

TRRP Construction Program

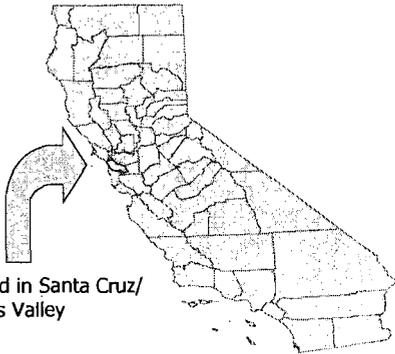


TAMWG Meeting
August 26, 2008

Overview

- Jennifer's background
- Overview of RIG Activities
- Questions

Grew up...



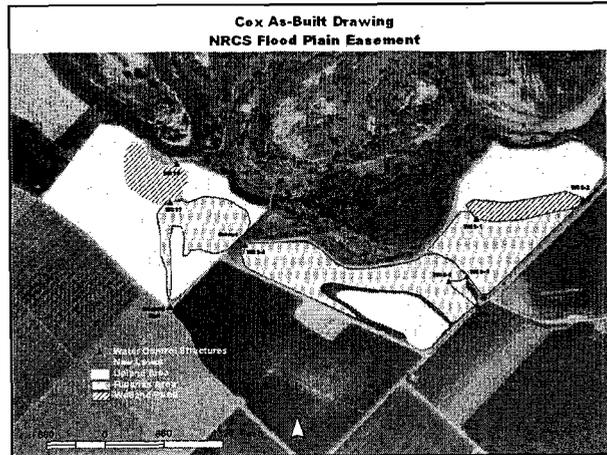
Raised in Santa Cruz/
Scotts Valley

Went to school...

- Cal Poly, San Luis Obispo
 - B.S. in Civil Engineering
 - Div. II Women's Basketball
- UC Davis
 - M.S. in Environmental Engineering
- Registered Professional Engineer

Went to work...

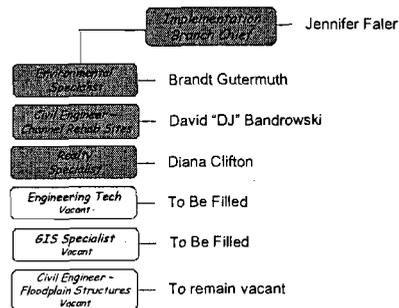
- > Santa Cruz & Santa Clara Valley Water Districts
(4 years during college)
- > USACE (8 years)
- > Ducks Unlimited (1½ years)
- > USDA (5 years)
- > TRRP



Overview of RIG

- > Staffing
- > Rehabilitation site construction
- > Gravel augmentation
- > Floodplain structures

Rehabilitation Implementation Group Staff



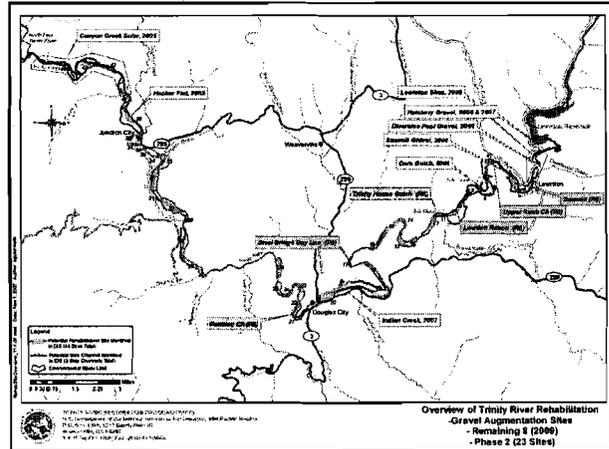
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Rehabilitation Site Construction

- Past (8 sites)
 - Hocker Flat
 - Canyon Creek
 - Indian Creek

- Present (8 sites)
 - Lewiston-Dark Gulch

- Future (31 sites)
 - Remaining 8
 - Phase 2 Sites



Rehabilitation Site Construction Summary

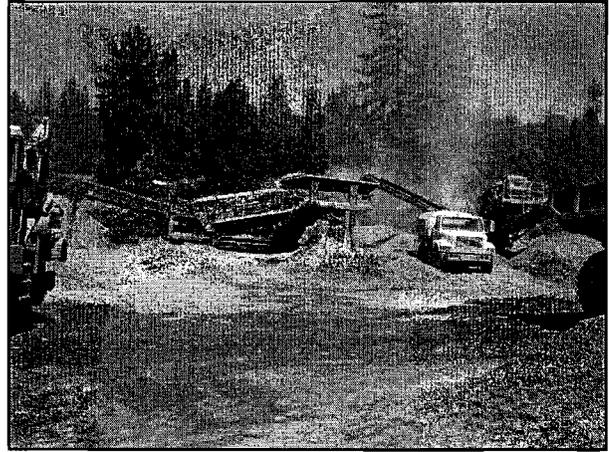
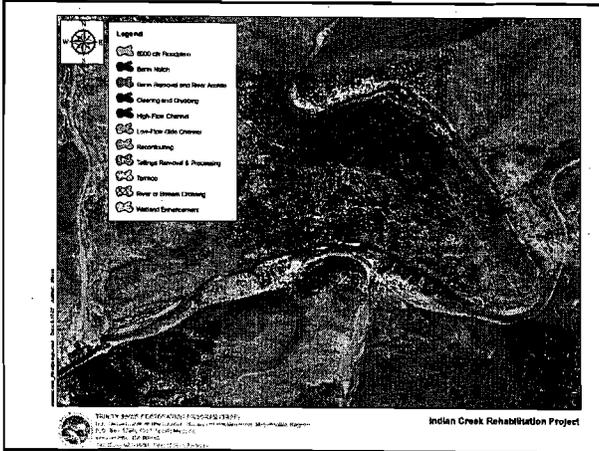
| Calendar Year | Planning, Design, NEPA/CEQA | Permitting, Construction, Re-vegetation | # Sites | Dirtwork (CY) | Gravel (Tons) | LWD (Trees) |
|---------------|-----------------------------|---|---------|---------------|---------------|-------------|
| 2004 | Hocker Flat | - | -- | -- | -- | -- |
| 2005 | Canyon Creek | Hocker Flat | 1 | 83,000 | 0 | 0 |
| 2006 | Indian Creek | Canyon Creek | 4 | 91,000 | 0 | 100 |
| 2007 | Lewiston-Dark Gulch | Indian Creek | 3 | 77,800 | 0 | 200 |
| 2008 | Remaining 8 | Lewiston-Dark Gulch | 8 | 56,900 | 10,700 | 200 |
| 2009 | Phase 2 (up to 4 sites) | Remaining 8 | 4 | 231,555 | 23,500 | TBD |
| 2010 | Phase 2 (8-8 sites) | Remaining 8 | 4 - 8 | 202,300 | 35,370 | TBD |
| 2011 | Phase 2 (8-8 sites) | Phase 2 (8-8 sites) | 8 - 8 | TBD | TBD | TBD |
| 2012 | Phase 2 (8-8 sites) | Phase 2 (8-8 sites) | 8 - 8 | TBD | TBD | TBD |
| 2013 | - | Phase 2 (8-8 sites) | 8 - 8 | TBD | TBD | TBD |

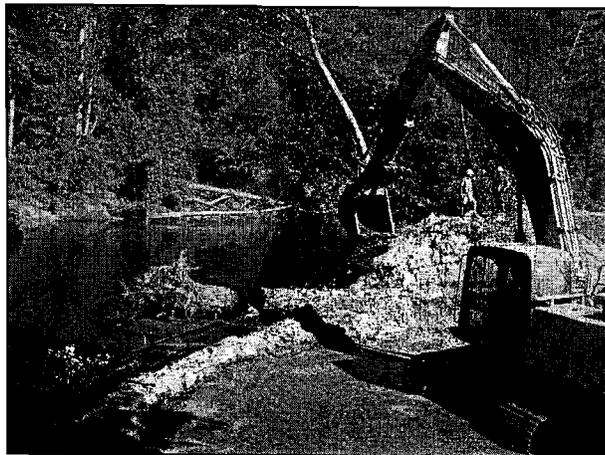
Total Dirtwork for Hocker Flat, Canyon Creek, Indian Creek and Lewiston-Dark Gulch = 308,200 cy

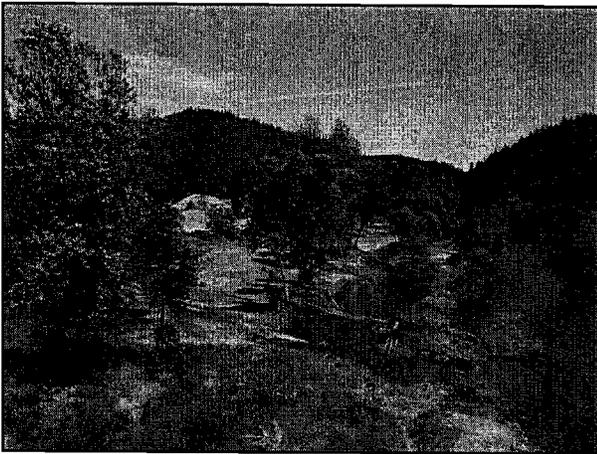
Total Dirtwork for Remaining 8 Sites = 434,000 cy

Indian Creek

- Construction Completed October 19, 2007
- 6,500 tons hauled to Lewiston Hatchery and placed by USFS
- 3,500 tons stockpiled for high flow injection in 2008
 - 2,500 tons at Diversion Pool
 - 1,000 tons at Sawmill Site
- 11,000 tons stockpiled at Indian Creek for placement at Lewiston-Dark Gulch in 2008
- Revegetation planned for Fall '08 or Spring '09





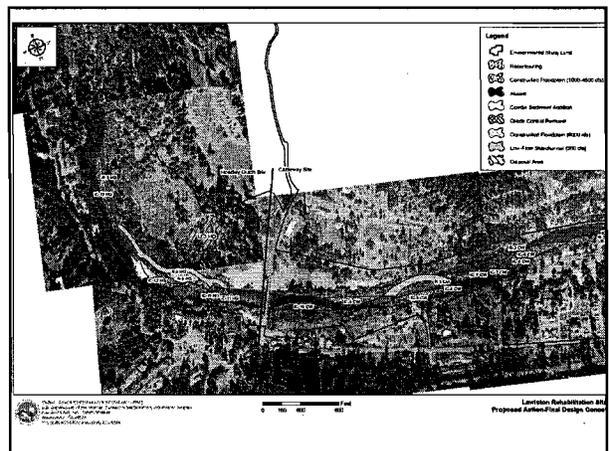
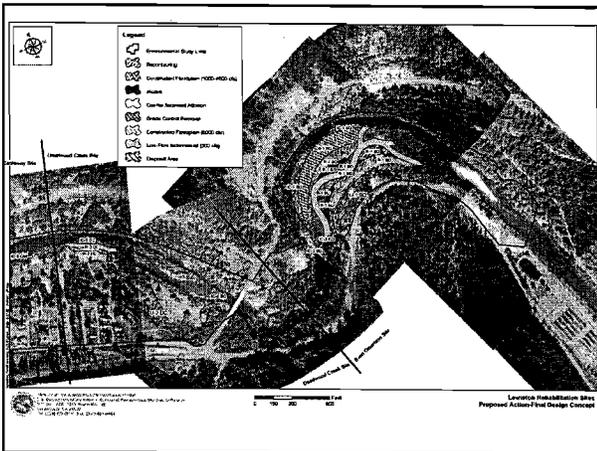


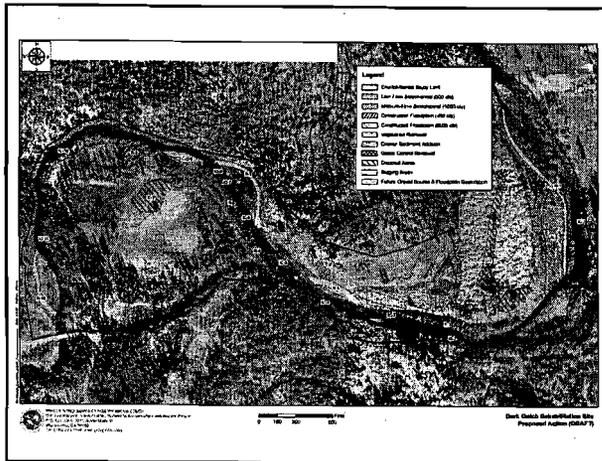
Lewiston-Dark Gulch: Schedule

- ✓ 50% Designs Complete & Sent to NSR 05/25/07
- ✓ Value Engineering Study 10/01/07
- ✓ Draft EA/EIR Complete 11/16/07
- ✓ End Public Comment Period 12/19/07
- ✓ Sign FONSI 02/26/08
- ✓ 90% Specs & Drawings Complete 01/06/08
- ✓ 100% Specs & Drawings Complete 02/03/08
- ✓ Submit Design Package to Contracting 02/17/08 03/07/08
- ✓ Award Contract 06/15/08 08/15/08
- ✓ Start Construction 07/15/08 08/20/08
- > In-Channel Work Complete 09/15/08

- > Floodplain lowering, side channel construction, large woody debris placements, and re-vegetation (riparian, rushes & sedges) 08/20/08 - 12/31/08

- > End Construction 12/31/08



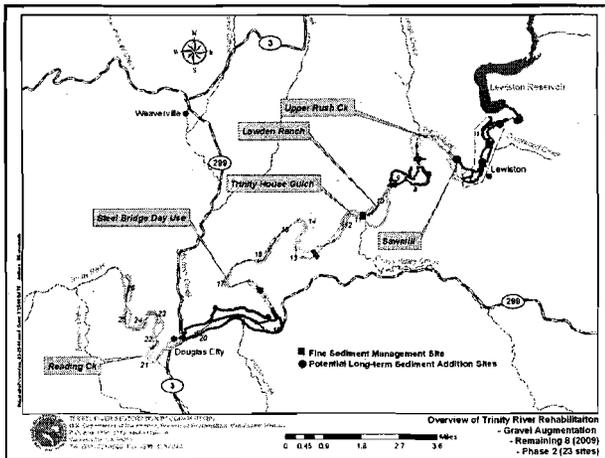


Remaining 8 Sites: Schedule

| | |
|--|----------|
| ✓ Environmental Study Limits Completed | Jun 07 |
| ✓ 10% Conceptual Designs Completed | Nov 07 |
| ✓ Master EIR Public Scoping Meeting | 04/16/08 |
| ✓ 30% Design Information to NSR (Chap. 2) | 06/16/08 |
| ➤ Master EIR - Complete Agency Review | 09/26/08 |
| ➤ Value Engineering Study | Oct 08 |
| ➤ Complete 50% Designs (4 sites)/IDT Meeting | Oct 08 |
| ➤ Public 45 day Comment Period Ends | 12/05/08 |
| ➤ NCRWQCB Findings & Certifies EIR | 02/27/09 |
| ➤ Signed FONSI | 03/06/09 |

Remaining 8: Schedule Cont'

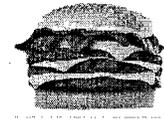
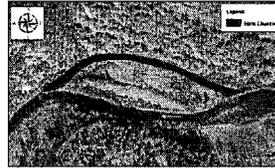
| | |
|---|--------|
| ➤ Complete 90% Designs (1 st 4 sites) | Feb 09 |
| ➤ Realty Agreements Signed | Apr 09 |
| ➤ Award IDIQ Task Order 1 (rehab. sites + gravel) | Apr 09 |
| ➤ Complete 90% Designs (next 4 sites) | Apr 09 |
| ➤ All Permits signed | Jun 09 |
| ➤ Start Construction (2 years) | Jul 09 |
| ➤ End Construction | Dec 11 |



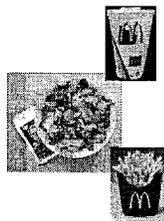
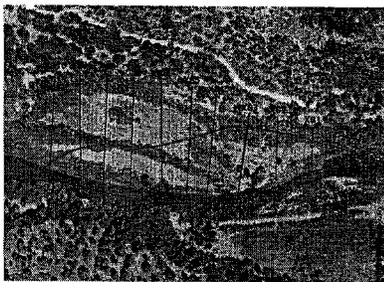
Remaining 8: Design Details/Issues

- Size of Projects
- Analyses Required for Decisions/Design
 - i.e. Lowden Ranch, Trinity House Gulch
- Gravel Placement
 - Direct Placement vs. High Flow Injection
 - Skeletal Bars vs. LWD Key Pieces
 - Quantities?
- Floodplains
 - Inundation Levels, Appropriate Bankfull Width

Go Big???



Right Sizing

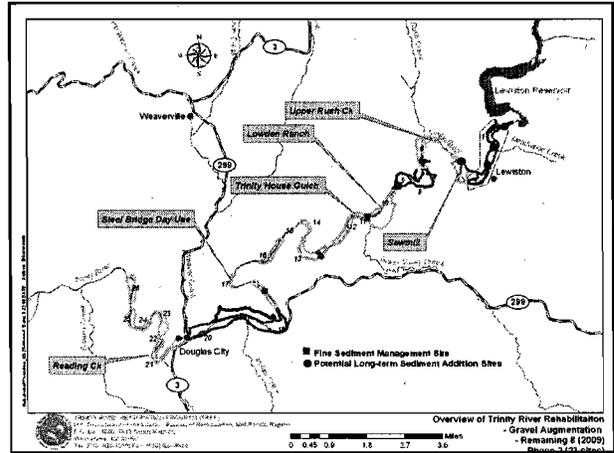


Phase 2

- *Environmental Study Limits Completed - Summer 2007*
- *Site Descriptions/Problem Statements - Fall 2007*
- *Start Planning/Conceptual Designs - Winter 2009*
- *Design & Construction - Summer 2009 thru Winter 2013*

Coarse Sediment Augmentation

| Calendar Year | | Gravel (Tons) | Total per Year |
|--------------------------|---|---------------|----------------|
| 2003 | Cableway | 3,000 | 3,000 |
| 2004 | | 0 | 0 |
| 2005 | | 0 | 0 |
| 2006 | Hatchery | 2,432 | 2,432 |
| 2007 | Hatchery | 6,500 | 6,500 |
| 2008 | High Flow Injections | 3,500 | 14,200 |
| | Lewiston-Dark Gulch | 10,700 | |
| 2009 | High Flow Injections | 6,500 | 30,000 |
| | Sawmill, Rush Creek, Steel Bridge & Reading Creek | 23,500 | |
| | Lowden, Trinity House Gulch, Reading Creek | 35,370 | |
| Total Through 24 Sites = | | | 98,002 |



Flood Plain Infrastructure Program

Roads and Bridges

Major Structure Relocations

Structure Modifications and Emergency Relief

Potable Water and Sewage Disposal System Assistance Program

Potable Water and Sewage Disposal System Assistance Program

Purpose: to allow qualifying landowners to receive financial assistance to relocate, replace, modify, or otherwise improve their existing potable water and sewage systems to better resist damage from fishery flows.

- Public/Private Program
- "Waiver of Liability"
- Multi-Year Program
- Ends September 30, 2009

• Applications will continue to be accepted, but higher threshold for qualification

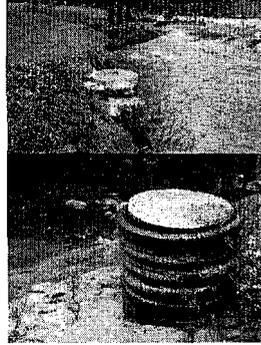
• Trinity County Administration (to end September 2009)



Assistance Program Applications

Applications (as of 7/9/08)

| | | |
|----------------------|------------------------------|-----|
| Potable Water | 114 | |
| Sewage Disposal | 02 | |
| Total | 116 | |
| Eligible Applicants | | 116 |
| Qualified Applicants | | 95 |
| Reimbursed to date: | \$400,000 (45 landowners) | |



\$1 million expected to be paid to landowners by program end 9/30/09