

Project Title: Operation and Maintenance of the Fish Screen and Maintenance of the Fish Passage Facility at the Redlands Water and Power Company Diversion Dam.

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Project Summary: The Redlands Water and Power Diversion, located on the Gunnison River near Grand Junction, Colorado, diverts water into the Redlands Power Canal. A fish passage structure was constructed around the diversion dam in 1996. A fish screen and fish return pipeline was constructed in the canal in 2004. The fish passage is operated by the U.S. Fish and Wildlife Service. Redlands operates and maintains the fish screen and performs maintenance on the fish passage.

Study Schedule: Redlands makes every effort to operate the fish screen whenever diverting water into the Power Canal. Maintenance on the fish passage is performed after the U.S. Fish and Wildlife Service complete annual operation.

Relationship to RIPRAP: Colorado River Action Plan: Mainstem II.B.3.

Accomplishment of FY 2013 Tasks and Deliverables, Discussion of Initial Findings and shortcomings:

The following major maintenance activities were completed on the fish passage:
Refer to US Fish and Wildlife Service – Dale Ryden
Redlands Water and Power Co. cooperated with FWS on maintenance

The following improvements were made to the fish passage:

Refer to US Fish and Wildlife Service – Dale Ryden

Redlands Water and Power Co. cooperated with FWS on maintenance

The fish screen was operated during the following periods:

Online	04/29/13	Put unit online
Bypassed	05/18/13	Bypassed due to debris in water coming down river from rain fall
Online	05/22/13	Water cleared and unit put back online
Bypassed	06/01/13	Bypassed due to debris in water
Online	06/03/13	Water cleared and unit put back online
Bypassed	07/11/13	Log caught in trash rake
Online	07/11/13	Log removed and unit put back online
Bypassed	08/01/13	Bypassed due to East brush arm failure. Unable to run with one arm. Parts ordered.
Online	08/15/13	Brush repaired and unit put back online
Bypassed	08/21/13	Bypassed due to water level sensor out of calibration

Online	08/22/13	Sensor recalibrated and unit put back online
Bypassed	11/03/13	Water removed from canal for plant and canal repairs
Online	11/14/13	Repairs completed and unit put back online.

The following improvements were made to the fish screen:

The following improvements were made to the fish ladder:

- Installed security fence and driveway gates
- Replaced the overhead hoist
- Purchased new trash boom

Recommendations:

Project Status: On schedule and on budget.

FY 2013 Budget Status:

Funds Provided: \$68,267.65

Funds Expended: \$48,803.28

Status of Data Submission (where applicable): Not applicable

Kevin E. Jones, Superintendent

November 21, 2013

REDLANDS WATER AND POWER COMPANY