

Achieving Resiliency in Donner Basin: Creating Habitat, Protecting our Future

Beth Christman (TRWC)
Brenda Gilbert (TRWC)
Eben Swain (TRWC)
January 29, 2019









thank

Together for the Truckee Society



Your multi-year support restores the watershed and everything it sustains. For today. For future generations.





PRESERVE the watershed | \$10,000 a year for 5 years

Laird Norton Family Feundation. Northetar California/Vail Epic Promise

Squaw Valley Albine Meadows Gail and Rick Stephens.

Jahoe Mourzain Resorts Houndation Cathy and Tom Van Berkem

PROTECT the river

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ErityFifty Brewing Company. Habitat Restoration Sciences,

a Cudek Company Chery and Gracy Krome \$5,000 a year for 5 years Mountain Hardware and Sports

Reley's Chris Ryman

San Francisco Fly Casting Club Sierra Mountain Mongage, Inc.

Teichen/Stonebridge Properties

Truckee Rive Rolling/ Bell & Courder Families

Truckee Rive: Winery & Jones Corda Construction Darie and 8.1 Zuendt

RESTORE a stream | 3000 a ver for a year

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Stray Johnston and Bob Bolt 3-5 0/68

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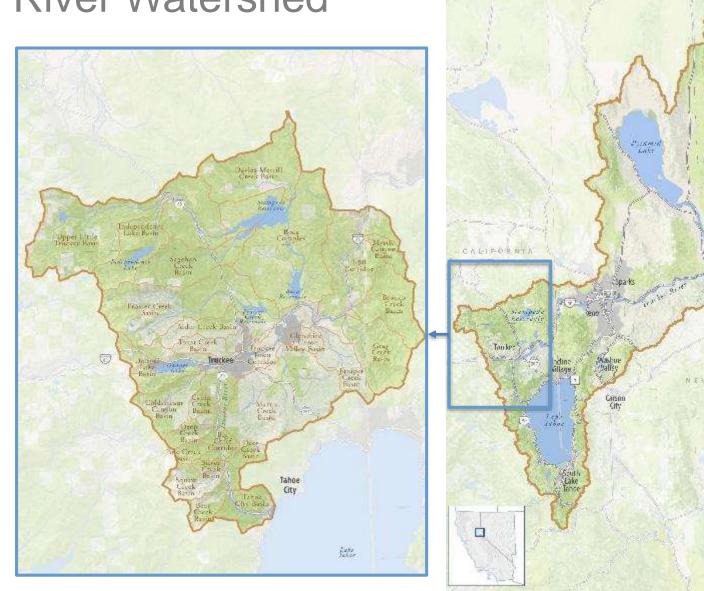
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Middle Truckee River Watershed

- 285,000 acres or 435 square miles
- 26 tributaries
- 7 major water bodies
- Water supply
- Many managing agencies















stream by stream meadow by meadow project by project





Projects Policies People



We influence water policy.



We restore: Perazzo Meadows.

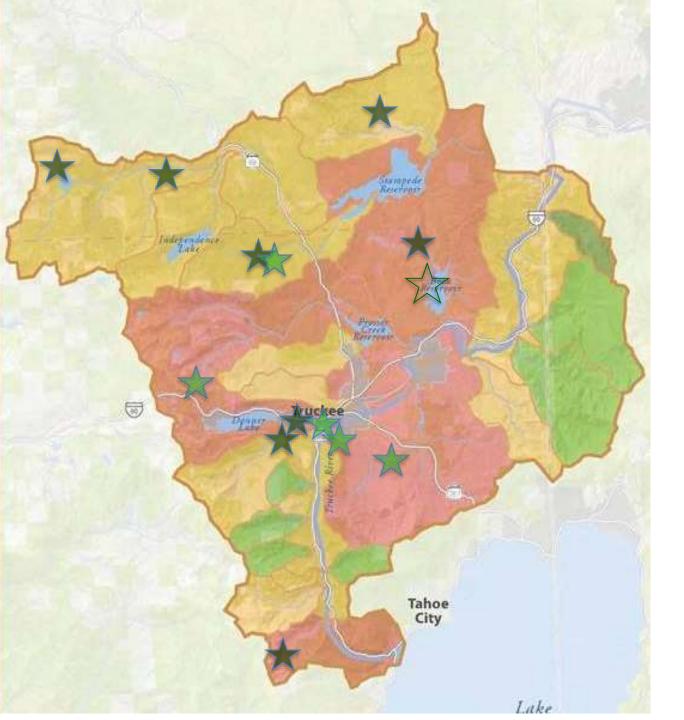


We engage people - Truckee River Day volunteers.









2019 - 2020 Highlights

☆Assess

Boca Area Watershed

★Design

Donner Creek
Plus 7 others

★Construct

Martis Creek Wildlife Area Plus 5 others



Truckee River – Truckee Town Corridor



Photo: ESwain



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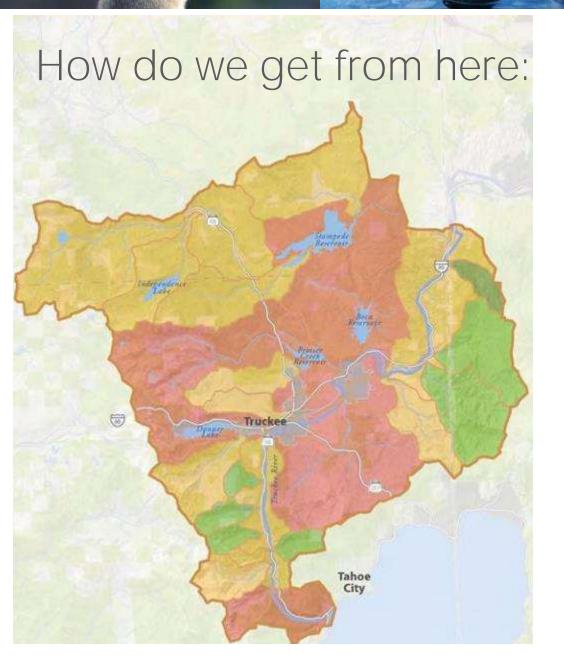


Restoration Lifespan

Beth Christman, Director of Restoration

January 29 2019

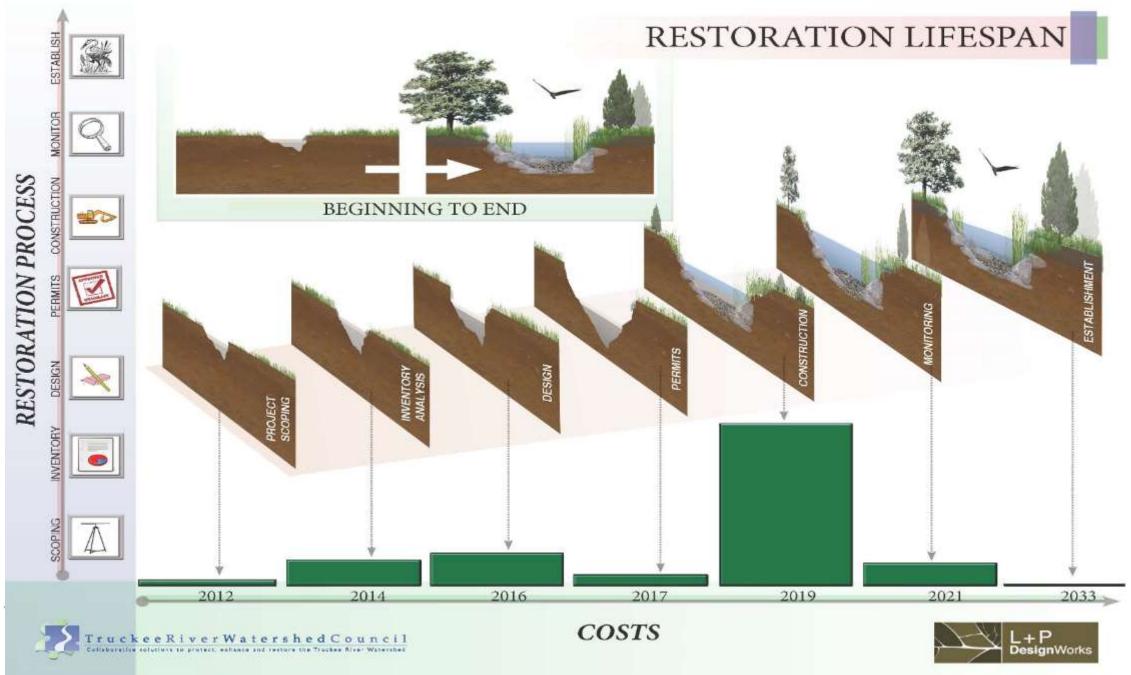




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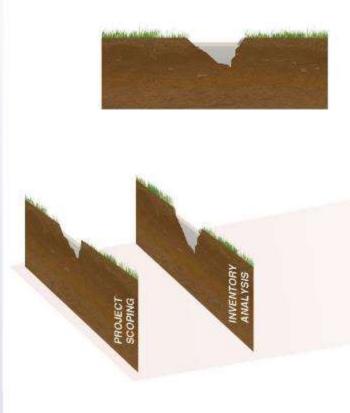
PROJECT SCOPING



- Problem identification
- Preliminary estimate of scale





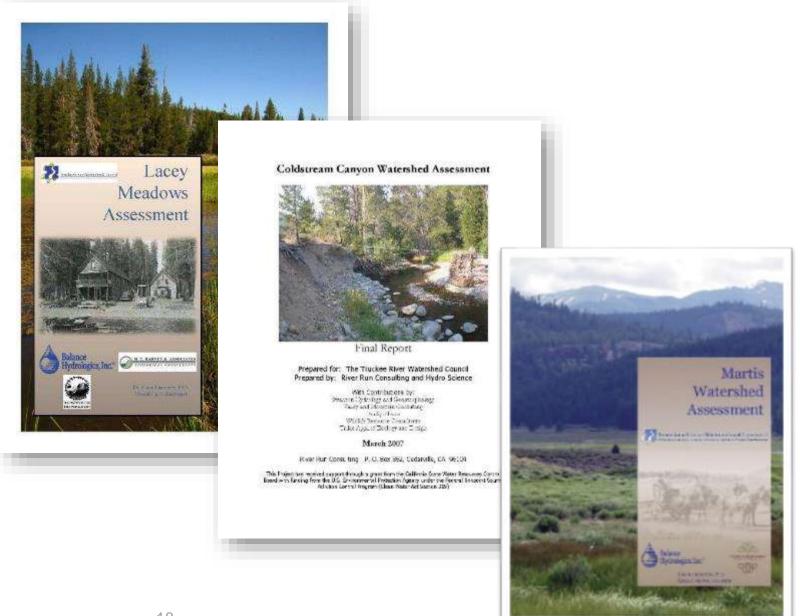




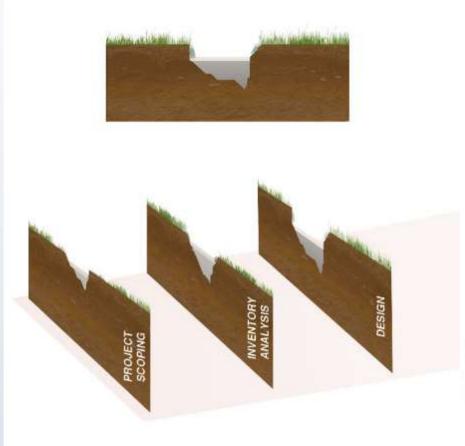
2012 2014 2016 2017 2019 2021 2033



- Science based
- Determine root causes
- Form stakeholder group
- Identify projects



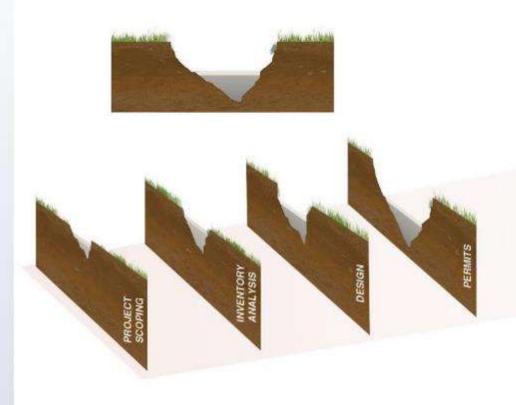






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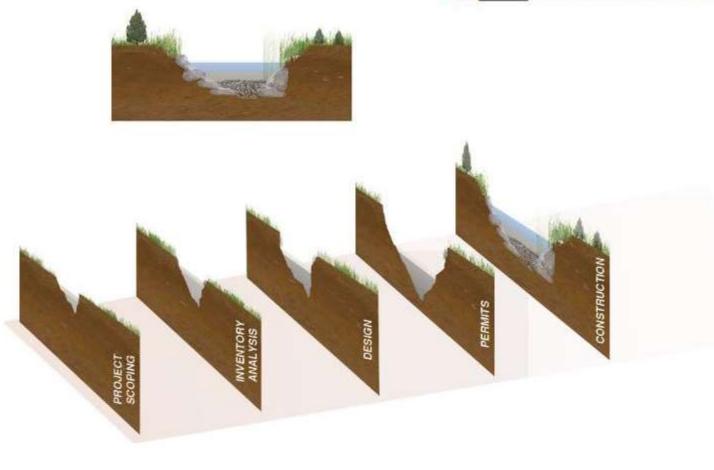




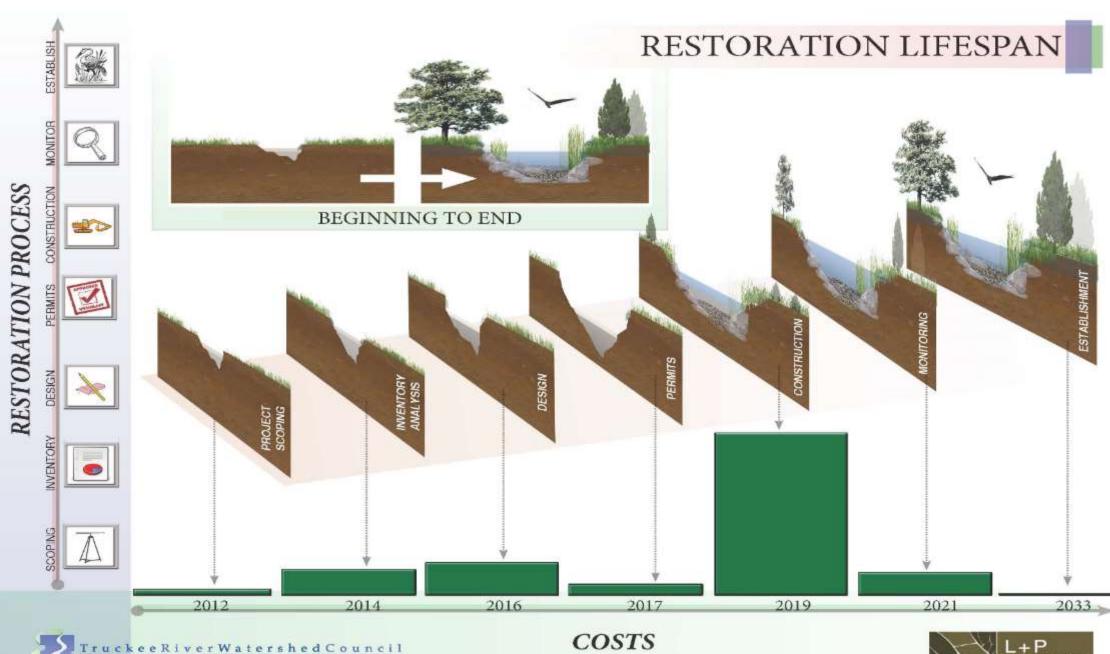
- Local, state, and federal approvals
- Necessary protections

2012 2014 2016 2017 2019 2021 2033









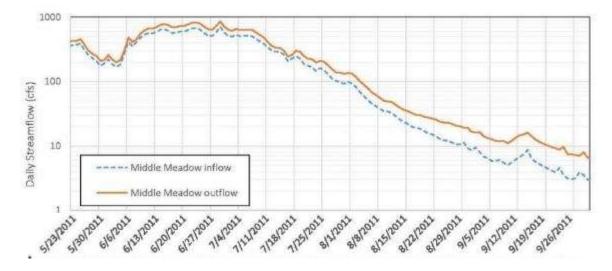




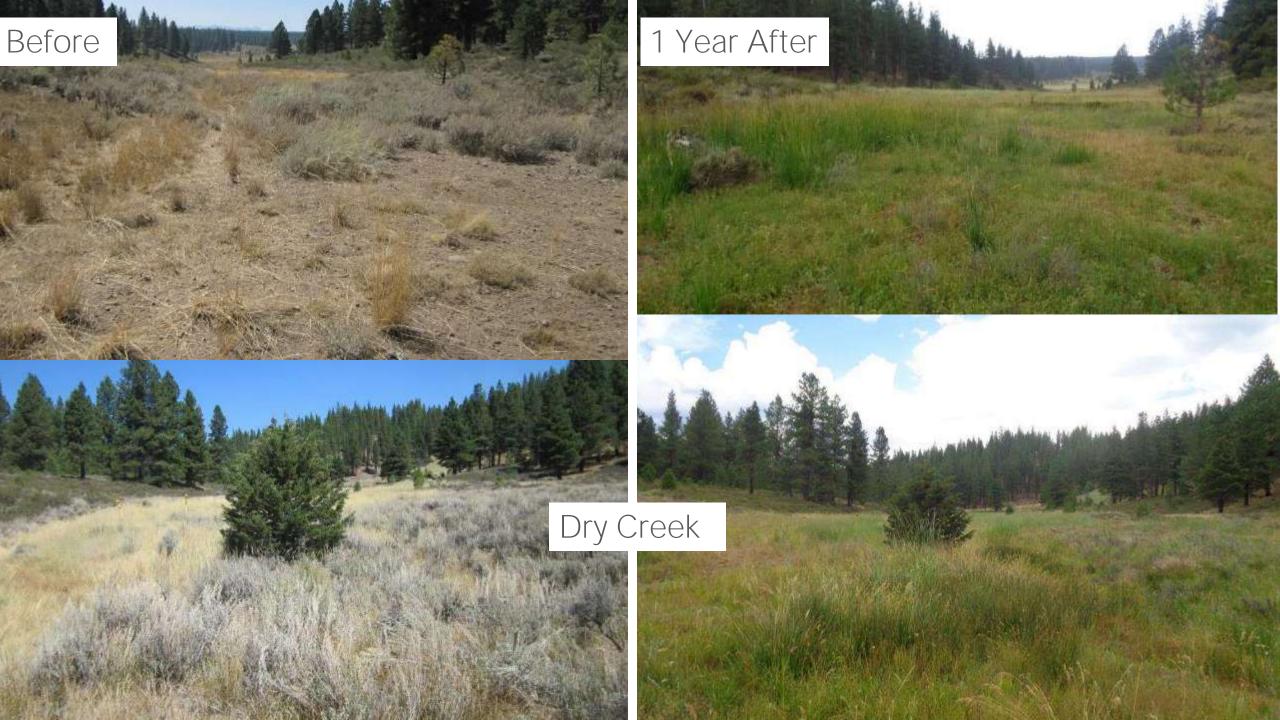


Perazzo Restoration Outcomes

- Groundwater elevated 1.5 6 feet
- Late season stream flow increased
- Willow flycatcher populations stable
- Bird diversity increased









- Effective restoration takes time
 - Results worth it!
- All steps critical
- Organizational continuity important

• So..... Thank YOU!







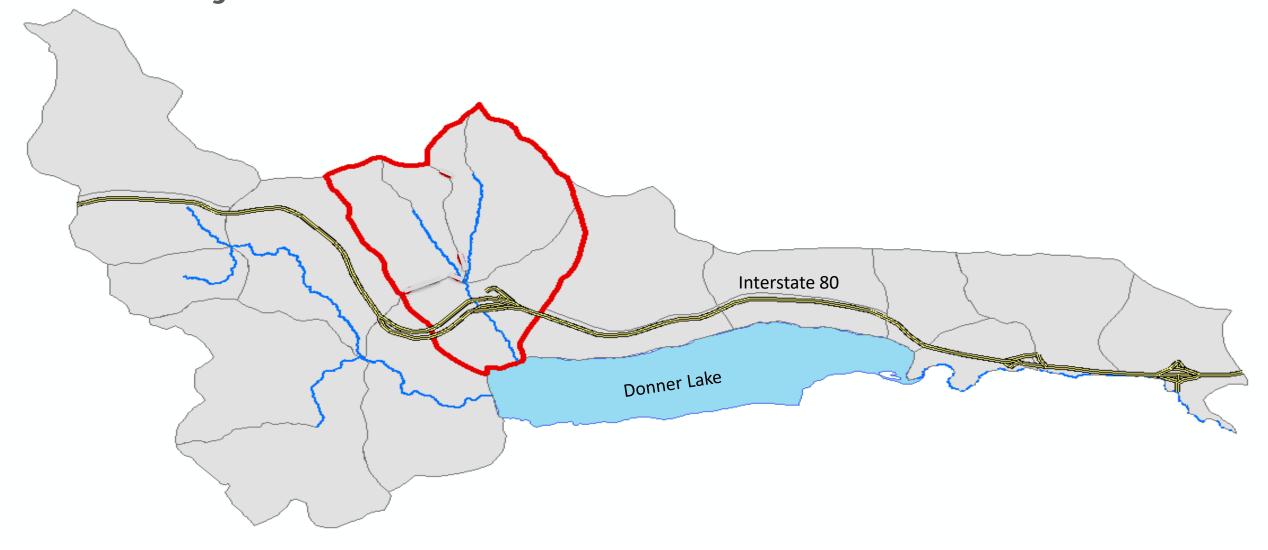
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Creating Habitat, Protecting Our Future

Eben Swain, Program Manager January 29 2019



Project Location:



The Partnership:



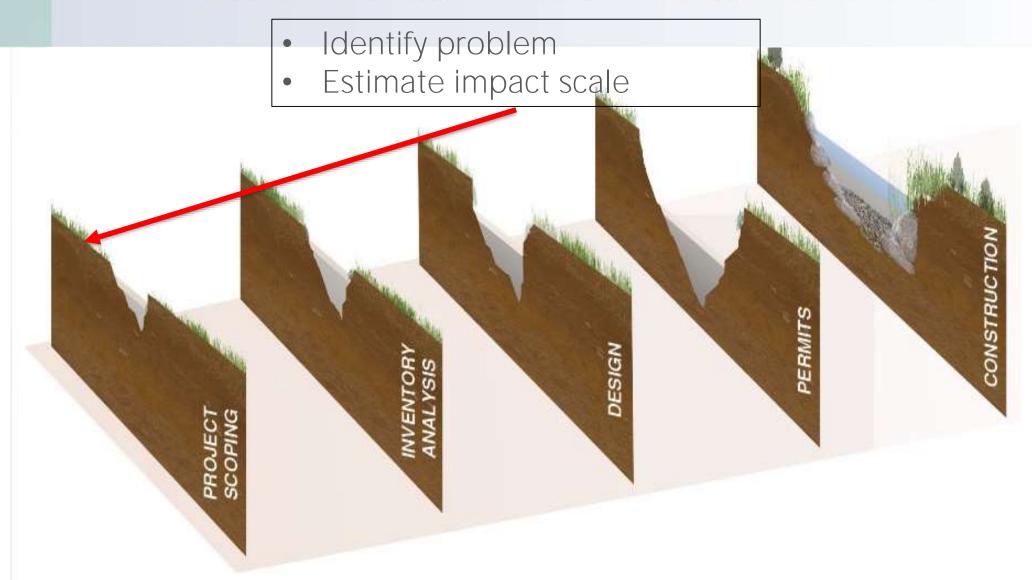




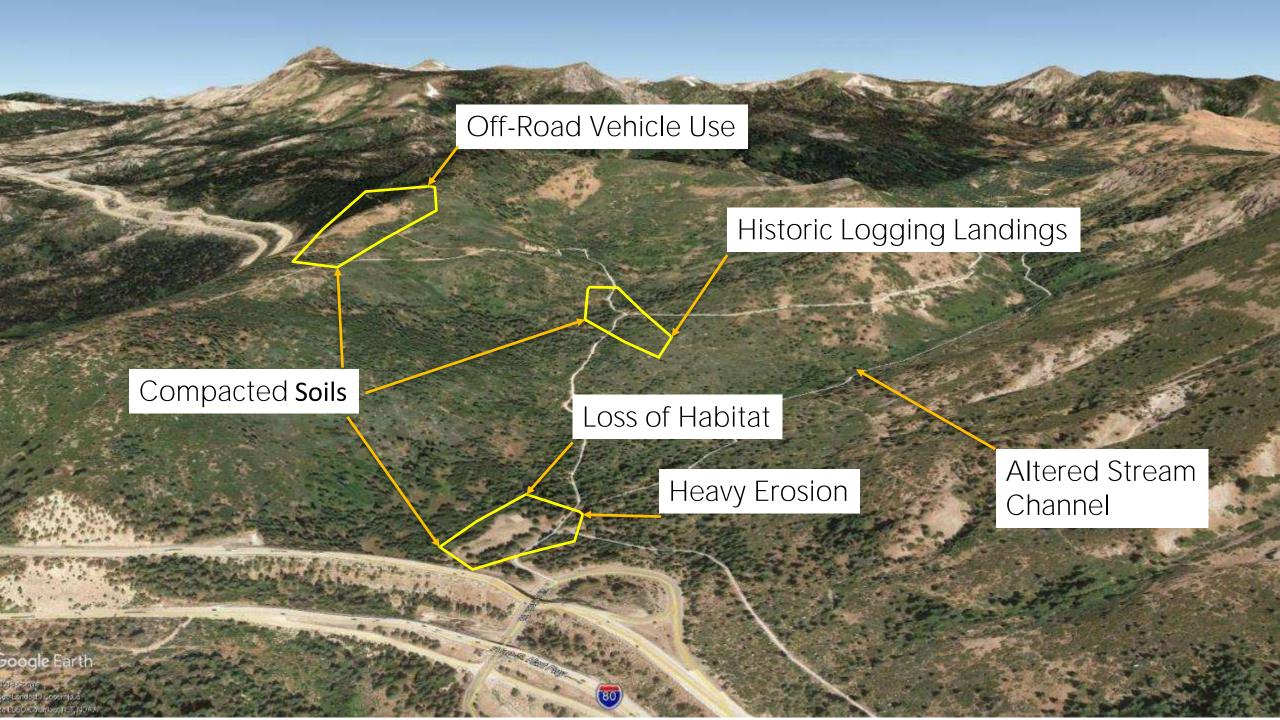


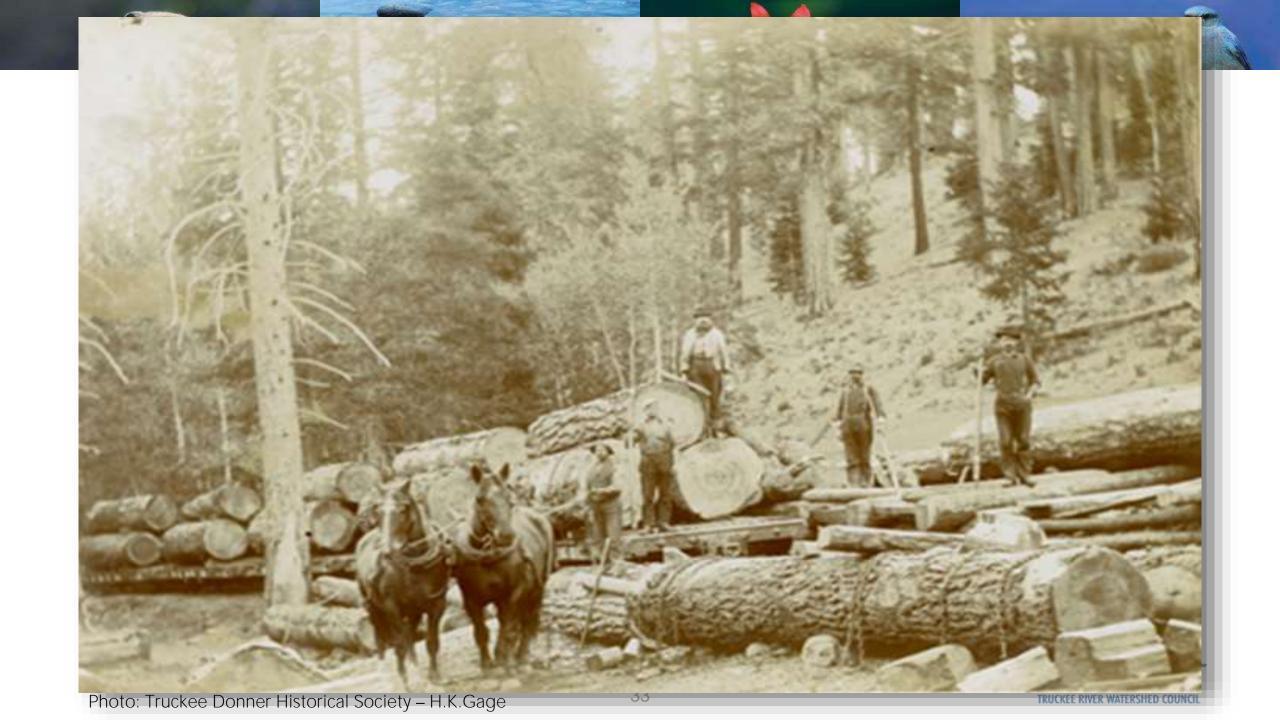


RESTORATION LIFESPAN



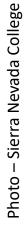






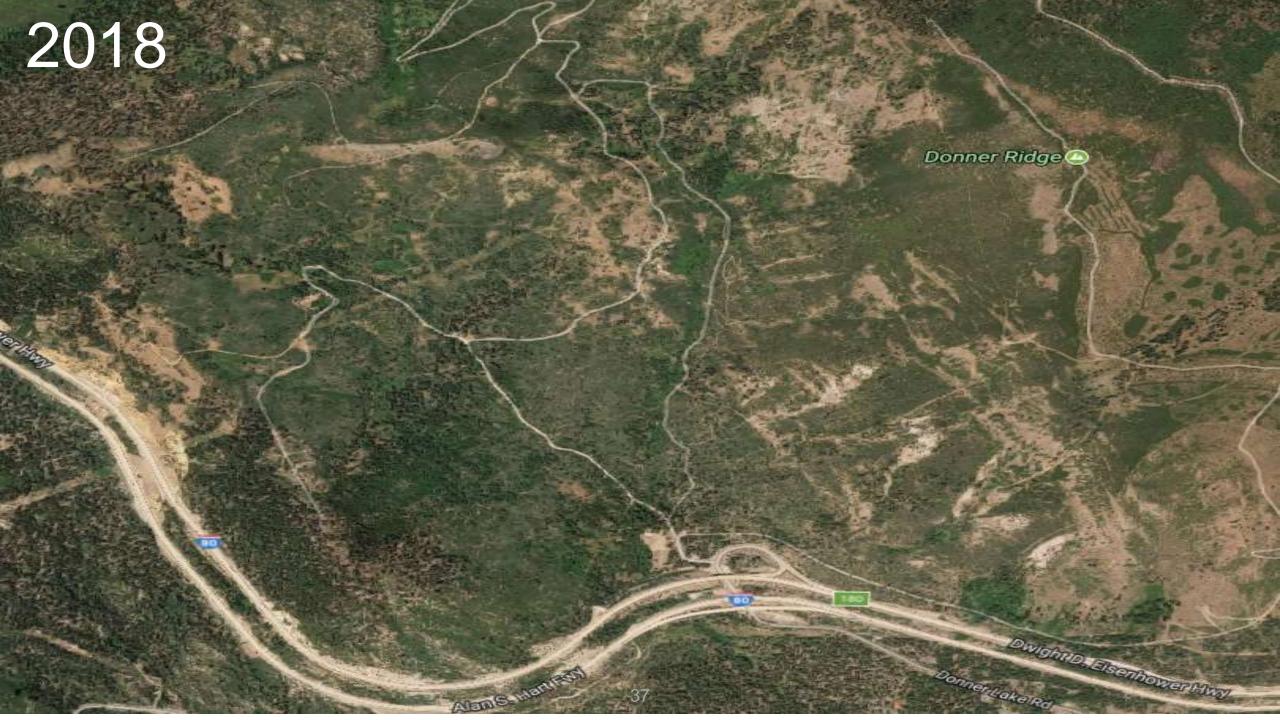










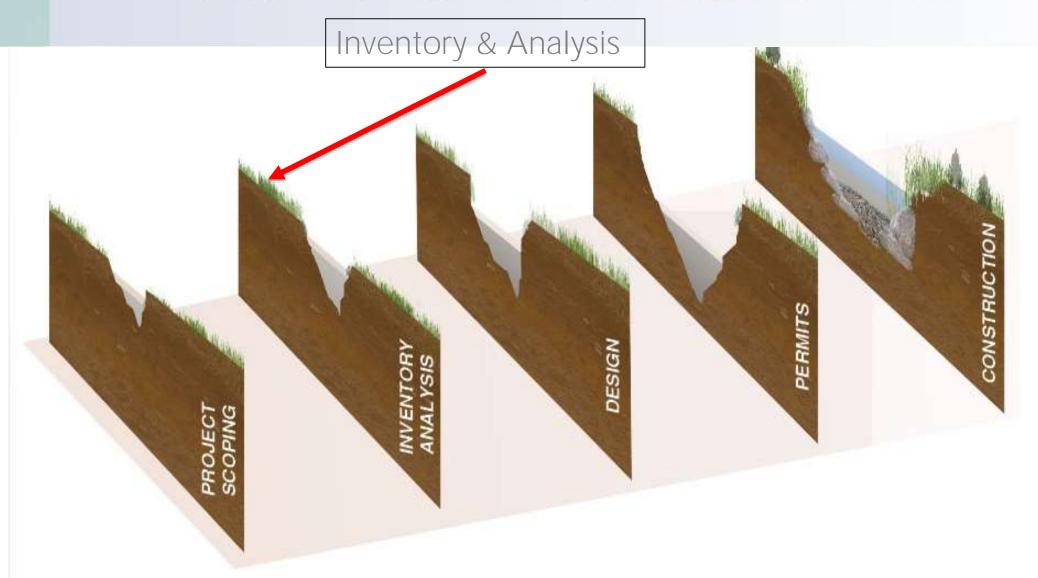




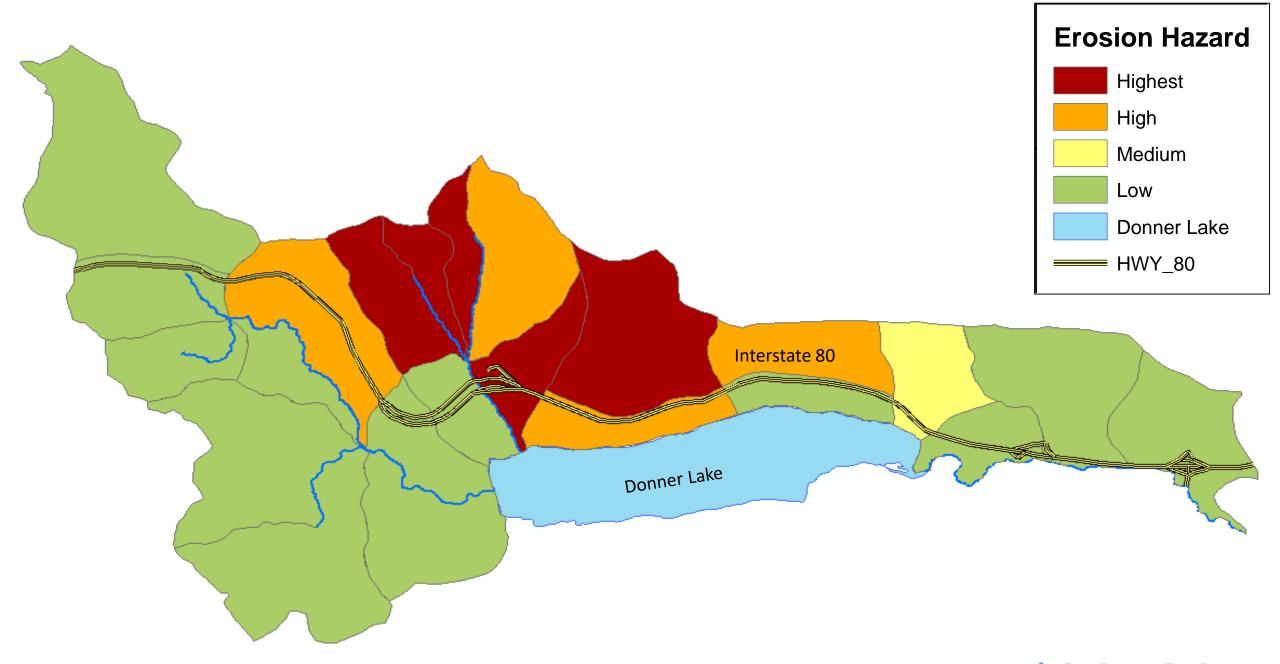
- Excessive erosion
- Sediment delivery
- Loss of riparian and wildlife habitat
- Impacts on recreation
- Disconnected hydrology



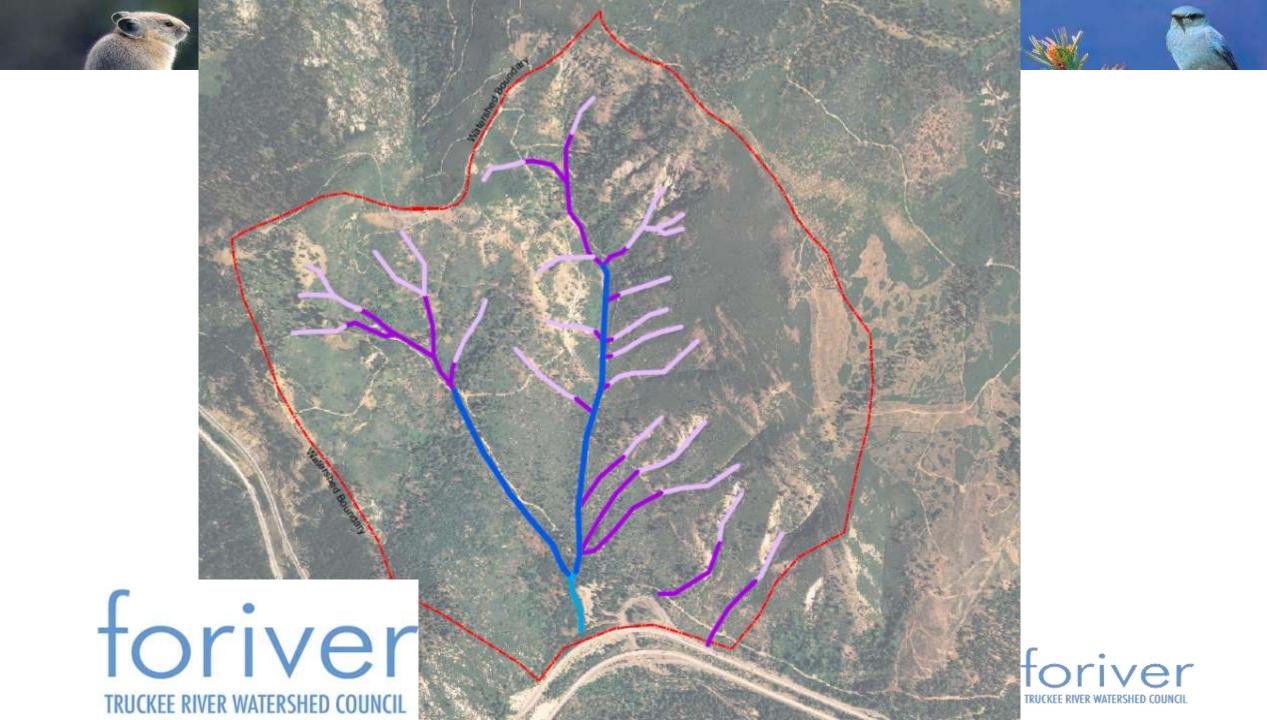
RESTORATION LIFESPAN

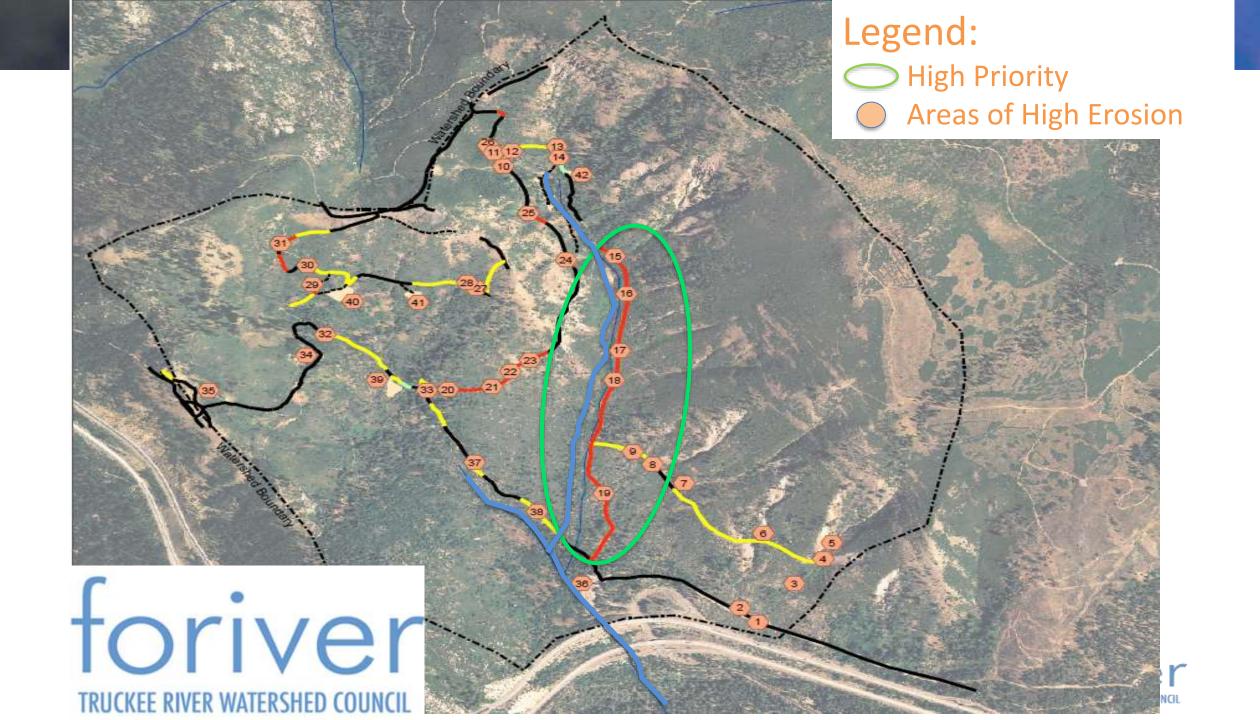












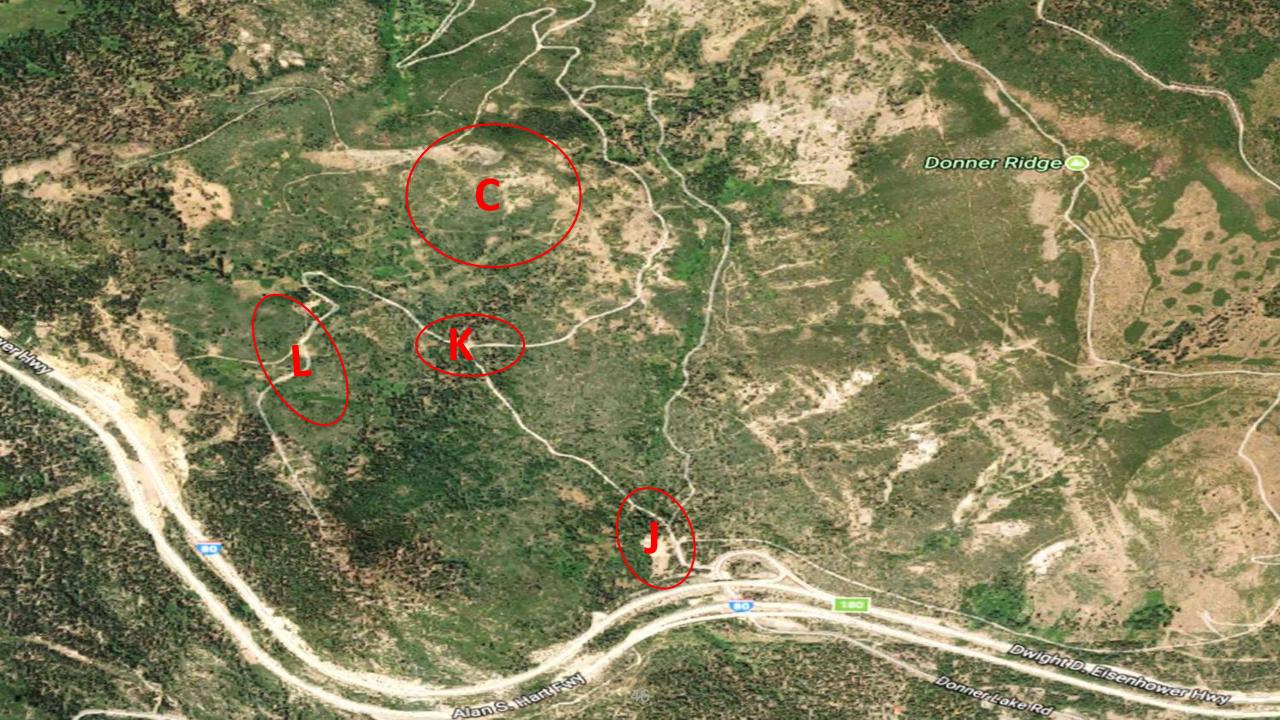




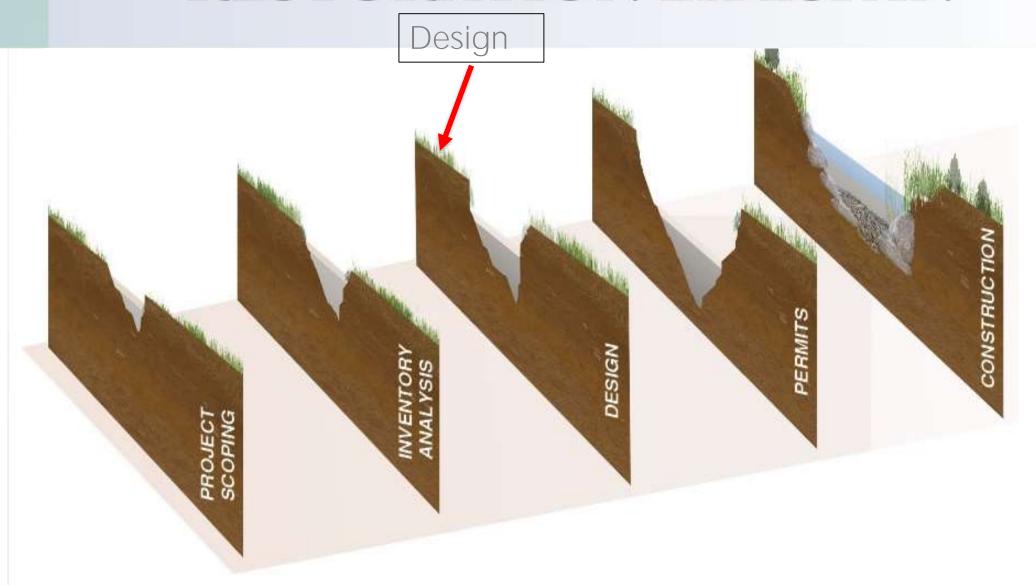








RESTORATION LIFESPAN

















Road Capture & Sediment Transfer







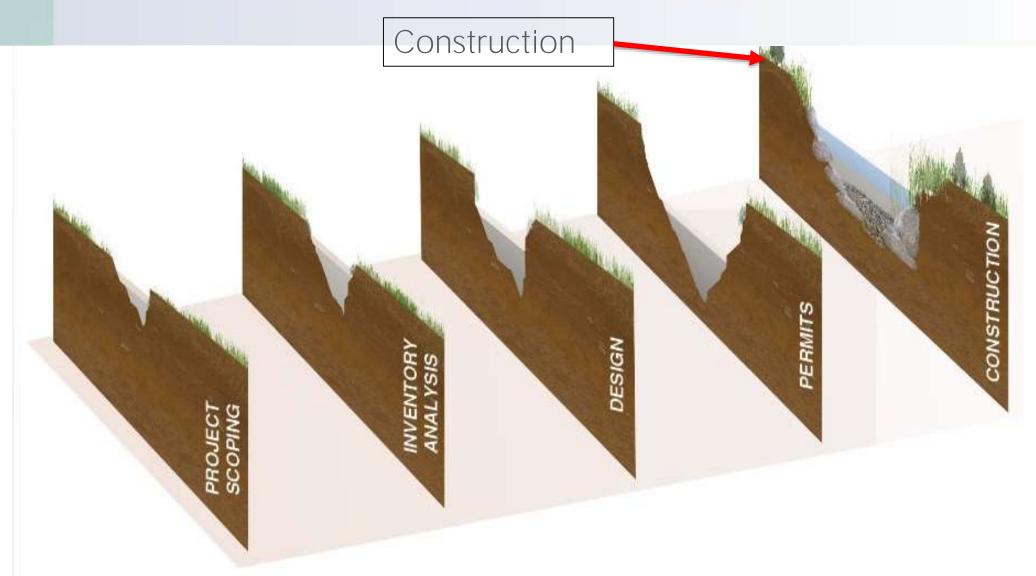


- Reduce erosion and improve water quality
- Restore 15,000 feet of compacted soil
- Revegetate 4 acres of degraded soils
- Remove 500 cubic yards of concrete
- Improve one-mile of USFS roadway

Total Cost: \$500,000

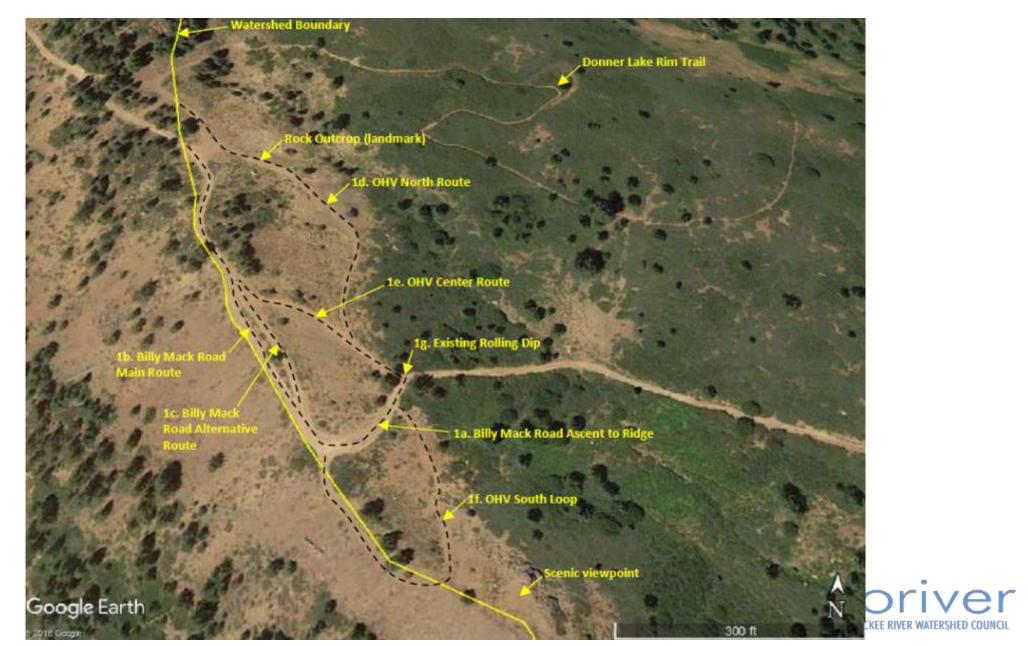


RESTORATION LIFESPAN



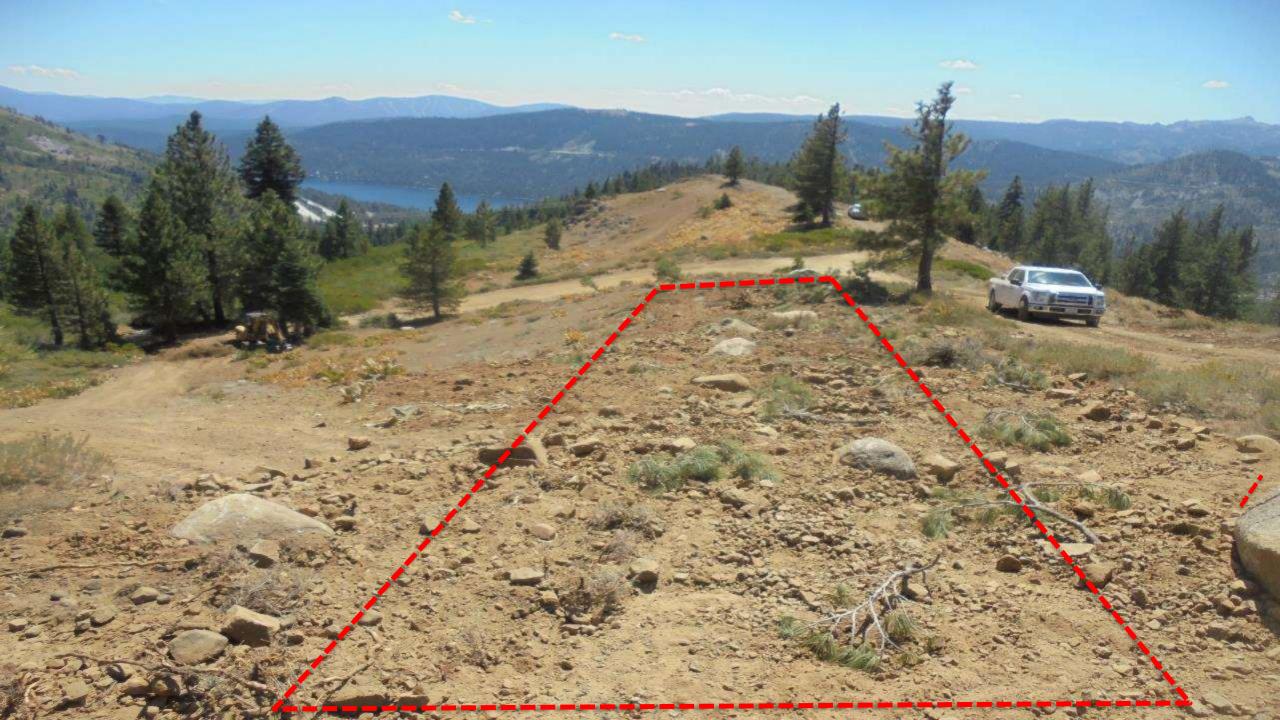


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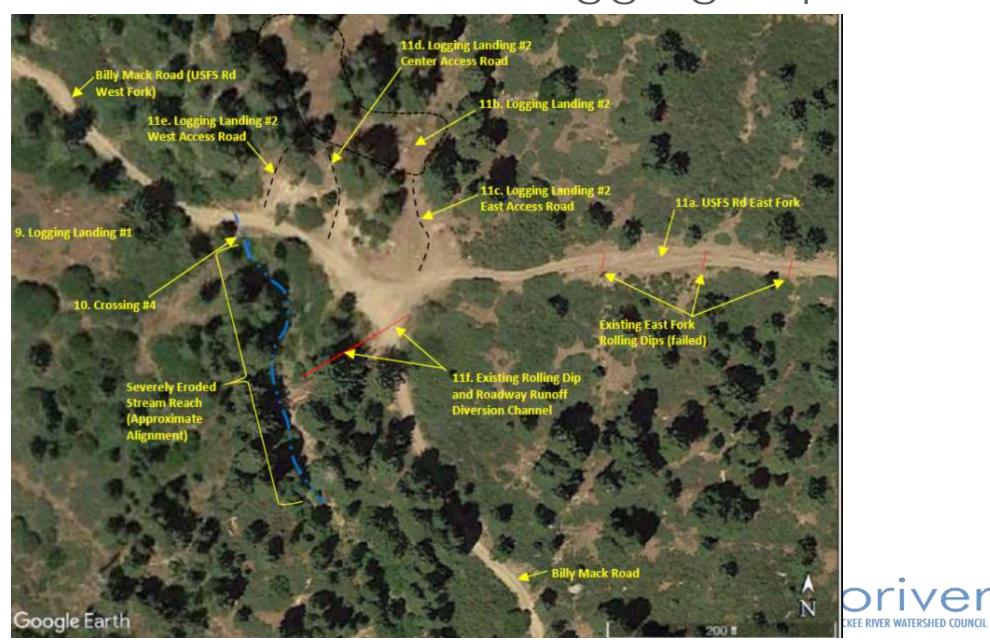


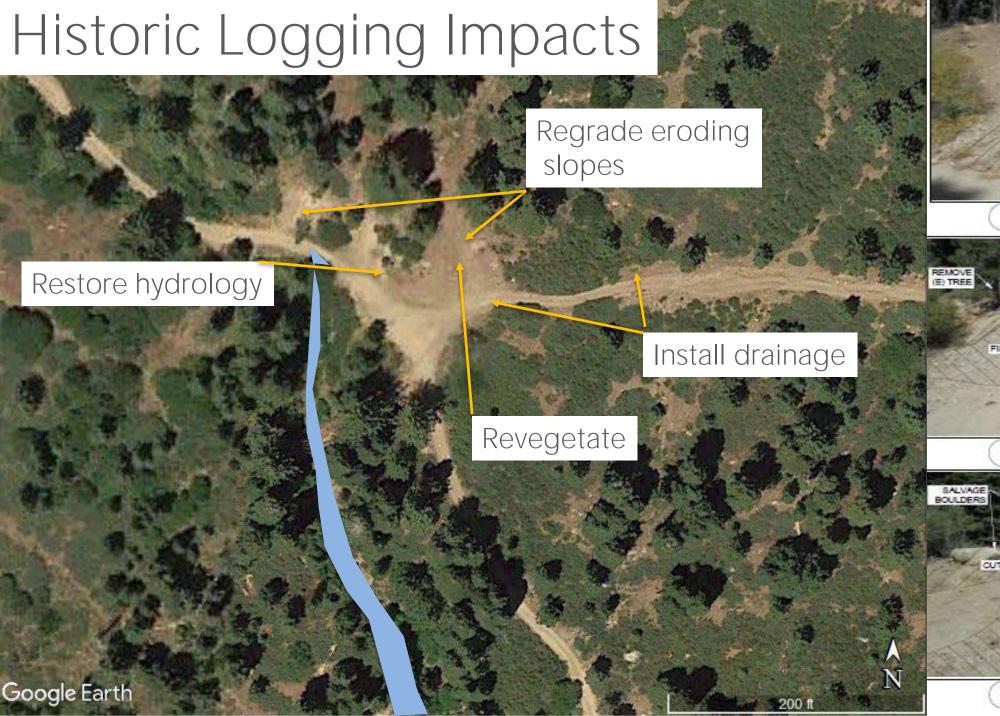
Off-Road Vehicle Use Maintain scenic viewpoint Decommission and revegetate Google





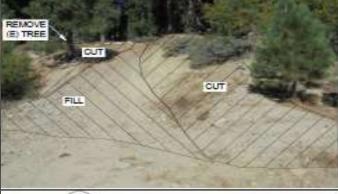
Mid-watersheet histories en ing impacts







SPUR ROAD 1 GRADING DETAIL



SPUR ROAD 2 GRADING DETAIL

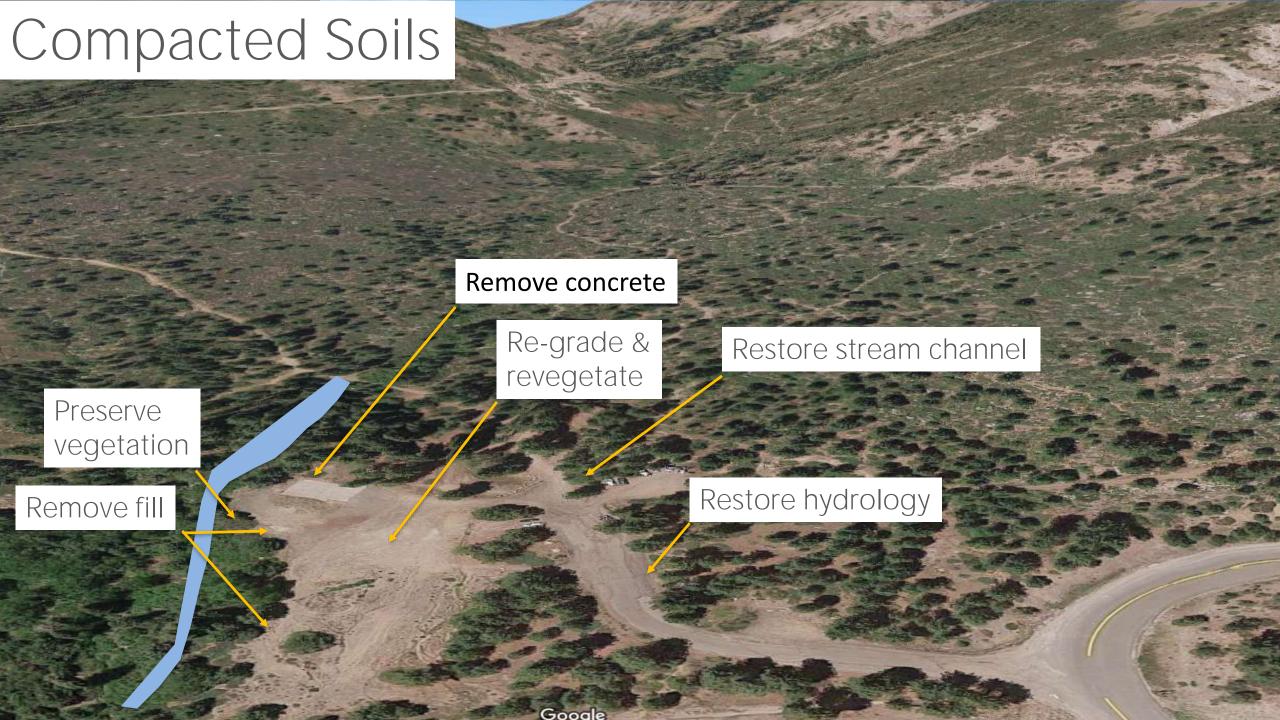


3 SPUR ROAD 3 GRADING DETAIL



Porton of the watersheek empacted soils









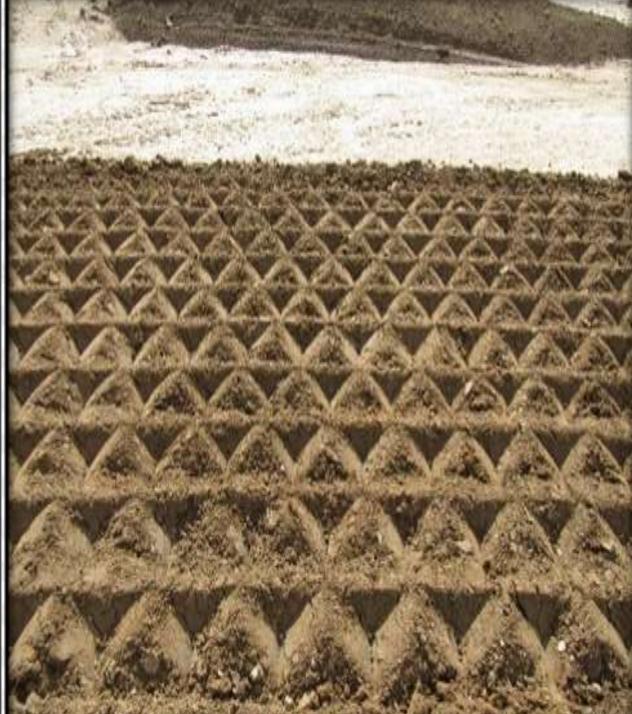


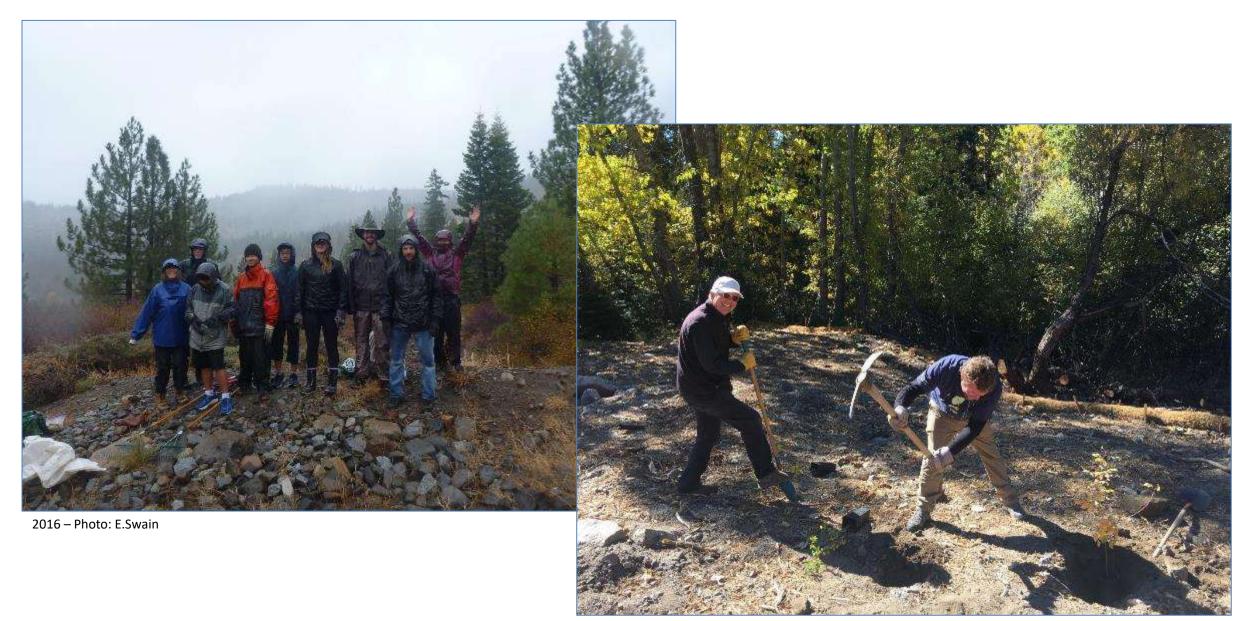












2018 – Photo: Michael Park



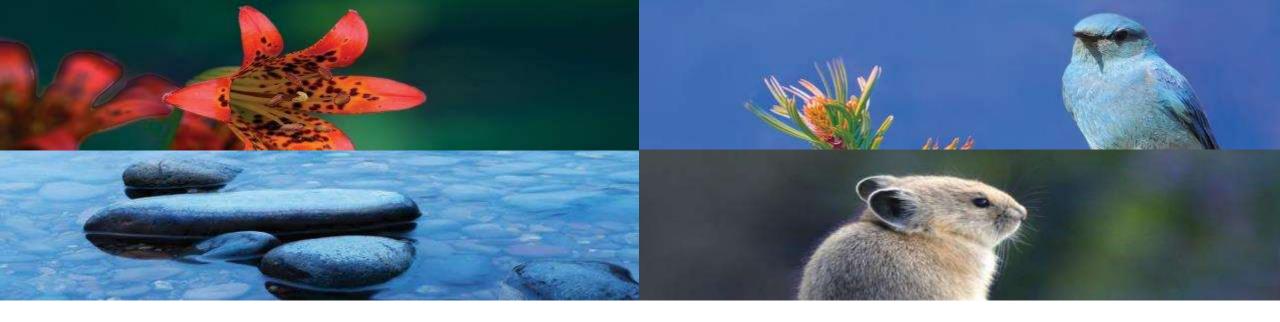




Johnson Canyon Restoration - Funders

- Donors to the Truckee River Watershed Council
- California Natural Resources Agency
- National Forest Foundation
- Truckee River Fund
- USFS Tahoe National Forest





Thank you!

Questions or comments?

Eben Swain <u>eswain@truckeeriverwc.org</u>

