

What it takes to Move the Needle: Sweat, Diesel, and Jet Fuel

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Cowlitz Indian Tribe



How are we doing after 20 years?

BELOW GOAL (ENDANGERED SPECIES ACT-LISTED SALMON IN WASHINGTON)

NEAR GOAL

Getting Worse

Not Making Progress

Showing Signs of Progress

Approaching Goal

Upper Columbia River
Spring Chinook

Puget Sound Chinook

Upper Columbia River
Steelhead

Lower Columbia River Chum

Lower Columbia River Coho

Lower Columbia River
Fall Chinook

Lower Columbia River
Spring Chinook

Snake River Spring and
Summer Chinook

Mid-Columbia River Steelhead

Lake Ozette Sockeye

Lower Columbia River Steelhead

Snake River Steelhead

Puget Sound Steelhead*

Hood Canal
Summer Chum

Snake River Fall
Chinook

Failure

n. a lack of success

What Does \$40 Million Buy?



How to SRFB Grant:



Restoration Project Metrics

- Pools created
- Structures built
- Logs placed
- SF of off-channel
- LF of stream
- LF levee removal
- Fish passage %
- Wetland acres
- Width of riparian
- LF of side channel

*Are we measuring success,
or just measuring?*





spOH210TE

R002

USPS TRACKING # 015

OAK4
PDX5
E301



Corrugated
Recycles

TEST (EVI) LOGVIN
SIZE LIMIT 75 INCHES
GROSS WT/LT 65 LBS
TRACY, CA

3
5

Keep
dry

005
010



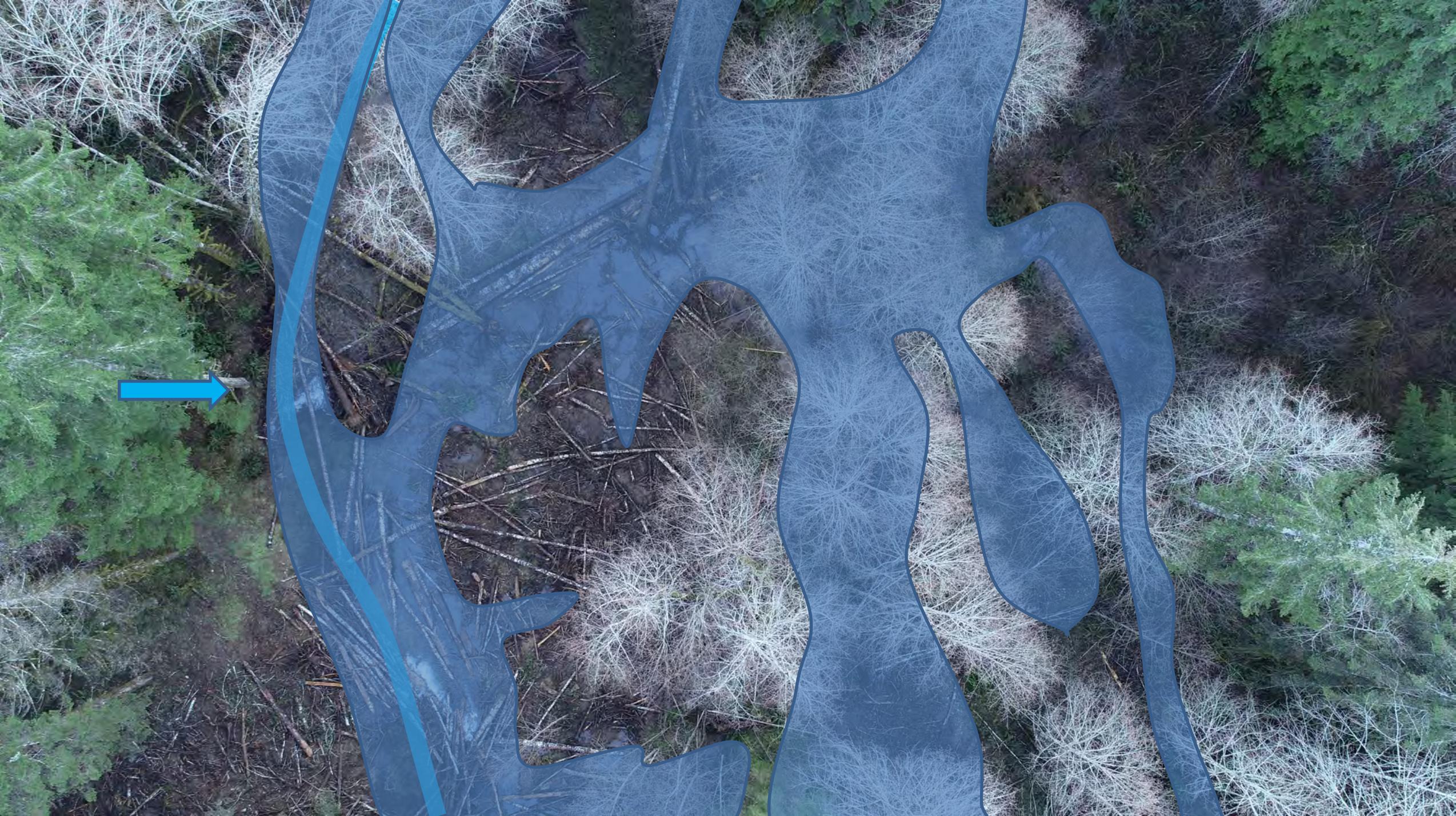






How Much is Enough?
How Do We Know?





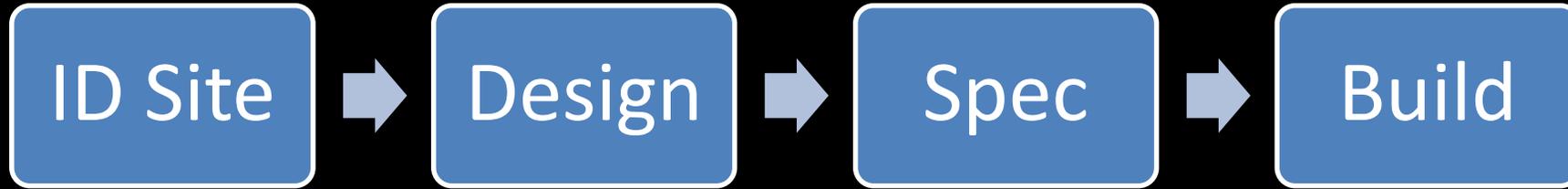




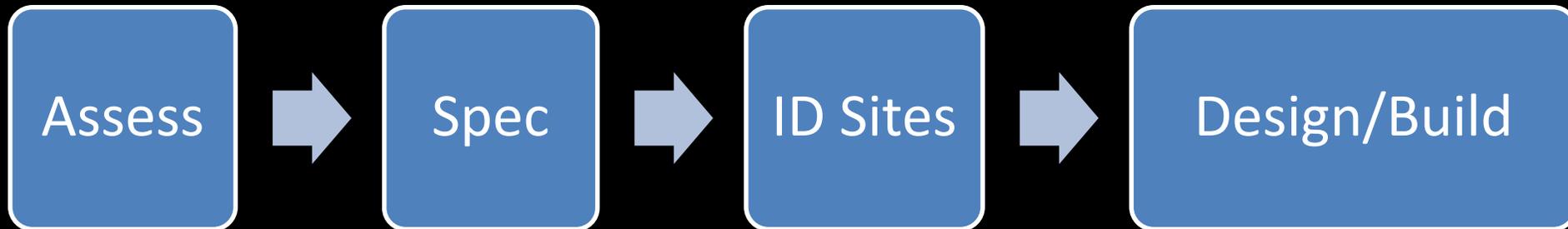




Traditional Approach



Going Big in Small Streams





Materials are Key

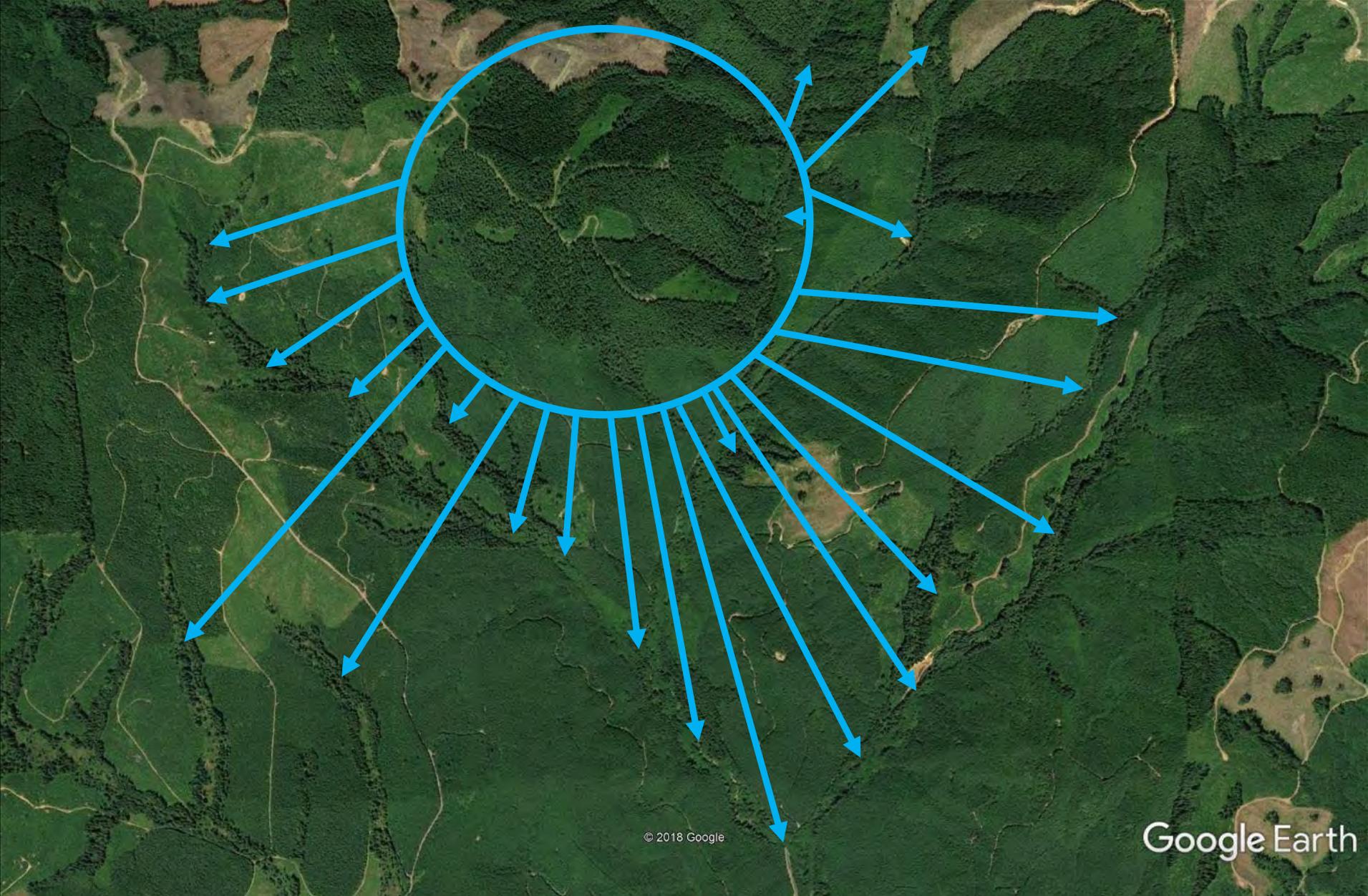
Proximity is Critical











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Google Earth

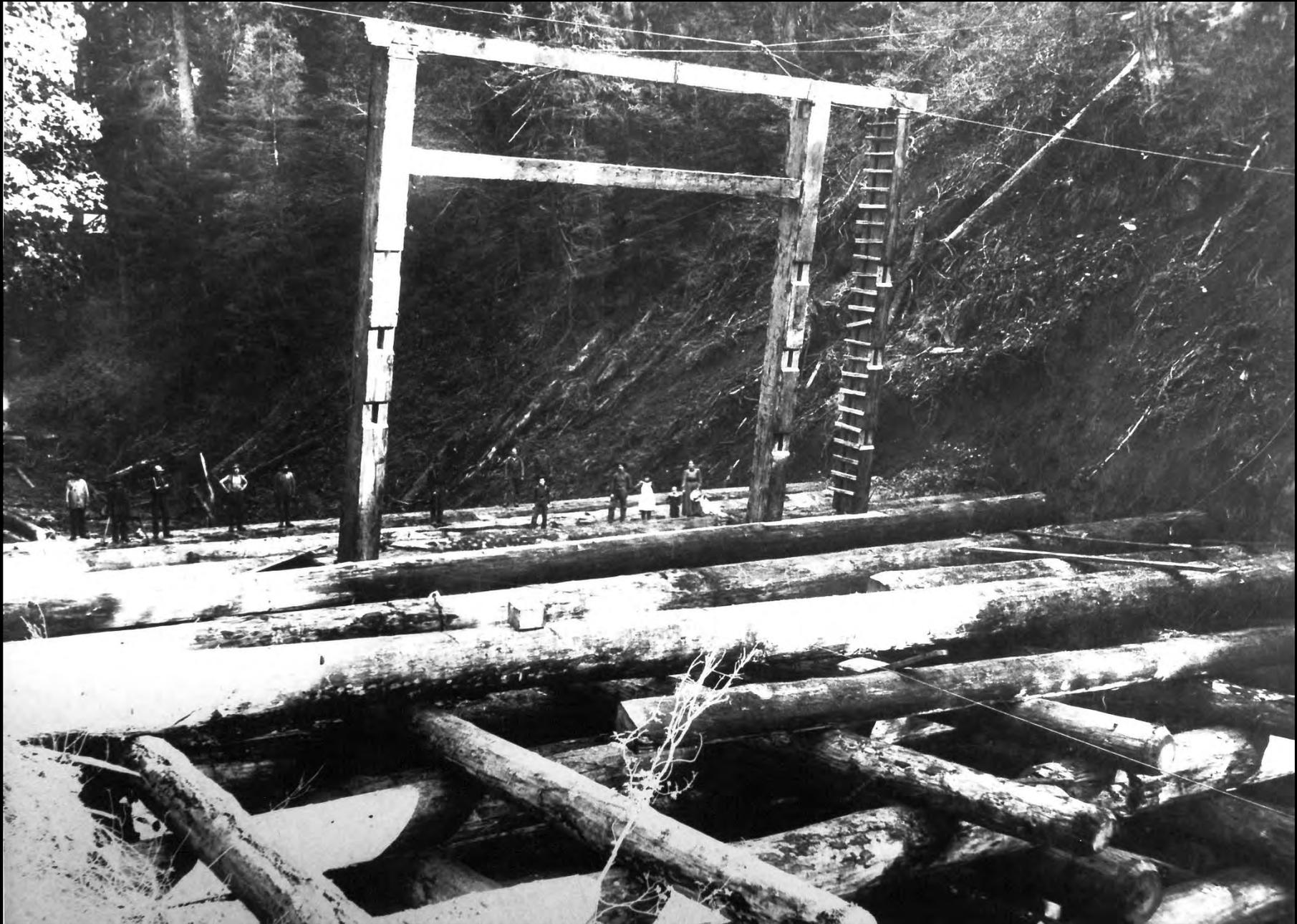
Burnout













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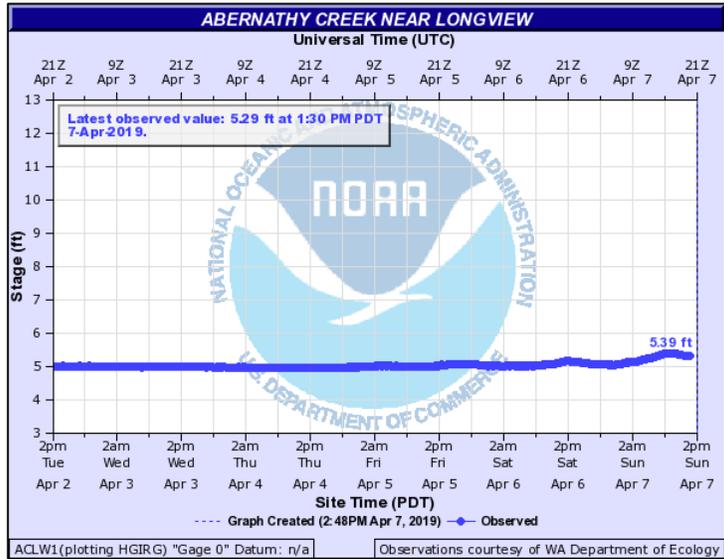




"If your life's work can be accomplished in your lifetime,
you're not thinking big enough."

-Wes Jackson





Questions We Wish We Had Asked
 (and maybe could have answered)