equivalent, or as otherwise approved by the Agency. In the event that the Contractor employs other contractors (subcontractors) as part of the work covered by this agreement, it shall be the Contractor's responsibility to require and confirm that each subcontractor meets the minimum insurance requirements specified above.

UCD Contract #

If any of the required coverages expire during the term of this agreement, the Contractor shall deliver the renewal certificate(s) including the general liability additional insured endorsement to the Agency at least ten (10) days prior to the expiration date.

10. COMPLIANCE WITH LAW

The Contractor shall be subject to and comply with all federal, state and local laws and regulations applicable with respect to its performance under this Agreement, including but not limited to, licensing, employment and purchasing practices; and wages, hours and conditions of employment.

11. SUBCONTRACT AND ASSIGNMENT

This Agreement binds the heirs, successors, assigns and representatives of the Contractor. The Contractor shall not enter into subcontracts for any work contemplated under this Agreement and shall not assign this Agreement or monies due or to become due, without the prior written consent of the General Manager of the Agency or his designee, subject to any required state or federal approval.

12. NONRENEWAL

The Contractor understands and agrees that there is no representation, implication, or understanding that the services provided by the Contractor under this Agreement will be purchased by the Agency under a new agreement following expiration or termination of this Agreement, and waives all rights or claims to notice or hearing respecting any failure to continue purchase of all or any such services from the Contractor.

13. NOTICE

Any notice provided for herein are necessary to the performance of this Agreement and shall be given in writing by personal delivery or by prepaid first-class mail addressed as follows:

AGENCY

David Okita, General Manager
Solano County Water Agency
508 Elmira Road
Vacaville, CA 95687

CONTRACTOR

Jo Clare Peterman
Business Contracts and Analysis
University of California
Davis, CA 95616

UCD Contract #

The parties have executed this Agreement the day and year first above written. If the Contractor is a corporation, documentation must be provided that the person signing below for the Contractor has the authority to do so.

Solano County Water Agency
a Public Agency

By: 

David Okita, General Manager

The Regents of the University of California

By:  3/8/03

Jo Clare Peterman, Business Contract Officer

ucd.petermoyle.agt

Attachment A

Putah Creek Fish Monitoring Proposal

Peter B. Moyle & Patrick K. Crain

Department of Wildlife, Fish, and Conservation Biology

University of California, Davis

January 7, 2003

Background

We propose to regularize and increase the monitoring for fishes in Putah Creek that the UC Davis fish laboratory has been doing in the creek, to supplement the regular annual monitoring by T. Payne & Associates. The work proposed here would be done with student help, with Patrick Crain as the field supervisor.

Needed Monitoring

Adult Salmon: 3 surveys by canoe from the date of the salmon attraction flows until the end of December will be conducted, if flows are not too high and muddy for effective and safe observations. Surveys will be from Russell Ranch down to Pedrick Road. A standardized form will be developed on which locations of probable redds, live salmon sightings, and carcasses will be noted.

Juvenile Salmon: Weekly juvenile salmon surveys will begin on the 15th of March and end around the 15th of May. These surveys will cover two to three sites a week from Dry Creek to Mace Blvd. Beach seining and backpack electrofishing will be the primary methods used in sampling for juvenile salmon, with most samples done by seining. All fish of all species (up to 30/species/sample) collected will be identified and measured.

Annual Fall Fish Monitoring: Environmental (physical and water quality) parameters will be measured in conjunction with the fall sampling by Thomas Payne and Associates, at each site. These measurements will parallel those taken by Michael Marchetti in his thesis work on Putah Creek. In addition the UC Davis electro-fishing boat will be used to sample at the Old Davis Rd. site as it has done for the past two years and other sites where needed. Annual fall monitoring of fishes in the Picnic Ground pool will continue, using seines, gill nets, and electrofishers.

Steelhead Microchemistry Project: It is not known if the small rainbow trout that inhabit the area just below Putah Diversion Dam are the progeny of resident trout or steelhead. Parentage can be determined by doing microchemistry on the otoliths of the young trout. By looking at the strontium/calcium ratios of the primordia vs the exterior of the otolith it can be determined if the parents of the fish have been in salt water or have resided only in fresh water. We propose to examine 20 otoliths to determine whether this group of fish had anadromous parents. All permits will be obtained from the NOAA National Marine Fisheries Service to conduct this research.

UCD Contract #

Data Base: A data base for all information collected will be compiled in the form of Excel spreadsheets. We will develop ways to have the data relatively accessible, perhaps on the Interagency Ecological Program website.

Report: An annual report will be written presenting and analyzing the data collected. We will also provide a trend analysis from the Payne database, showing changes in the fish populations through time. Also, any publications using data gathered would be made available.

UCD Contract #

Attachment B

Annual Budget (2003)*

Itemization	Cost	Total
Salary (Crain)	\$7,130.00	\$7,130.00
Benefits	\$2,139.00	\$9,269.00
Travel	\$0,731.00	\$10,000.00
Microchemistry Project	\$3,000.00	\$13,000.00

*increases 3 percent per year for the term of the contract

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APR 03 2003

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SOLANO COUNTY
WATER AGENCY

SANTA BARBARA • SANTA CRUZ

BUSINESS CONTRACTS
ONE SHIELDS AVENUE
DAVIS, CALIFORNIA 95616-8800
TELEPHONE: (530) 752-2426
FAX: (530) 752-0791

March 31, 2003

Rich Marovich, Putah Creek Streamkeeper
Solano County Water Agency
508 Elmira Road
Vacaville, CA 95687

**RE: Benthic Macroinvertebrate Studies - Lower Putah Creek Coordinating Committee
UCD Agreement 03-00206VR, Amendment Number 1**

Dear Mr. Marovich;

Enclosed is one fully executed original amendment for your records. I have retained the other signed original for our file. I shall provide copies of the fully executed amendment to the appropriate University departments.

Thank you for your cooperation in establishing this amendment. If you have any questions about the contract, please contact me at the address shown above, via email at nowhite@ucdavis.edu, by fax at (530) 752-0791, or by telephone at (530) 754-4942.

Sincerely,

Nicklos White
Contract Analyst

Enclosure

The final report will consist of a summary and analysis of the information collected, a spreadsheet/data base for archiving information collected for future users, and recommendations for future monitoring.

Timeline

One-time Spring Sampling (10 sites)

Start date: April 1, 2003

Approximate work hours (by task):

Field collection: 80

Insect identification: 180

Metrics calculations: 80

Insect photography: 5

Guide preparation: 20

Total hours: 365

End date: June 30, 2003

Materials Needed

Field vehicle, gasoline, Measuring tape, D-kick net, standard size 35 0.5mm sieve, 50 500ml plastic jars, 2 white enamel pans, 2 forceps, 95% ethanol, plastic wash bottle, CBW worksheets, Multi-meters (pH, temp., DO, conductivity, flow), colormetric kit, depth rod, densitometer, GPS unit, 100 petri dishes, microscope with camera mount, 10 rolls slide film, 100 sheets card stock, 50 laminating sheets.

Budget

Materials: travel (\$100), glassware (\$36), film (\$30), film developing (\$100), copying (\$6), card stock (\$10), laminating sheets (\$30)—

Materials total = \$312

Grad student fees/compensation: \$5803

Total cost of project: \$6115

Additional field and laboratory materials will be provided by Dr. Peter Moyle, University of California, Davis, Department of Wildlife, Fisheries & Conservation Biology.

SOLANO COUNTY WATER AGENCY

AMENDMENT TO AGREEMENT FOR PROFESSIONAL SERVICES

AMENDMENT NUMBER: 1

CONTRACTOR: The Regents of the University of California

EFFECTIVE DATE: April 1, 2003

PROJECT: LPCCC-Fisheries Monitoring

DESCRIPTION OF AMENDMENT:

1. Increase compensation limit from \$13,000 to \$19,115 for the year ending June 30, 2003
2. Include revised scope of work attached for Benthic Macroinvertebrate Biological Assessment

SIGNATURES:

Solano County Water Agency,
a Public Agency

By: 

David Okita
General Manager

The Regents of the University
of California

By: 

Jo Clare Peterman,
Business Contract Officer

Benthic Macroinvertebrate Biological Assessment for Putah Creek, CA, 2003.

Peter B. Moyle and Beth A. Chasnoff

Department of Wildlife, Fish & Conservation Biology, University of California, Davis, 95616,
(530) 752-0205, pbmoyl@ucdavis.edu, bachasnoff@ucdavis.edu

Objective

The goal of this study is to assess resident benthic macroinvertebrates (BMI) at designated reference sites on Putah Creek, CA in order to establish reference streams and conditions and to develop biocriteria for examining the effectiveness of future restoration activities.

Justification

BMIs are particularly useful for assessing the biological response of Putah Creek to restoration activities because they are nearly ubiquitous throughout the system and affected by environmental perturbations in many different habitats. The large number of species offers a spectrum of responses to change and the short life-span and fast turnover are well suited to rapid bioassessment following alteration. Qualitative sampling and sampling analysis can be done using simple, inexpensive equipment. The taxonomy of many insect groups is well-known and data analysis methods have been developed and standardized for community level studies. The sedentary nature of BMIs allows for effective spatial analysis of restoration effects, and responses of many common species to changes in environmental conditions have already been established.

Methods

This study embraces the sampling design outlined by the California Stream Bioassessment Procedure (CSBP) (Harrington and Born 2000). This method provides base-line information on biological conditions, aquatic species composition and natural community variability. This study will use standardized California Department of Fish and Game worksheets and protocol for Level 2 (high) taxonomic effort. Ambient bioassessment will be conducted seasonally (spring 2003, fall 2003), and should continue on a regular basis to establish trend data and provide a management tool to detect possible changes in water quality following restoration. The monitoring strategy includes investigation of up to 10 future restoration sites, as well as reaches located above and below restoration sites.

Projected Results

Information produced during the investigation will include (I) A list of invertebrate taxa found in the creek during this and previous investigations and (II) the following measures of the invertebrate communities at each site: 1) Richness Measures (taxa richness, EPT taxa); 2) Composition Measures (EPT index, sensitive EPT index, %Hydropsychidae, %Baetidae); 3) Tolerance/Intolerance Measures (Tolerance value, %Dominants, %Tolerant, %Intolerant); and 4) Trophic Measures (%Collectors, %Filterers, %Scrapers, %Predators, %Shredders). In addition, we will produce an illustrated guide to the common insects of Putah Creek targeted for use by the general public and others interested in monitoring the creek.

Benthic Macroinvertebrate Biological Assessment for Putah Creek, CA, 2003.

Peter B. Moyle and Beth A. Chasnoff

Department of Wildlife, Fish & Conservation Biology, University of California, Davis, 95616,
(530) 752-0205, pumoyle@ucdavis.edu, bachasnoff@ucdavis.edu

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The final report will consist of a summary and analysis of the information collected, a spreadsheet/data base for archiving information collected for future users, and recommendations for future monitoring.

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Budget

Materials: travel (\$100), glassware (\$36), film (\$30), film developing (\$100), copying (\$6), card stock (\$10), laminating sheets (\$30)—

Materials total = \$312

Grad student fees/compensation: \$5803

Total cost of project: \$6115

Additional field and laboratory materials will be provided by Dr. Peter Moyle, University of California, Davis, Department of Wildlife, Fisheries & Conservation Biology.

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FAX: (530) 752-0791

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August 11, 2003

AUG 11 2003

SOLANO COUNTY
WATER AGENCY

Rich Marovich, Putah Creek Streamkeeper
Putah Creek Coordinating Committee
508 Elmira Road
Vacaville, CA 95687

RE: LPCCC-Fisheries Monitoring
UCD Contract Number 03-00555X, Amendment Number 2

Dear Mr. Marovich;

Enclosed is an executed original of the subject amendment for your records. Jo Clare Peterman, Business Contracts Officer, has signed it on behalf of The Regents of the University of California. I have retained the other signed original for our file. I shall provide copies of the fully executed amendment to the appropriate University departments.

Thank you for continuing of this very important effort. If you have any questions about the contract, please contact me at the address shown above, via email at nowwhite@ucdavis.edu, by fax at (530) 752-0791, or by telephone at (530) 754-4942.

Sincerely,

Nicklos White
Contract Analyst

Enclosure

SOLANO COUNTY WATER AGENCY

AMENDMENT TO AGREEMENT FOR PROFESSIONAL SERVICES

AMENDMENT NUMBER: 2

CONTRACTOR: UC Davis Contract #03-00206VR

EFFECTIVE DATE: July 10, 2003

PROJECT: LPCCC-Fisheries Monitoring

DESCRIPTION OF AMENDMENT:

- 1 Increase compensation limit from \$13,390 to \$19,688 for fiscal year ending June 30, 2004 for benthic invertebrate monitoring as described in Amendment 1. The new contract limit is \$81,432.

SIGNATURES:

Solano County Water Agency,
a Public Agency

The Regents of the University of
California.

By: _____
David B. Okita
General Manager

By:  _____
~~Jo Clare Peterman,~~
Business Contract Officer

8-11-03
Jo Clare Peterman

Ac-11

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UNIVERSITY OF CALIFORNIA, DAVIS
OFFICE OF RESEARCH
SPONSORED PROGRAMS, 1850 Research Park Dr., #300
DAVIS, CALIFORNIA 95618

TELEPHONE: (530) 747-3917
FAX: (530) 747-3937

August 29, 2008

LPCCC
Attn: David Okita
6040 Vaca Station Rd.
Elmira, CA 95625

Reference: Amd #3 to Contract #03-00206VR
UC Davis PI: Dr. Moyle

Dear Mr. Okita,

Enclosed please find 2 partially executed originals of the cited agreement signed on behalf of the Regents of the University of California. Please have them countersigned and send a fully executed original to me at the above address.

Should questions arise regarding the administration of this agreement, please contact me at the above number.

Respectfully,

A handwritten signature in black ink, appearing to read "David Ricci".

David Ricci
Contracts and Grants Analyst
fdricci@ucdavis.edu

Enclosure(s)

AG-U-113

SOLANO COUNTY WATER AGENCY

AMENDMENT TO AGREEMENT FOR PROFESSIONAL SERVICES

AMENDMENT NUMBER: 3

CONTRACTOR: UC Davis Contract #03-00206VR

EFFECTIVE DATE: March 8, 2007

PROJECT: LPCCC – Fisheries Monitoring

DESCRIPTION OF AMENDMENT:

1. Increase contract amount as follows provided that unspent funds in any given fiscal year do not carry over to future years. The maximum contract amount is increased by \$229,276 from ~~\$69,019~~ to ~~\$298,295~~ **\$81,432** *DB*

\$310,708

DB

Year ending	Compensation	Cumulative Total
June 30, 2008	\$20,000	\$20,000
June 30, 2009	\$20,600	\$40,600
June 30, 2010	\$21,218	\$61,818
June 30, 2011	\$21,855	\$83,673
June 30, 2012	\$22,510	\$106,183
June 30, 2013	\$23,185	\$129,368
June 30, 2014	\$23,881	\$153,249
June 30, 2015	\$24,597	\$177,846
June 30, 2016	\$25,335	\$203,181
June 30, 2017	\$26,095	\$229,276

2. Extend time for completion of work to June 30, 2017.

SIGNATURES:

Solano County Water Agency,
a Public Agency

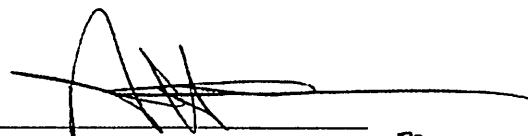
The Regents of the University of
California.

By:



David B. Okita
General Manager

By:



Ahmad Hakim-Elahi, Ph.D., J.D.
Director of Sponsored Programs

AUG 28 2008