

**RECOVERY PROGRAM
FY 2018 – 2019 SCOPE OF WORK for:**

Recovery Program Project Number: 29C

Wahweap State Fish Hatchery Operation and Maintenance

Reclamation Agreement number: R14AP00007
Reclamation Agreement term: FY 2014 to FY 2018

Lead agency: Utah Division of Wildlife Resources

Submitted by: Zane C. Olsen
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Date Last Modified: April 19, 2017

Category:

- Ongoing project
- Ongoing-revised project
- Requested new project
- Unsolicited proposal

Expected Funding Source:

- Annual funds
- Capital funds
- Other *[explain]*

I. Title of Proposal: Wahweap State Fish Hatchery Operation and Maintenance

II. Relationship to RIPRAP:

General Recovery Program Support Action Plan

- IV. Manage genetic integrity and augment or restore populations
 - IV.A. Genetics Management
 - IV.A.4 Secure and manage genetic stocks in refugia
 - IV.A.4.a Razorback sucker
 - IV.A.4.b Middle Green River
 - IV.A.4.b Bonytail
 - IV.C. Operate and maintain facilities
 - IV.C.3 Wahweap State Fish Hatchery

Green and Colorado River Action Plans: Mainstem

- IV.A. Augment or restore populations as needed and as guided by the Genetics Management Plan.
 - IV.A.1. Develop augmentation plan for the four endangered fishes of the Green and Colorado River.
 - IV.A.1.c Implement Plan.

III. Background/Rationale and Hypotheses:

Wahweap State Fish Hatchery rears bonytail to recommended size in three growing seasons. Warm temperatures and longer growing season at Wahweap maximize growth and production of bonytail.

IV. Study Goals, objectives, and End Product:

Goal:

Contribute and assist with the recovery of the endangered fish species in the Upper Colorado River basin by rearing healthy fish for stocking in the basin.

Objectives:

Operate a hatchery facility that supports a genetically sound propagation program for high priority endangered fish species for the UCRRIP in the Upper Colorado River Basin in accordance with the Annual Propagation Facilities Operation Plan and state stocking plans by holding and rearing endangered fish.

End Products:

- 1) Propagation technology and methodology
- 2) Bonytail for research and stocking
- 3) Maintain backup razorback brood populations for the Upper Colorado River Basin

V. Study area:

Utah Wahweap State Hatchery, Big Water UT

VI. Study Methods and Approach:

Conduct all tasks associated with the operation and maintenance of propagation facilities for endangered fishes such as pond culture, marking fish, maintaining records of pedigreed family lots, etc. First priority for Wahweap is to raise bonytail for stocking to meet Utah's stocking plan. The second priority is to maintain razorback sucker backup brood stock for the Upper Colorado River basin.

VII. Task Description and Schedule:

Tasks:

1. Rear bonytail, PIT-tag, stock, and submit PIT-tag data.
2. Maintain backup razorback sucker brood stock.

VIII. Budget

FY 18 Program Budget

Labor/Personal:	
Project Biologist (\$39.82/h X 8h/d @ 186 d)	\$59,252.16
Biologist (\$30.30/h X 8h/d @ 189 d)	\$45,086.40
Wildlife Specialist (\$28.62/h X 8h/d @ 192 d)	\$43,960.32
Technician .50 (\$12.41/h X 8h/d @ 89 d)	\$8,835.92
Sub Total:	\$157,134.80
Operational Costs	
Utilities	\$17,324.00
Fish food	\$7,600.00
Fish Health Inspections (FES)	\$4,000.00
Maintenance	\$33,004.09
Sub Total:	\$61,928.09
Travel/Training	
Meetings for State of Utah	
17 days x \$38.00/day	\$646.00
9 nights x \$70/night	\$630.00
Stocking	
Per diem \$38/day in state/9 days	\$342.00
4 nights/ \$70	\$280.00
Colorado River Water Users Convention	
Per diem \$47/day out of state/4 d	\$188.00
Lodging \$165.00 per night/3 nights	\$492.00
Utah Water Users Meeting	
Per diem \$38/day instate/3 days	\$114.00
Lodging \$140.42/night/2 nights	\$280.84
Recovery Program Meetings	
Per diem 15 days @ \$38/day	\$570.00
12 nights x \$70/night	\$840.00
Sub Total:	\$4,382.84
Vehicle Expenses	
Vehicle Rental & Miles	
\$274/month (12 Months & 2 Trucks)	\$6,576.00
\$.35/mile x 30 miles/day x 522 days (Estimated # of days the drive is take)	\$5,481.00
Stocking Bonytail	
3 Trips / 648 miles @ \$.35/mile	\$680.40
2 Trips / 867 miles @ \$.35/mile	\$578.90
Colorado River Water Users Meeting	
739 Miles/\$.35	\$258.65
6 BC/ Recovery Meetings & State Meetings	
1 BC Meeting/\$.35/850 miles	\$297.50

3 State Meetings/.35 X 739 miles	\$775.95
Sub Total:	\$14,648.40
TOTAL:	\$238,094.13

Budget* FY-2018

Labor/Personal	\$157,134.80
Operational costs	\$61,928.09
Travel/training	\$4,382.84
Vehicle	\$14,648.40
	\$238,094.13

FY 19 Program Budget

Labor/Personal:	
Project Biologist (\$40.61/h X 8h/d @ 186 d)	\$60,437.20
Biologist (\$30.91/h X 8h/d @ 189 d)	\$45,086.40
Wildlife Specialist (\$29.19/h X 8h/d @ 192 d)	\$44,839.53
Technician .50 (\$12.66/h X 8h/d @ 89 d)	\$9,012.64
Sub Total:	\$159,375.77
Operational Costs	
Utilities	\$17,670.48
Fish food	\$7,752.00
Fish Health Inspections (FES)	\$5362.35
Maintenance	\$33,664.17
Sub Total:	\$64,449.00
Travel/Training	
Meetings for State of Utah	
17 days x \$38.00/day	\$646.00
9 nights x \$70/night	\$630.00
Stocking	
Per diem \$38/day in state/9 days	\$342.00
4 nights/ \$70	\$280.00
Colorado River Water Users Convention	
Per diem \$47/day out of state/4 d	\$188.00
Lodging \$165.00 per night/3 nights	\$492.00
Utah Water Users Meeting	
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3 State Meetings/.35 X 739 miles	\$775.95

Sub Total:	\$14,648.40
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TOTAL:	\$238,094.13
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Budget* FY-2019

Labor/Personal	\$159,375.77
Operational costs	\$64,449.00
Travel/training	\$4,382.84
Vehicle	\$14,648.40
	\$242,856.01

IX. Budget Summary, 5 year projection

FY 2018	\$ 238,094.13
FY 2019	\$ 242,856.01
FY 2020	\$ 247,713.13
FY 2021	\$ 252,667.26
FY 2022	\$ 257,720.61

<u>FY18-22 Total</u>	<u>\$ 1,239,051.14</u>
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