

NRCS Shem Dam Rehabilitation Environmental Assessment

Public Scoping Meeting
September 24, 2013



Project Team

Natural Resources Conservation Service
(NRCS)
Lead Funding Agency

Washington County
Project Sponsor

McMillen, LLC
NEPA Project Manager/Concept Design

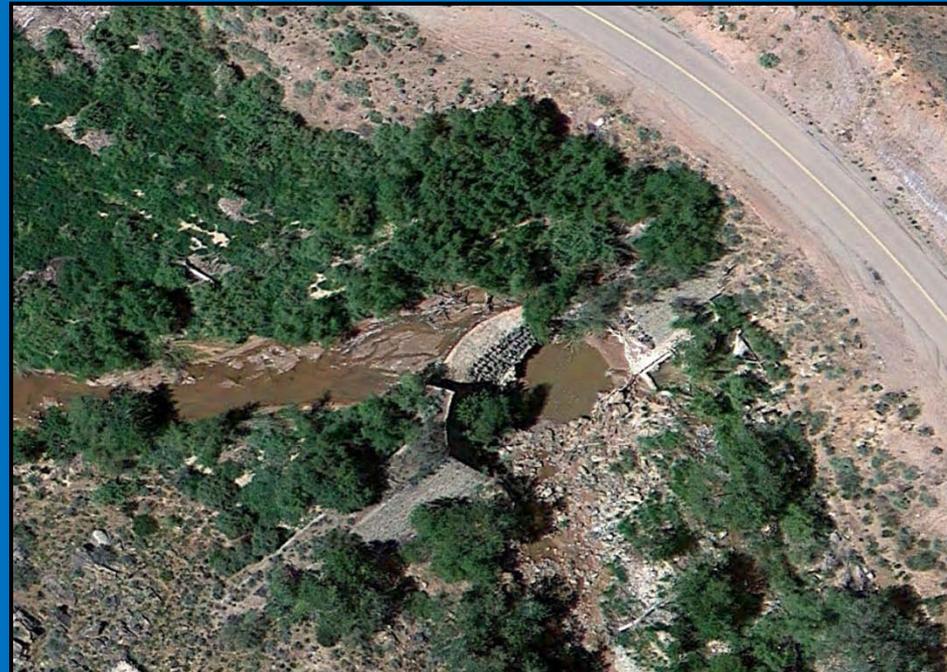
Project Review



Dan Axness – McMillen, LLC
– Concept Design Project Manager

Shem Dam History

- Original Diversion Constructed in 1909
- Designed for
 - Flood Retention
 - Sediment Retention
- Washed Out Spring of 1932 and was Reconstructed
- 1955 Flood Destroyed Downstream Side of Crest and Damaged East Abutment
- 1958 Dam Repaired
- 2011 Structure Damaged by Flood



Project Vicinity Map



Vicinity Map

Shem Dam



McMILLEN, LLC
DESIGN with Vision. BUILD with Integrity.

Legend

-  Dam Location
-  Highway



Project Purpose and Need

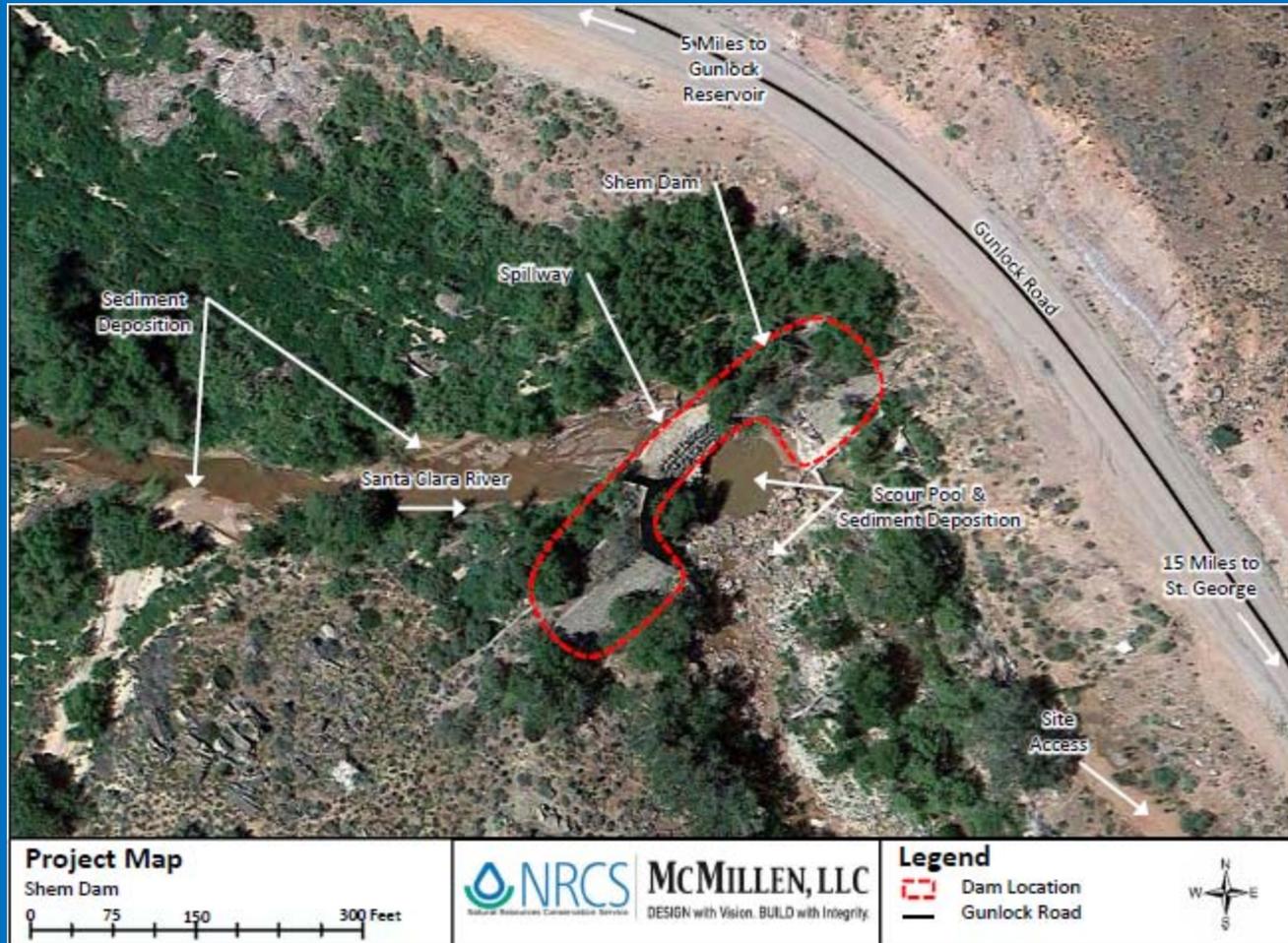
- Address Flood Damage and Dam Stability
- Meet Utah Dam Safety Regulations and Engineering Standards



Project Map

Project Concerns

- Dam Capacity
- Sediment Accumulation
- Flood Retention



Photos



Shem Dam AKA Winsor Dam



Downstream of Dam

Photos



Water Running Parallel to Structure



Water Eroding Below Dam Structure

Photos



Damage to Structure



Soil Eroded Behind Structure

Photos



Sediment Deposition Upstream of Dam



Sediment Laden Stream

Conceptual Project Alternatives

- No Action
- Dam Decommissioning
- Partial Dam Decommissioning
- Dam Rehabilitation
- Partial Dam Stabilization
- Sediment Removal
- Other Alternatives

Construction Operations

- Monday-Friday (Excluding Federal, State, and Local Holidays)
- Preliminary Construction Schedule
 - Start: Summer 2014
 - End: Fall 2014

National Environmental Policy Act



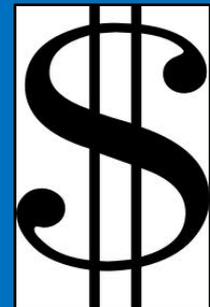
<http://www.nrcs.usda.gov/wps/portal/nrcs/main/ut/programs/planning/ewpp/>

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

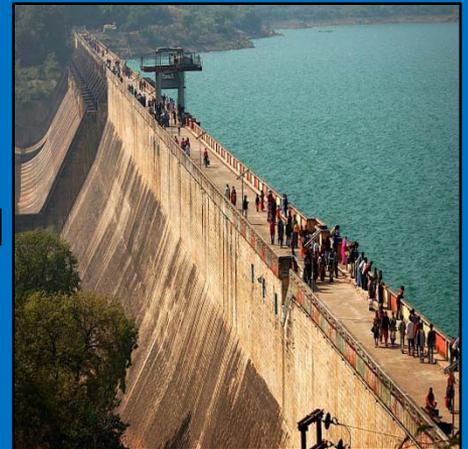
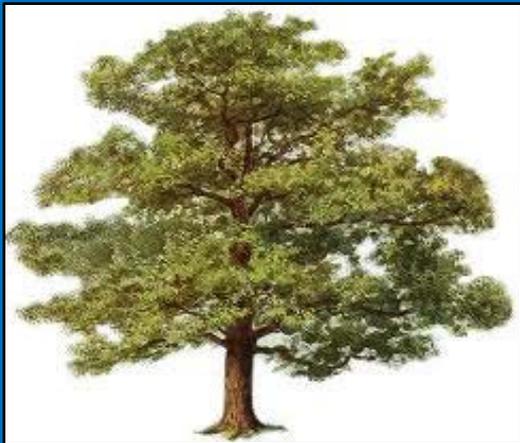
NRCS NEPA

- Environmental analysis required for major federal actions.
- The NRCS is the funding agency for the dam rehabilitation project (65%).
- The project sponsor provides the remaining 35% cost-share for the dam rehabilitation project.



NEPA Requirements

- Environmental Assessment (EA)
 - NRCS 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

Typical Scoping Concerns

- Project Purpose and Need
- Design Alternatives Include
 - A No-Action Alternative
 - Dam Decommissioning Alternative
 - Action Alternatives
- 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: August 2013
 - **Public Scoping Comment End: October 9, 2013**
 - Draft EA Public Comment: February 2014
 - FONSI: Spring 2014



NEPA Contact Information

- Please contact Dan Axness or Greg Allington with McMillen with questions and comments:



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Questions

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Shem Dam

