

Kelly Clayton Yakama Nation Fisheries

Big Creek Fish Passage Project



Ensign Ranch, Cle Elum, WA

Pott Road CREP project



Reecer Creek, Ellensburg, WA

Big Creek Fish Passage



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1986 – Fishway constructed



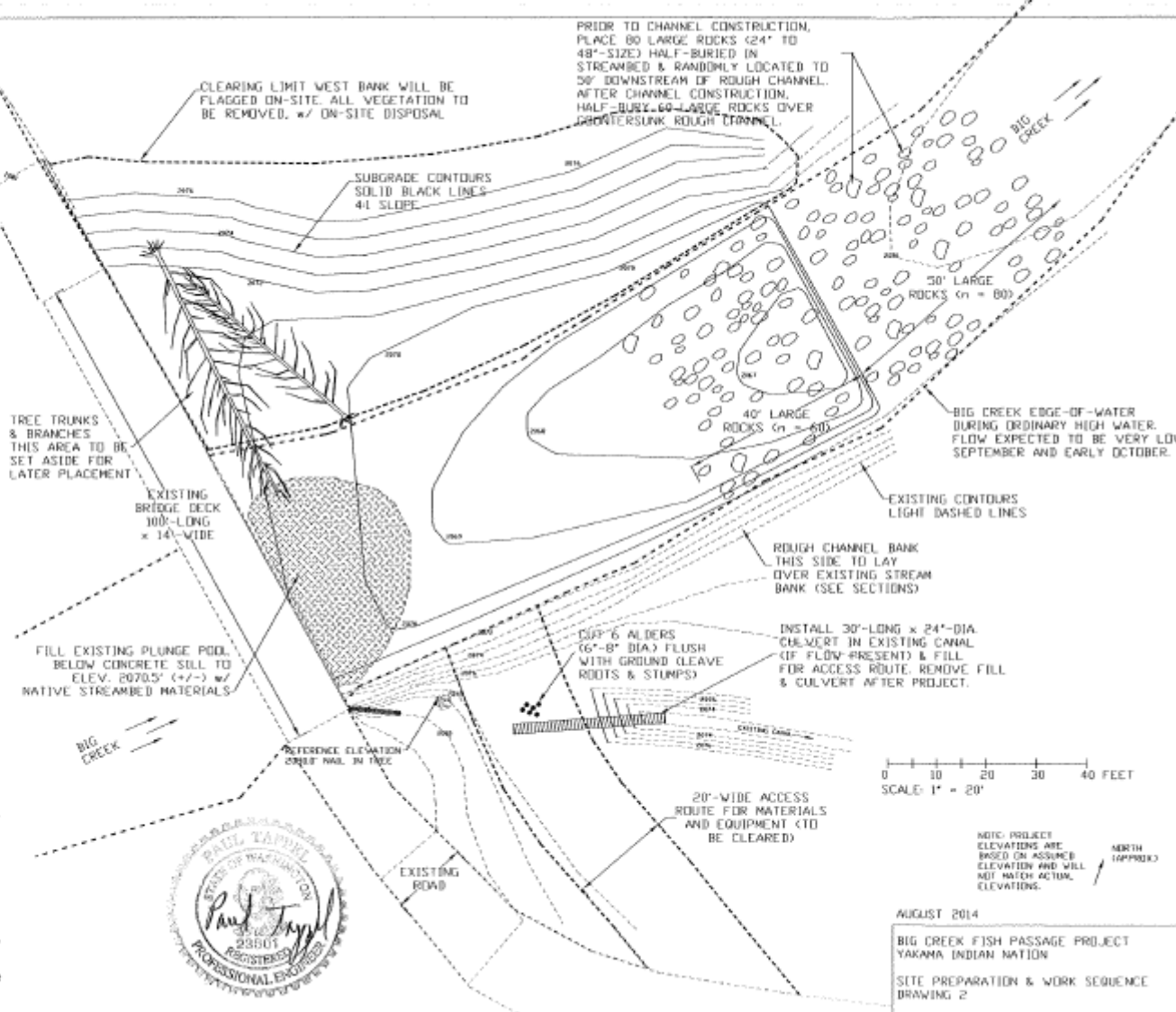


1987 – screen installed



Work Sequence and Notes:

1. Clear and grade access route from existing Ensign Ranch road, as shown this drawing. Clearing debris shall be hauled to disposal location within 1/2-mile of project (as directed by Ensign Ranch), piled semi-neatly, and mashed down. The existing bank may be graded for a more gradual ramp into creek bed (not shown).
2. Big Creek expected to have almost zero flow in September and early October, and this time period is required for rough channel construction (okay to start after Labor Day). Isolated pools of water would contain fish, and Contractor shall provide and operate a 2"-dia. trashpump to gradually pump any standing water out (release downstream).
3. Pumps used to de-water in-stream pools, and/or to bypass streamflow (if present), shall be equipped with a fish guard to prevent fish passage into the pump intake. Each pump intake shall be screened with maximum opening diameter 0.094" perforated plate, 0.069" profile bar, or 0.087" woven wire mesh. Minimum open area for these screens shall be 27%. Water velocity into the pump intake shall be less than 0.4 feet per second.
4. YIN and/or WDFW staff would monitor water drawdowns, and would have nets and buckets for fish capture and transport (to Yakima River). Contractor to coordinate water removal(s) with YIN and WDFW for drawdown of all water pools within work area.
5. The engineer will assist Contractor with subgrade layout, elevations, etc. The first work would be to excavate the existing streambed to generate sufficient cobble, gravel & sand materials to fill the existing plunge pool.
6. Excavation within existing stream channel shall be completed first (i.e. between edge-of-water lines shown this drawing), with some excavated materials stockpiled on-site. Stockpiled materials shall be used for shallow burial of the completed rough channel (Sta 0+00 thru 0+40), and for a thin layer of gravel & sand to be spread over the entire rough channel (after other construction completed).
7. After subgrade preparation within edge-of-water lines shown this drawing, the west bank would be cleared and excavated as shown this drawing. All clearing debris shall be disposed on-site as described above. Excess excavated bank materials shall be hauled to disposal sites within 1/2-mile of bridge, dumped, and graded to blend with surrounding contours (Ensign Ranch will locate upland sites).
8. Build rough channel as shown on other drawings. The engineer has a step-by-step process previously used to efficiently build 60+ rough channels state-wide, and Contractor will be advised start-to-finish.
9. See Drawing 6 for additional notes related to site access, stockpile and staging areas, restoration of road surfaces disturbed by construction, etc.

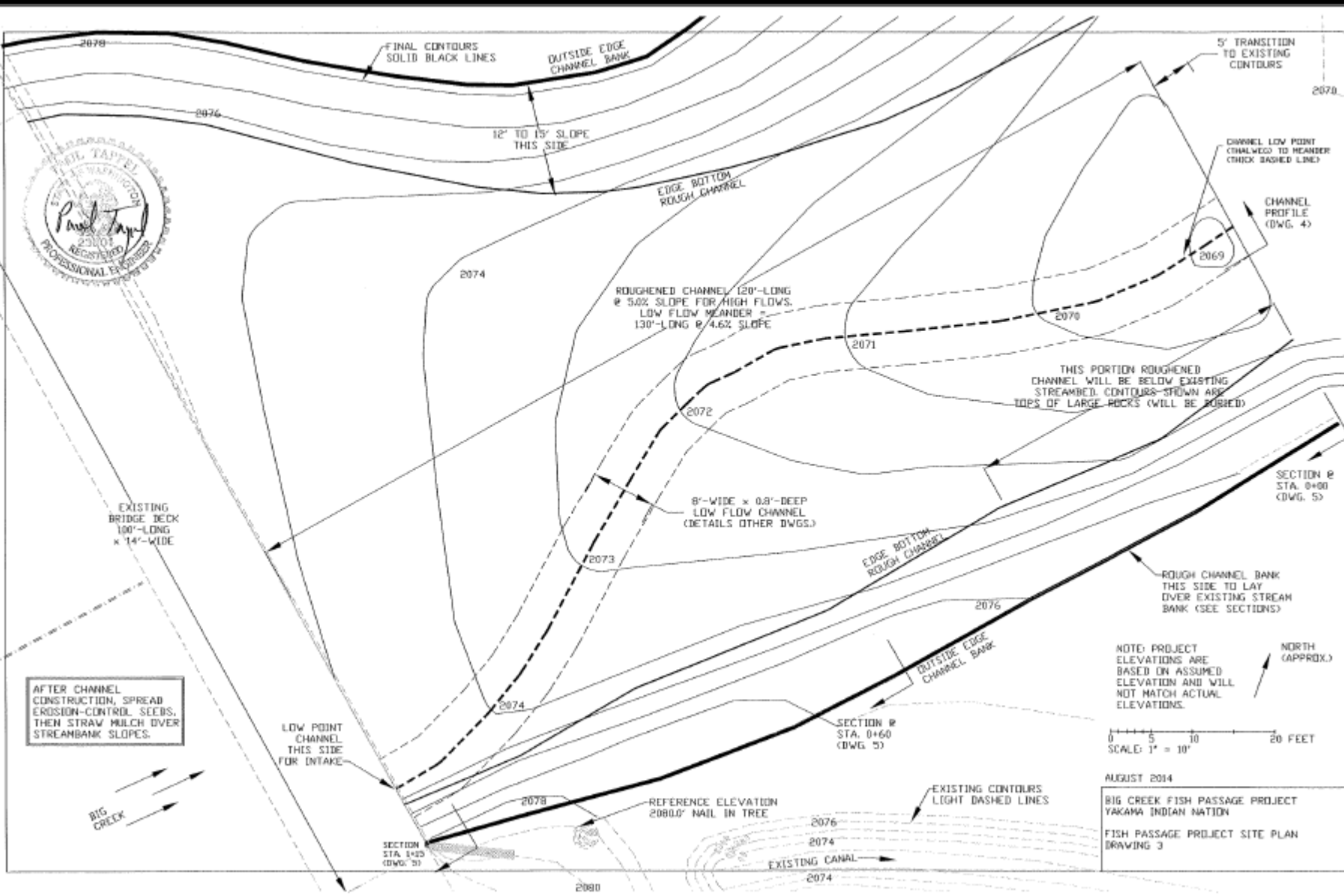


NOTE: PROJECT ELEVATIONS ARE BASED ON ASSUMED ELEVATION AND WILL NOT MATCH ACTUAL ELEVATIONS.

AUGUST 2014

BIG CREEK FISH PASSAGE PROJECT
YAKAMA INDIAN NATION

SITE PREPARATION & WORK SEQUENCE
DRAWING 2



AFTER CHANNEL CONSTRUCTION, SPREAD EROSION-CONTROL SEEDS. THEN STRAW MULCH OVER STREAMBANK SLOPES.

NOTE: PROJECT ELEVATIONS ARE BASED ON ASSUMED ELEVATION AND WILL NOT MATCH ACTUAL ELEVATIONS.

SCALE: 1" = 10'

AUGUST 2014
BIG CREEK FISH PASSAGE PROJECT
YAKAMA INDIAN NATION
FISH PASSAGE PROJECT SITE PLAN
DRAWING 3















Fish rescue results:

91 *O. mykiss*

30 spring chinook juveniles

294 coho juveniles

274 sculpins (not identified to species)

7 crayfish

1 Pacific Giant Salamander



Fish rescue results:

91 *O. mykiss*

30 spring chinook juveniles

294 coho juveniles

274 sculpins (not identified to species)

7 crayfish

1 Pacific Giant Salamander

415 salmonid species!





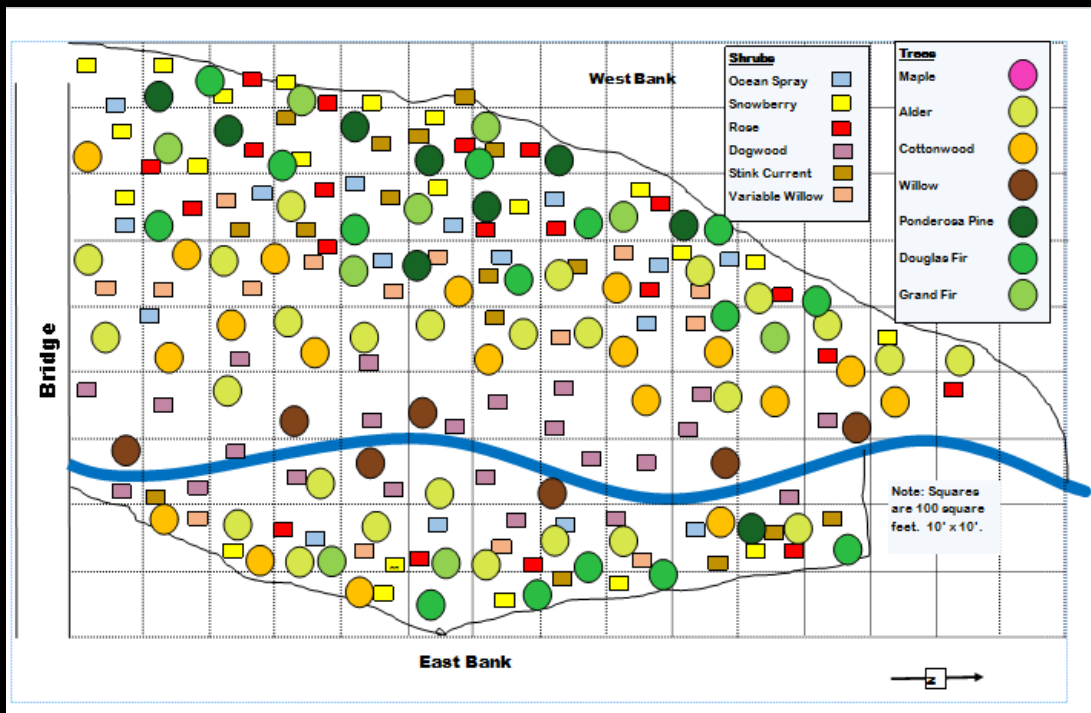
Eagle Scout Projects...



Jacob Jewett

Re-vegetation design
and implementation

November 2014





Dean Child

Design and build
educational board

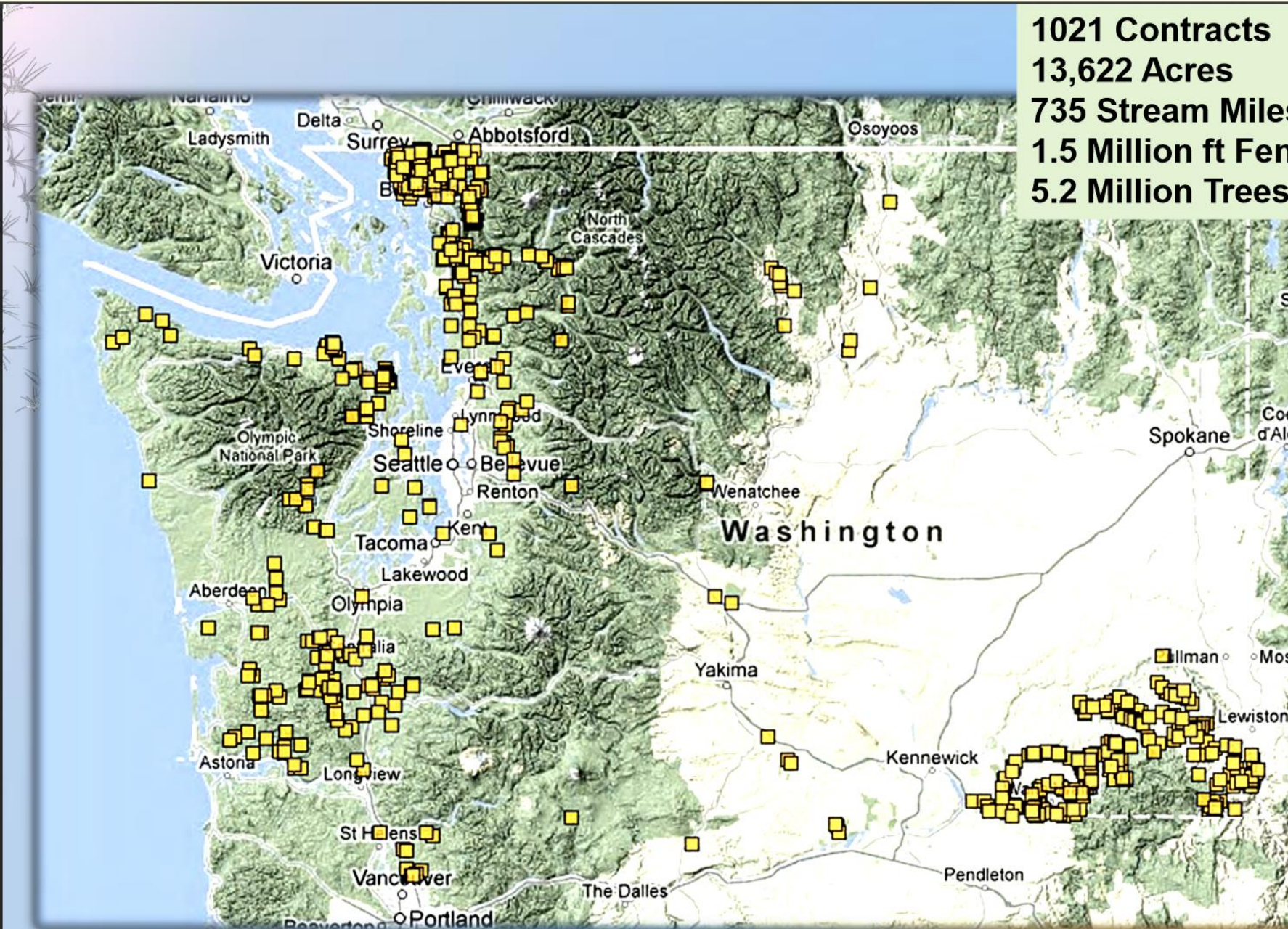
Summer 2015

Thank you!!!

- Jennifer Nelson, WDFW
- Shirley Alvarado, YN admin
- Rachel Castilleja, YN admin
- Michelle O'Malley, BPA COTR
- Jenny Lord, BPA EC
- Paul Tappel, engineer
- Thayer Excavating
- LDS church
- Washington Conservation Corps
- YN Cultural staff
- Washington Water Trust



1021 Contracts
13,622 Acres
735 Stream Miles
1.5 Million ft Fence
5.2 Million Trees



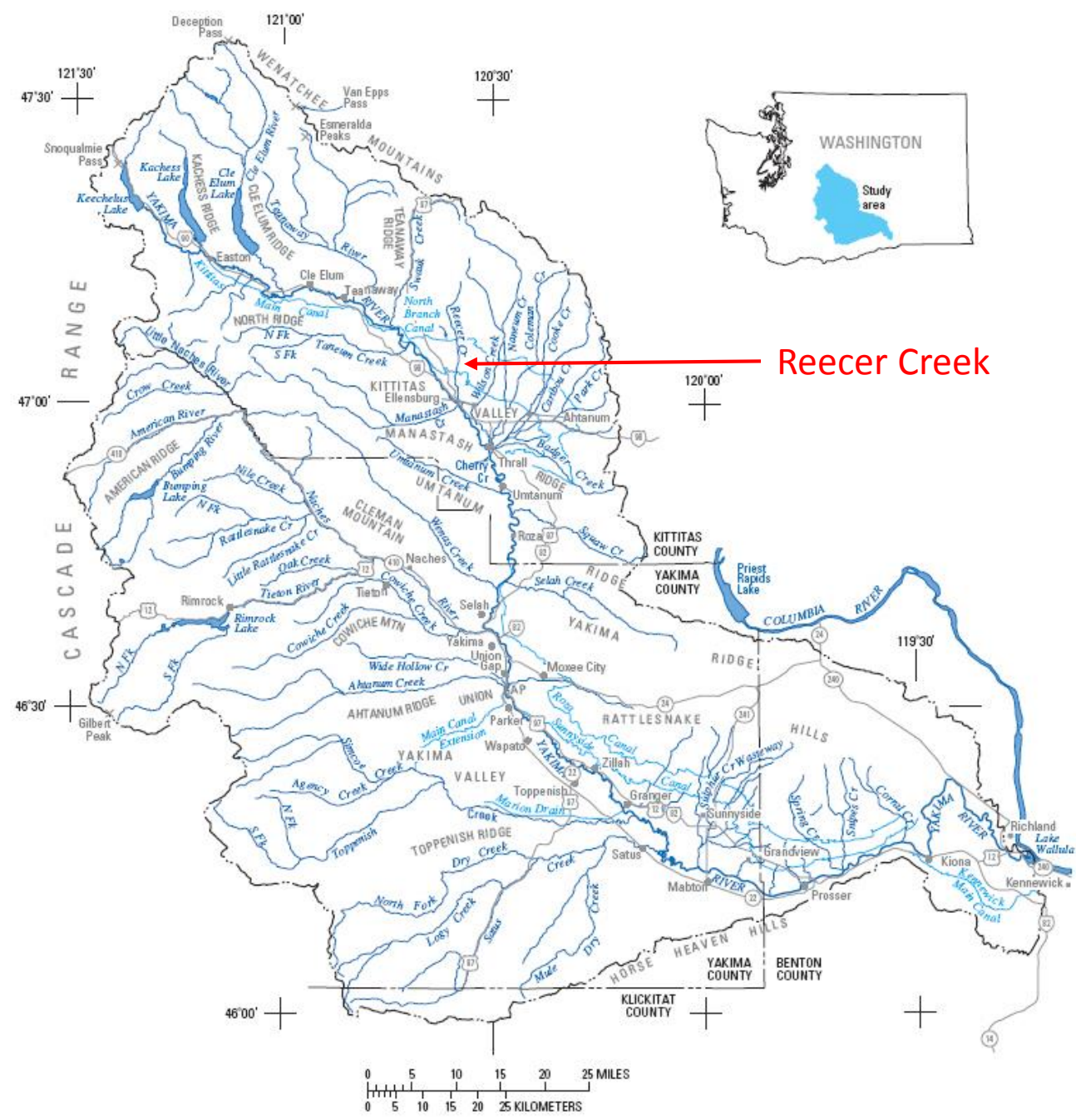
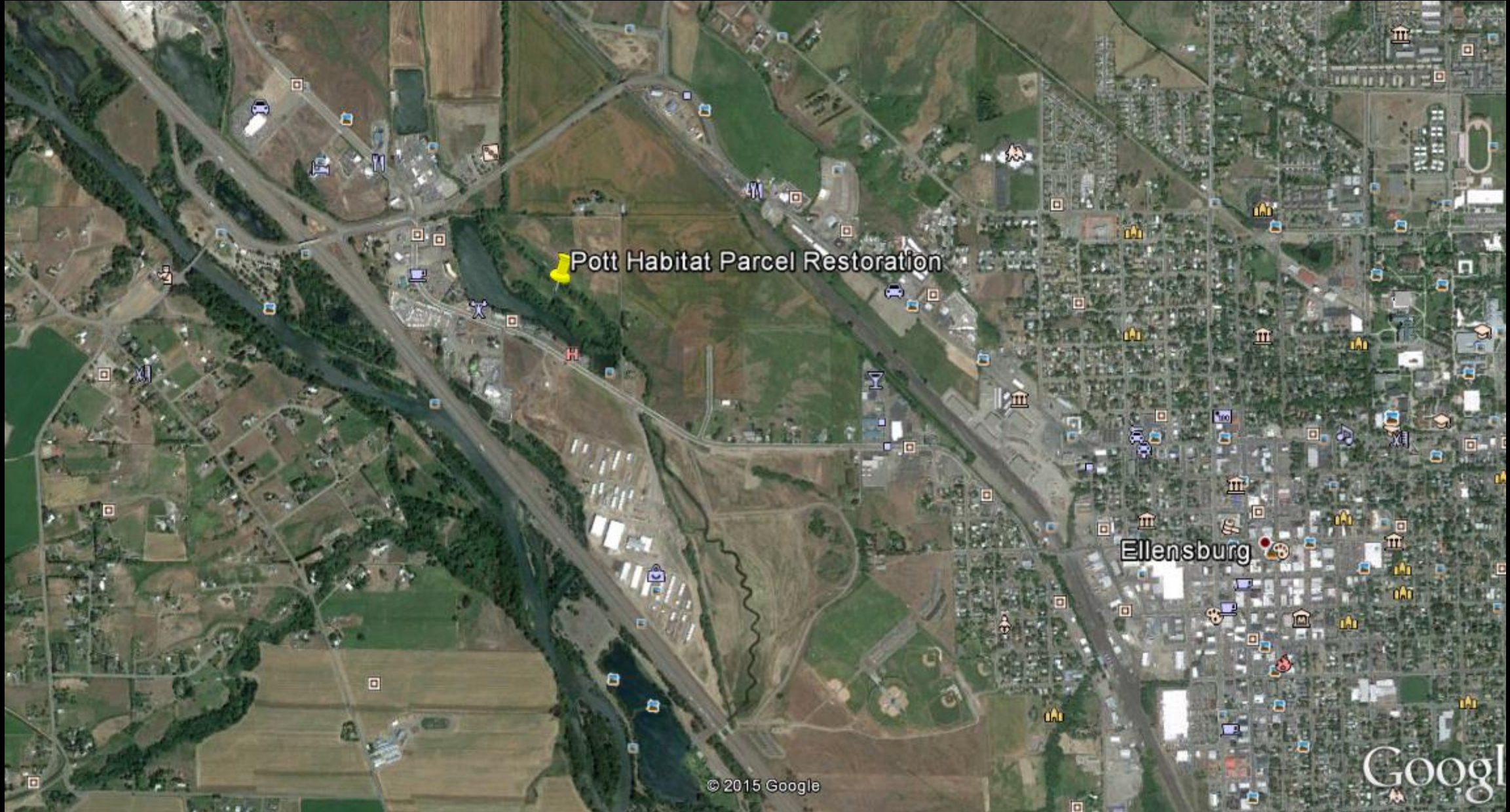
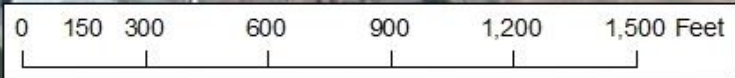


Figure 1. The Yakima River Basin, Washington.



Pott Habitat Parcel Restoration

Ellensburg













1 year later....









Thank you!!!!

- Salmon Recovery Funding Board
- Scott Nicolai, YN
- Ida Ike, YN admin
- Mid-Columbia Fisheries Enhancement Group
- Washington Conservation Corps
- Jennifer Nelson, WDFW
- Mike Denny, Walla Walla Conservation District
- Natural Reclamation Service