

UPPER COLORADO RIVER ENDANGERED FISH RECOVERY PROGRAM

FY 2022-23 SCOPE OF WORK

PROJECT: 158

Project Title

Assessment of larval Colorado pikeminnow presence and broodstock collection in low-velocity habitats in the middle Green River

Bureau of Reclamation Agreement Number:

R19AP00059 (UDWR)

R20PG00024 (USFWS)

Reclamation Agreement Term

October 1, 2018 – September 30, 2023

Note: Recovery Program FY22-23 scopes of work are drafted in May 2021. They often are revised before final Program approval and may subsequently be revised again in response to changing Program needs. Program participants also recognize the need and allow for some flexibility in scopes of work to accommodate new information (especially in nonnative fish management projects) and changing hydrological conditions.

Lead Agency:

Utah Division of Wildlife Resources

Principal Investigator:

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Category:

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

Expected Funding Source:

- Annual funds
- Capital funds
- Other [explain]

UPPER COLORADO RIVER ENDANGERED FISH RECOVERY PROGRAM

Relationship to RIPRAP:

GENERAL RECOVERY PROGRAM SUPPORT ACTION PLAN

- IV. Conserve genetic integrity and augment or restore populations.
- IV.A.4.d.(1) Upper Colorado River Basin
- V.B. Conduct research to acquire needed life history information.
- V.B.2. Conduct appropriate studies to provide needed life history information.

GREEN RIVER ACTION PLAN: MAINSTEM

- I.D.2.c Develop base flow and flow spike study plan
- I.D.2.c.(2) Implement plan
- V.C.3 Monitor age-0 Colorado pikeminnow in backwaters.

Study Background/Rationale and Hypotheses:

Fall Interagency Standardized Monitoring Program (ISMP) sampling of age-0 Colorado pikeminnow (CPM) has been conducted annually since the mid-1980s to assess the abundance and distribution of young fish (USFWS 1987). Since 1994, these surveys have shown a reduction in the abundance of age-0 CPM in the alluvial section of the Green River between Split Mountain and Desolation Canyon (Breen et al. 2011). Other studies monitoring the upstream abundance of larval CPM drifting from the Yampa Canyon spawning site during the same time suggest that larval fish production has not decreased from previous levels when age-0 CPM were more abundant in this reach (Bestgen et al. 1998, 2006; Bestgen and Hill 2016). Several possibilities exist for why age-0 CPM are not captured as frequently as they once were, including an increase in nonnative predatory fishes, nonnative competitors, and habitat alterations (e.g., Breen and Jones 2019). Other researchers have investigated environmental conditions such as changes in habitat related to flow and temperature. For example, analysis of available data obtained from 1979–2012 demonstrates that larger Colorado pikeminnow year-class production occurs in the middle Green River when mean August–September base flow levels were 1,700–3,800 cfs (Bestgen and Hill 2016). Prior to 2019, this study sought to monitor the arrival of larval CPM in middle Green River backwaters and investigate how nonnative fishes influence age-0 CPM as they arrive and grow in backwater habitats. Although continuing this work will build a more robust dataset, allowing for comparisons across years with different hydrologic regimes, the focus of this project will shift for the near future for reasons discussed below.

The declining size of the Green River CPM sub-population in recent years as estimated by Project #128 (Bestgen et al. 2018a; Bestgen et al. 2018b) prompted the Recovery Program to reorient the scope of this project in 2019. As a result, the Utah Division of Wildlife Resources Vernal (UDWR-Vernal) will no longer deplete backwaters of nonnative fish in preparation for backwater blocking treatments or conduct fyke netting in backwaters to determine predation effects (previously tasks 2 and 5). Instead, UDWR-Vernal will focus all efforts on age-0 CPM monitoring in the middle Green River from Split Mountain to the Duchesne River confluence throughout the summer base flow period. This work will contribute to a monitoring plan developed to assess base flow recommendations for Colorado pikeminnow (Bestgen et al. 2020). Additionally, the Green River Basin Fish and Wildlife Conservation Office (GRBFWCO) will no longer monitor larval CPM drift at Split Mountain and presence in the middle Green River (previously task 1), but instead will focus all efforts on collecting age-0 CPM to be held as broodstock at Southwestern Native Aquatic Resources & Recovery Center (SNARRC) and potentially Ouray National Fish Hatchery (ONFH). These fish will enhance diversity of the upper Colorado River basin CPM broodstock and produce offspring that will augment the Green River CPM population in the future.

UPPER COLORADO RIVER ENDANGERED FISH RECOVERY PROGRAM

Study Goals, Objectives, End Product(s):

Goal: Monitor age-0 Colorado pikeminnow in the middle Green River to determine their presence, location, and status during the summer (UDWR) and collect age-0 CPM in early fall (GRBFWCO) that will become broodstock intended to bolster the Green River CPM sub-population in the future.

Objectives:

1. Document densities of age-0 CPM in backwaters as the season progresses and (2) collect sufficient numbers of age-0 CPM from backwaters during the fall to enhance the middle Green River CPM broodstock.

End products:

1. Documentation of relative abundance of age-0 CPM in the middle Green River throughout the summer base flow period in relation to experimental Flaming Gorge Dam releases and
2. young-of-year CPM collected in the middle Green River will bolster the upper Colorado River basin CPM broodstock.

Study Area:

The study area encompasses the middle Green River from Split Mountain boat ramp (river mile [RM] 319.5) to Sand Wash (RM 215.5).

Study Methods/Approach:

To document age-0 recruitment success in relation to experimental Flaming Gorge Dam releases (Bestgen et al. 2020), UDWR-Vernal will seine backwater habitats in the middle Green River on a temporal basis throughout the summer base flow period. Larval drift sampling conducted for Project #22f will guide the timing of this project. More specifically, seining in the middle Green River will begin approximately six weeks after larval CPM detection on the lower Yampa River at the Echo Park site (e.g., Bestgen and Jones 2018). Once that date is confirmed, UDWR-Vernal crews will evenly stagger two seining passes covering the entire study reach to be completed before fall ISMP sampling is conducted for Project #138. UDWR-Vernal crews will seine backwaters and collect habitat information following the ISMP sampling protocol (USFWS 1987). However, flexibility in seine dimensions and seining locations within backwaters will be exercised using our best judgement to maximize CPM captures. Given the timing of this sampling (i.e., desiccation of specimens occurs rapidly during hot mid-summer months) and the smaller size of young-of-year fish collected earlier in the year (i.e., more time consuming to identify than larger individuals collected in the fall), the majority of samples will be preserved in 100% ethanol for later identification by Colorado State University's Larval Fish Laboratory. Samples with manageable numbers of fish will be fully processed in the field.

Depending upon weather and hydrology, age-0 CPM will be collected by seining backwaters in the middle Green River and transferred to SNARRC or ONFH between mid-September and mid-October. GRBFWCO crews will attempt to increase efficiency by communicating with UDWR-Vernal and conducting occasional early fall sampling to determine reaches with previously observed higher CPM densities. All efforts will be made to increase survival of the CPM intended for broodstock in the field such as minimizing handling and transport time.

UPPER COLORADO RIVER ENDANGERED FISH RECOVERY PROGRAM

Task Description, Deliverables and Schedule :

- Task 1.* Determine age-0 Colorado pikeminnow presence, densities, and overall fish community composition in backwaters throughout the summer base flow period.
- Task 2.* Collect age-0 Colorado pikeminnow from backwaters in early fall and transfer them to SNARRC where they will be used for broodstock.
- Task 3.* Data analysis and reporting.

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
1							X	X	X			
2									X	X		
3											X	X

Budget Summary:

FY Year	UDWR-Vernal	GRBFWCO
2022	\$66,364	\$42,097
2023	\$66,364	\$42,085
2024	\$67,691	\$45,730
2025	\$69,045	\$50,905
2026	\$70,426	\$54,403
Total	\$339,890	\$235,220

Reviewers:

References:

Bestgen, K.R., R.T. Muth, and M.A. Trammell. 1998. Downstream transport of Colorado squawfish larvae in the Green River drainage: temporal and spatial variation in abundance and relationships with juvenile recruitment. Colorado State University Larval Fish Laboratory, Final Report to the Recovery Implementation Program for Endangered Fishes in the Upper Colorado River Basin, U.S. Fish and Wildlife Service, Denver, Colorado.

Bestgen, K.R., D.W. Beyers, J.A. Rice, and G.B. Haines. 2006. Factors affecting recruitment of young Colorado pikeminnow: synthesis of predation experiments, field studies, and individual-based modeling. Transactions of the American Fisheries Society 135:1722- 1742.

Bestgen, K.R. and A.A. Hill. 2016. Reproduction, abundance, and recruitment dynamics of young Colorado pikeminnow in the Green and Yampa rivers, Utah and Colorado, 1979- 2012. Final report to the Upper Colorado River Endangered Fish Recovery Program, Project FW 51 BW-Synth, Denver, Colorado. Department of Fish, Wildlife, and Conservation Biology, Colorado State University, Fort Collins. Larval Fish Laboratory Contribution 183.

Bestgen, K.R. and T. Jones. 2018. Interagency standardized monitoring program (ISMP) assessment of endangered fish reproduction in relation to Flaming Gorge operations in the middle Green and lower Yampa rivers. Project #22f annual report to the Upper Colorado River Endangered Fish Recovery Program. Denver, CO.

Bestgen, K.R., C.D. Walford, G.C. White, J.A. Hawkins, M.T. Jones, P.A. Webber, M. Breen, J.A.

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Skorupski Jr., J. Howard, K. Creighton, J. Logan, K. Battige, and F.B. Wright. 2018a. Population Status and Trends of Colorado Pikeminnow in the Green River Sub-Basin, Utah and Colorado, 2000-2013. Final Report to the Colorado River Recovery Implementation Program, Project Number 128, Denver, Colorado. Larval Fish Laboratory Contribution 183.

Bestgen, K.R., J.A. Hawkins, G.C. White, C.D. Walford, M. Breen, M.T. Jones, K. Creighton. 2018b. Abundance Estimates for Colorado pikeminnow in the Green River Basin, Utah and Colorado. Project #128 annual report to the Upper Colorado River Endangered Fish Recovery Program, Denver, Colorado.

Bestgen, K.R., T.E. Chart, D.M. Anderson, and M.T. Jones. 2020. Evaluate effects of summer flow management on survival of age-0 Colorado pikeminnow in the middle Green River, Utah. Final report to the Upper Colorado River Endangered Fish Recovery Program. Denver, Colorado. Department of Fish, Wildlife, and Conservation Biology, Colorado State University, Fort Collins. Larval Fish Laboratory Contribution 216.

Breen, M.J., M. Swasey, P. Badame, and K. Creighton. 2011. Upper Colorado River basin young of year Colorado pikeminnow (*Ptychocheilus lucius*) monitoring: summary report 1986-2009. Final report of Utah Division of Wildlife Resources to Upper Colorado River Endangered Fish Recovery Program, Denver Colorado.

Breen, M.J. and M.T. Jones. 2019. Assessment of larval Colorado pikeminnow presence and survival in low velocity habitats in the middle Green River: 2009–2012. Project #158 Final Report of Utah Division of Wildlife Resources to the Upper Colorado River Endangered Fish Recovery Program, Denver, Colorado.

USFWS. 1987. Interagency standardized monitoring protocol handbook. U.S. Fish and Wildlife Service. Grand Junction, Colorado.

SUMMARY OF PROPOSED COSTS

Name of Servicing Agency:	US Fish & Wildlife Service Green River Basin FWCO
Project Name:	158- Assessment of larval Colorado pikeminnow presence and broodstock collection in low-velocity habitats in the middle Green River

	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL	
	10/1/2021		10/1/2022		10/1/2023		10/1/2024		10/1/2025			
	Through		Through		Through		Through		Through			
Enter the BEGINNING dates for each year ----->		9/30/2022		9/30/2023		9/30/2024		9/30/2025		9/30/2026		
Enter the ENDING dates for each year ----->												
DIRECT LABOR AND FRINGE BENEFIT COSTS:												
Direct Labor - Hourly	\$	27,131.35	\$	27,181.65	\$	29,518.82	\$	33,022.20	\$	35,206.60	\$	152,060.61
Fringe Benefits - Hourly	\$	9,499.60	\$	9,437.62	\$	10,554.49	\$	11,988.44	\$	13,112.38	\$	54,592.53
Subtotal of Direct Labor & Fringe Benefits:	\$	36,630.95	\$	36,619.27	\$	40,073.31	\$	45,010.64	\$	48,318.98	\$	206,653.14
OTHER DIRECT COSTS:												
Materials and Supplies	\$	4,240.32	\$	4,240.32	\$	4,325.12	\$	4,411.61	\$	4,499.86	\$	21,717.23
Travel Costs	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Equipment	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Contractors	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Subtotal of Other Direct Costs:	\$	4,240.32	\$	4,240.32	\$	4,325.12	\$	4,411.61	\$	4,499.86	\$	21,717.23
INDIRECT/OVERHEAD COSTS:												
Subtotal of Labor and Other Direct Costs:	\$	40,871.27	\$	40,859.59	\$	44,398.43	\$	49,422.25	\$	52,818.84		
Total dollars exempt from indirect/overhead base:	\$	-	\$	-	\$	-	\$	-	\$	-		
<Enter Description of Indirect/OH Cost #1>	3.00%	\$ 1,225.42	3.00%	\$ 1,225.07	3.00%	\$ 1,331.95	3.00%	\$ 1,482.67	3.00%	\$ 1,584.57	\$	6,849.67
Total dollars exempt from indirect/overhead base:	\$	-	\$	-	\$	-	\$	-	\$	-		
<Enter Description of Indirect/OH Cost #2>	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	\$	-
Subtotal of Indirect/Overhead Costs:	\$	1,225.42	\$	1,225.07	\$	1,331.95	\$	1,482.67	\$	1,584.57	\$	6,849.67
GRAND TOTAL:	\$	42,096.69	\$	42,084.66	\$	45,730.38	\$	50,904.92	\$	54,403.40	\$	235,220.04

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

Enter Escalation Rates ----->	Yr 2 Escalation Rate	0.00%
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Task # or Description	Position Title	GS/WG Grade	GS/WG Step	OPM Pay Location	Current Hourly Rate	YEAR 1					YEAR 2					
						10/1/2021		Through	9/30/2022		10/1/2022		Through	9/30/2023		
						# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	
1	2	Fish Biologist	GS 12	2	Rest of US	\$ 38.37	82.0	\$ 38.37	\$ 3,146.34	37.00%	\$ 1,164.15	82.0	\$ 39.60	\$ 3,247.20	37.00%	\$ 1,201.46
2	2	Fish Biologist	GS 11	1	Rest of US	\$ 30.98	110.0	\$ 30.98	\$ 3,407.80	30.00%	\$ 1,022.34	110.0	\$ 32.01	\$ 3,521.10	30.00%	\$ 1,056.33
3	2	Fisheries Technician	GS 8	10	Rest of US	\$ 30.14	127.0	\$ 30.14	\$ 3,827.78	52.00%	\$ 1,990.45	114.0	\$ 30.14	\$ 3,435.96	52.00%	\$ 1,786.70
4	2	Biological Science Technic	GS 6	3	Rest of US	\$ 20.09	181.0	\$ 20.09	\$ 3,636.29	29.00%	\$ 1,054.52	181.0	\$ 20.09	\$ 3,636.29	29.00%	\$ 1,054.52
5	2	Biological Science Technic	GS 6	1	Rest of US	\$ 18.84	181.0	\$ 18.84	\$ 3,410.04	29.00%	\$ 988.91	181.0	\$ 18.84	\$ 3,410.04	29.00%	\$ 988.91
6	2	Small Craft Operator	WG 5	2	Rest of US	\$ 19.11	181.0	\$ 19.11	\$ 3,458.91	29.00%	\$ 1,003.08	181.0	\$ 19.87	\$ 3,596.47	29.00%	\$ 1,042.98
7	3	Fish Biologist	GS 12	2	Rest of US	\$ 38.37	40.0	\$ 38.37	\$ 1,534.80	37.00%	\$ 567.88	40.0	\$ 39.60	\$ 1,584.00	37.00%	\$ 586.08
8	3	Fish Biologist	GS 11	1	Rest of US	\$ 30.98	40.0	\$ 30.98	\$ 1,239.20	30.00%	\$ 371.76	40.0	\$ 32.01	\$ 1,280.40	30.00%	\$ 384.12
9	3	Administrative Officer	GS 9	9	Rest of US	\$ 32.43	53.0	\$ 32.43	\$ 1,718.79	37.00%	\$ 635.95	53.0	\$ 32.43	\$ 1,718.79	37.00%	\$ 635.95
10	3	Project Leader	GS 13	5	Rest of US	\$ 50.04	35.0	\$ 50.04	\$ 1,751.40	40.00%	\$ 700.56	35.0	\$ 50.04	\$ 1,751.40	40.00%	\$ 700.56
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						1,030.00		\$ 27,131.35			\$ 9,499.60	1,017.00		\$ 27,181.65		\$ 9,437.62

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

Yr 3 Escalation Rate 2.00%

Yr 4 Escalation Rate 2.00%

						YEAR 3					YEAR 4					
						10/1/2023		Through	9/30/2024		10/1/2024		Through	9/30/2025		
Task # or Description	Position Title	GS/WG Grade	GS/WG Step	OPM Pay Location	Current Hourly Rate	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	
1	2	Fish Biologist	GS 12	2	Rest of US	\$ 38.37	82.0	\$ 40.84	\$ 3,348.88	37.00%	\$ 1,239.09	118.0	\$ 41.66	\$ 4,915.50	37.00%	\$ 1,818.74
2	2	Fish Biologist	GS 11	1	Rest of US	\$ 30.98	110.0	\$ 33.04	\$ 3,634.40	30.00%	\$ 1,090.32	99.0	\$ 33.70	\$ 3,336.38	30.00%	\$ 1,000.91
3	2	Fisheries Technician	GS 8	10	Rest of US	\$ 30.14	171.0	\$ 30.74	\$ 5,257.02	52.00%	\$ 2,733.65	193.0	\$ 31.36	\$ 6,052.03	52.00%	\$ 3,147.05
4	2	Biological Science Technic	GS 6	3	Rest of US	\$ 20.09	181.0	\$ 20.49	\$ 3,709.02	29.00%	\$ 1,075.61	181.0	\$ 20.90	\$ 3,783.20	29.00%	\$ 1,097.13
5	2	Biological Science Technic	GS 6	1	Rest of US	\$ 18.84	181.0	\$ 19.22	\$ 3,478.24	29.00%	\$ 1,008.69	181.0	\$ 19.60	\$ 3,547.81	29.00%	\$ 1,028.86
6	2	Small Craft Operator	WG 5	2	Rest of US	\$ 19.11	181.0	\$ 19.87	\$ 3,596.47	29.00%	\$ 1,042.98	181.0	\$ 20.27	\$ 3,668.40	29.00%	\$ 1,063.84
7	3	Fish Biologist	GS 12	2	Rest of US	\$ 38.37	40.0	\$ 40.84	\$ 1,633.60	37.00%	\$ 604.43	40.0	\$ 41.66	\$ 1,666.27	37.00%	\$ 616.52
8	3	Fish Biologist	GS 11	1	Rest of US	\$ 30.98	40.0	\$ 33.04	\$ 1,321.60	30.00%	\$ 396.48	40.0	\$ 33.70	\$ 1,348.03	30.00%	\$ 404.41
9	3	Administrative Officer	GS 9	9	Rest of US	\$ 32.43	53.0	\$ 33.08	\$ 1,753.17	37.00%	\$ 648.67	70.0	\$ 33.74	\$ 2,361.81	37.00%	\$ 873.87
10	3	Project Leader	GS 13	5	Rest of US	\$ 50.04	35.0	\$ 51.04	\$ 1,786.43	40.00%	\$ 714.57	45.0	\$ 52.06	\$ 2,342.77	40.00%	\$ 937.11
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						1,074.00		\$ 29,518.82		\$ 10,554.49	1,148.00		\$ 33,022.20		\$ 11,988.44	

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

Yr 5 Escalation Rate	2.00%
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							YEAR 5							
							10/1/2025		Through	9/30/2026				
Task # or Description	Position Title	GS/WG Grade	GS/WG Step	OPM Pay Location	Current Hourly Rate	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	Total Salary Cost	Total Fringe Cost	Total Labor Cost	
1	2	Fish Biologist	GS 12	2	Rest of US	\$ 38.37	120.0	\$ 42.49	\$ 5,098.79	37.00%	\$ 1,886.55	\$ 19,756.71	\$ 7,309.98	\$ 27,066.70
2	2	Fish Biologist	GS 11	1	Rest of US	\$ 30.98	120.0	\$ 34.37	\$ 4,124.98	30.00%	\$ 1,237.49	\$ 18,024.66	\$ 5,407.40	\$ 23,432.05
3	2	Fisheries Technician	GS 8	10	Rest of US	\$ 30.14	196.0	\$ 31.98	\$ 6,269.02	52.00%	\$ 3,259.89	\$ 24,841.81	\$ 12,917.74	\$ 37,759.55
4	2	Biological Science Technic	GS 6	3	Rest of US	\$ 20.09	80.0	\$ 21.32	\$ 1,705.57	29.00%	\$ 494.62	\$ 16,470.37	\$ 4,776.41	\$ 21,246.77
5	2	Biological Science Technic	GS 6	1	Rest of US	\$ 18.84	240.0	\$ 19.99	\$ 4,798.36	29.00%	\$ 1,391.52	\$ 18,644.48	\$ 5,406.90	\$ 24,051.39
6	2	Small Craft Operator	WG 5	2	Rest of US	\$ 19.11	80.0	\$ 20.67	\$ 1,653.82	29.00%	\$ 479.61	\$ 15,974.07	\$ 4,632.48	\$ 20,606.55
7	3	Fish Biologist	GS 12	2	Rest of US	\$ 38.37	40.0	\$ 42.49	\$ 1,699.60	37.00%	\$ 628.85	\$ 8,118.27	\$ 3,003.76	\$ 11,122.03
8	3	Fish Biologist	GS 11	1	Rest of US	\$ 30.98	40.0	\$ 34.37	\$ 1,374.99	30.00%	\$ 412.50	\$ 6,564.22	\$ 1,969.27	\$ 8,533.49
9	3	Administrative Officer	GS 9	9	Rest of US	\$ 32.43	69.0	\$ 34.41	\$ 2,374.63	37.00%	\$ 878.61	\$ 9,927.19	\$ 3,673.06	\$ 13,600.25
10	3	Project Leader	GS 13	5	Rest of US	\$ 50.04	115.0	\$ 53.10	\$ 6,106.83	40.00%	\$ 2,442.73	\$ 13,738.83	\$ 5,495.53	\$ 19,234.36
11					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
12					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
13					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
14					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
15					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
16					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
17					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
18					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
19					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
20					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
21					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
22					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
23					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
24					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
25					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
26					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
27					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
28					\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -
							1,100.00		\$ 35,206.60		\$ 13,112.38	\$ 152,060.61	\$ 54,592.53	\$ 206,653.14

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS, SUPPLIES, AND SERVICES

Yr 2 Escalation Rate 0.00%

	Task # or Description	Item Description	Rationale for Proposed Cost	Year 1			Year 2		
				Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal
1	2	GSA Lease of Equip Code 6351 (monthly lease)	http://www.gsa.gov/portal/category/21852	\$ 224.00	1	\$ 224.00	\$ 224.00	1	\$ 224.00
2	2	GSA Lease of Equip Code 6351 (mileage rate)	http://www.gsa.gov/portal/category/21852	\$ 0.31	1300	\$ 403.00	\$ 0.31	1300	\$ 403.00
3	2	GSA Lease of Equip Code 6352 (monthly lease)	http://www.gsa.gov/portal/category/21852	\$ 233.00	1	\$ 233.00	\$ 233.00	1	\$ 233.00
4	2	GSA Lease of Equip Code 6352 (mileage rate)	http://www.gsa.gov/portal/category/21852	\$ 0.33	1600	\$ 528.00	\$ 0.33	1600	\$ 528.00
5	2	Sampling gear	Based on previous expenses and SOW's	\$ 946.16	1	\$ 946.16	\$ 946.16	1	\$ 946.16
6	2	Boating gear	Based on previous expenses and SOW's	\$ 946.16	1	\$ 946.16	\$ 946.16	1	\$ 946.16
7	2	Boat fuel (gal)	Based on previous expenses and SOW's	\$ 4.00	240	\$ 960.00	\$ 4.00	240	\$ 960.00
8				\$ -	0	\$ -	\$ -	0	\$ -
9				\$ -	0	\$ -	\$ -	1	\$ -
10				\$ -	0	\$ -	\$ -	0	\$ -
11				\$ -	0	\$ -	\$ -	0	\$ -
12				\$ -	0	\$ -	\$ -	0	\$ -
13				\$ -	0	\$ -	\$ -	0	\$ -
14				\$ -	0	\$ -	\$ -	0	\$ -
15				\$ -	0	\$ -	\$ -	0	\$ -
16				\$ -	0	\$ -	\$ -	0	\$ -
17				\$ -	0	\$ -	\$ -	0	\$ -
18				\$ -	0	\$ -	\$ -	0	\$ -
19				\$ -	0	\$ -	\$ -	0	\$ -
20				\$ -	0	\$ -	\$ -	0	\$ -
21				\$ -	0	\$ -	\$ -	0	\$ -
22				\$ -	0	\$ -	\$ -	0	\$ -
23				\$ -	0	\$ -	\$ -	0	\$ -
24				\$ -	0	\$ -	\$ -	0	\$ -
25				\$ -	0	\$ -	\$ -	0	\$ -
26				\$ -	0	\$ -	\$ -	0	\$ -
27				\$ -	0	\$ -	\$ -	0	\$ -
28				\$ -	0	\$ -	\$ -	0	\$ -
29				\$ -	0	\$ -	\$ -	0	\$ -
30				\$ -	0	\$ -	\$ -	0	\$ -
TOTAL:						\$ 4,240.32			\$ 4,240.32

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS, SUPPLIES, SERVICES	Yr 3 Escalation Rate	2.00%	Yr 4 Escalation Rate	2.00%
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	Task # or Description	Item Description	Year 3			Year 4			
			Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal	
1	2	GSA Lease of Equip Code 6351 (monthly lease)	\$ 228.48	1	\$ 228.48	\$ 233.05	1	\$ 233.05	
2	2	GSA Lease of Equip Code 6351 (mileage rate)	\$ 0.32	1300	\$ 411.06	\$ 0.32	1300	\$ 419.28	
3	2	GSA Lease of Equip Code 6352 (monthly lease)	\$ 237.66	1	\$ 237.66	\$ 242.41	1	\$ 242.41	
4	2	GSA Lease of Equip Code 6352 (mileage rate)	\$ 0.34	1600	\$ 538.56	\$ 0.34	1600	\$ 549.33	
5	2	Sampling gear	\$ 965.08	1	\$ 965.08	\$ 984.38	1	\$ 984.38	
6	2	Boating gear	\$ 965.08	1	\$ 965.08	\$ 984.38	1	\$ 984.38	
7	2	Boat fuel (gal)	\$ 4.08	240	\$ 979.20	\$ 4.16	240	\$ 998.78	
8			\$ -	0	\$ -	\$ -	0	\$ -	
9			\$ -	0	\$ -	\$ -	0	\$ -	
10			\$ -	0	\$ -	\$ -	0	\$ -	
11			\$ -	0	\$ -	\$ -	0	\$ -	
12			\$ -	0	\$ -	\$ -	0	\$ -	
13			\$ -	0	\$ -	\$ -	0	\$ -	
14			\$ -	0	\$ -	\$ -	0	\$ -	
15			\$ -	0	\$ -	\$ -	0	\$ -	
16			\$ -	0	\$ -	\$ -	0	\$ -	
17			\$ -	0	\$ -	\$ -	0	\$ -	
18			\$ -	0	\$ -	\$ -	0	\$ -	
19			\$ -	0	\$ -	\$ -	0	\$ -	
20			\$ -	0	\$ -	\$ -	0	\$ -	
21			\$ -	0	\$ -	\$ -	0	\$ -	
22			\$ -	0	\$ -	\$ -	0	\$ -	
23			\$ -	0	\$ -	\$ -	0	\$ -	
24			\$ -	0	\$ -	\$ -	0	\$ -	
25			\$ -	0	\$ -	\$ -	0	\$ -	
26			\$ -	0	\$ -	\$ -	0	\$ -	
27			\$ -	0	\$ -	\$ -	0	\$ -	
28			\$ -	0	\$ -	\$ -	0	\$ -	
29			\$ -	0	\$ -	\$ -	0	\$ -	
30			\$ -	0	\$ -	\$ -	0	\$ -	
					\$ 4,325.12				\$ 4,411.61

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS, SUPPLIES, SERVICES	Yr 5 Escalation Rate	2.00%
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			Year 5			
	Task # or Description	Item Description	Unit Price	Unit Quantity	Subtotal	TOTAL
1	2	GSA Lease of Equip Code 6351 (monthly lease)	\$ 237.71	1	\$ 237.71	\$ 1,147.24
2	2	GSA Lease of Equip Code 6351 (mileage rate)	\$ 0.33	1300	\$ 427.67	\$ 2,064.01
3	2	GSA Lease of Equip Code 6352 (monthly lease)	\$ 247.26	1	\$ 247.26	\$ 1,193.33
4	2	GSA Lease of Equip Code 6352 (mileage rate)	\$ 0.35	1600	\$ 560.32	\$ 2,704.21
5	2	Sampling gear	\$ 1,004.07	1	\$ 1,004.07	\$ 4,845.85
6	2	Boating gear	\$ 1,004.07	1	\$ 1,004.07	\$ 4,845.85
7	2	Boat fuel (gal)	\$ 4.24	240	\$ 1,018.76	\$ 4,916.74
8			\$ -	0	\$ -	\$ -
9			\$ -	0	\$ -	\$ -
10			\$ -	0	\$ -	\$ -
11			\$ -	0	\$ -	\$ -
12			\$ -	0	\$ -	\$ -
13			\$ -	0	\$ -	\$ -
14			\$ -	0	\$ -	\$ -
15			\$ -	0	\$ -	\$ -
16			\$ -	0	\$ -	\$ -
17			\$ -	0	\$ -	\$ -
18			\$ -	0	\$ -	\$ -
19			\$ -	0	\$ -	\$ -
20			\$ -	0	\$ -	\$ -
21			\$ -	0	\$ -	\$ -
22			\$ -	0	\$ -	\$ -
23			\$ -	0	\$ -	\$ -
24			\$ -	0	\$ -	\$ -
25			\$ -	0	\$ -	\$ -
26			\$ -	0	\$ -	\$ -
27			\$ -	0	\$ -	\$ -
28			\$ -	0	\$ -	\$ -
29			\$ -	0	\$ -	\$ -
30			\$ -	0	\$ -	\$ -
					\$ 4,499.86	\$ 21,717.23

SUMMARY OF PROPOSED COSTS

Name of Servicing Agency:	Utah Division of Wildlife Resources
Project Name:	Projecct 158: Assessment of larval Colorado pikeminnow presence in low-velocity habitats in the middle Green River (Vernal Field Office)

	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL	
	10/1/2021		10/1/2022		10/2/2023		10/1/2024		10/1/2025			
	Through		Through		Through		Through		Through			
Enter the BEGINNING dates for each year ----->	9/30/2022		10/1/2023		9/30/2024		9/30/2025		9/30/2026			
Enter the ENDING dates for each year ----->	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL	
DIRECT LABOR AND FRINGE BENEFIT COSTS:												
Direct Labor - Hourly	\$	39,849.52	\$	39,849.52	\$	40,646.51	\$	41,459.44	\$	42,288.63	\$	204,093.64
Fringe Benefits - Hourly	\$	10,701.53	\$	10,701.53	\$	10,915.56	\$	11,133.87	\$	11,356.55	\$	54,809.04
Subtotal of Direct Labor & Fringe Benefits:	\$	50,551.05	\$	50,551.05	\$	51,562.08	\$	52,593.32	\$	53,645.18	\$	258,902.68
OTHER DIRECT COSTS:												
Materials and Supplies	\$	15,186.64	\$	15,186.64	\$	15,490.37	\$	15,800.18	\$	16,116.19	\$	77,780.02
Travel Costs	\$	626.13	\$	626.13	\$	638.65	\$	651.43	\$	664.45	\$	3,206.79
Equipment	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Contractors	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Subtotal of Other Direct Costs:	\$	15,812.77	\$	15,812.77	\$	16,129.02	\$	16,451.61	\$	16,780.64	\$	80,986.81
INDIRECT/OVERHEAD COSTS:												
Subtotal of Labor and Other Direct Costs:	\$	66,363.82	\$	66,363.82	\$	67,691.10	\$	69,044.92	\$	70,425.83		
Total dollars exempt from indirect/overhead base:	\$	-	\$	-	\$	-	\$	-	\$	-		
<Enter Description of Indirect/OH Cost #1>	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	\$	-
Total dollars exempt from indirect/overhead base:	\$	-	\$	-	\$	-	\$	-	\$	-		
<Enter Description of Indirect/OH Cost #2>	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	0.00%	\$ -	\$	-
Subtotal of Indirect/Overhead Costs:	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
		YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		TOTAL
GRAND TOTAL:	\$	66,363.82	\$	66,363.82	\$	67,691.10	\$	69,044.92	\$	70,425.83	\$	339,889.49

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

Enter Escalation Rates ----->	Yr 2 Escalation Rate	0.00%
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	Task # or Description	Employee Name	Position Title	Current Hourly Rate	YEAR 1					YEAR 2				
					10/1/2021		Through	9/30/2022		10/1/2022		Through	10/1/2023	
					# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost
1	1	Matt Breen	Project Leader	\$ 29.14	300.0	\$ 29.14	\$ 8,741.72	40.00%	\$ 3,496.69	300.0	\$ 29.14	\$ 8,741.72	40.00%	\$ 3,496.69
2	1	Mike Partlow	Biologist II	\$ 26.63	240.0	\$ 26.63	\$ 6,390.68	40.00%	\$ 2,556.27	240.0	\$ 26.63	\$ 6,390.68	40.00%	\$ 2,556.27
3	1	Seasonal	Technician I	\$ 18.64	420.0	\$ 18.64	\$ 7,828.58	0.00%	\$ -	420.0	\$ 18.64	\$ 7,828.58	0.00%	\$ -
4	1	Seasonal	Shuttle Drivers	\$ 19.04	120.0	\$ 19.04	\$ 2,284.80	0.00%	\$ -	120.0	\$ 19.04	\$ 2,284.80	0.00%	\$ -
5	1	Garrett Tournear	Journey Maint. Special	\$ 27.08	300.0	\$ 27.08	\$ 8,124.74	40.00%	\$ 3,249.89	300.0	\$ 27.08	\$ 8,124.74	40.00%	\$ 3,249.89
6	3	Matt Breen	Project Leader	\$ 29.14	120.0	\$ 29.14	\$ 3,496.69	40.00%	\$ 1,398.68	120.0	\$ 29.14	\$ 3,496.69	40.00%	\$ 1,398.68
7	3	Seasonal	Technician I	\$ 18.64	160.0	\$ 18.64	\$ 2,982.32	0.00%	\$ -	160.0	\$ 18.64	\$ 2,982.32	0.00%	\$ -
8				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
9				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
10				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
11				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
12				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
13				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
14				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
15				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
16				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
17				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
18				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
19				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
20				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
21				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
22				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
23				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
24				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
25					1,660.00		\$ 39,849.52		\$ 10,701.53	1,660.00		\$ 39,849.52		\$ 10,701.53

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

Yr 3 Escalation Rate	2.00%
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Yr 4 Escalation Rate	2.00%
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	Task # or Description	Employee Name	Position Title	Current Hourly Rate	YEAR 3					YEAR 4				
					10/2/2023		Through	9/30/2024		10/1/2024		Through	9/30/2025	
					# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost
1	1	Matt Breen	Project Leader	\$ 29.14	300.0	\$ 29.72	\$ 8,916.56	40.00%	\$ 3,566.62	300.0	\$ 30.32	\$ 9,094.89	40.00%	\$ 3,637.96
2	1	Mike Partlow	Biologist II	\$ 26.63	240.0	\$ 27.16	\$ 6,518.49	40.00%	\$ 2,607.40	240.0	\$ 27.70	\$ 6,648.86	40.00%	\$ 2,659.55
3	1	Seasonal	Technician I	\$ 18.64	420.0	\$ 19.01	\$ 7,985.15	0.00%	\$ -	420.0	\$ 19.39	\$ 8,144.86	0.00%	\$ -
4	1	Seasonal	Shuttle Drivers	\$ 19.04	120.0	\$ 19.42	\$ 2,330.49	0.00%	\$ -	120.0	\$ 19.81	\$ 2,377.10	0.00%	\$ -
5	1	Garrett Tournear	Journey Maint. Special	\$ 27.08	300.0	\$ 27.62	\$ 8,287.23	40.00%	\$ 3,314.89	300.0	\$ 28.18	\$ 8,452.98	40.00%	\$ 3,381.19
6	3	Matt Breen	Project Leader	\$ 29.14	120.0	\$ 29.72	\$ 3,566.62	40.00%	\$ 1,426.65	120.0	\$ 30.32	\$ 3,637.96	40.00%	\$ 1,455.18
7	3	Seasonal	Technician I	\$ 18.64	160.0	\$ 19.01	\$ 3,041.96	0.00%	\$ -	160.0	\$ 19.39	\$ 3,102.80	0.00%	\$ -
8				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
9				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
10				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
11				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
12				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
13				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
14				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
15				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
16				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
17				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
18				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
19				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
20				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
21				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
22				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
23				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
24				\$ -	-	\$ -	\$ -	0.00%	\$ -	-	\$ -	\$ -	0.00%	\$ -
25					1,660.00		\$ 40,646.51		\$ 10,915.56	1,660.00		\$ 41,459.44		\$ 11,133.87

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

Yr 5 Escalation Rate	2.00%
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					YEAR 5							
					10/1/2025		Through	9/30/2026		Total Salary Cost	Total Fringe Cost	Total Labor Cost
Task # or Description	Employee Name	Position Title	Current Hourly Rate	# of Hours	Hourly Rate	Salary Cost	Fringe Rate	Fringe Cost	Total Salary Cost	Total Fringe Cost	Total Labor Cost	
1	1	Matt Breen	Project Leader	\$ 29.14	300.0	\$ 30.92	\$ 9,276.79	40.00%	\$ 3,710.71	\$ 44,771.67	\$ 17,908.67	\$ 62,680.34
2	1	Mike Partlow	Biologist II	\$ 26.63	240.0	\$ 28.26	\$ 6,781.84	40.00%	\$ 2,712.74	\$ 32,730.56	\$ 13,092.22	\$ 45,822.78
3	1	Seasonal	Technician I	\$ 18.64	420.0	\$ 19.78	\$ 8,307.75	0.00%	\$ -	\$ 40,094.93	\$ -	\$ 40,094.93
4	1	Seasonal	Shuttle Drivers	\$ 19.04	120.0	\$ 20.21	\$ 2,424.65	0.00%	\$ -	\$ 11,701.84	\$ -	\$ 11,701.84
5	1	Garrett Tournear	Journey Maint. Special	\$ 27.08	300.0	\$ 28.74	\$ 8,622.03	40.00%	\$ 3,448.81	\$ 41,611.71	\$ 16,644.68	\$ 58,256.39
6	3	Matt Breen	Project Leader	\$ 29.14	120.0	\$ 30.92	\$ 3,710.71	40.00%	\$ 1,484.29	\$ 17,908.67	\$ 7,163.47	\$ 25,072.14
7	3	Seasonal	Technician I	\$ 18.64	160.0	\$ 19.78	\$ 3,164.86	0.00%	\$ -	\$ 15,274.26	\$ -	\$ 15,274.26
8				\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -
9				\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -
10				\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -
11				\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -
12				\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -
13				\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -
14				\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -
15				\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -
16				\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -
17				\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -
18				\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -
19				\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -
20				\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -
21				\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -
22				\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -
23				\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -
24				\$ -	-	\$ -	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -
25					1,660.00		\$ 42,288.63		\$ 11,356.55	\$ 204,093.64	\$ 54,809.04	\$ 258,902.68

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS, SUPPLIES, AND SERVICES

Yr 2 Escalation Rate	0.00%
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	Task # or Description	Item Description	Rationale for Proposed Cost	Year 1			Year 2		
				Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal
1	1	Monthly fleet rental (2 trucks, 1 month)	Based on previous experience & SOWs funded through BOR contract R19AP00059	\$ 500.00	2.00	\$ 1,000.00	\$ 500.00	2.00	\$ 1,000.00
2	1	Mileage costs (3,000 miles)	Based on previous experience & SOWs funded through BOR contract R19AP00059	\$ 0.40	3000.00	\$ 1,200.00	\$ 0.40	3000.00	\$ 1,200.00
3	1	Boating gear repair/replacement:	Based on previous experience & SOWs funded through BOR contract R19AP00059	\$ 6,750.00	1.00	\$ 6,750.00	\$ 6,750.00	1.00	\$ 6,750.00
4	1	Sampling gear	Based on previous experience & SOWs funded through BOR contract R19AP00059	\$ 5,600.69	1.00	\$ 5,600.69	\$ 5,600.69	1.00	\$ 5,600.69
5	1	Boat Fuel	Based on previous experience & SOWs funded through BOR contract R19AP00059	\$ 4.42	144.00	\$ 635.95	\$ 4.42	144.00	\$ 635.95
6				\$ -	0	\$ -	\$ -	0	\$ -
7				\$ -	0	\$ -	\$ -	0	\$ -
8				\$ -	0	\$ -	\$ -	0	\$ -
9				\$ -	0	\$ -	\$ -	0	\$ -
10				\$ -	0	\$ -	\$ -	0	\$ -
11				\$ -	0	\$ -	\$ -	0	\$ -
12				\$ -	0	\$ -	\$ -	0	\$ -
13				\$ -	0	\$ -	\$ -	0	\$ -
14				\$ -	0	\$ -	\$ -	0	\$ -
15				\$ -	0	\$ -	\$ -	0	\$ -
16				\$ -	0	\$ -	\$ -	0	\$ -
17				\$ -	0	\$ -	\$ -	0	\$ -
18				\$ -	0	\$ -	\$ -	0	\$ -
19				\$ -	0	\$ -	\$ -	0	\$ -
20				\$ -	0	\$ -	\$ -	0	\$ -
21				\$ -	0	\$ -	\$ -	0	\$ -
22				\$ -	0	\$ -	\$ -	0	\$ -
23				\$ -	0	\$ -	\$ -	0	\$ -
24	TOTAL:					\$ 15,186.64			\$ 15,186.64

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS, SUPPLIES, SERVICES	Yr 3 Escalation Rate	2.00%	Yr 4 Escalation Rate	2.00%
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	Task # or Description	Item Description	Year 3			Year 4		
			Unit Price	Unit Quantity	Subtotal	Unit Price	Unit Quantity	Subtotal
1	1	Monthly fleet rental (2 trucks, 1 month)	\$ 510.00	2.00	\$ 1,020.00	\$ 520.20	2.00	\$ 1,040.40
2	1	Mileage costs (3,000 miles)	\$ 0.41	3000.00	\$ 1,224.00	\$ 0.42	3000.00	\$ 1,248.48
3	1	Boating gear repair/replacement:	\$ 6,885.00	1.00	\$ 6,885.00	\$ 7,022.70	1.00	\$ 7,022.70
4	1	Sampling gear	\$ 5,712.70	1.00	\$ 5,712.70	\$ 5,826.96	1.00	\$ 5,826.96
5	1	Boat Fuel	\$ 4.50	144.00	\$ 648.67	\$ 4.59	144.00	\$ 661.64
6			\$ -	0	\$ -	\$ -	0	\$ -
7			\$ -	0	\$ -	\$ -	0	\$ -
8			\$ -	0	\$ -	\$ -	0	\$ -
9			\$ -	0	\$ -	\$ -	0	\$ -
10			\$ -	0	\$ -	\$ -	0	\$ -
11			\$ -	0	\$ -	\$ -	0	\$ -
12			\$ -	0	\$ -	\$ -	0	\$ -
13			\$ -	0	\$ -	\$ -	0	\$ -
14			\$ -	0	\$ -	\$ -	0	\$ -
15			\$ -	0	\$ -	\$ -	0	\$ -
16			\$ -	0	\$ -	\$ -	0	\$ -
17			\$ -	0	\$ -	\$ -	0	\$ -
18			\$ -	0	\$ -	\$ -	0	\$ -
19			\$ -	0	\$ -	\$ -	0	\$ -
20			\$ -	0	\$ -	\$ -	0	\$ -
21			\$ -	0	\$ -	\$ -	0	\$ -
22			\$ -	0	\$ -	\$ -	0	\$ -
23			\$ -	0	\$ -	\$ -	0	\$ -
24					\$ 15,490.37			\$ 15,800.18

SUMMARY OF MATERIALS AND SUPPLIES

SUMMARY OF MATERIALS, SUPPLIES, SERVICES	Yr 5 Escalation Rate	2.00%
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	Task # or Description	Item Description	Year 5			TOTAL
			Unit Price	Unit Quantity	Subtotal	
1	1	Monthly fleet rental (2 trucks, 1 month)	\$ 530.60	2.00	\$ 1,061.21	\$ 5,121.61
2	1	Mileage costs (3,000 miles)	\$ 0.42	3000.00	\$ 1,273.45	\$ 6,145.93
3	1	Boating gear repair/replacement:	\$ 7,163.15	1.00	\$ 7,163.15	\$ 34,570.85
4	1	Sampling gear	\$ 5,943.50	1.00	\$ 5,943.50	\$ 28,684.54
5	1	Boat Fuel	\$ 4.69	144.00	\$ 674.88	\$ 3,257.09
6			\$ -	0	\$ -	\$ -
7			\$ -	0	\$ -	\$ -
8			\$ -	0	\$ -	\$ -
9			\$ -	0	\$ -	\$ -
10			\$ -	0	\$ -	\$ -
11			\$ -	0	\$ -	\$ -
12			\$ -	0	\$ -	\$ -
13			\$ -	0	\$ -	\$ -
14			\$ -	0	\$ -	\$ -
15			\$ -	0	\$ -	\$ -
16			\$ -	0	\$ -	\$ -
17			\$ -	0	\$ -	\$ -
18			\$ -	0	\$ -	\$ -
19			\$ -	0	\$ -	\$ -
20			\$ -	0	\$ -	\$ -
21			\$ -	0	\$ -	\$ -
22			\$ -	0	\$ -	\$ -
23			\$ -	0	\$ -	\$ -
24					\$ 16,116.19	\$ 77,780.02

SUMMARY OF TRAVEL COSTS

Cost Element	Year 1	Year 2	Year 3	Year 4	Year 5	TOTAL
Trip #	1	1	1	1	1	
From-To	Middle Green River	Middle Green River	Middle Green River	Middle Green River	Middle Green River	
Reason	Task 1 - Day Trips	Task 1 - Day Trips	Task 1 - Day Trips	Task 1 - Day Trips	Task 1 - Day Trips	
# of Days (include travel days)	14	14	14	14	14	
Airfare	\$ -	\$ -	\$ -	\$ -	\$ -	
Lodging (Per Night)	\$ -	\$ -	\$ -	\$ -	\$ -	
MI&E Per Day	\$ 15.46	\$ 15.46	\$ 15.77	\$ 16.08	\$ 16.41	
Auto Rental Per Day	\$ -	\$ -	\$ -	\$ -	\$ -	
Misc Costs/Adjustments/Trip	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Per Trip	\$ 208.71	\$ 208.71	\$ 212.88	\$ 217.14	\$ 221.48	
No. of persons	3	3	3	3	3	
Mileage rate	\$ -	\$ -	\$ -	\$ -	\$ -	
Total miles						
SUBTOTAL =	\$ 626.13	\$ 626.13	\$ 638.65	\$ 651.43	\$ 664.45	\$ 3,206.79
	Year 1	Year 2	Year 3	Year 4	Year 5	TOTAL
TOTAL COST BY PERIOD =	\$ 626.13	\$ 626.13	\$ 638.65	\$ 651.43	\$ 664.45	\$ 3,206.79