

PURPOSE & NEED

"Rancheria Creek"

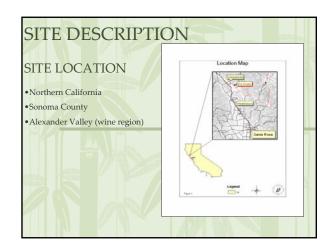
- •Primary Drainage of Dry Creek Rancheria
- •Tributary to Russian River
- Endangered species
- Agriculture
- •Historic tribal lands

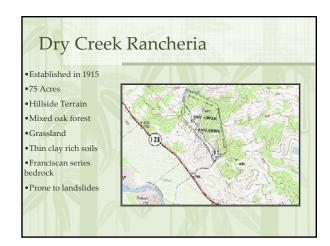
The Problem

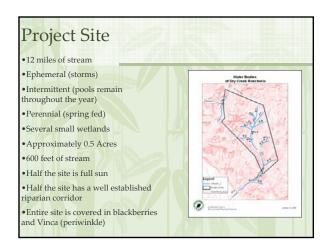
- •Invasive species (Himalayan Blackberry, Vinca)
- Large solid waste (telephone poles)
- Assorted trash
- Waste covered by blackberries (hard to estimate volume)

GOALS

- Improve water quality on the Rancheria and downstream
- Decrease flooding and erosion
- Improve habitat (fish and wildlife)
- Increase awareness (Tribal and public)
- As outlined in Dry Creek Rancheria Nonpoint Source Assessment and Management Plan







Project Planning

- •Scale Drawings to help estimate number of plants needed and irrigation
- Decide on Best Management Practices
- > Heavy Equipment out of the creek
- > Weed eaters and hand tools only
- > Erosion control (jute netting and hydroseeding)
- Gather estimates
- >Heavy equipment
- Invasive species removal
- ➤ Waste hauling



PROJECT PLANNING

Native Plants

- Two microclimates in the project area (full sun, and shade)
 Surveys of plants currently found on the Rancheria
 Lists of available Native Plants from local nurseries
 Compile a preliminary plant list (what's on site vs what's available)
- Submit plant list to Tribal Cultural committee for review and approval
 Order plants







Final Plant List (SUN)

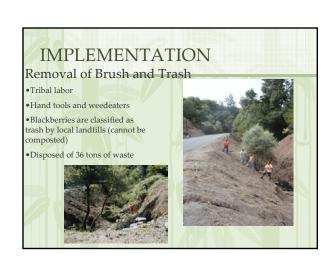
Trees
California Bay
Madrone
Black Oak
Coast Live Oak
Buckeye
Big Leaf Maple

Shrubs

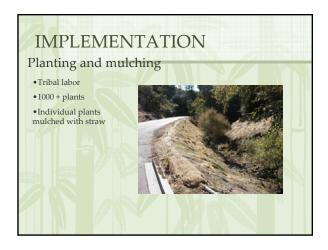
Perennials and "soft plants" Columbine Butter cup Yarrow Coyote mint Bush Monkey Flower

Final Plant List (SHADE) Shrubs Dogwood Snowberry Hazehut Blue Eldeberry California wild grape Perennials and "soft plants" Angelica tomentosa Wild Iris California Strawberry Western Sword Fern Giant Chain Fern California Polypody Brachen Fern Clover "Redwood sorrel" "Wood sorrel" "Wood sorrel" Could Consult (SHADE) Cornus stolonifera Sumplucus mexicanta* Vitis californica Sambucus mexicanta* Vitis californica Iris douglasisma Fragaria californica Polystichum munitum* Woodwardia fimbriata* Pelypodium adifornicum Pteridium aquilinium Oxalis oregano Oxalis Corniculata





IMPLEMENTATION Erosion Control and Irrigation • Jute netting • Hydroseeding of native grasses • Fresh water irrigation with well water



• Plant selection-keep it simple • Avoid "soft plants" that can be damaged in planting • Order plants early • Our local Nurseries try to have their stock at planting maturity by early fall, time your planting accordingly • If possible have the nursery care for the plants until just before planting

LESSONS LEARNED

- Hydroseed before laying erosion control
- Water several times before installing jute netting and again before planting
- •Use a power auger to dig the holes

FUTURE

UPKEEP

- weeding, mulchingPull blackberries and other invasives

- Pull blackberries and other if as they appear (reappear)
 Replant as necessary
 Clean litter as needed
 Address erosion concerns as necessary

Site specific plant propagation Gathering cuttings and seeds of plants on the Rancheria Propagate plants on site for maintenance and future restoration



FUTURE

Continue restoration upstream

•At least another 1200 feet of stream is inundated with invasive species and trash



