

# Yuba IRWM/RWVG Meeting, Feb 17, 2021

*(Thank you for joining us! Please ensure your phone is muted until directed for Q&A)*

## Agenda:

1. Welcome
2. Announcements
3. Reminders
  - Yuba Water Grant Program
  - Yuba IRWM Project Development Circuit Ride Calls
  - RWVG Adoptions of 2018 IRWM Plan
4. Regional Project Highlights
5. Contacts and Next Meeting

# Community Impact Grant and Loan Program Areas

Projects Funded under this new program **must** have goals and objectives that align with one of these key Yuba Water Agency program areas:

- Flood Risk Reduction
- Water Supply and Water Management
- Watershed Resilience (Fire risk reduction)
- Water Education and Conservation
- Bill Shaw Rescue Equipment and Training

# Community Impact Grant and Loan Program Summary

Grant Type	Application Period	Funding Maximum	Must be in the Yuba IRWMP	Notes
Technical Assistance	March 1-April 1; Sept 1-Oct 1	\$10,000	Not for grant; but as a deliverable	Expert Technical Support to develop a project, for submittal to the IRWMP
Planning	March 1-April 1; Sept 1-Oct 1	Based on Budget	Yes	Design, engineering, and/or permitting of an IRWMP Project
Application	6 weeks prior to funding deadline	\$20,000	Yes	Consulting support for Application process and submittal (Capacity Building Grant)
Cost Share	6 weeks prior to funding deadline	Based on Budget/Need	Yes	Local cost share to support eligibility/competitiveness for IRWMP Project Application
Administration and Management	6 weeks prior to funding deadline	\$25,000/yr of Grant Term	Yes	Consulting team to support the Grant Admin and Management (Capacity Building Grant)
Implementation	March 1-April 1; Sept 1-Oct 1	Based on Budget/Need	Yes	For Project with no external grant sources
Bill Shaw	March 1-April 1; Sept 1-Oct 1	\$10,000/grant	No	Emergency rescue equipment and training for Yuba County First Responders (10 grants available per year)
Small Community	March 1-April 1; Sept 1-Oct 1	\$50,000	No	Small, one-off Grants for projects also aligned with the Agency's Mission and Programs (may not warrant the IRWMP integration)

## Yuba IRWM Project Circuit Ride

- Katie Burdick and Keri Rinne continue to offer project development calls or video meetings
- Please feel free to email Keri ([keri.rinne@gmail.com](mailto:keri.rinne@gmail.com)) to request a call from her or Katie for Project Development
- Please **send all project short forms to Keri Rinne**
  - provide as much detail on project tasks, especially **planning vs. implementation** detail, schedule and budgets
- Funding evaluation memos will be sent back to you to help develop a funding strategy



# Yuba IRWM Adoption Reminder

## 1. RWMG Member Organizations Adopt the 2018 Yuba IRWM Plan

- a) IRWMP was updated in 2018 to be consistent with DWR requirements and to be eligible for IRWM Implementation funding
- b) To keep up to date, requiring resolutions to adopt this plan update from ALL RWMG members
  - Requirement for new DWR grant funding
  - Requirement to add projects to the IRWM Plan after 1/1/2021
  - Please submit resolutions to Keri Rinne ASAP
  - In the Resolution or upon submittal please also re-affirm the RWMG voting member and IRWM representative for your Organization

2. The collated 2018 update and the individual chapters updated this year for consistency are available at <https://yubairwmp.org/>

# Yuba IRWM Plan Project Highlights and Updates

1. Camptonville Community Partners Bioenergy Plant Business Center (Lindsey Nitta, CCP)
2. Hallwood Floodplain Restoration Project (April Sawyer, cbec)
3. Innovative Funding Solutions Overview (Jeff Odefey, American Rivers and Vance Russell)

January 2021

# Forest Biomass Business Center

Camptonville Community Partnership



# Today's Outline



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## Outline

1. Project Overview
2. Project Update
3. Current Priorities
4. Next Steps



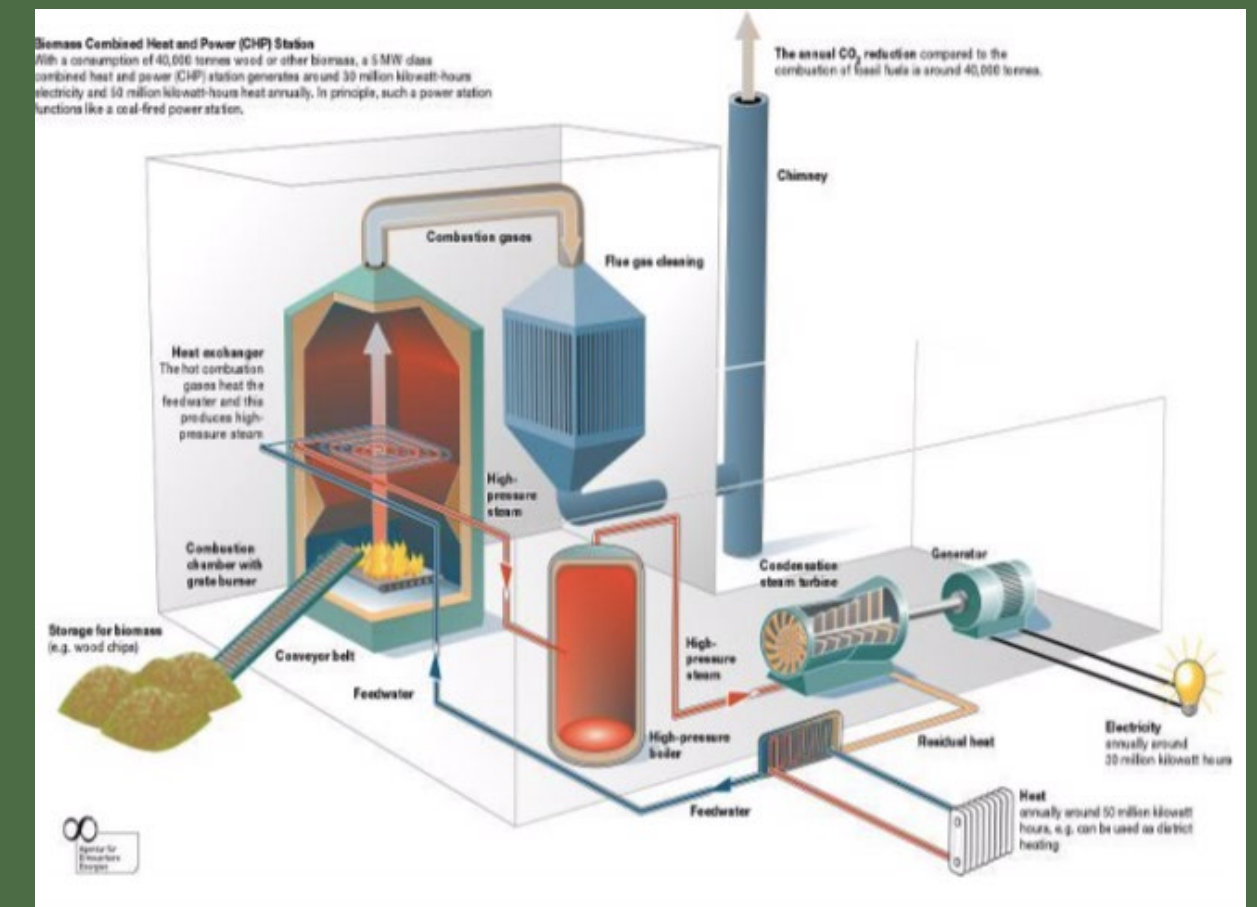
# Project Overview

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# Camptonville FFBC

- Power generation with direct combustion boiler and steam turbine
- Consumes approx. 38,000 BDT of biomass annually
- Support treatment of 2,000+/- acres of forestland per year
- Produce 5MW of renewable energy
- Sell 3MW to PG&E
- Potential for co-located business(es):
  - Seasoned firewood
  - Heat-treated pallets
  - Animal bedding
  - Wood pellets
  - Greenhouse



# Project Innovation

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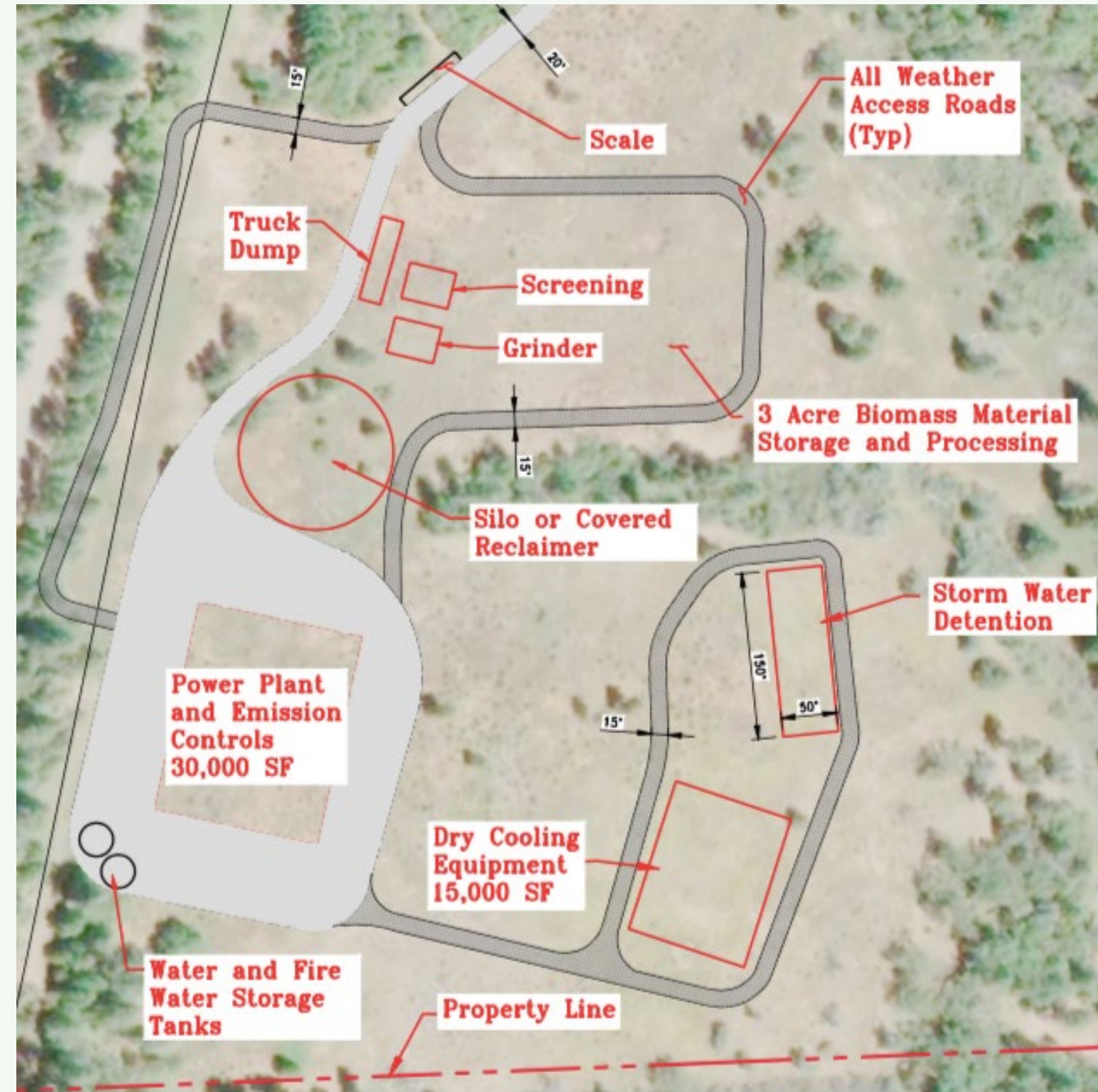
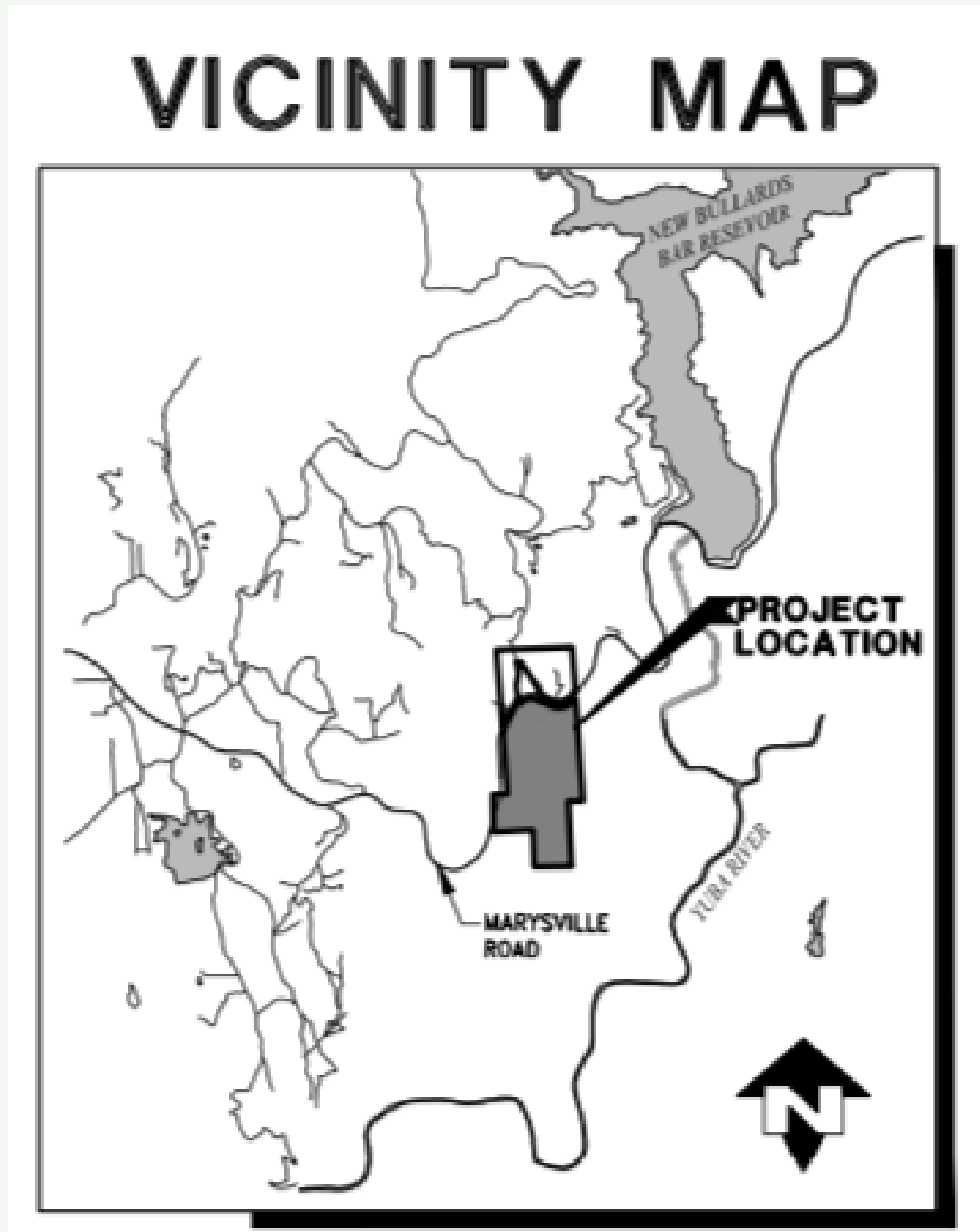
The plant's key technologies have been successfully used as individual components, but they have not been demonstrated as an integrated system at the relatively small scale (5 MW) intended for this project.

The innovation for this project is to design and build a 5 MW forest biomass to electricity power plant utilizing advanced emissions control and low water use condenser.





# Project Site Maps







# Project Update



# Milestones

With the support of our partners the Project have overcome numerous barriers and reach significant milestones.

The Project has completed:

- Economic development plan
- Feasibility study
- Project developer selection
- Formed subsidiary corporation
- Conceptual engineering
- Fuel specification
- Obtained CEQA conditional use permit
- Land lease finalized
- Preliminary design and engineering
- Entered BioMAT queue
- Secured \$6 million+ in grant funding

# Current Priorities

CCP is currently focused on completing:

- Securing the air permit
- Securing feedstock contracts
- Applying to the iBank for a loan
- Signing a Project Labor Agreement with the local unions
- Finalizing ownership model (standing up C -Corp)
- Expanding land lease agreement



# Next Steps

# Timeline

CCP is working to break ground by Q2 2021. Items needed to be completed:

- Secure 20-year PPA
- Close Financing
- Finalize construction plan
- Break ground!





# EXTRA SLIDES





# Ownership Model

# Ownership Model

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- Set up a GCorp (Forest Biomass Business Center) as the ownership model to:
  - Separate the project from CCP
  - Take advantage of tax credits
  - Establish the business as for profit
- FBBC has 100 shares with 100% of the shares owned by CCP. CPP has the opportunity to sell to investors as they see fit.
- CCP is currently strengthening the board with technical professional background,





# Financing

# Financing

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Currently, we are anticipating the bioenergy facility will be privately financed with tax exempt debt financing. We are working toward an aggressive timeline to reach financial close by Q1 2021. CCP has:

- CCP and team have secured \$4.99 million from the CEC for equipment and other project needs.
- CCP and Phoenix Energy are working to secure federal tax credits.
- Phoenix Energy has secured a bank interested in the project. The bank has sent a term sheet for \$20 million USDA loan.
  - *PPA and Feedstock contracts are the major action items to move forward with securing the loan.*



# Phase 1 Construction of the Hallwood Side Channel and Floodplain Restoration Project on the Lower Yuba River



**April Sawyer**, Chris Hammersmark, Sam Diaz (cbec, inc.)



# Project Goals

- Restore and enhance ecosystem processes for productive juvenile salmonid rearing habitat
- Increase natural production of fall-run and spring-run Chinook salmon (*Oncorhynchus tshawytscha*) and Central Valley steelhead (*O. mykiss*) in the Lower Yuba River
- Support CVPIA Anadromous Fish Restoration Program (AFRP) “Doubling Goal” and YWA VA Objectives



# Teams



## Project Lead Agencies



**USFWS Grant Recipient**  
**Prime Consultant**  
**Design Engineer**

**Handen Co.**  
**Construction Manager**



**Implementation**  
**Contractor**  
**Landowner**



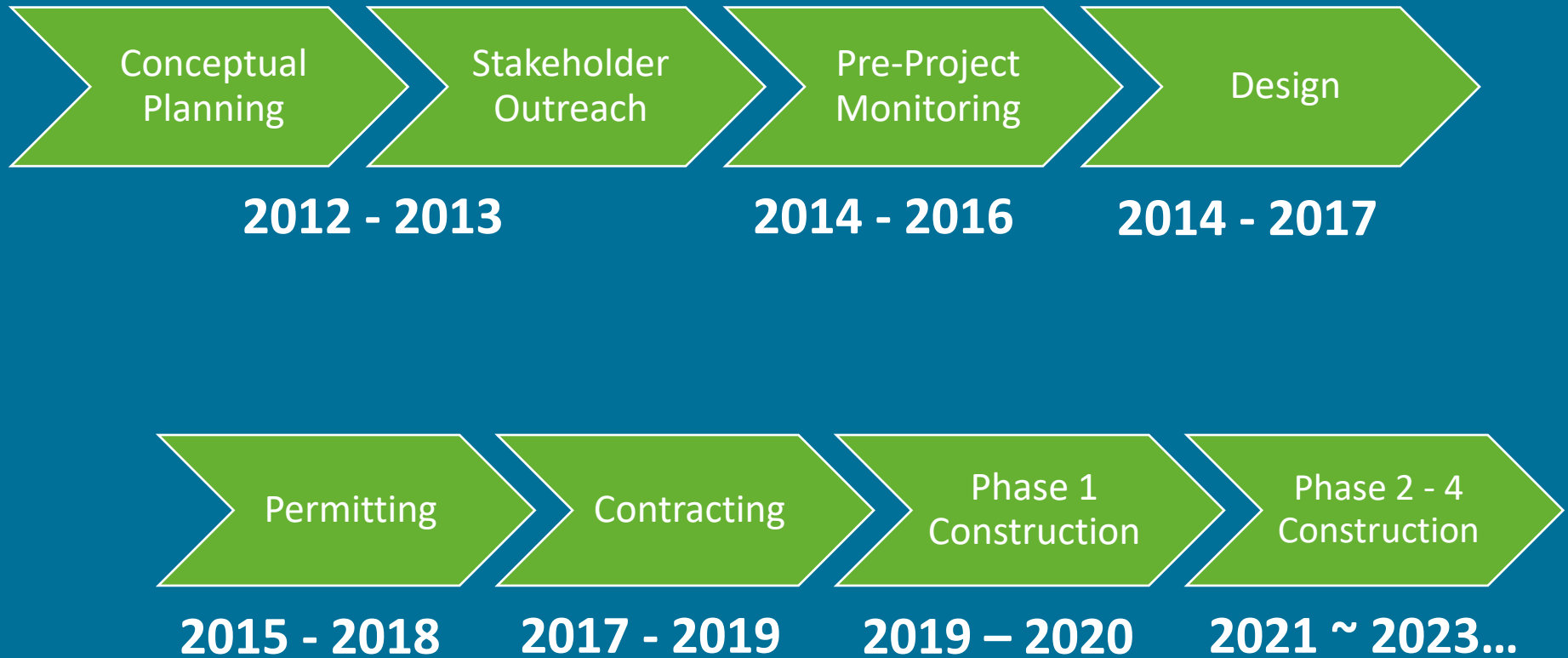
**Landowner**



**Subconsultants**

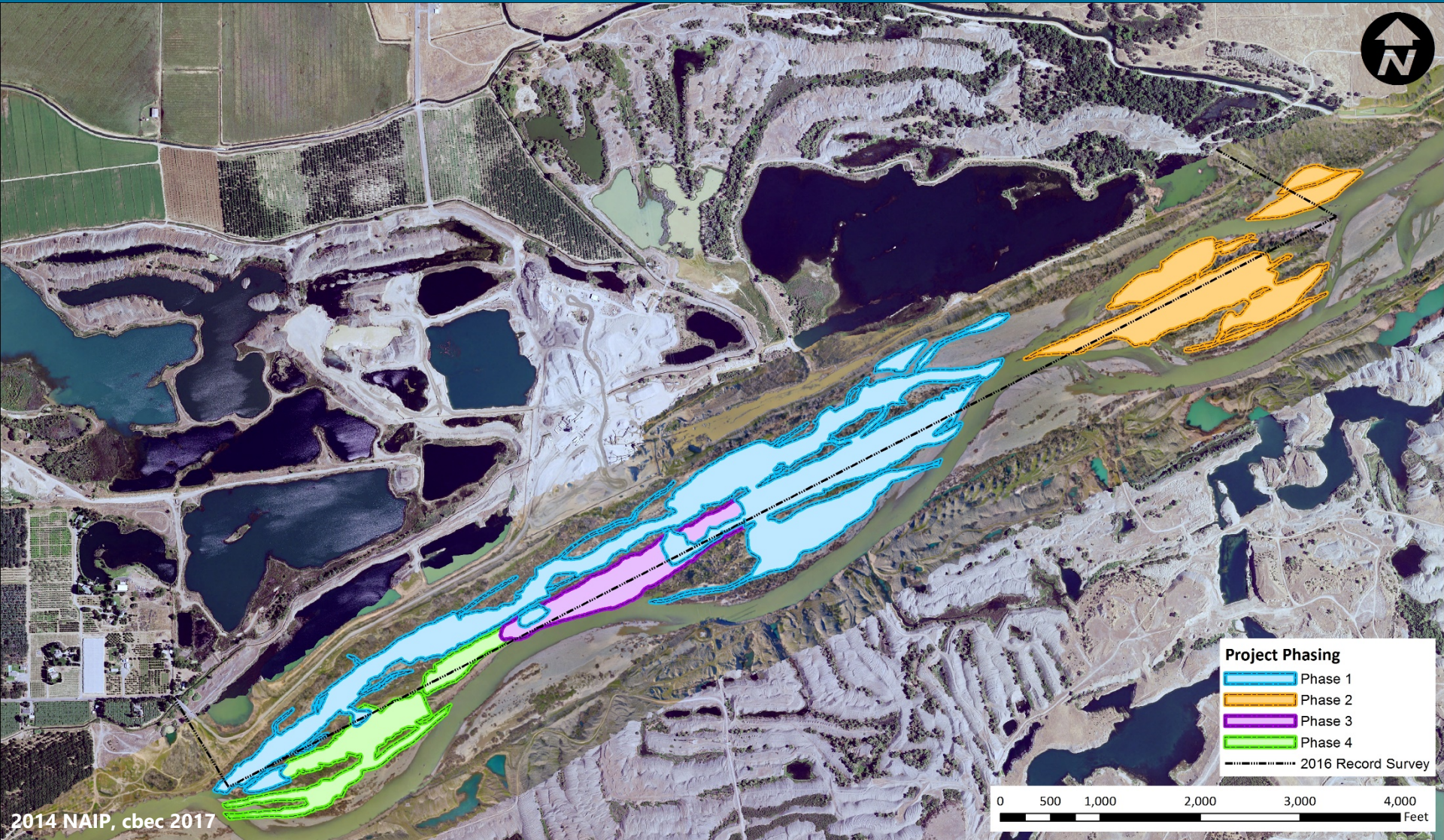


# Project Timeline





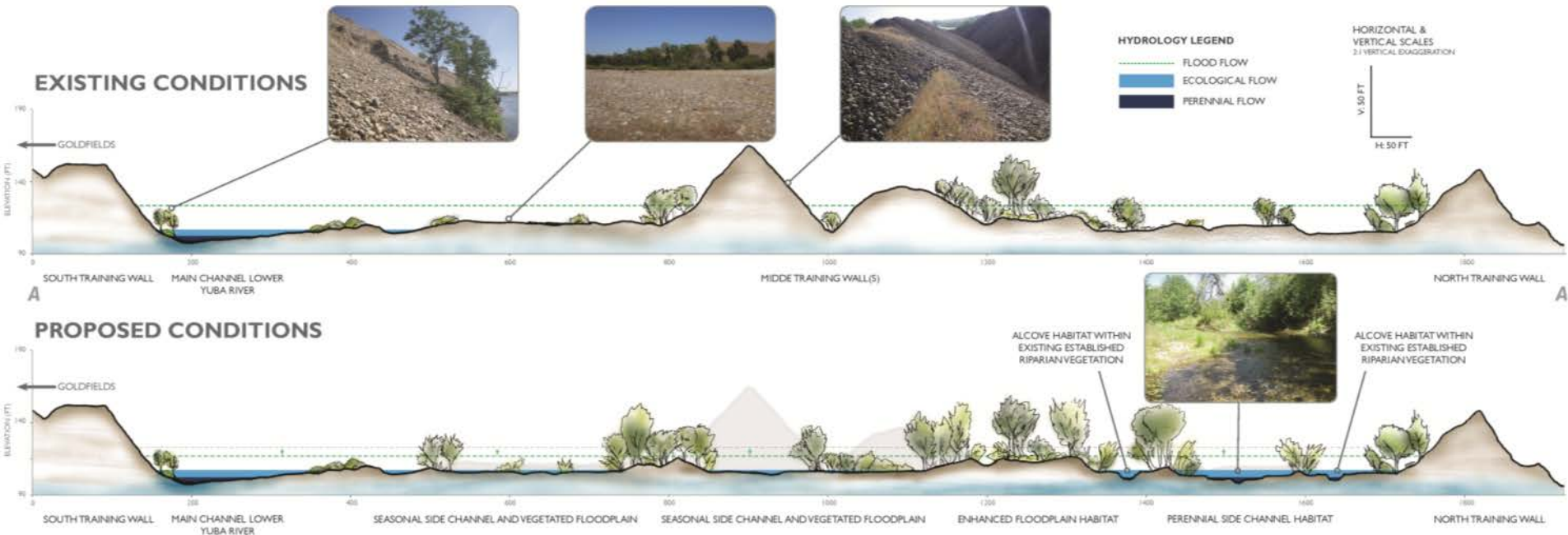
# Project Phasing





# Restoration Design

## HALLWOOD SIDE CHANNEL AND FLOODPLAIN RESTORATION PROJECT

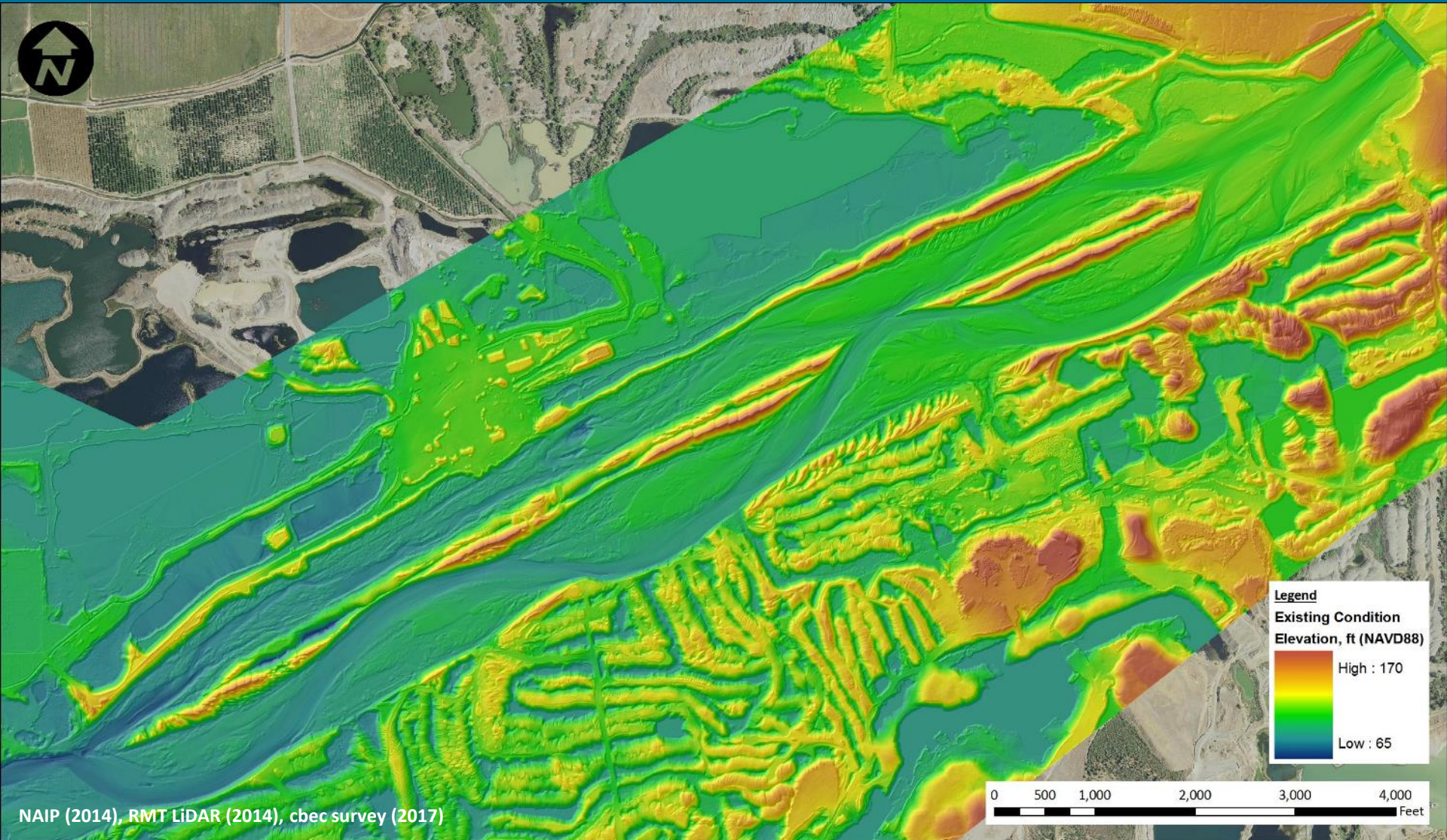


### Habitat enhancement actions:

- Topographic modification
- Riparian planting and facilitate natural recruitment
- Large wood placement

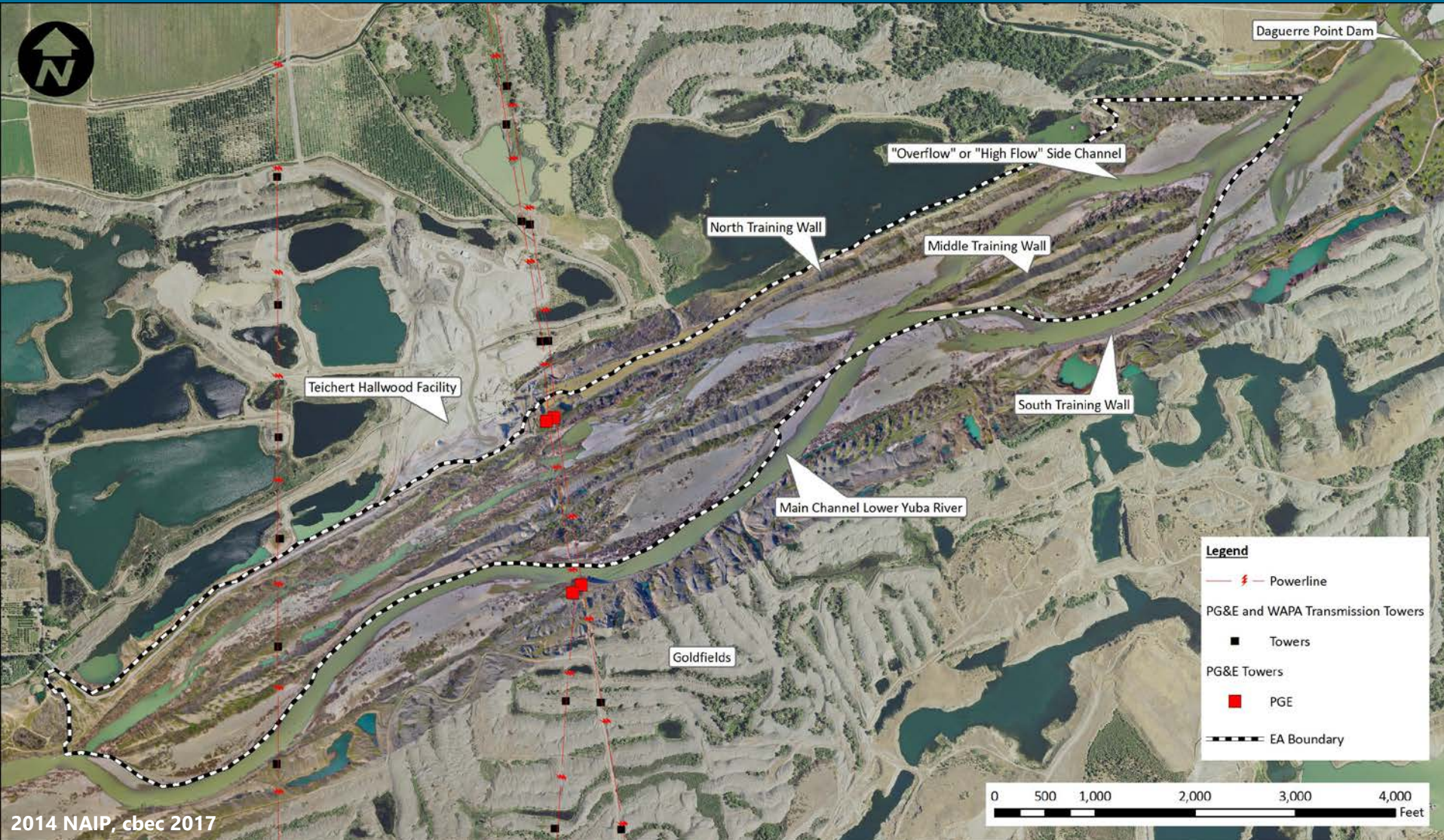


# Existing Topography/Bathymetry





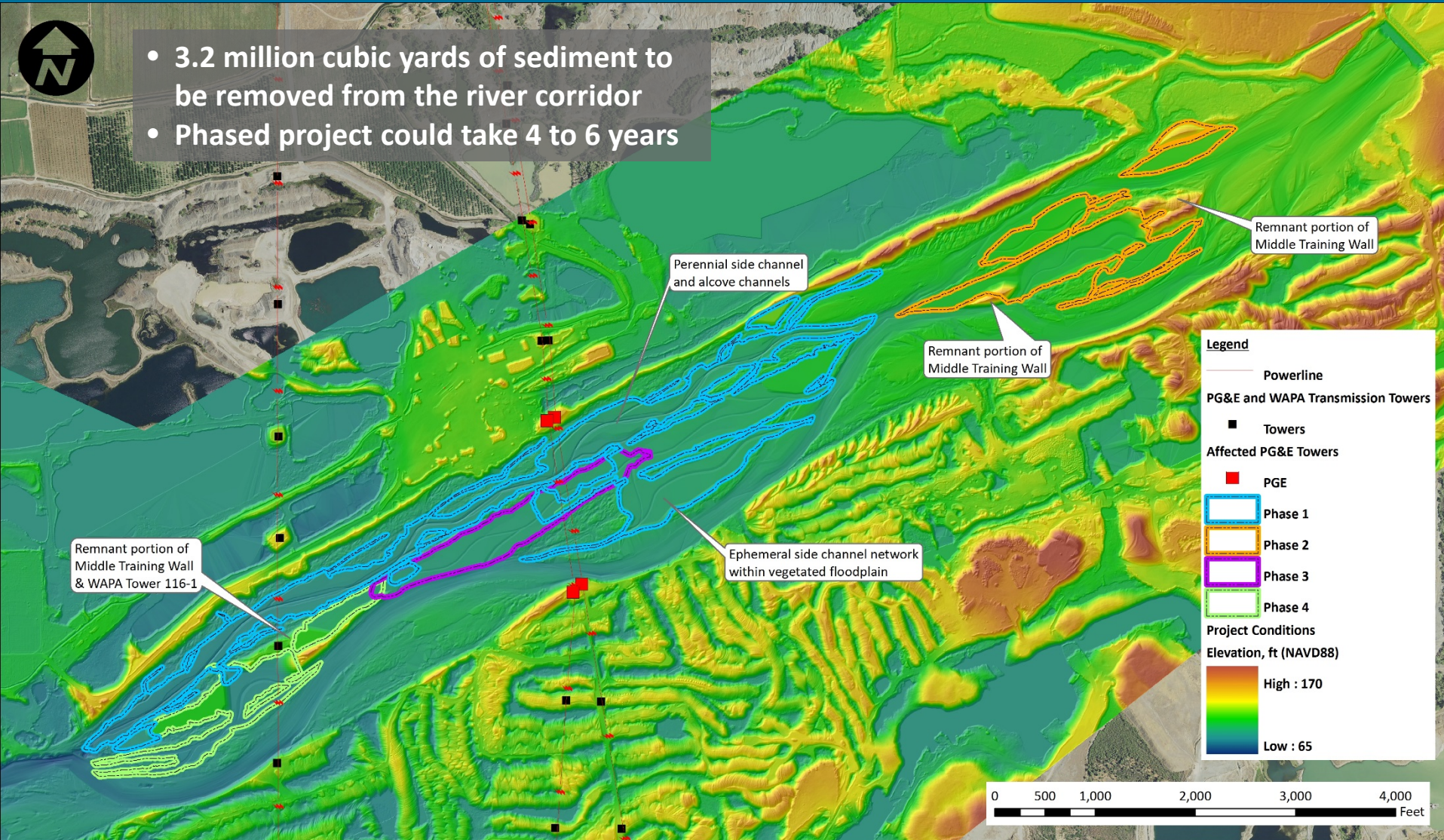
# Existing Site Conditions





# Full Project Grading

- 3.2 million cubic yards of sediment to be removed from the river corridor
- Phased project could take 4 to 6 years





# Existing Conditions





# Phase 1 Rough Grading





# Fine Grading





# Fine Grading – Lower Site





# Fine Grading – Upper Site





# Accomplishments & Next Steps



- Phase 1 (2019-2020)

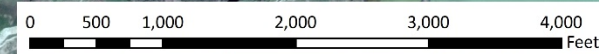
- 89 acres habitat created/enhanced
- ~5 acres riparian planting
- 1,200,000 CY sediment removed

- Phase 2 (2021)

- 34 acres habitat to be created/enhanced
- ~36 acres additional riparian planting (Ph 1 -2)
- 800,000 CY sediment to be removed

Grading Footprints

- Phase 1
- Phase 2





# A Multi-benefit Project

- Flood benefit (3 ft WSE reduction for 100-year event)
- Benefits to local economy, including recreational fishery

- Educational benefits, community involvement, scientific research, pre- and post-construction monitoring





# Questions?





# FINANCING TO DELIVER WATER PROJECTS

Creating scalable solutions with DACs

Jeff Odefey & Vance Russell



**American Rivers**  
RIVERS CONNECT US®



# WHO ARE WE?

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Jeff Odefey / American Rivers



Vance Russell / Conservation Consultant

# TODAY'S PRESENTATION

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## Introduce Initiative / Invite Further Conversations

- **Context:** Water agencies & local governments facing increasing resource challenges. Public funding & financing options are insufficient to meet all needs.
- **Premise:** Alternative project finance models create new or complementary opportunities to deliver projects or scale-up projects to meet emerging needs.
- **Uptake:** Adopting these models will require additional knowledge and solutions to relevant challenges. How can we help?





American Rivers  
RIVERS CONNECT US®

## BECAUSE IT'S WORTH IT

NEW APPROACHES FOR DELIVERING SUSTAINABLE  
WATER INFRASTRUCTURE TO DISADVANTAGED  
CALIFORNIA CITIES

NOVEMBER 2020

JEFF ODEFY  
*American Rivers*

VANCE RUSSELL  
*Independent Consultant*



# OUR VISION

## Private Investments for Public Benefits

- Increased flexibility and equity in future investments
- Expanded access to diverse funding sources
- Scaled-up solutions to address local and regional challenges

# SRFA CHALLENGES

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## **Changing Climate**

Increasing storm intensity,  
longer droughts, fire



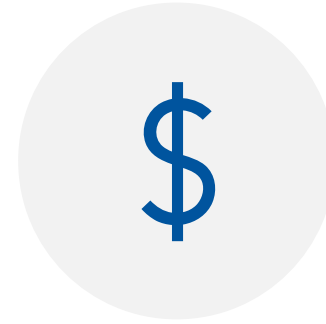
## **Increased Demand**

Water shortages,  
increasing development,  
groundwater pressures



## **Staff Capacity**

Technical expertise



## **Revenue & Expenses**

Increasing O&M  
expenses,  
need for greater capital  
investment,  
decreasing or stagnant  
revenue



## **Aging Infrastructure**

Aging or inadequate water  
infrastructure



# SRFA OPPORTUNITIES

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## **Downtown Revitalization**

Multi-benefit  
Green Infrastructure



## **Regional Trails**

Recreation &  
transportation



## **Infrastructure Bill**

Biden Climate  
infrastructure bill. 40% to  
vulnerable DACs



## **Forest Health**

Fire risk reduction  
Water supply protection



## **Agricultural Links**

Groundwater recharge,  
watershed restoration,  
sustainable agriculture

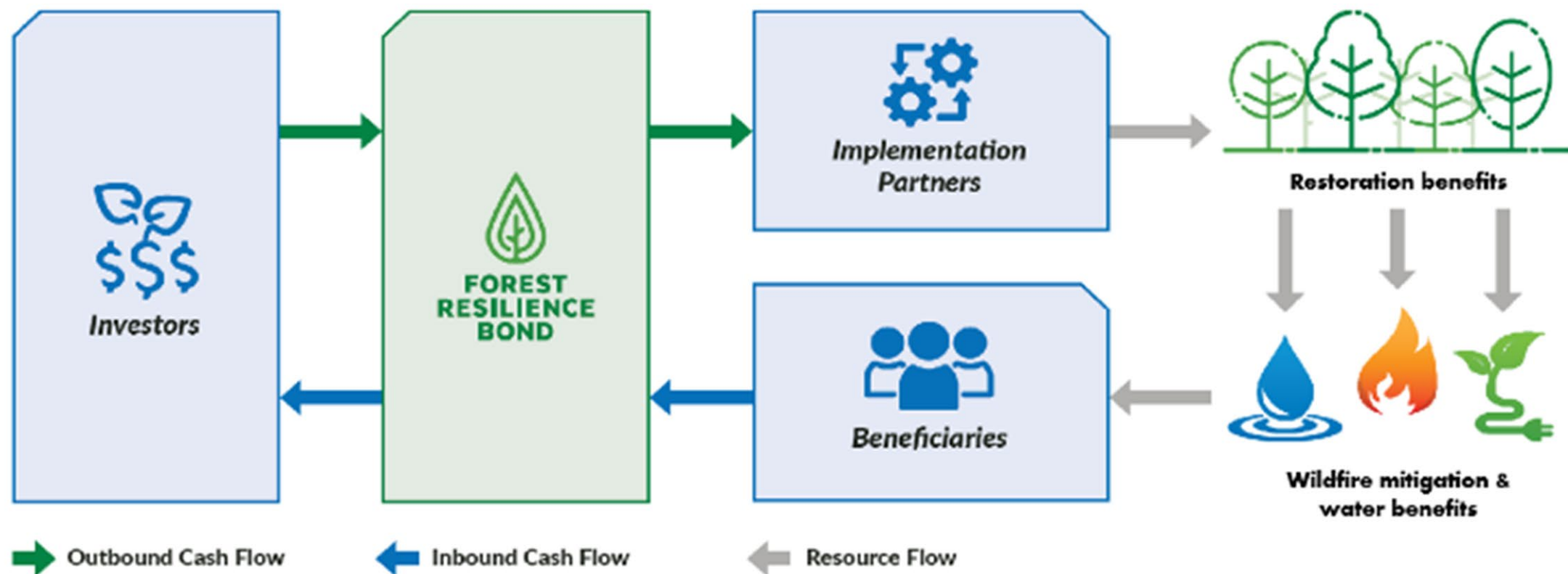
# PRIVATE FINANCE ALTERNATIVES

- Environmental Impact Bonds
- Pay-for Success Financing
- Private-Public Partnerships
- Revolving Loan Funds



Image: Nadheem Akhter





# SUSTAINABLE RECREATION

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## Economic Development

- Yuba County Three Rivers Parkway
- Baileys Trail System EIB
- Benefits and challenges



# GREEN INFRASTRUCTURE

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- Community / neighborhood revitalization asset
- Environmental Impact Bonds, Cities of Atlanta & Buffalo
- CBP3, Prince George's County, MD
- Marysville / Yuba City / Wheatland downtown plan



# GROUNDWATER / SGMA

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## Recharge & Recovery

- Upfront investments in hard infrastructure and market development
- Accelerated attainment of sustainable yield and replenishment goals
- Repayment revenue - from fees and/or sales



# DOABLE BUT UNFAMILIAR

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## Challenges

- Creating more revenue sources
- Linking payments to beneficiaries
- Contracting and funding structures



# MEASURING SUCCESS

## DACs with Resilient Water Systems

- Piloted water infrastructure projects in the SRFA (and beyond) at scale
- Investor funding network
- Disadvantaged Communities have improved access to capital and finance capacity





Jeff Odefey

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Vance Russell

[vance.russell@outlook.com](mailto:vance.russell@outlook.com)

- **Next Meeting-May 19, 2021 9:00-11:00 Please Save the Date** *(unless something arises that we need to meet on)*
- **Contact**
  - Joanna Lessard ([jlessard@yubawater.org](mailto:jlessard@yubawater.org)) or Katie Burdick ([katie@burdico.net](mailto:katie@burdico.net)) with any general questions or concerns
  - Keri Rinne ([keri.rinne@gmail.com](mailto:keri.rinne@gmail.com)) with any questions about the project development process, Circuit Ride meetings, or to submit new or updated IRWM projects short forms.
  - Questions on your funding memo analysis can be directed to Susan Robinson ([srobinsons@frontier.com](mailto:srobinsons@frontier.com))

**Thank you for attending!**