

NRCS Emergency Watershed Protection (EWP) Green River Diversion Rehabilitation Environmental Assessment

Public Open House
November 15, 2012



Project Team

Natural Resources Conservation Service
(NRCS)
Lead Funding Agency

Bureau of Reclamation
(BOR)
Cooperating Funding Agency

Utah Department of Agriculture and Food
(UDAF)
Project Sponsor

McMillen, LLC
NEPA Project Manager/Concept Design

NRCS EWP Process Review



Norm Evenstad – NRCS

- Water Resource Coordinator
- Utah State: \$70 million+ in 2012
- Flood, Wind and Fire Damage

NRCS - EWP Review

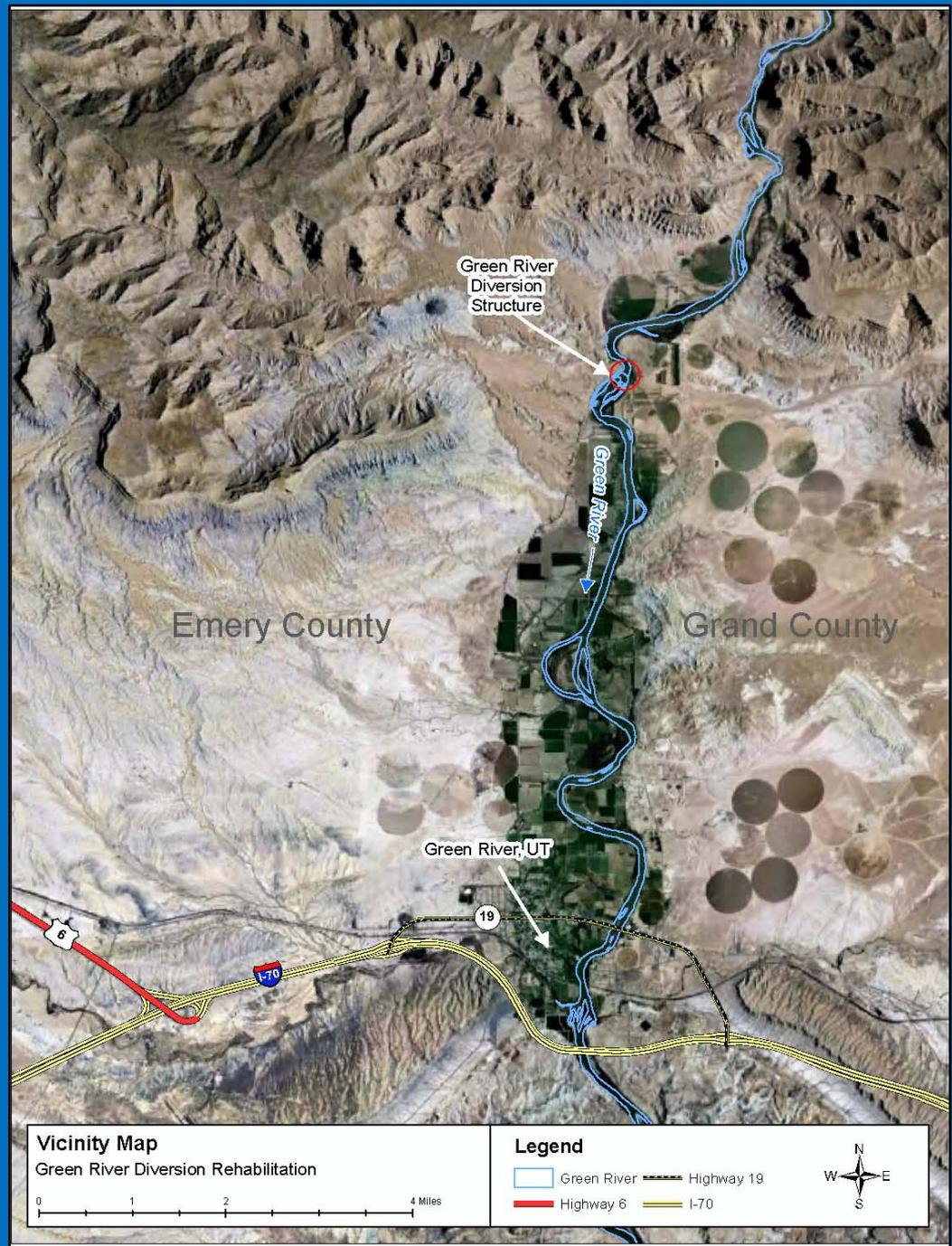
- Green River Diversion
- Damaged by Floods of 2011

Project Review

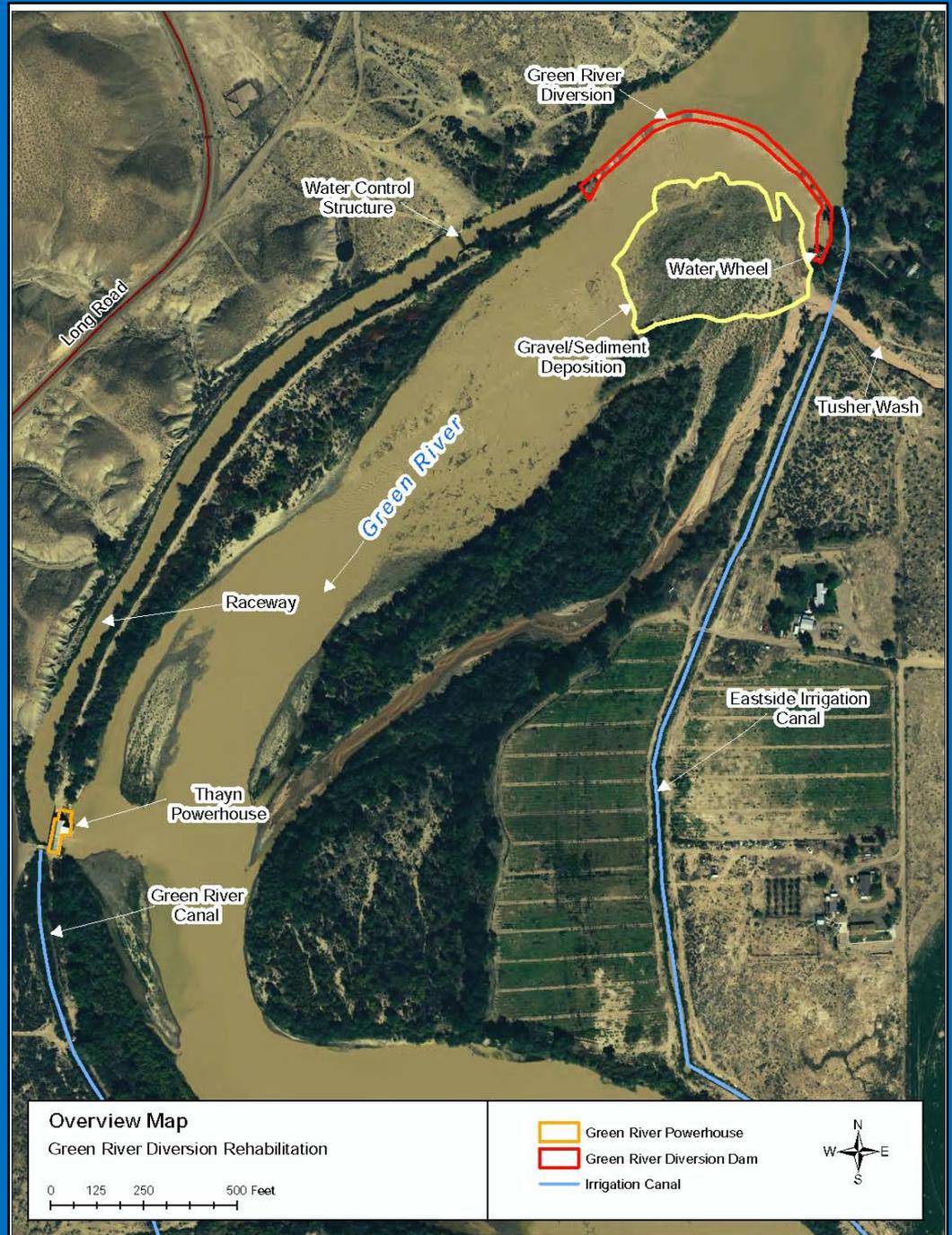


Dan Axness – McMillen, LLC
– Concept Design Project Manager

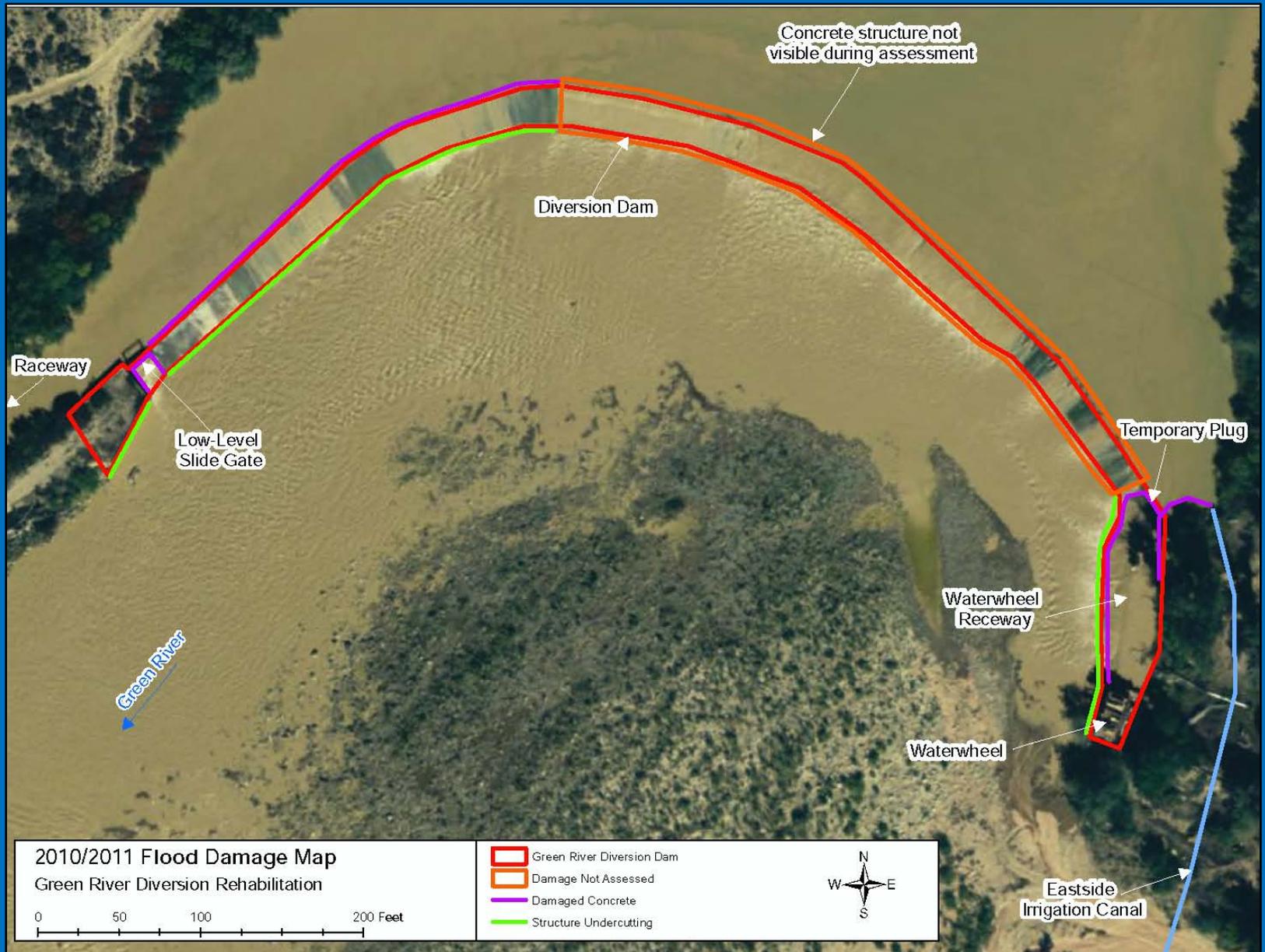
Project Vicinity Map



Project Overview Map



2010/2011 Flood Damage Map



Photos



West End of Diversion



East End of Diversion

Photos



East End of Diversion Damage to Waterwheel Raceway (looking u/s)



East End of Diversion Damage to Waterwheel Raceway (looking d/s)

Photos



West End of Diversion Damage to Diversion Dam (looking u/s)



West End of Diversion Damage to Diversion Dam (looking u/s)

Photos



Damage to Slide Gate West End of Dam
(looking u/s)



Damage to Concrete West End of
Diversion

Photos



Damage to Concrete West End of Diversion



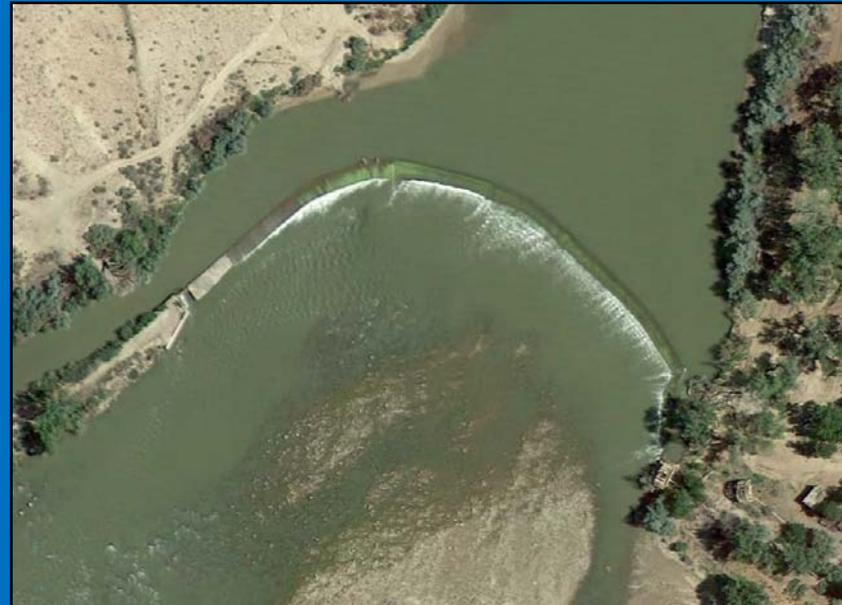
Damage to Concrete and Entrance to Raceway West End of Diversion

Conceptual Project Alternatives

- No Action
- Rehabilitate Diversion (4 Options)
- Diversion Decommissioning
- Fish Passage Upstream/Downstream
- Boat Passage Upstream/Downstream
- Electric Fish Barrier

Conceptual Project Alternatives

- Rehabilitate Diversion Options
 - Repair Existing Diversion
 - Replace Existing Diversion
 - Replace Existing Diversion Downstream
 - Replace Existing Diversion Upstream



Electric Fish Barrier

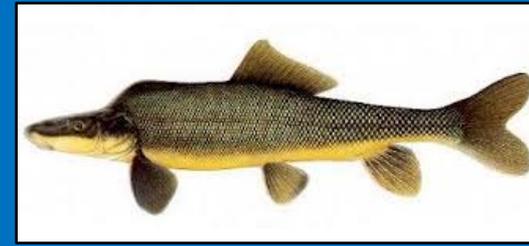
- Deter fish from swimming down powerhouse and irrigation canal raceway



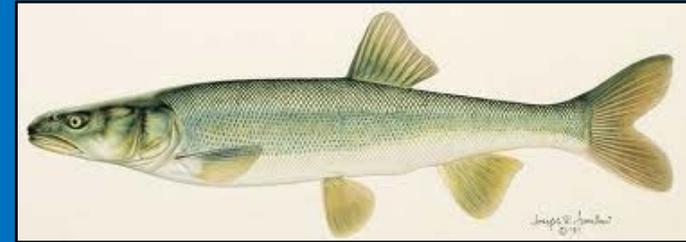
EXAMPLE

Fish Passage

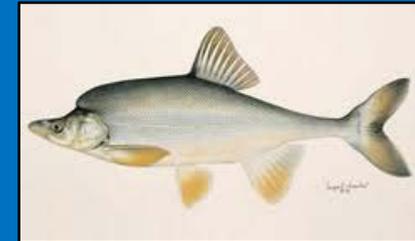
- Endangered and Threatened Fish Species
- Downstream: Notches in Dam
- Upstream: Passage System
- Electronic Tag Reader



Razorback Sucker



Colorado Pikeminnow



Humpback Chub



Bonytail

National Environmental Policy Act



Greg Allington – McMillen, LLC
– NEPA Project Manager

National Environmental Policy Act (NEPA) of 1969
(Public Law 91-190) and the Council on Environmental
Qualities regulations at 40 CFR Parts 1500-1508

NRCS NEPA

- Environmental analysis required for major federal actions.
- The NRCS is the funding agency for the diversion dam rehabilitation project (75%).
- The project sponsor provides the remaining 25% cost-share for the diversion dam rehabilitation project.

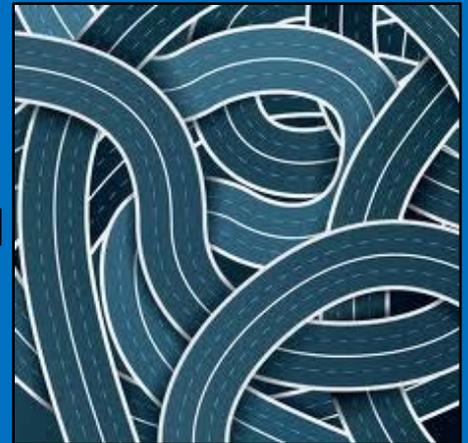
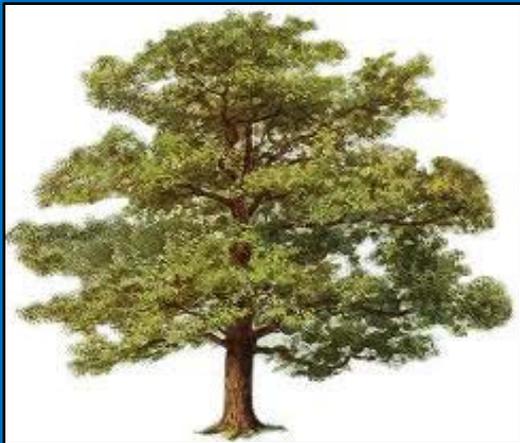


BOR NEPA

- Upper Colorado River Endangered Fish Recovery Program
- The BOR is the funding agency for the electric fish barrier project (100%)
- The US Fish and Wildlife Service is providing technical oversight of the barrier

NEPA Requirements

- Environmental Assessment (EA)
 - NRCS and BOR NEPA requirements
 - Analysis looks at potential impacts to the natural and man-made environment



NEPA Requirements

- NEPA Process
 - Scoping
 - Express initial concerns and suggest alternatives to be considered
 - Draft EA
 - Public review of alternatives and environmental impacts
 - Final EA
 - Proposed alternative published to public
 - Finding of No Significant Impact (FONSI)
 - Project approval by NRCS and BOR

Typical Scoping Concerns

- Project Purpose and Need
- Design Alternatives
 - Including a No-Action Alternative
- Natural Environment
- Man-made Environment
- Mitigation



Scoping Comments

- Formal comments may be submitted by:
 - Email
 - Written Letter
 - Comment Card
 - Oral
- Scoping Report: Summarizes issues, alternatives and concerns from the public



Schedule

- NEPA Environmental Assessment
 - Start: September 2012
 - **Public Scoping Comment End: Nov. 30, 2012**
 - Draft EA Public Comment: March 2013
 - FONSI: Late Summer 2013
- Construction
 - Start: Late Fall 2013
 - End Early Spring 2014



NEPA Contact Information

- Please contact Greg Allington with McMillen project with questions and comments:



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Informal Questions

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