



**LOWER PUTAH CREEK COORDINATING COMMITTEE**

**TO:** Interested Persons

**FROM:** Rich Marovich, Streamkeeper (SK)

**DATE:** July 12, 2018

**SUBJECT:** **Agenda for Lower Putah Creek Coordinating Committee Decision Meeting**  
 Thursday, July 12th at the Davis Police Department Community Room, 2600  
 Fifth Street from 3:30 to 5:00 PM

No.	Time	Item		
1	3:30-3:40	<b>Public Comment:</b> Comments welcome on matters pertaining to Putah Creek.		
2	3:40-3:45	<b>Approval of Minutes:</b> Minutes of the June meeting will be reviewed.		
3	3:45-3:55	<b>LPCCC Accord Budget:</b> Action item to approve annual expenditures.		
4	3:55-4:40	The LPCCC will review:	a. Streamkeeper Report	Patterned Calendar
			b. Operational Budget	
			c. Grants and Projects Budget	
			d. Nursery Operations	
			e. Equipment Inventory	
			f. Appointment to Winters Putah Creek Committee	
5	4:40-4:50	<b>County Fire:</b> The Streamkeeper will report on the County Fire.		
6	4:50-4:55	<b>Member Reports:</b> LPCCC members will have an opportunity to report.		
7	4:55-5:00	<b>Correspondence:</b> LPCCC will discuss any significant correspondence.		
<b>Next Meeting:</b> The LPCCC will hold a discussion meeting on Thursday August 9th at the Monticello Room, Solano Irrigation District, 810 Vaca Valley Parkway, Vacaville.				

2018-07 LPCCC Agenda.doc



**LOWER PUTAH CREEK COORDINATING COMMITTEE**

**TO:** Interested Persons  
**FROM:** Rich Marovich, Streamkeeper  
**DATE:** June 14, 2018

**SUBJECT: Minutes of Lower Putah Creek Coordinating Committee Discussion Meeting:**  
 Thursday June 14th from 3:30 to 5:00 PM: Monticello Room; Solano Irrigation District  
 Headquarters: 810 Vaca Valley Parkway, Suite 201, Vacaville

**Agenda**

No.	Min	Item	
1	10	<b>Public Comment:</b> Comments welcome on matters pertaining to Putah Creek.	
2	5	<b>Approval of Minutes:</b> Minutes of the April meeting will be reviewed.	
3	20	<b>Soil and Hydrology Investigations:</b> Vic Claassen will report his findings.	
4	10	<b>LPCCC will discuss:</b>	Greenhouse Operations
			Riparian Diversions
			Interagency Communications
			<b>Partnered Calendar</b>
5	10	<b>Streamkeeper Report:</b> The <u>Streamkeeper</u> will report on status of projects.	
6	10	<b>Planning Subcommittee:</b> The <u>Streamkeeper</u> will report on the planning subcommittee recommendations for future projects.	
7	10	<b>Putah Creek Council Report:</b> Kent Anderson will report on PCC activities.	
8	10	<b>Member Reports:</b> LPCCC members will have an opportunity to report.	
9	5	<b>Correspondence:</b> The LPCCC will review any significant correspondence.	
8	-	<b>Next Meeting:</b> The LPCCC will hold a decision meeting Thursday, July 12th at the Davis Police Department, 2600 Fifth Street, Davis from 3:30 to 5:00 PM.	

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810 Vaca Valley Parkway, Suite 203, Vacaville, California 95688 ☐ Phone: (530) 902-1794 ☐ Fax: (707) 451-6099

<http://www.watershedportals.org/lpccc>

*The Lower Putah Creek Coordinating Committee consists of:*

*Cities of Davis, Fairfield, Suisun City, Vacaville, Vallejo and Winters; Counties of Solano and Yolo;  
 Solano and Yolo Riparian Landowners; Maine Prairie Water District; Solano County Water Agency;  
 Solano Irrigation District; Putah Creek Council and University of California, Davis*

No.	Min	Item
1	10	<b>Public Comment:</b> Comments welcome on matters pertaining to Putah Creek.

**Herb Wimmer:** Dennis Kilkenny is seriously ill, and I wanted to suggest that Rich send a fruit basket and card to his home on behalf all of us.

**Alan Pryor:**

- We are interested in looking at exact plans, because they have never been submitted to this group formally for review, and they’re not on SCWA’s website
- This group is supposed to provide oversight and engineering review for this body of work but that is not here,
- There have not been engineering plans other than 2 dimensional plans.
- Wants to see plans for flood plain, modeling temperature and characteristics downstream, and Glen asked for the analysis or report of plants replanted in floodplain and the success of those plants
- Adaptive management plans are used to learn from work that’s been done before, but how can you use adaptive management if plans are not shown and analyzed by a group?
- Important scientific review process isn’t going to be continued, who will look over work to see if it’s done right.

**Rich:** The Prop 1 planning process is just beginning.

2	5	<b>Approval of Minutes:</b> Minutes of the April meeting will be reviewed.
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**Edit from last month:** Alejandro intended a formation/reactivation for technical committee as specified in the Accord for LPCCC.

3	20	<b>Soil and Hydrology Investigations:</b> Vic Claassen will report his findings.
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**Vic Claassen:** Soil Assessment Protocol

- The lab out of UC Davis aims to fix broken soils, and Putah Creek is in good shape, but there are some plant growing issues
- There are areas that are small in size but that have large effects, and for that reason are chronically barren
- Need to evaluate soils systematically to target the problem to fix it, and then plants will come in and make a self-sustaining ecosystem

- Soils will settle if there are no plant or microbial input, pores will disappear, and we will essentially get bricks of soil and adobe
- Soils need plant input to keep going
- There are multiple growth limiting conditions, and rapid screening can identify deficiencies to systematically treat and get plants to flourish

#### **4 key factors**

1. Identify outcome
2. Soil hydrology
3. Soil fertility
4. Microbial activity

#### **Case study Car Bridge:**

**Step 1:** Have a reference site; what does everyone agree on to get started?

**Step 2a:** What is the infiltration rate and capacity? We have to model a storm, and then turn the soil and add some treatments, then model the same storm. This is adaptive management without spending money and time.

**Step 2b:** We then need to assure adequate retention of moisture so that plants can grow all summer. What if there is more evaporation than rainfall? Treat and manage.

Plants will spread roots so we will make soil deeper, irrigate more, and plant different plants.

**Step 3:** Dealing with soil fertility and chemistry

**Step 4:** Soil microbial activity; check spores and complete other tests

Trenches at Phase 2:

- There was gravel or construction fill over the natural beds
- Roots can't get down and it's tough to get water through
- Now after the trenches, there is water 70 feet from creek
- The plants are tall
- The issue of compacted surface is now solved

Upper Putah Creek:

- How deep is water for plant growth?
- Roots manage to get down, the water is down 17 feet
- How can new plants get roots down there?
- What can we do to get them down to that water level?

Wild rose

- In regards to the culvert on the East end of Winters

- Is there a way to capture the water
- Can we utilize this flow?

#### Conclusion

- The protocol used applies soil evaluations to make sure the plants have what they need to grow and be successful.
- Case studies lead to questions
- This data needs to be compiled into an 'expert system' with topical questions and be argumentative and can be easily referenced.
- Baseline vegetation data to see how vegetation responds to these treatments? Height and cover.
- Trenches bare, growing now, monitoring plant growth (Needs to be done) end of season growth (winter and dry summer), these are strips because trenches are linear

**Herb Wimmer:** We always think of things that we could've done, but where we are starting now, I am pleased to see, that although it's not perfect we are going to get there. We've got a kind of baseline that we can carry forward.

**Andrew Fulks:** We need to take an approach for areas that are barren, determine the floodplain, clear the tamarisk, see change in hydrology and have a process would be helpful for revegetation. We need to do a soil investigation before planting.

**Vic Claassen:** We have a data management issue that we need to address.

**Alan Pryor:** Will there be information so that plans can be adaptive and not make the same mistakes from phase 1 and 2?

**Vic Claassen:** Yes, we did perform, then ran into limitations. We will be able to see the minimum requirements, and then field crews can see those requirements and construct. We need to verify technically and then turn it into something constructible.

**Alan Pryor:** What will be different in phase 3 and NACWA?

**Rich Marovich:** Phase 1 and 2 and Car Bridge we had to make amendments, but we've learned from that. Other sites won't need that amendment. Some sites have 16-foot growth in one year. The soil was just right so no amendments were needed. On Phase 2 south side, we dug down to the moisture and planted cottonwoods and grew 1 gallon plants, monitored them, and they continued growing and didn't need anything. We are figuring it out. Are we there yet? No but we will get there.

**Alejandro:** For Phase 3 NAWCA will you be consulting?

**Alan Pryor:** Are there things that will be done differently?

**Rich Marovich:** Yes

4	10	LPCCC will discuss:	Greenhouse Operations	Patterned Calendar
			Riparian Diversions	
			Interagency Communications	

**Greenhouse operations update:**

- We have thousands each of elderberry and toyon seedlings
- Cuttings growing
- 1 year old cottonwoods taken and potted, establishes plants well enough for trees to take off and chase moisture, close to 3000 looking to plant later this year, watered by drip irrigation which saves water and the plants are doing better,
- CALFIRE center in Davis is modernizing the nursery
- volunteer events are on Putah Creek Council website

**Riparian diversions**

Mark is on vacation, but everything has been going smoothly since 2008, farmers are cooperating to manage flow, no violations, coordination is working and has been doing well since 2008.

**Interagency communications**

- Putah creek trout inter-dam reach projects for spawning habitat
- UC extension remote sensing drones, speeds up post project documentation
- FEMA work is to begin 2019
- Sacramento Valley Water interviewed us to publicize the success of salmon projects
- Mertz’s rock dam - unlawfully installed in 2006 – impounded up to five feet of water that is adversely affecting vegetation and wildlife about a mile upstream. Since Mr. Mertz has refused to voluntarily remove the rock impoundment, DFW is pursuing an enforcement action. The impoundment has drowned edge vegetation, ruined spawning habitat and complicated design of upstream restoration work due to uncertainty about water surface elevation. The dam may not actually fall on the Mertz property. A 1950 court judgment found that the southern property line of the north bank neighbor falls south of the dam. The north bank neighbor, Mariani wants dam removed if it’s found to be their property.
- CVFPB- Phase 3 and NAWCA 3 permits are all approved

**Andrew Fulks:** Can the salmon get past Mertz’s dam?

**Rich Marovich:** They can get through a high flow bypass that beavers haven’t plugged yet. That bypass also limits the elevation of the impoundment. Mertz had a 1600 permit for his pond that allowed him to dig a channel from the creek, but it didn't include impounding the creek. As the pond has naturally filled with sediment, Mr. Mertz impounded the creek to maintain depth of his pond at the expense of the creek. The dam is not the only 1600

violation. We are hopeful for a negotiated solution. If the dam was gone, I believe that we could resolve all other DFW complaints and the impact it has on spawning upstream.

5	10	<b><u>Streamkeeper Report:</u></b> The <u>Streamkeeper</u> will report on status of projects.
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For the current and coming months, June and July, a map was presented showing the three types of projects:

- Erosion control,
- paths, and
- vegetation management.

This is the first of monthly reports on where we are working and what types of projects we will be working on.

6	10	<b><u>Planning Subcommittee:</u></b> The <u>Streamkeeper</u> will report on the planning subcommittee recommendations for future projects.
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The following work is proposed:

- More acreage for NAWCA, proposing eucalyptus control
- Coastal commission funds gravel scarification before salmon run
- There will be three days of work, Ken Davis will propose those sites, loosen as much gravel as practical down to Pedrick Road.

**Patrick Huber:** Is there a timeline for NAWCA 3?

**Rich Marovich:** We need to define property boundaries east of Highway 505 for eucalyptus removal. One candidate site is owned by Solano County and another is owned by the McNamaras. Eucalyptus is uncommon on Putah Creek upstream of Winters. We work from upstream to downstream wherever possible to control spread of this invasive tree.

**Glen Holstein: What species of eucalyptus?**

River Red Gum (*E. camaldulensis*), the most common eucalyptus in its native Australia and highly invasive on Putah Creek.

**Patrick Huber:** How is wood disposed of at sites?

**Rich Marovich:** The wood usually stays on the property as log revetments or is burned.

7	10	<b><u>Putah Creek Council Report:</u></b> Kent Anderson will report on PCC activities.
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**Kent Anderson:**

- Putah Creek Council recently moved to new office, across the street at 107 Main Street
- Flood board hearing attended
- Salmon festival meeting add agencies and organizations
- Adopt-a-flat seed propagation project served 100 students
- Toured landowner property to see restoration work on creek, appreciates Herb Wimmer for opportunity to see work on private land
- Supervisor tour with streamkeeper tomorrow to see Monticello dam and restoration
- Internship program this summer
- Nursery program and stewardship assistant
- Prop 1 design team calendar, focus group meetings July and August and public meetings in September, a formal calendar will come out soon

**Patrick Huber:** Will there be a science team for Prop 1?

**Kent:** Yes, timeline shared last time, meetings will reconvene and move forward after (September/October) and get the group back together after.

- Waterways concluded, 1500 students through that program, trying to double funding and students for next year serve all 4<sup>th</sup> and 5<sup>th</sup> graders, 3 year ramp up if Water Agency agrees to fund it
- Video about nursery shown, recommended for presentations to agencies

8	10	<b>Member Reports:</b> LPCCC members will have an opportunity to report.
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**Andrew Fulks:** Planning has started for a nursery expansion at UC Davis for LPCCC/PCC nursery. Met with nursery supplier to start having a discussion.

**Patrick Huber:** City of Davis is installing user trails by South Fork Preserve. Chris Gardener is planning that out and will lead volunteers to put in paths for public access.

**Alan Pryor:** Will there be paths on other side of Mace Blvd?

**Patrick Huber:** It may not be looking great for putting the overlook in, but trails yes.

**Kent Anderson:** We are working with one creek internship program to put in some work this summer too.

9	5	<b>Correspondence:</b> The LPCCC will review any significant correspondence.
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No correspondence to report.

8	-	<b>Next Meeting:</b> The LPCCC will hold a decision meeting Thursday, July 12 <sup>th</sup> at the Davis Police Department, 2600 Fifth Street, Davis from 3:30 to 5:00 PM.
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Next meeting Thursday July 12<sup>th</sup> at Davis police department 3:30-5:00.



**Attendees:** Solano: Justen Cole, John Kluge, Roland Sanford, Herb Wimmer  
Yolo: Harold Anderson, Andrew Fulks, Jessica Jones, John Vickrey, Alejandro Garcia.  
Quorum: Yes.

**Consultants:** Kent Anderson (PCC), Steve Culberson (PCC), Vic Claassen (UC Extension Soil Scientist),  
Chris Rose (SRCD), Melanie Truan (UCD Museum of Wildlife and Fish Biology)

**Staff:** Nicolle Herr, Nina Levin

**Public:** Alan Pryor (FOPC), Glen Holstein (CNPS)



**LOWER PUTAH CREEK COORDINATING COMMITTEE**

**To: LPCCC Board Members**

**From: Rich Marovich, Streamkeeper**

**Date: July 12, 2018**

**RE: 2018-2019 ACCORD BUDGET**

**BUDGET IMPACT:** Plan to fully expend LPCCC Annual Funds

**RECOMMENDATION:** Approve action items for vegetation management and fish monitoring.

**SUMMARY:** This is the proposed 2018-2019 budget for LPCCC annual funds. Per the Putah Creek Accord, the annual budget of the LPCCC is adjusted each year for inflation using the U.S. Department of Commerce Bureau of Economic Analysis Implicit Price Deflator. This year the Accord funds increased by 1.21% to \$228,820.

<b>Year</b>	<b>SK Salary</b>	<b>Fish Monitoring</b>	<b>Wildlife Monitoring</b>	<b>Vegetation Management</b>	<b>Accord Budget</b>	<b>% change</b>
18-19	\$ 58,704	\$ 77,968	\$ 77,968	\$ 14,175	\$ 228,820	1.21

**BACKGROUND:** The LPCCC administers annual funds provided by the Putah Creek Accord.

**Annual Funds:** The LPCCC administers four annual accounts: the Streamkeeper salary fund, the vegetation management fund, the wildlife monitoring fund and the fish monitoring fund.

**STREAMKEEPER SALARY ACCOUNT (\$58,704):** The Streamkeeper salary account currently covers 36% of the Streamkeeper's salary and benefits (\$163,200) with the balance either covered by grant reimbursements or SCWA. The Streamkeeper time base changed from 80% to 100% as of March 2018 with SCWA agreeing to cover the balance of Accord funds and grant reimbursements as of that time.

*No action required.*

VEGETATION MANAGEMENT (\$14,007): The LPCCC has substantial grant funds for vegetation management through IRWM and NAWCA. The vegetation management fund is typically used to maintain planting and weed control for existing projects.

***Action item: Approve reserving Vegetation Management budget for maintenance of existing projects.***

WILDLIFE MONITORING ACCOUNT (\$77,968): The wildlife monitoring account is fully allocated to a 10-year contract with U.C. Davis, as previously approved by the LPCCC.

Wildlife monitoring \$77,968 (encumbered)

***No action required.***

***No action required.***

FISH MONITORING ACCOUNT (\$77,968): The LPCCC fish monitoring account has funded electrofishing, salmon monitoring and invertebrate monitoring since 2003. LPCCC salmon monitoring has been subsumed by a larger study funded directly by SCWA and awarded to UC Davis but support of SCWA staff is needed to place and remove the rotary screw trap and to make minor modifications of a rock weir to accommodate the trap and to restore the crossing associated with the weir when the trap is pulled.

Electrofishing – Normandeau	\$30,000
Salmon Monitoring - LPCCC Staff	\$10,000
Invertebrate Monitoring – Ken Davis	<u>\$37,968</u>

Total \$77,968

***Action item: Approve Fish Monitoring budget.***

LPCCC Grant Budget Report

**Grant Budget \* As of 5/31/18**

These funds come from grants and are spent on labor , materials , and contracts for restoration projects

Grant #	Grant Description	Grant Date	Grant Total	End Year	Fiscal Year					Total Rec'd To Date	funds committed	Funds Avail 18-19	Status &
					2001-14	14-15	15-16	16-17	17-18				
1	Arundo I	6-01	\$ 219	05	\$ 206					\$ 206			C
2	WMAP/CalFed 128	7-02	\$ 600	05	\$ 600					\$ 600			C
3	Pin 96	1-05	\$ 992	07	\$ 992					\$ 992			C
4	WCB Riparian	8-04	\$ 1,207	07	\$ 1,207					\$ 1,207			C
5	Yolo Housing	6-04	\$ 280	07	\$ 267					\$ 267			C
6	Watershed Stew	6-04	\$ 93	08	\$ 85					\$ 85			C
7	Urban Streams**	5-05	\$ 345	08	\$ 310					\$ 310			C
8	City of Winters	6-05	\$ 53	08	\$ 29					\$ 29			C
9	Arundo II	6-06	\$ 61	08	\$ 61					\$ 61			C
10	WRA of Yolo	6-10	\$ 10	09	\$ -					\$ -			C
11	Wimmer	7-07	\$ 17	09	\$ 17					\$ 17			C
12	River Parkway 1	6-06	\$ 452	09	\$ 452					\$ 452			C
13	Winters Area	6-07	\$ 536	10	\$ 536					\$ 536			C
14	Farm/Ranch Cleanup	7-12	\$ 11	13	\$ 11					\$ 11			C
15	River Parkway 3	7-07	\$ 988	12	\$ 985					\$ 988			C
16	River Parkway 4	6-11	\$ 1,048	12	\$ 1,048					\$ 1,048			C
17	OHV	10-10	\$ 400	13+	\$ 376					\$ 376			C
18	LPC Priority Projects	6-11	\$ 1,987	15	\$ 1,683	\$ 272	\$ 31			\$ 1,986			C
19	NAWCA2	7-12	\$ 360	13	\$ 360	\$ -				\$ 360			C
20	Parker Grant	7-12	\$ 36	13+	\$ 14	\$ 22				\$ 36			C
21	Pleasant Creek Sed	6-11	\$ 960	15	\$ 331	\$ 628	\$ 1			\$ 960		\$ -	C
	<b>Subtotal</b>		<b>\$ 10,655</b>	<b>\$ 90</b>	<b>\$ 9,570</b>	<b>\$ 922</b>	<b>\$ 32</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 10,527</b>			
22	River Parkway 5	11-12	\$ 1,163	16	\$ 136	\$ 211	\$ 232	\$ 71	\$ 200	\$ 850		\$ 313	A
23	NAWCA3	7-12	\$ 360	15						\$ -		\$ 360	A
24	IRWM	12-15	\$ 415	19				\$ 101	\$ 182	\$ 283		\$ 132	A
25	DFW-ERP PROP 1	8-16	\$ 990	19				\$ 207	\$ 246	\$ 453		\$ 537	A
26	Coastal Commission	6-17	\$50	19				\$ -	\$ 6	\$ 6		\$ 44	A
	<b>Subtotal</b>		<b>\$ 2,978</b>		<b>\$ 136</b>	<b>\$ 211</b>	<b>\$ 232</b>	<b>\$ 379</b>	<b>\$ 634</b>	<b>\$ 1,586</b>		<b>\$ 1,392</b>	
	<b>Subtotal to Date</b>		<b>\$13,633</b>		<b>\$9,570</b>	<b>\$1,133</b>	<b>\$264</b>	<b>\$379</b>	<b>\$634</b>	<b>\$12,113</b>		<b>\$1,392</b>	
	FEMA Wragg Fire	7-18	\$442									\$442	
	<b>Subtotal</b>		<b>\$442</b>							<b>\$0</b>	<b>\$0</b>	<b>\$442</b>	
	<b>GRAND TOTAL</b>		<b>\$14,075</b>		<b>\$9,570</b>	<b>\$1,133</b>	<b>\$264</b>	<b>\$379</b>		<b>\$12,113</b>		<b>\$1,834</b>	

Footnotes

\* Amounts rounded to nearest \$ 1000 in this report - to nearest cent in actual accounting

& Status: C = Completed and closed ; A = Active ; F= Future ( awarded but not contracted ) ; P = Prospective (applied for but not awarded)

Fiscal Years July 1 through June 30:

\*\* Grant award reduced due to State budget c