

- I. Project Title: Grand Valley Irrigation Company Fish Screen and Passage
- II. Principal Investigator(s): Brent R. Uilenberg
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- III. Project Summary: The Grand Valley Irrigation Company Diversion Dam, located on the Colorado River near Palisade, CO, diverts water into the Grand Valley Canal. The dam was an impediment to upstream movement of native and non-native fish, and entrainment of native fish into the canal has been documented. The project consists of constructing a non-selective fish passage through the dam near the left abutment and fish screen in the canal approximately one quarter mile downstream from the dam.
- IV. Study Schedule: A fish passage was constructed through the diversion dam in 1997. The fish passage has been operated intermittently since 1997 but has not been operated continuously because of other upstream obstacles to fish migration (Price-Stubb and Grand Valley Project Diversion Dams) and an inability to easily open and close the fish passage which affects the ability of the Grand Valley Irrigation Company to divert their full water right. A fish screen and fish return pipeline was constructed in the canal in 2002. The fish screen has been operated intermittently since 2002 but has not been operated continuously because of an inability to effectively remove debris from the fish screen panels. The canal prism above the fish screen was modified in 2004 to create more uniform approach velocities across the screen panels; however, problems continued to be experienced with the air burst cleaning system.
- V. Relationship to RIPRAP: Colorado River Action Plan: Mainstem II.B.1. Restore passage at Grand Valley Irrigation Company Diversion Dam (Paalisade) and Colorado River Action Plan: Mainstem II.B.1.b. Screen Grand Valley Irrigation Company diversion to prevent endangered fish entrainment, if warranted
- VI. Accomplishment of FY 2006 Tasks and Deliverables, Discussion of Initial Findings and Shortcomings: An Obermeyer gate was installed in the Grand Valley Irrigation Company Fish Passage which provides the ability to open and close the fish passage remotely. This will allow the Grand Valley Irrigation Company to readily open and close the passage in response to changing river flows and maintain their ability to divert their full water right. Improvements to the Grand Valley Irrigation Company Fish Screen air burst cleaning system were postponed pending confirmation of the performance of the Redlands Water and Power Company Fish

Screen. The Redlands fish screen performed satisfactorily during the 2006 irrigation season, and the Grand Valley Irrigation Company Fish Screen will be retrofitted with a similar air burst cleaning system during the winter of 2006 and 2007.

- VII. Recommendations: Retrofit the Grand Valley Irrigation Company Fish Screen air burst cleaning system during the winter of 2006 and 2007. Provide assistance in troubleshooting problems and implementing corrective actions.
- VIII. Project Status: On track and ongoing with the limitation discussed above.
- IX. FY 2006 Budget Status
 - A. Funds Provided: \$20,000 (Capital)
 - B. Funds Expended: \$20,000 (Capital)
 - C. Difference: \$0
 - D. Percent of the FY 2006 work completed, and projected costs to complete: NA
 - E. Recovery Program funds spent for publication charges: None
- X. Status of Data Submission (Where applicable): NA
- XI. Signed: /s/ Brent R. Uilenberg October 31, 2006
Principal Investigator Date

APPENDIX: None