

# CRO

# Trust Water Right

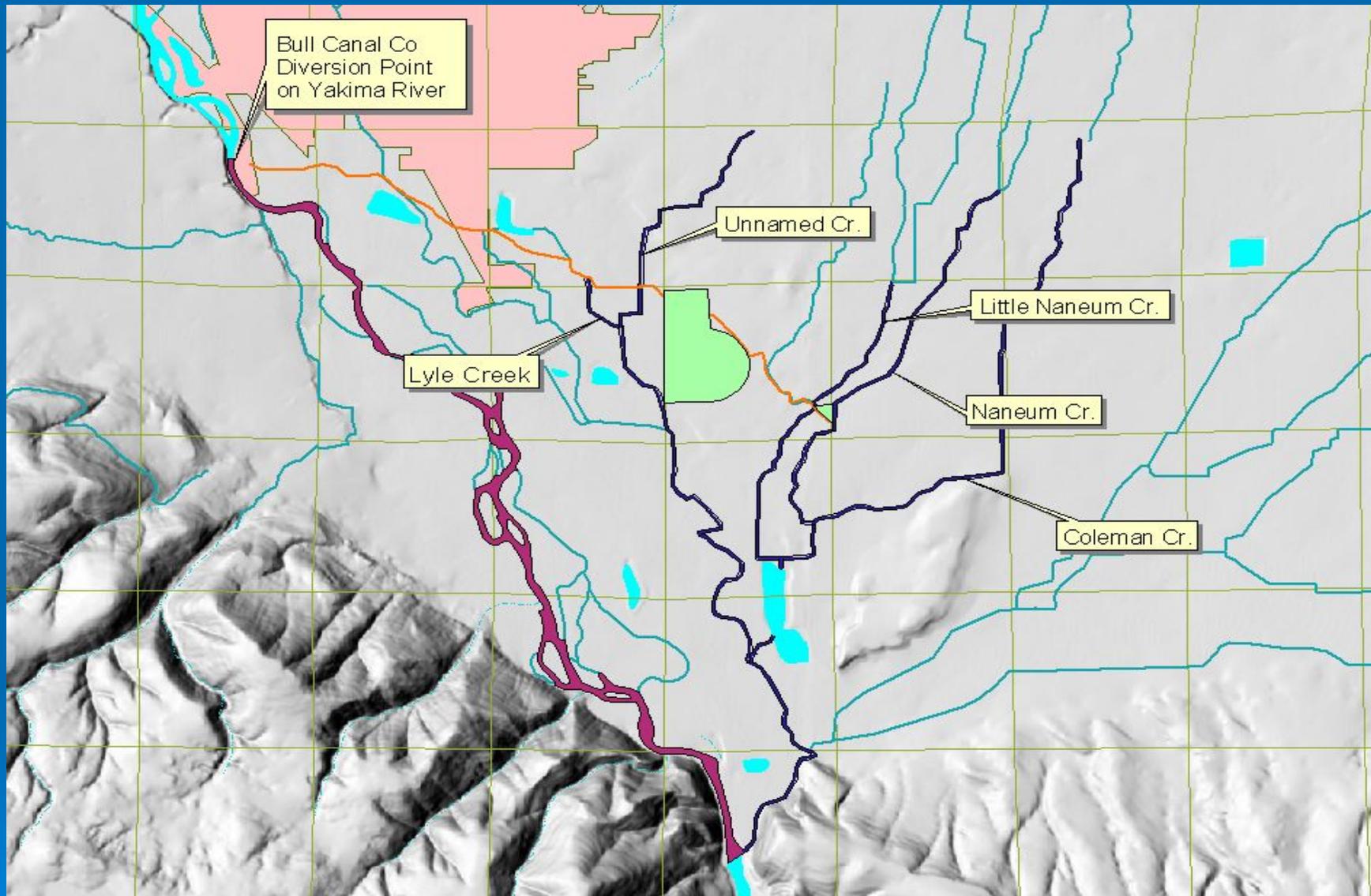
# Case Studies

Bull Canal Company  
Brunson



# Bull Canal Company / Brunson IEGP Project Proposal

- 156.4 acres converted from gated pipe to high-efficiency sprinklers
- 553.1 acre-ft/yr of conserved water.
- Conserved water spilled into YR tributaries rather than YR mainstem.
- Perpetual donation of privately held 3.61-acre irrigation water right.





# Challenges:

1. Upper ~16 acres of project area are irrigated from different water company which is not willing to put conserved water in TWRP.
2. The primary reach on the Yakima River doesn't need water.
3. WDFW wants to spill conserved water in any of five tributaries as needed.
4. 3.61-acre donation added to project can't be accepted whole, appurtenancy must be retained for the future proposed consumptive use.

# Solutions:

- Identify Primary Reach on YR, but conserved water benefits tributaries.
- Management Plan is developed to determine which of the five tributaries will benefit from the saved non-consumptive water each year.
- Accept donation but maintain 1.31 acre-ft/yr consumptive use for one-half acre of lawn/garden.

# Management Plan

- Five alternatives to put conserved water into a combination of Lyle, Unnamed, Naneum, Little Naneum and Coleman Creeks depending on the biological benefit.
- Default alternative is to spill 0.8 cfs into Little Naneum Creek for 214 days, from April 1 through October 31.

# Management Plan (cont'd)

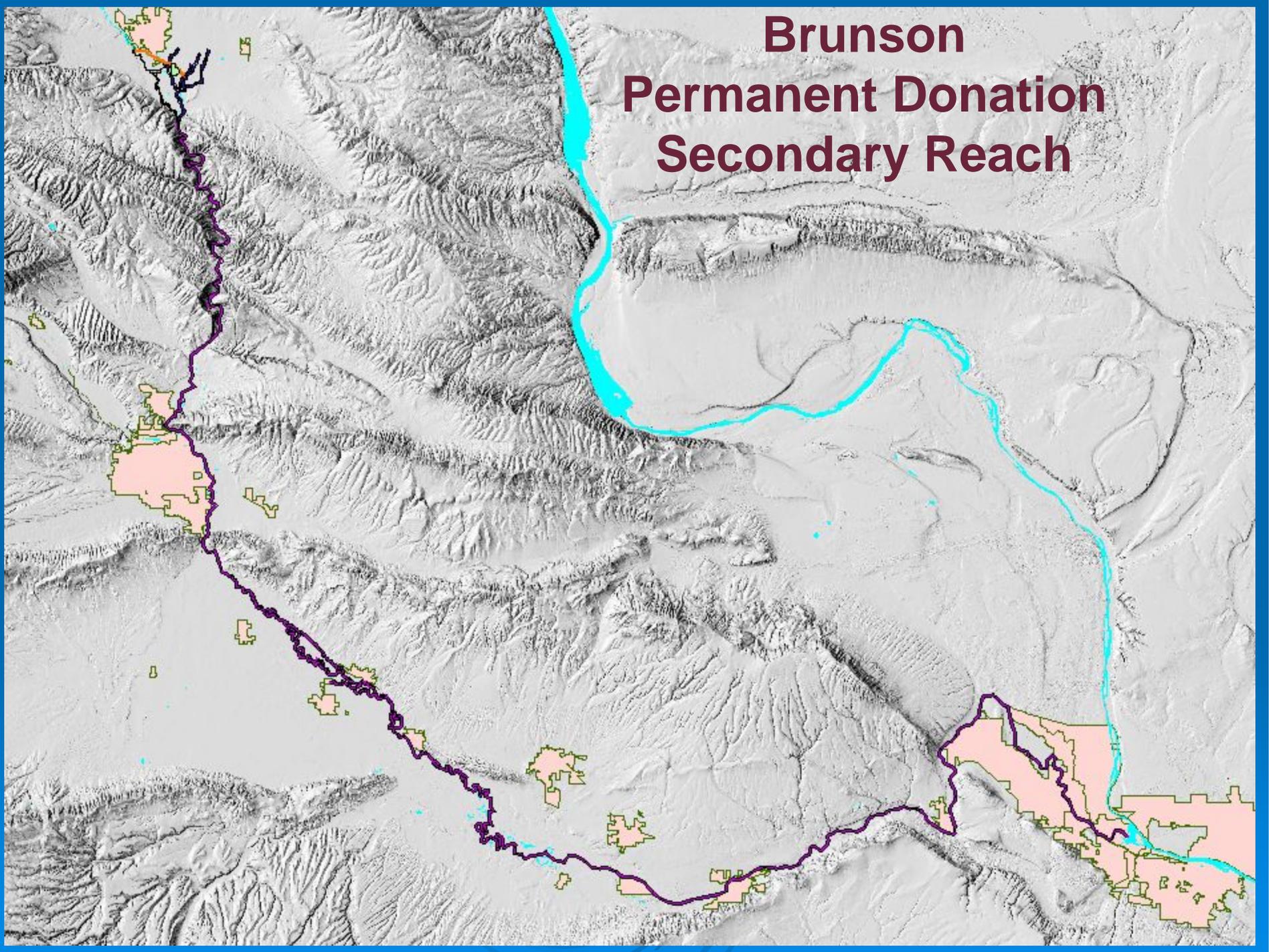
- Thirty days prior to April 1, Management Team (current land-owner and BCC, WDFW, KCCD and ECY representatives) will determine which alternative will be used.
- When proposed plan will deviate from the default, ECY will publish on the internet.

## Results of Consumptive Use Calculations for TWRP Donation

	# Acres	Apr	May	Jun	Jul	Aug	Sept	Oct	Total
<b>Historical CIR</b>	3.61	0	0.97	2.15	2.95	2.36	1.34	0.19	9.98
<b>Lawn/Garden</b>	0.50	0	0.13	0.28	0.39	0.31	0.18	0.03	1.31
<b>Available for TWRP</b>	3.11	0	0.85	1.87	2.56	2.05	1.17	0.17	8.67

**Table 1** shows crop irrigation requirements for water historically used on the 3.61 acres and the (assumed) domestic water use for a half-acre lawn/garden (all values in acre-ft/yr). The WIG data show no CIR for the month of April.

# Brunson Permanent Donation Secondary Reach



# Conclusion

- Two Trust Water Rights Created
  - CS4-00886CTCL@2 (Bull Canal Company)
    - IEGP project resulted in a 20-year trust water lease (85% of conserved water)
      - 3.27 cfs => 339.5 acre-ft/yr
  - CS4-00606CTCL (Brunson)
    - Primary Reach
      - 0.26 cfs => 36.64 acre-ft/yr
    - Secondary Reach
      - 0.01 – 0.04 => 8.67 acre-ft/yr