Strong Collaborative Process

A Case Study: The Redwood Creek Estuary

Collaborative



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Inter-being

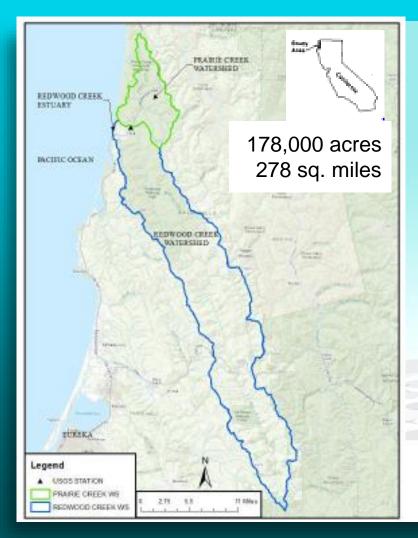
Using the power of collaboration to advance conservation and recovery of salmon and steelhead.



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Presentation Outline

- Setting: Redwood Creek Estuary
- Process: Principles and Practices of Collaboration
- Case Study: Examples from the Redwood Creek
 Estuary Collaborative
- Take-aways



Estuary Brief History

- Yurok unceded ancestral territory
- Late 1800s European settlement
- 1920s conversion from spruce-alder forest wetland complex to agriculture
- o 1953-1981 sawmill on the beach
- 1968 RNP established
- 1968 USACE builds 3.4 mi of levees and Humboldt County becomes local sponsor
- 1969 Evidence of process dysfunction





Fish & Habitat Setting

- The main tributary, Prairie Creek, is a climate and salmon stronghold
- Approx. half watershed in State/Fed ownership
- Levees cut off floodplain, and disrupt the stream-estuary ecotone
- Estuary is 25% of historical area
- Independent populations of SONCC coho salmon, CC Chinook salmon and NC steelhead, all essential or core to species recovery

Redwood Creek Estuary: The setting

Yurok Ancestral Territory - Lower Redwood Creek and Estuary - Land **North Coast** Regional **Land Trust** County Road Hufford NCRLT Historic Yurok Tribe Ancestral Territory Tidal Influence Zuber Levees: USACE & National County **Humboldt County** Park Service

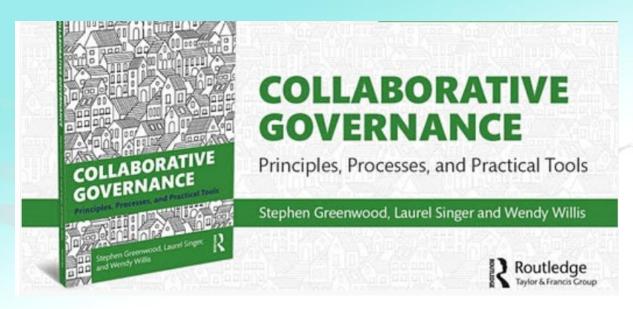
An Opportunity and Challenge

- Lack of drainage causes flooding on agricultural lands on the outboard side of the levees
- Modification of a Federal flood control project requires USACE or Congressional authority
 - Pvt Landowners
 - NPS
 - **Humboldt Co.**
 - USACE
 - NR Land Trust

- > Yurok Tribe
- CalTrout
- NOAA Fisheries
- USFWS
- o CDFW

Redwood Creek Estuary: The setting

Sources: Greenwood et al., (2021) and Portland State University Course PA 575: *Foundations of Collaborative Governance*



Collaborative Principles and Practices

Collaboration: Two or more entities working together for mutual benefit (win win).

Two main types of collaboration:

- Agreement seeking (aligning interests to reach decision)
- Collective Action (aligning actions and resources)

Why collaborate?

- Interdependence is a key reason to collaborate: we can't get what we want on our own and each of our actions or inactions affects each others outcomes.
- The purpose of a collaborative relationship is to improve your outcome over what it might otherwise be.
- The other people in the collaborative relationship are also looking to improve their outcome.

Building Collaborative Relationships: trust, reciprocity and cooperation

Collaboration is not intuitive and requires new skills and practices that don't always come naturally (TNC 2015).

Trust is a result of cooperation rather than a condition of cooperation (Gambetta 1998).

- 1. Go slow to go fast.
- 2. Listen with an intent to understand.
- 3. Ask for opinions, ideas, help, etc.
- 4. Establish contingent agreements rather than leverage.

Mutual Benefits: improve your outcome by finding the win-win

- Convene key stakeholders and provide a neutral forum.
- Define interests based on values.
- Analyze BATNAs (Fisher and Ury 1991) to determine if collaboration is needed and deepen understanding of each party.

Employ effective group process and decision making:

- Frame the issue as a decision to be made.
- Develop decision criteria based on values and interests to assess ideas.
- Help the group focus efforts on the decision space.

Joint Discovery: involve key parties in each step

People make choices based on a handful of deeply rooted values that are unlikely to change.

Facts are different from values. Facts change as we learn more. Sharing and questioning facts helps us learn more rapidly (TNC 2015).

The Importance of Conveners

- Gregory Hufford
 - Landowner and project champion
- Mary Burke
 - CalTrout, neutral facilitator, process guide

Trust is a result of cooperation rather than a condition of cooperation.

- Leslie Wolff
 - NOAA Fisheries, process guide, resource expert

Values, Interests and Interdependence

A year of meetings

- Facilitation and meeting planning
 - Safe meeting space everyone's ideas are heard equally
- Early efforts with small group built trust
 - Laughing and joking, body language indicated progress toward positive relationships
- Understanding of interdependence
- Site tour



Redwood Creek Estuary Collaborative - Case Study

Values, Interests and Interdependence

- Within the first few meetings we established values:
 - Private landowners: Partnerships; land stewardship; economic viability; maintenance security; permit assistance
 - Agencies: Ecosystem recovery; recreational value; collaborative process and partnerships
- And interests
 - Improvement in estuary function and aquatic habitat
 - Economic viability and recreational value
 - Land stewardship, flood control maintenance security, and
 - Permit assistance
- Interdependence means contingent agreements rather than leverage

Decision making framework

Getting to Agreement: Develop Criteria

Example Issue Framing: Decide on three conceptual design alternatives that meet the objectives of salmon recovery and productive agricultural lands, are implementable, and consider upstream channel maintenance and flood control.

Example Values

- Timeliness of action for landowners and resource agencies
- Landowner-led process
- Local initiative and expertise
- Salmon recovery
- Productive agricultural lands
- · Rural lifestyle
- Community
- Update and maintain water management infrastructure

2/13/2019

Example Criteria

- Mouth of Sand Cache Creek open and drains agricultural fields on the Hufford's private lands.
- Provide a process-based restoration approach that will allow habitat to evolve over time for salmon recovery.
- Protects the Zuber's private lands from the 100-year flood.
- Consider upstream channel maintenance and flood protection level.
- Levee footprint modification can be done without oversight and requirements of the Corps.
- Levee footprint modification can be implemented by the San Francisco Corps District with a continuing authority program.

Getting to Agreement: Use Criteria to Assess Alternatives

Developing Alternatives: Consider how design ideas meet criteria, and how the alternative could be implemented.

Example Alt 1: Pull north levee back to Park boundary; re-route mainstem Redwood Creek into South Slough and armor bank.

- · Partially meets criteria #1 and 2
- Meets criteria #3
- #5 and #6 depend upon the chosen implementation process

Example Alt 2: Set-back north and south levees and tie into existing roads or infrastructure.

- Meets criteria #1, 2
- Partially meets criteria #3
- #5 and #6 depend upon the chosen implementation process

Example Alt 3: Set-back north levee and tie into existing road; re-route mainstem Redwood Creek into South Slough and armor bank.

- Meets criteria #1, 3, and partially meets #2
- #5 and #6 depend upon the chosen implementation process

None of these examples address criteria #4

Use 2d hydraulic model to help gather facts and evaluate design ideas: Test water inundation levels, frequency, and whether salt or fresh water inundation of fields; evaluate water velocities; determine flood protection levels of new surfaces.



Evaluate alternatives on how they meet the criteria: Use 2d model results to learn how design ideas respond to floods and tides. Use both the new information generated by the model and the values reflected in the criteria to help reach agreement.

Frame the issue as a decision: "Can we identify a conceptual project?"

Develop decision criteria based on values and interests to assess ideas.

We identified and agreed on a win win conceptual project.

Conceptual design development

Go slow and work from group agreement

REDWOOD CREEK ESTUAR STAKEHOLDER GROUP

Gregory Hufford Maria Zuber Landowner Representatives

Darren Merau Mary Burke Coffront

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Bob Pagliuco NOAA Restoration Center Steve Metz

Leonel Arguello David Anderson Vicki Ozaki Redwood National Park In review, pending edits from:

Craig Conner USACE San Francisco District DRAFT Redwood Creek Estuary Stakeholder Group Consensus Statement

INTRODUCTION

Redwood Creek is a critically important watershold in morthern costal Collifornia. The watershol hosts Redwood National and State Parks, working agricultural and timber lands, the town of Orick, and populsitions of threatment salmon and steel-fleed. The estimacy and four miles of lower Redwood Creek are boundly a 1064 Merry Corps lever system that was installed to provide flood protection to the best of the control of the bulk has presented floor, term militared consequences and increasingly undesirable conclusions for traditional land use operations, public askey, and salmonds thattat.

CONSENSUS REGARDING STAKEHOLDER GROUP

The Redwood Creek Estuary Stakeholder Group convened at the request of landowner representatives in order to identify areas of agreement that can be used to develop a project that will resolve some of the long-term issues. The stakeholder group has agreed to work towards a common set of goals that protect land

Northcoast Regional Land Tru

The stablesholer group includes representatives from 10 private hardwarers 20 belowed Montional Parking 20 Mar Belevier and Escharation Centre, 41 (SEC, and., 5) California Trout, a natural resource some sport that its primarily providing group facilitation. The stablesholers value a transparent and foodbloomstrie privoses. Marbiers acknowledge the commitment involved and respect the diverse interests and viscopoints expressed by all members seeking to advance shared gash. The group seek participation from Humbildic Country in the level apposed for the landowners. The group acknowledges the eventual need for U.S. Congressional, California Legislature, and other stablesholers support.

Complex and Urgent Issues

Members agree that the conditions and processes in the estuary are complex and will require solutions that consider physical, ecological, and social factors. The group agrees that the existing conditions of flooded agricultural lands and roads, and the declining status of salmon and steelbead populations, present an urgent need to identify a viable solution in the near future. consensus around shared goals, the group has

qual goals within USACE requirements

nid habitat. store the estuary/agricultural lands through levee ag viable and realistic flood protection through regress

Alternative

d operations plan

sility assessment process is needed to understand the development of a project to achieve the goals of ation of extuary function. A feasibility study is expected of to better understand the future conditions

d long-term projects will be considered to address the son the north side of the estuary. Several mutually ntified that are intended to be as self-sustaining as address County maintenance issues to the extent

th Slough by modifying levee and channel footprint

y along South Slough.

ion between Strawberry Creek and South Slough that sonids during migration while protecting agricultural

asibility of levee setbacks.

nnel downstream of South Slough to become an inform the desired configuration.

ter infrastructure.

p estuary embaymen

nnels and Sand Cache Creek through sediment, removal, with consideration for both short and long-

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bank to at least the NPS property boundary

nefits of additional levee setback or removal or land at a lower height to help primary flow into the

asibility of lever set, backs

ty road, Hufford Road and provide for road crossing at

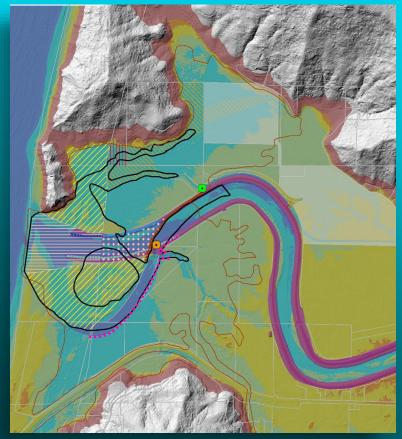
perations and aquatic habitat benefits by improving

non and steelhead. Assessment will inform the extent that supports juvenile rearing conditions.

any project will require investment of public and Given there have been previous efforts to address the tat this current effort should leverage and not repeat and non-profit facilitated process to achieve the at the State has funding available for salmon habitatlove a project forward.

collaborative process to achieve goals of protection of lumar finerion, and stresses that this process will build reve agricultural land as well as estuary function. The telements and acknowledges the need to advance or additional project elements and eventual project from Humbold County and the NRIT and seeks talk while achieving flood protection for viable as all tightesy and the goals and the contraction of the goals where the seeks while achieving flood protection for viable as all tightesy and and the seeks and the seeks and seeks seek

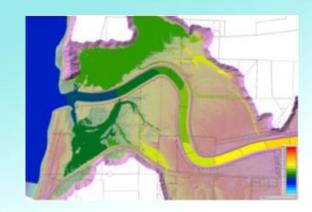
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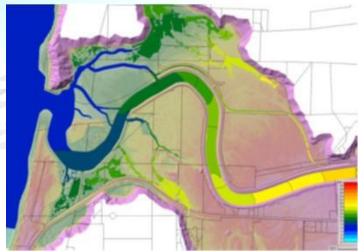


Joint Discovery – Align interests

High flow connection for North Slough / Sand Cache Creek

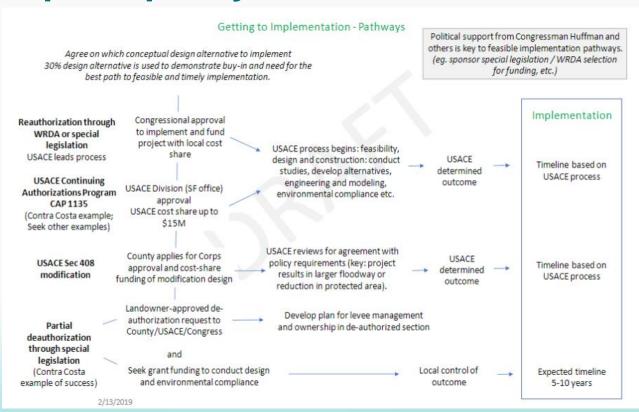
- Policy: Process-based restoration is the goal
- Science: Hydrodynamic modeling will demonstrate expected outcomes
- Jointly Agree: Group will assess various designs and modeling outcomes to determine maximum mutual benefit and win:win





Redwood Creek Estuary Collaborative - Case Study

Explore policy constraints



Frame the issue as a decision: "What implementation pathway is feasible?"

Federal flood control project = USACE process, act of Congress, or partial deauthorization

Joint Discovery Success! Aligned interests for Collective Action

CAP 1135 new start request

- Policy: Modifying the Federal Flood Control Project requires USACE or Congressional authority
- Science/Analysis of the Situation: Regular Steering Committee discussions about various implementation authorities and pathways
- Jointly Agree:
 - CAP 1135 is best next action
 - Humboldt County Board of Supervisors and staff to request a USACE CAP
 1135 new start; joint agreement was demonstrated in each Collaborative member submitting letters of support

An iterative process of Joint Discovery: Next steps involve courageous conversations

- Understanding the value of land ownership
- Explore potential land use changes
 - NRLT land exchange
 - Riparian areas
 - Bank protection
- Understanding the value of salmon recovery
- Explore potential habitat design elements

Redwood Creek Estuary Collaborative - Case Study

Intentional professional development

- Collaborative Governance training from Portland State University
- Cascadia Leadership training from Humboldt Area Foundation

Contingent agreement process

- Establish relationships by exploring values and interests
- Strong relationships are built on trust

Collaborative principles and practices provide

- An alternative to regulatory swagger
- Mutual benefits
- Durable solutions
- Increased community capacity

Take-aways

2024 Update

- Affirmative FID for USACE
 CAP 1135
- Currently in the Feasibility
 Study Phase of the Cap
 1135
- Collaborative Group
 Consensus on design
 alternative
- General Agreement

 language underscores
 intent to collaborate to meet
 multiple objectives in a non-binding way



Take-aways

Thank you to our partners in the Redwood Creek Estuary Collaborative and to the Managing by Network and the Partnership Academy





