



MEETING AGENDA – CALIFORNIA FISH PASSAGE FORUM

Objectives: Follow-up previous meeting action items; develop new action items to address emerging issues; discussion of progress implementing work plans

Date and Time: May 2–3, 2017
May 2 meeting to be held at the Channel Islands Lodge, 482 E Santa Clara St., in Ventura, California, 93001, from 8am–5pm
May 3 portion of the meeting will be a field trip (see detailed agenda), 8am–5:35pm

Location: GoToMeeting conference call/webinar

To participate in the meeting: Tue, May 2, 2017 8:00 AM – 5:00 PM PDT

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AGENDA

OUTCOMES

8:00AM – 8:30AM	<p><u>Welcome and introductions – review of agenda:</u> Introductions of Forum members and guests, housekeeping, agenda review, review of field trip and logistics for tomorrow, announcements, receive updates from Forum members on their respective action items from the past Forum meeting; remind committee chairs about Forum work plans</p>	INFORMATION
8:30AM – 9:30AM	<p><u>Forum Housekeeping</u> Forum members will discuss Forum committee work plans, NFHP funding updates, and Forum budget decisions for 2017.</p>	INFORMATION
9:30AM – 10:15AM	<p><u>A Workshop to Advance Biological, Permitting and Engineering Issues Associated with Fish Passage Barrier Remediation</u> Forum members will discuss the concept for a workshop to advance issues associated with fish passage barrier remediation in California.</p> <p>The workshop, a collaborative think-tank, is intended to convene fish passage practitioners to discuss ways to improve the efficiency and efficacy of fish passage projects. Workshop attendees will develop a set of issue statements in each of the three disciplines, develop a set of potential action items and solutions to address the issues, and develop a mutually agreed upon schedule to implement the action items and solutions.</p> <p><u>Action:</u> Forum members will discuss the timing, potential attendee list, location, and other details of the workshop.</p>	DECISION
10:15AM – 10:45AM	<p><u>BREAK</u></p>	
10:45AM – 11:15AM	<p><u>R2 Resource Consultants</u> Steve Howard with R2 Resource Consultants, an aquatic biology and engineering firm, will be presenting information on projects their firm is working on in Central and Southern California.</p>	INFORMATION
11:15AM – NOON	<p><u>Juvenile Fish Passage</u> Rick Wantuck/Dave White will be providing an update on their juvenile fish passage project. The preliminary results of testing to date show that there is a swimming/leaping ability threshold (correlated with body size) that coho and steelhead need to achieve to be capable of consistently leaping a waterfall of 12 inches. Project leaders wish to pose and discuss the following questions with Forum members (to introduce the discussion and determine key next steps – <i>potentially</i> convene a workshop with experts to answer the questions and discuss next steps):</p> <ul style="list-style-type: none"> ▪ Is there a size (FL) below which we are not concerned with effective passage of juveniles? ▪ If so, what is the biological/ecological rationale for excluding passage of certain size/age classes of fish, and does the decision to pass only juveniles of a certain 	DECISION

	size/age (e.g. - > 80 mm? >120mm?) have any deleterious population level effects?	
NOON – 1:30PM	<u>LUNCH</u> (on your own)	
1:30PM – 1:45PM	<u>Central Valley Landscape Conservation Project (California LCC)</u> Present an update on a landscape-scale conservation design in the Central Valley (<i>J. Linares</i>)	INFORMATION
1:45PM–2:15PM	<u>Fish Passage Barrier Remediation on US Forest Service Lands in California</u> Discuss the goals the National Fish and Wildlife Foundation has for fish passage barrier remediation on US Forest Service lands in California as well as priority barriers Forum members have identified in those same watersheds (<i>Jonathan Birdsong – NFWF – guest</i>)	INFORMATION
2:15PM – 2:30PM	<u>Arroyo Sequit Fish Passage</u> Stacie Smith with NOAA will give a short presentation on the Arroyo Sequit Fish Passage Project, which recently had steelhead pass the old barrier site this year for the first time in several years. After her presentation, Forum members and guests will have additional opportunity to share other case studies and examples of successful fish passage barrier projects that are passing fish as a result of increased water flows in 2017.	INFORMATION
2:30PM – 2:45PM	BREAK	
2:45PM – 4:00PM	<u>FISHPass</u> Forum members will discuss the outcomes of the previous two FISHPass testings, and will conduct FISHPass demonstrations on Gaviota, Smith, and Ventura Creek watersheds.	INFORMATION
4:00PM – 4:15PM	<u>Wrap-up, Share Action Items, and Prep for Field Trip Next Day</u>	INFORMATION
4:00PM	<u>Adjourn</u>	

May 3, 2016

Field trip led by **Moe Gomez** of **South Coast Habitat Conservation** and **Peter Sheydayi** of the **Ventura County Watershed Protection District**.

Sack lunches will be provided.

Depart Ventura – Crowne Plaza Hotel	8:00 AM
Arrive Santa Ana	8:30 AM
Santa Ana Site Visit	30 mins
Depart Santa Ana	9:30 AM
Arrive Roble Diversion	9:45 AM
Robles Site Visit	1 hour
Depart Robles	10:45 AM
Arrive Camino Cielo	11:00 AM
Camino Cielo Site Visit	30 mins
Leave Camino Cielo	11:30 AM
Arrive Matilija Dam	11:45 AM
Matilija Dam Site Visit	1 ¼ hour
Depart Matilija Dam	1:00 PM
Arrive Ventura	1:30 PM
Depart Ventura	1:30PM
Arrive Carpinteria	2:00PM
Carpinteria Site Visit #1	30 mins
Carpinteria Site Visit #2	30 mins
Depart Carpinteria	3:00PM
Arrive El Capitan	3:55PM
El Capitan Site Visit	1 hour
Depart El Capitan	4:55PM
Arrive Ventura	5:35 PM

Santa Barbara Fish Passage Tour (see next page for a graphic detailing the different project components)

Site 1 - Upper Carpinteria Creek Site

This barrier was removed in 2015 and was the final major barrier in the watershed. The barrier was made of an undersized vehicular bridge along with approximately 90' of concrete in the stream channel made up of 3 steps. The project was designed by Waterways Consulting, Inc. and constructed by Shaw Contracting, Inc. The project involved the removal of the old bridge and concreted stream channel, installation of a new wider spanning bridge and regrading the stream to match upstream/downstream reaches. A pool was constructed as part of the project with a large woody debris structure. Stream banks were treated with erosion control fabric and revegetated with native plants with assistance from the California Conservation Corps. The removal of this barrier now allows for anadromous steelhead to return to their native habitat after decades of barriers being in place in the watershed.

Site 2 - Pinkham Ranch - Carpinteria Creek

This barrier was removed in 2013 and was made of an undersized vehicular bridge along with approximately 80' of concrete in the stream. The project was designed by Questa Engineering, Inc.

and constructed by Shaw Contracting, Inc. The project involved the removal of the old bridge and concreted stream channel, installation of a new wider spanning bridge and regrading the stream to match upstream/downstream reaches. Two pools were constructed as part of the project with a large woody debris structures. Stream banks were treated with erosion control fabric and revegetated with native plants with assistance from the California Conservation Corps.

Site 3 - El Capitan Creek

This watershed was the subject of intense flooding during January and February of 2017, following the burning of the upper watershed during the Sherpa fire in 2016. During the January storm 3.76" fell during a 8 hour period, with 1.8" falling in one hour. During the February storm and additional 5.64" in 24 hours caused additional stream impacts. As a result of the rains, the stream channel experienced a major debris flow that caused significant damage to property at the private El Capitan Canyon Campground and the El Capitan State Beach Campground. Five cars washed onto the beach with the first storm. Both properties are connected via the CalTrans culvert. The culvert is 450' long and was modified in 2007 to improve fish passage by installing baffles. El Capitan Canyon is in the process of developing a long-term solution to restore the creek. At State Parks, efforts are underway to replace the undersized culvert with a clear span bridge to improve fish passage and safety at the site.

Matilija Dam Ecosystem Restoration Project



Matilija Dam Today



Artist rendition of Matilija Creek after Dam removal

PROJECT OBJECTIVES

- Improve Aquatic and Terrestrial Habitat Along Matilija Creek and Ventura River
- Restore Natural Processes to Support Beach Replenishment
- Enhance Recreational Opportunities
- Restore Fish Passage

Recover Endangered Steelhead

Dam removal will restore steelhead access to over 20 miles of perennial habitat in the Matilija Creek watershed.



• approx location of low level outlets

Removal of Matilija Dam

will first require modifications to the downstream infrastructure as shown. Then reservoir sediment will be flushed through two 12-foot diameter outlets so that the dam can be safely removed



Habitat Restoration
Over 270 acres of invasive *Arundo donax* "giant reed" have already been removed from the watershed to restore riparian habitat



Live Oak Levee
Reconstruction will bring levee up to FEMA flood control standards



Beach Replenishment

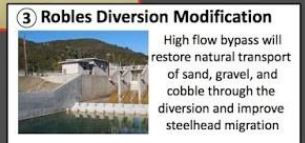
Dam removal will restore sand and cobble deposits from the river to support natural beach replenishment and protect coastal property



Santa Ana Bridge
Replacement bridge will widen floodplain to accommodate increased sediment flow



Camino Cielo Bridge
New bridge will accommodate increased sediment flow



Robles Diversion Modification
High flow bypass will restore natural transport of sand, gravel, and cobble through the diversion and improve steelhead migration



Meiners Oaks Protection
A new structure will protect residential community from flooding



photo credits: Jim Martin, Raymond Powers, Matt Stoeker
design and GIS: Cynthia Hartley 2016

