

UPPER COLORADO RIVER ENDANGERED FISH RECOVERY PROGRAM

FY 2022-23 SCOPE OF WORK

PROJECT: 138

Project Title

Annual fall monitoring of young-of-year Colorado pikeminnow and small-bodied native fishes

Bureau of Reclamation Agreement Number:

R19AP00059

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:

Matthew J. Breen, Native Aquatics Project Leader

Utah Division of Wildlife Resources

Northeastern Regional Office

318 North Vernal Ave.

Vernal, UT 84078

Phone: (435) 781-9453

Email: mattbreen@utah.gov

Christopher M. Michaud, Fisheries Biologist

Utah Division of Wildlife Resources

Moab Field Station

1165 S. Highway 191- Suite 4

Moab, UT 84532

Phone: 435-259-3784

E-mail: cmichaud@utah.gov

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

- V. Monitor populations and habitat and conduct research to support recovery actions (research, monitoring, and data management).
- V.A. Measure and document population and habitat parameters to determine status and biological response to recovery actions.
- V.B.2. Conduct appropriate studies to provide needed life history information.

GREEN RIVER ACTION PLAN: MAINSTEM

- V.C.3. Monitor age-0 Colorado pikeminnow in backwaters.

COLORADO RIVER ACTION PLAN: MAINSTEM

- V.D.1. Monitor age-0 Colorado pikeminnow in backwaters.

Study Background/Rationale and Hypotheses:

Larval Colorado pikeminnow (*Ptychocheilus lucius*) monitoring is an ongoing effort to evaluate spawning success. Monitoring of juvenile Colorado pikeminnow occurs in conjunction with adult population estimates in the Green and Colorado rivers. However, survival of young-of-year (YOY) can vary greatly between years independent of spawning success and can have an impact on the juvenile component of Colorado pikeminnow populations. For example, biotic and abiotic factors such as flow variation (i.e., Flaming Gorge flow management), backwater temperatures, competition and predation by nonnative fish (e.g., piscivores and small-bodied cyprinids), and over-winter mortality can hinder juvenile survival resulting in a smaller number of juvenile Colorado pikeminnow available for recruitment into the adult population (Bestgen et al. 2006; Bestgen and Hill 2016; Breen and Jones 2019). Recruitment of other native species such as bluehead sucker (*Catostomus discobolus*), flannelmouth sucker (*C. latipinnis*), roundtail chub (*Gila robusta*), and speckled dace (*Rhinichthys osculus*) is affected similarly.

Long-term annual fall monitoring is a key component to understanding recruitment patterns and population dynamics over time. For instance, documenting size and relative abundance of YOY Colorado pikeminnow and other native species (e.g., UDWR 2006) may provide valuable information about the probable survival of any particular year class. Together with existing YOY data compiled from the Interagency Standardized Monitoring Program (ISMP; 1987–present), results from this project should provide the basis for monitoring distribution and recruitment rates of YOY Colorado pikeminnow. Efforts to control nonnatives will likely have the greatest effect on YOY fish (i.e., decreased predation and increased survival). Therefore, monitoring this component of the Colorado pikeminnow population will provide information toward evaluating nonnative control measures. Additionally, this project ensures continuation of existing, standardized data series (ISMP) that document trends in abundance of early-life stage Colorado pikeminnow (USFWS 1987). Finally, response of early life-stages of native and small-bodied fish to removal of nonnative predators will serve as indicators of the response expected by endangered fish species occupying the same habitats.

Study Goals, Objectives, End Product(s):

Goal: Monitor YOY Colorado pikeminnow to assess long-term trends in annual fall recruitment.

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Objectives:

1. Determine size and relative abundance of YOY Colorado pikeminnow and small-bodied native fishes at the end of their first growing season to complement larval and juvenile sampling.

End product: Continuation of long-term data collection for YOY pikeminnow and associated habitat information; findings will be reported annually.

Study Area:

The study area for this project includes identified Colorado pikeminnow nursery habitat areas in the Green and Colorado rivers in Utah (Valdez et al. 1982; Archer et al. 1985; Tyus and Haines 1991). Specifically, Split Mountain to Sand Wash (river mile [RM] 319–RM 215) on the middle Green River, Green River State Park to the confluence with the Colorado River (RM 120–RM 0) on the lower Green River, and Cisco to the confluence with the Green River (RM 111–RM 0) on the Colorado River.

Study Methods/Approach:

Annual YOY Colorado pikeminnow and small-bodied native fish sampling will be conducted from mid- to late-September. Field sampling will be conducted using the ISMP protocol (USFWS 1987) so that long-term trends can be maintained. The first two backwater/low velocity habitats encountered every five river miles will be sampled dependent upon availability of suitable habitats within each 5-mile sub-reach. More specifically, backwater/low velocity habitats will be sampled using a 1.2 m x 4 m seine with 3 mm mesh. At least two non-overlapping seine hauls will be conducted in each habitat sampled (or one seine haul if 25% of the habitat is sampled). Seine hauls will be parallel to one another and perpendicular to the axis of the backwater. However, if water depth is too great seine hauls will be completed along one shoreline. The first two seine hauls in each of the two habitats sampled per sub-reach will be taken at $\frac{1}{3}$ and $\frac{2}{3}$ the distance from the mouth of the backwater. Additional seine hauls may be completed in any portion of the backwater including the mouth or shallow tail end. Length of each seine haul, maximum depth, and average depth will be recorded for each sample. All endangered and native fishes will be enumerated, identified, measured (total length in mm), and returned alive to the habitat. Fin ray counts will be completed for all chubs (*Gila* spp.) captured. All nonnative fishes will be enumerated (first seine haul in the first backwater of a sub-reach only) and removed. In subsequent seine hauls, common (i.e., highly abundant) nonnative species will be ignored and other less common nonnative species will be enumerated.

In addition, physical habitat measurements to be collected at each site include habitat type, habitat length, habitat width, backwater temperature, main channel temperature, backwater turbidity, and main channel turbidity. Location of each habitat will be recorded as the approximate river mile and in UTM coordinates using GPS technology.

Task Description, Deliverables and Schedule:

Task 1. Seine backwater/low velocity habitats to collect data for endangered, native and nonnative fish; collect physical habitat data: middle Green River. (UDWR–Vernal).

Task 2. Seine backwater/low velocity habitats to collect data for endangered, native and nonnative fish; collect physical habitat data: lower Green River and lower Colorado River (UDWR–Moab).

Task 3. Data entry, analysis, and report preparation (UDWR–Vernal and UDWR–Moab).

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

Budget Summary:

| FY Year | Moab | Vernal |
|---------|-----------|-----------|
| 2022 | \$32,993 | \$28,564 |
| 2023 | \$32,993 | \$28,564 |
| 2024 | \$33,652 | \$29,136 |
| 2025 | \$34,325 | \$29,718 |
| 2026 | \$35,012 | \$30,312 |
| Total | \$168,975 | \$146,295 |

Reviewers:

References:

Archer, D.L., L.R. Kaeding, B.D. Burdick, and C.W. McAda. 1985. A study of the endangered fishes of the upper Colorado River. Final Report. U.S. Fish and Wildlife Service, Colorado River Fishery Project. Grand Junction, 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, CO. Department of Fish, Wildlife, and Conservation Biology, Colorado State University, Fort Collins. Larval Fish Laboratory Contribution 183.

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.

Tyus, H.M. and G.B. Haines. 1991. Distribution, habitat use, and growth of age-0 Colorado squawfish in the Green River basin, Colorado and Utah. Transactions of the American Fisheries Society 120:79-89.

Valdez, R., P. Mangan, R. Smith, and B. Nilson. 1982. Upper Colorado River investigation (Rifle, Colorado to Lake Powell, Utah). Pages 101-279 in W.H. Miller et al., editors. Colorado River Fishery Project Final Report; Part Two, Field Studies. U.S. Fish and Wildlife Service and Bureau of Reclamation. Salt Lake City, Utah.

Utah Division of Wildlife Resources (UDWR). 2006. Conservation and management plan for three fish

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species in Utah: addressing needs for roundtail chub (*Gila robusta*), bluehead sucker (*Catostomus discobolus*), and flannelmouth sucker (*Catostomus latipinnis*). Publication number 06-17. Salt Lake City, Utah.

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

| | |
|----------------------------------|---|
| Name of Servicing Agency: | Utah Division of Wildlife Resources |
| Project Name: | Project 138: Annual fall monitoring of young-of-year Colorado pikeminnow and small-bodied native fishes (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 | \$ | 17,951.81 | \$ | 17,951.81 | \$ | 18,310.85 | \$ | 18,677.07 | \$ | 19,050.61 | \$ | 91,942.15 |
| Fringe Benefits - Hourly | \$ | 5,047.34 | \$ | 5,047.34 | \$ | 5,148.28 | \$ | 5,251.25 | \$ | 5,356.28 | \$ | 25,850.49 |
| Subtotal of Direct Labor & Fringe Benefits: | \$ | 22,999.15 | \$ | 22,999.15 | \$ | 23,459.13 | \$ | 23,928.32 | \$ | 24,406.88 | \$ | 117,792.63 |
| OTHER DIRECT COSTS: | | | | | | | | | | | | |
| Materials and Supplies | \$ | 5,207.47 | \$ | 5,207.47 | \$ | 5,311.61 | \$ | 5,417.84 | \$ | 5,526.20 | \$ | 26,670.59 |
| Travel Costs | \$ | 357.75 | \$ | 357.75 | \$ | 364.91 | \$ | 372.20 | \$ | 379.65 | \$ | 1,832.26 |
| Equipment | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| Contractors | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| Subtotal of Other Direct Costs: | \$ | 5,565.22 | \$ | 5,565.22 | \$ | 5,676.52 | \$ | 5,790.04 | \$ | 5,905.85 | \$ | 28,502.85 |
| INDIRECT/OVERHEAD COSTS: | | | | | | | | | | | | |
| Subtotal of Labor and Other Direct Costs: | \$ | 28,564.37 | \$ | 28,564.37 | \$ | 29,135.65 | \$ | 29,718.36 | \$ | 30,312.73 | | |
| 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: | \$ | 28,564.37 | \$ | 28,564.37 | \$ | 29,135.65 | \$ | 29,718.36 | \$ | 30,312.73 | \$ | 146,295.48 |

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

| | | |
|-------------------------------|----------------------|-------|
| Enter Escalation Rates -----> | Yr 2 Escalation Rate | 0.00% |
|-------------------------------|----------------------|-------|

| | 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 | 70.0 | \$ 29.14 | \$ 2,039.74 | 40.00% | \$ 815.89 | 70.0 | \$ 29.14 | \$ 2,039.74 | 40.00% | \$ 815.89 |
| 2 | 1 | Michael Partlow | Biologist II | \$ 26.63 | 70.0 | \$ 26.63 | \$ 1,863.95 | 40.00% | \$ 745.58 | 70.0 | \$ 26.63 | \$ 1,863.95 | 40.00% | \$ 745.58 |
| 3 | 1 | Garrett Tournear | Journey Maint. Specialist | \$ 27.08 | 150.0 | \$ 27.08 | \$ 4,062.37 | 40.00% | \$ 1,624.95 | 150.0 | \$ 27.08 | \$ 4,062.37 | 40.00% | \$ 1,624.95 |
| 4 | 1 | Seasonal | Technician I | \$ 18.64 | 150.0 | \$ 18.64 | \$ 2,795.92 | 0.00% | \$ - | 150.0 | \$ 18.64 | \$ 2,795.92 | 0.00% | \$ - |
| 5 | 1 | Seasonal | Shuttle Drivers | \$ 19.04 | 70.0 | \$ 19.04 | \$ 1,332.80 | 0.00% | \$ - | 70.0 | \$ 19.04 | \$ 1,332.80 | 0.00% | \$ - |
| 6 | 3 | Matt Breen | Project Leader | \$ 29.14 | 50.0 | \$ 29.14 | \$ 1,456.95 | 40.00% | \$ 582.78 | 50.0 | \$ 29.14 | \$ 1,456.95 | 40.00% | \$ 582.78 |
| 7 | 3 | Michael Partlow | Biologist II | \$ 26.63 | 120.0 | \$ 26.63 | \$ 3,195.34 | 40.00% | \$ 1,278.14 | 120.0 | \$ 26.63 | \$ 3,195.34 | 40.00% | \$ 1,278.14 |
| 8 | 3 | Seasonal | Technician II | \$ 20.08 | 60.0 | \$ 20.08 | \$ 1,204.75 | 0.00% | \$ - | 60.0 | \$ 20.08 | \$ 1,204.75 | 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 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 26 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 27 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 28 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 29 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 30 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 31 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| | | | | | 740.00 | | \$ 17,951.81 | | \$ 5,047.34 | 740.00 | | \$ 17,951.81 | | \$ 5,047.34 |

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

| | |
|----------------------|-------|
| Yr 3 Escalation Rate | 2.00% |
|----------------------|-------|

| | |
|----------------------|-------|
| Yr 4 Escalation Rate | 2.00% |
|----------------------|-------|

| | 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 | 70.0 | \$ 29.72 | \$ 2,080.53 | 40.00% | \$ 832.21 | 70.0 | \$ 30.32 | \$ 2,122.14 | 40.00% | \$ 848.86 |
| 2 | 1 | Michael Partlow | Biologist II | \$ 26.63 | 70.0 | \$ 27.16 | \$ 1,901.23 | 40.00% | \$ 760.49 | 70.0 | \$ 27.70 | \$ 1,939.25 | 40.00% | \$ 775.70 |
| 3 | 1 | Garrett Tournear | Journey Maint. Specialist | \$ 27.08 | 150.0 | \$ 27.62 | \$ 4,143.62 | 40.00% | \$ 1,657.45 | 150.0 | \$ 28.18 | \$ 4,226.49 | 40.00% | \$ 1,690.60 |
| 4 | 1 | Seasonal | Technician I | \$ 18.64 | 150.0 | \$ 19.01 | \$ 2,851.84 | 0.00% | \$ - | 150.0 | \$ 19.39 | \$ 2,908.88 | 0.00% | \$ - |
| 5 | 1 | Seasonal | Shuttle Drivers | \$ 19.04 | 70.0 | \$ 19.42 | \$ 1,359.45 | 0.00% | \$ - | 70.0 | \$ 19.81 | \$ 1,386.64 | 0.00% | \$ - |
| 6 | 3 | Matt Breen | Project Leader | \$ 29.14 | 50.0 | \$ 29.72 | \$ 1,486.09 | 40.00% | \$ 594.44 | 50.0 | \$ 30.32 | \$ 1,515.81 | 40.00% | \$ 606.33 |
| 7 | 3 | Michael Partlow | Biologist II | \$ 26.63 | 120.0 | \$ 27.16 | \$ 3,259.25 | 40.00% | \$ 1,303.70 | 120.0 | \$ 27.70 | \$ 3,324.43 | 40.00% | \$ 1,329.77 |
| 8 | 3 | Seasonal | Technician II | \$ 20.08 | 60.0 | \$ 20.48 | \$ 1,228.84 | 0.00% | \$ - | 60.0 | \$ 20.89 | \$ 1,253.42 | 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 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 26 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 27 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 28 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 29 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 30 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 31 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| | | | | | 740.00 | \$ 18,310.85 | | | \$ 5,148.28 | 740.00 | \$ 18,677.07 | | | \$ 5,251.25 |

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

| | |
|----------------------|-------|
| Yr 5 Escalation Rate | 2.00% |
|----------------------|-------|

| | | | | | YEAR 5 | | | | | Total Salary Cost | Total Fringe Cost | Total Labor Cost |
|----|-------------|------------------|---------------------------|---------------------|---------------|-------------|---------------------|-------------|--------------------|---------------------|---------------------|----------------------|
| | | | | | 10/1/2025 | | Through | 9/30/2026 | | | | |
| | Description | Employee Name | Position Title | Current Hourly Rate | # of Hours | Hourly Rate | Salary Cost | Fringe Rate | Fringe Cost | | | |
| 1 | 1 | Matt Breen | Project Leader | \$ 29.14 | 70.0 | \$ 30.92 | \$ 2,164.58 | 40.00% | \$ 865.83 | \$ 10,446.72 | \$ 4,178.69 | \$ 14,625.41 |
| 2 | 1 | Michael Partlow | Biologist II | \$ 26.63 | 70.0 | \$ 28.26 | \$ 1,978.04 | 40.00% | \$ 791.21 | \$ 9,546.41 | \$ 3,818.56 | \$ 13,364.98 |
| 3 | 1 | Garrett Tournear | Journey Maint. Specialist | \$ 27.08 | 150.0 | \$ 28.74 | \$ 4,311.02 | 40.00% | \$ 1,724.41 | \$ 20,805.86 | \$ 8,322.34 | \$ 29,128.20 |
| 4 | 1 | Seasonal | Technician I | \$ 18.64 | 150.0 | \$ 19.78 | \$ 2,967.06 | 0.00% | \$ - | \$ 14,319.62 | \$ - | \$ 14,319.62 |
| 5 | 1 | Seasonal | Shuttle Drivers | \$ 19.04 | 70.0 | \$ 20.21 | \$ 1,414.38 | 0.00% | \$ - | \$ 6,826.07 | \$ - | \$ 6,826.07 |
| 6 | 3 | Matt Breen | Project Leader | \$ 29.14 | 50.0 | \$ 30.92 | \$ 1,546.13 | 40.00% | \$ 618.45 | \$ 7,461.95 | \$ 2,984.78 | \$ 10,446.72 |
| 7 | 3 | Michael Partlow | Biologist II | \$ 26.63 | 120.0 | \$ 28.26 | \$ 3,390.92 | 40.00% | \$ 1,356.37 | \$ 16,365.28 | \$ 6,546.11 | \$ 22,911.39 |
| 8 | 3 | Seasonal | Technician II | \$ 20.08 | 60.0 | \$ 21.31 | \$ 1,278.49 | 0.00% | \$ - | \$ 6,170.24 | \$ - | \$ 6,170.24 |
| 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 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | \$ - | \$ - | \$ - |
| 26 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | \$ - | \$ - | \$ - |
| 27 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | \$ - | \$ - | \$ - |
| 28 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | \$ - | \$ - | \$ - |
| 29 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | \$ - | \$ - | \$ - |
| 30 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | \$ - | \$ - | \$ - |
| 31 | | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | \$ - | \$ - | \$ - |
| | | | | | 740.00 | | \$ 19,050.61 | | \$ 5,356.28 | \$ 91,942.15 | \$ 25,850.49 | \$ 117,792.63 |

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 | 1 | Monthly fleet rental (2 trucks, two weeks) | Based on previous experience & SOWs funded through BOR contract R19AP00059 | \$ 500.00 | 1.00 | \$ 500.00 | \$ 500.00 | 1.00 | \$ 500.00 |
| 2 | 1 | Mileage costs (2,000 miles) | Based on previous experience & SOWs funded through BOR contract R19AP00059 | \$ 0.40 | 1500.00 | \$ 600.00 | \$ 0.40 | 1500.00 | \$ 600.00 |
| 3 | 1 | Boat Fuel | Based on previous experience & SOWs funded through BOR contract R19AP00059 | \$ 4.42 | 80.00 | \$ 353.31 | \$ 4.42 | 80.00 | \$ 353.31 |
| 4 | 1 | Boating gear repair/replacement: | Based on previous experience & SOWs funded through BOR contract R19AP00059 | \$ 1,685.00 | 1.00 | \$ 1,685.00 | \$ 1,685.00 | 1.00 | \$ 1,685.00 |
| 5 | 1 | Camping supplies | Based on previous experience & SOWs funded through BOR contract R19AP00059 | \$ 618.16 | 1.00 | \$ 618.16 | \$ 618.16 | 1.00 | \$ 618.16 |
| 6 | 1 | Sampling gear repair/replacement | Based on previous experience & SOWs funded through BOR contract R19AP00059 | \$ 1,451.00 | 1.00 | \$ 1,451.00 | \$ 1,451.00 | 1.00 | \$ 1,451.00 |
| 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 | \$ - |
| TOTAL: | | | | | | \$ 5,207.47 | | | \$ 5,207.47 |

SUMMARY OF MATERIALS AND SUPPLIES

| | | | | |
|--|----------------------|-------|----------------------|-------|
| | Yr 3 Escalation Rate | 2.00% | Yr 4 Escalation Rate | 2.00% |
|--|----------------------|-------|----------------------|-------|

SUMMARY OF MATERIALS, SUPPLIES, AND SERVICES

| | 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, two weeks) | \$ 510.00 | 1.00 | \$ 510.00 | \$ 520.20 | 1.00 | \$ 520.20 |
| 2 | 1 | Mileage costs (2,000 miles) | \$ 0.41 | 1500.00 | \$ 612.00 | \$ 0.42 | 1500.00 | \$ 624.24 |
| 3 | 1 | Boat Fuel | \$ 4.50 | 80.00 | \$ 360.37 | \$ 4.59 | 80.00 | \$ 367.58 |
| 4 | 1 | Boating gear repair/replacement: | \$ 1,718.70 | 1.00 | \$ 1,718.70 | \$ 1,753.07 | 1.00 | \$ 1,753.07 |
| 5 | 1 | Camping supplies | \$ 630.52 | 1.00 | \$ 630.52 | \$ 643.13 | 1.00 | \$ 643.13 |
| 6 | 1 | Sampling gear repair/replacement | \$ 1,480.02 | 1.00 | \$ 1,480.02 | \$ 1,509.62 | 1.00 | \$ 1,509.62 |
| 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 | \$ - |
| | | | \$ - | 0 | \$ - | \$ - | 0 | \$ - |
| | | | | | \$ 5,311.61 | | | \$ 5,417.84 |

SUMMARY OF MATERIALS AND SUPPLIES

| | | |
|--|----------------------|-------|
| | Yr 5 Escalation Rate | 2.00% |
|--|----------------------|-------|

SUMMARY OF MATERIALS, SUPPLIES, AND SERVICES

| | | Year 5 | | | | |
|-----------------------|------------------|--|---------------|--------------------|---------------------|-------------|
| Task # or Description | Item Description | Unit Price | Unit Quantity | Subtotal | TOTAL | |
| 1 | 1 | Monthly fleet rental (2 trucks, two weeks) | \$ 530.60 | 1.00 | \$ 530.60 | \$ 2,560.80 |
| 2 | 1 | Mileage costs (2,000 miles) | \$ 0.42 | 1500.00 | \$ 636.72 | \$ 3,072.96 |
| 3 | 1 | Boat Fuel | \$ 4.69 | 80.00 | \$ 374.93 | \$ 1,809.50 |
| 4 | 1 | Boating gear repair/replacement: | \$ 1,788.14 | 1.00 | \$ 1,788.14 | \$ 8,629.91 |
| 5 | 1 | Camping supplies | \$ 656.00 | 1.00 | \$ 656.00 | \$ 3,165.97 |
| 6 | 1 | Sampling gear repair/replacement | \$ 1,539.81 | 1.00 | \$ 1,539.81 | \$ 7,431.45 |
| 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 | \$ - | \$ - |
| | | | \$ - | 0 | \$ - | \$ - |
| | | | | \$ 5,526.20 | \$ 26,670.59 | |

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 | YOYCPM Overnights | YOYCPM Overnights | YOYCPM Overnights | YOYCPM Overnights | YOYCPM Overnights | |
| # of Days (include travel days) | 2 | 2 | 2 | 2 | 2 | |
| Airfare | \$ - | \$ - | \$ - | \$ - | \$ - | |
| Lodging (Per Night) | \$ - | \$ - | \$ - | \$ - | \$ - | |
| MI&E Per Day | \$ 33.12 | \$ 33.12 | \$ 33.78 | \$ 34.46 | \$ 35.15 | |
| Auto Rental Per Day | \$ - | \$ - | \$ - | \$ - | \$ - | |
| Misc Costs/Adjustments/Trip | \$ - | \$ - | \$ - | \$ - | \$ - | |
| Total Per Trip | \$ 49.68 | \$ 49.68 | \$ 50.67 | \$ 51.69 | \$ 52.72 | |
| No. of persons | 3 | 3 | 3 | 3 | 3 | |
| Mileage rate | | | | | | |
| Total miles | | | | | | |
| SUBTOTAL = | \$ 149.04 | \$ 149.04 | \$ 152.02 | \$ 155.06 | \$ 158.16 | \$ 763.32 |

| Cost Element | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | TOTAL |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|-------------|
| Trip # | 2 | 2 | 2 | 2 | 2 | |
| From-To | Middle Green River | Middle Green River | Middle Green River | Middle Green River | Middle Green River | |
| Reason | YOYCPM Day trips | YOYCPM Day trips | YOYCPM Day trips | YOYCPM Day trips | YOYCPM Day trips | |
| # of Days (include travel days) | 5 | 5 | 5 | 5 | 5 | |
| 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 | \$ 69.57 | \$ 69.57 | \$ 70.96 | \$ 72.38 | \$ 73.83 | |
| No. of persons | 3 | 3 | 3 | 3 | 3 | |
| Mileage rate | | | | | | |
| Total miles | | | | | | |
| SUBTOTAL = | \$ 208.71 | \$ 208.71 | \$ 212.88 | \$ 217.14 | \$ 221.48 | \$ 1,068.93 |

| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | TOTAL |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-------------|
| TOTAL COST BY PERIOD = | \$ 357.75 | \$ 357.75 | \$ 364.91 | \$ 372.20 | \$ 379.65 | \$ 1,832.26 |

| | |
|----------------------------------|--|
| Name of Servicing Agency: | Utah Division of Wildlife Resources (Moab Field Station) |
| Project Name: | Project 138 Annual fall monitoring of young-of-year Colorado pikeminnow and small-bodied native fishes and Colorado pikeminnow broodstock collection |

| | Enter the BEGINNING dates for each year -----> | | YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | TOTAL |
|---|--|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| | Enter the ENDING dates for each year -----> | | 10/1/2021 | 10/1/2022 | 10/2/2023 | 10/1/2024 | 10/1/2025 | |
| | | | Through | Through | Through | Through | Through | |
| | | YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | | |
| DIRECT LABOR AND FRINGE BENEFIT COSTS: | | | | | | | | |
| Direct Labor - Hourly | | \$ 17,788.38 | \$ 17,788.38 | \$ 18,144.14 | \$ 18,507.03 | \$ 18,877.17 | \$ 91,105.09 | |
| Fringe Benefits - Hourly | | \$ 7,583.80 | \$ 7,583.80 | \$ 7,735.47 | \$ 7,890.18 | \$ 8,047.98 | \$ 38,841.23 | |
| Subtotal of Direct Labor & Fringe Benefits: | | \$ 25,372.17 | \$ 25,372.17 | \$ 25,879.62 | \$ 26,397.21 | \$ 26,925.15 | \$ 129,946.32 | |
| OTHER DIRECT COSTS: | | | | | | | | |
| Materials and Supplies | | \$ 6,500.40 | \$ 6,500.40 | \$ 6,630.41 | \$ 6,763.02 | \$ 6,898.26 | \$ 33,292.49 | |
| Travel Costs | | \$ 1,120.00 | \$ 1,120.00 | \$ 1,142.40 | \$ 1,165.25 | \$ 1,188.55 | \$ 5,736.20 | |
| Equipment | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | |
| Contractors | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | |
| Subtotal of Other Direct Costs: | | \$ 7,620.40 | \$ 7,620.40 | \$ 7,772.81 | \$ 7,928.27 | \$ 8,086.81 | \$ 39,028.69 | |
| INDIRECT/OVERHEAD COSTS: | | | | | | | | |
| Subtotal of Labor and Other Direct Costs: | | \$ 32,992.57 | \$ 32,992.57 | \$ 33,652.43 | \$ 34,325.48 | \$ 35,011.96 | | |
| Total dollars exempt from indirect/overhead base: | | \$ 32,992.57 | \$ 32,992.57 | \$ 33,652.43 | \$ 34,325.48 | \$ 35,011.96 | | |
| <Enter Description of Indirect/OH Cost #1> | 0.00% | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | |
| Total dollars exempt from indirect/overhead base: | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | |
| <Enter Description of Indirect/OH Cost #2> | 0.00% | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | |
| Subtotal of Indirect/Overhead Costs: | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | |
| GRAND TOTAL: | | \$ 32,992.57 | \$ 32,992.57 | \$ 33,652.43 | \$ 34,325.48 | \$ 35,011.96 | \$ 168,975.01 | |

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

| | | |
|-------------------------------|----------------------|-------|
| Enter Escalation Rates -----> | Yr 2 Escalation Rate | 0.00% |
|-------------------------------|----------------------|-------|

| | Task # or Description | 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 | 2 | Project Leader(1) | \$ 27.66 | 60.0 | \$ 27.66 | \$ 1,659.33 | 48.00% | \$ 796.48 | 60.0 | \$ 27.66 | \$ 1,659.33 | 48.00% | \$ 796.48 |
| 2 | 2 | Biologist(4) | \$ 22.91 | 240.0 | \$ 22.91 | \$ 5,497.73 | 68.00% | \$ 3,738.46 | 240.0 | \$ 22.91 | \$ 5,497.73 | 68.00% | \$ 3,738.46 |
| 3 | 2 | Technician(s)(12) | \$ 16.36 | 420.0 | \$ 16.36 | \$ 6,871.20 | 8.77% | \$ 602.60 | 420.0 | \$ 16.36 | \$ 6,871.20 | 8.77% | \$ 602.60 |
| 4 | 3 | Project Leader(1) | \$ 27.66 | 20.0 | \$ 27.66 | \$ 553.11 | 48.00% | \$ 265.49 | 20.0 | \$ 27.66 | \$ 553.11 | 48.00% | \$ 265.49 |
| 5 | 3 | Biologist(4) | \$ 22.91 | 140.0 | \$ 22.91 | \$ 3,207.01 | 68.00% | \$ 2,180.77 | 140.0 | \$ 22.91 | \$ 3,207.01 | 68.00% | \$ 2,180.77 |
| 6 | 3 | Technician(s)(12) | \$ 16.36 | - | \$ 16.36 | \$ - | 8.77% | \$ - | - | \$ 16.36 | \$ - | 8.77% | \$ - |
| 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 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 26 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 27 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 28 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 29 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 30 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 31 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| | | | | 880.00 | | \$ 17,788.38 | | \$ 7,583.80 | 880.00 | | \$ 17,788.38 | | \$ 7,583.80 |

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

| | |
|----------------------|-------|
| Yr 3 Escalation Rate | 2.00% |
|----------------------|-------|

| | |
|----------------------|-------|
| Yr 4 Escalation Rate | 2.00% |
|----------------------|-------|

| | Task # or Description | 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 | 2 | Project Leader(1) | \$ 27.66 | 60.0 | \$ 28.21 | \$ 1,692.52 | 48.00% | \$ 812.41 | 60.0 | \$ 28.77 | \$ 1,726.37 | 48.00% | \$ 828.66 |
| 2 | 2 | Biologist(4) | \$ 22.91 | 240.0 | \$ 23.37 | \$ 5,607.68 | 68.00% | \$ 3,813.22 | 240.0 | \$ 23.83 | \$ 5,719.84 | 68.00% | \$ 3,889.49 |
| 3 | 2 | Technician(s)(12) | \$ 16.36 | 420.0 | \$ 16.69 | \$ 7,008.62 | 8.77% | \$ 614.66 | 420.0 | \$ 17.02 | \$ 7,148.80 | 8.77% | \$ 626.95 |
| 4 | 3 | Project Leader(1) | \$ 27.66 | 20.0 | \$ 28.21 | \$ 564.17 | 48.00% | \$ 270.80 | 20.0 | \$ 28.77 | \$ 575.46 | 48.00% | \$ 276.22 |
| 5 | 3 | Biologist(4) | \$ 22.91 | 140.0 | \$ 23.37 | \$ 3,271.15 | 68.00% | \$ 2,224.38 | 140.0 | \$ 23.83 | \$ 3,336.57 | 68.00% | \$ 2,268.87 |
| 6 | 3 | Technician(s)(12) | \$ 16.36 | - | \$ 16.69 | \$ - | 8.77% | \$ - | - | \$ 17.02 | \$ - | 8.77% | \$ - |
| 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 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 26 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 27 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 28 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 29 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 30 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| 31 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | - | \$ - | \$ - | 0.00% | \$ - |
| | | | | 880.00 | | \$ 18,144.14 | | \$ 7,735.47 | 880.00 | | \$ 18,507.03 | | \$ 7,890.18 |

SUMMARY OF DIRECT LABOR & FRINGE BENEFITS

| | |
|----------------------|-------|
| Yr 5 Escalation Rate | 2.00% |
|----------------------|-------|

| | | | | YEAR 5 | | | | | | | |
|-----------------------|----------------|---------------------|------------|---------------|-------------|---------------------|-------------|--------------------|---------------------|---------------------|----------------------|
| | | | | 10/1/2025 | | Through | 9/30/2026 | | Total Salary Cost | Total Fringe Cost | Total Labor Cost |
| Task # or Description | Position Title | Current Hourly Rate | # of Hours | Hourly Rate | Salary Cost | Fringe Rate | Fringe Cost | | | | |
| 1 | 2 | Project Leader(1) | \$ 27.66 | 60.0 | \$ 29.35 | \$ 1,760.89 | 48.00% | \$ 845.23 | \$ 8,498.44 | \$ 4,079.25 | \$ 12,577.69 |
| 2 | 2 | Biologist(4) | \$ 22.91 | 240.0 | \$ 24.31 | \$ 5,834.23 | 68.00% | \$ 3,967.28 | \$ 28,157.21 | \$ 19,146.90 | \$ 47,304.11 |
| 3 | 2 | Technician(s)(12) | \$ 16.36 | 420.0 | \$ 17.36 | \$ 7,291.77 | 8.77% | \$ 639.49 | \$ 35,191.59 | \$ 3,086.30 | \$ 38,277.90 |
| 4 | 3 | Project Leader(1) | \$ 27.66 | 20.0 | \$ 29.35 | \$ 586.96 | 48.00% | \$ 281.74 | \$ 2,832.81 | \$ 1,359.75 | \$ 4,192.56 |
| 5 | 3 | Biologist(4) | \$ 22.91 | 140.0 | \$ 24.31 | \$ 3,403.30 | 68.00% | \$ 2,314.25 | \$ 16,425.04 | \$ 11,169.03 | \$ 27,594.06 |
| 6 | 3 | Technician(s)(12) | \$ 16.36 | - | \$ 17.36 | \$ - | 8.77% | \$ - | \$ - | \$ - | \$ - |
| 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 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | \$ - | \$ - | \$ - |
| 26 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | \$ - | \$ - | \$ - |
| 27 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | \$ - | \$ - | \$ - |
| 28 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | \$ - | \$ - | \$ - |
| 29 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | \$ - | \$ - | \$ - |
| 30 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | \$ - | \$ - | \$ - |
| 31 | | | \$ - | - | \$ - | \$ - | 0.00% | \$ - | \$ - | \$ - | \$ - |
| | | | | 880.00 | | \$ 18,877.17 | | \$ 8,047.98 | \$ 91,105.09 | \$ 38,841.23 | \$ 129,946.32 |

SUMMARY OF MATERIALS AND SUPPLIES

| | 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 | Monthly fleet rental (3 trucks, 1 month) | Based on previous experience & SOWs | \$ 500.00 | 3.00 | \$ 1,500.00 | \$ 500.00 | 3.00 | \$ 1,500.00 |
| 2 | 2 | Mileage costs (1000 miles) | Based on previous experience & SOWs | \$ 0.40 | 1.00 | \$ 0.40 | \$ 0.40 | 1.00 | \$ 0.40 |
| 3 | 2 | Shuttle costs (2) | Based on previous experience & SOWs | \$ 200.00 | 2.00 | \$ 400.00 | \$ 200.00 | 2.00 | \$ 400.00 |
| 4 | 2 | Camping materials and gear | Based on previous experience & SOWs | \$ 1,000.00 | 0.50 | \$ 500.00 | \$ 1,000.00 | 0.50 | \$ 500.00 |
| 5 | 2 | Sampling materials and gear | Based on previous experience & SOWs | \$ 1,000.00 | 1.00 | \$ 1,000.00 | \$ 1,000.00 | 1.00 | \$ 1,000.00 |
| 6 | 2 | Boating materials, gear and fuel | Based on previous experience & SOWs | \$ 1,000.00 | 2.50 | \$ 2,500.00 | \$ 1,000.00 | 2.50 | \$ 2,500.00 |
| 7 | 3 | Monthly fleet rental (1 truck, 1 month) | Based on previous experience & SOWs | \$ 500.00 | 1.00 | \$ 500.00 | \$ 500.00 | 1.00 | \$ 500.00 |
| 8 | 3 | Mileage costs (250 miles) | Based on previous experience & SOWs | \$ 0.40 | 250.00 | \$ 100.00 | \$ 0.40 | 250.00 | \$ 100.00 |
| 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: | | | | | | \$ 6,500.40 | | | \$ 6,500.40 |

SUMMARY OF MATERIALS AND SUPPLIES

| | Task # or Description | Item Description | Year 3 | | | Year 4 | | |
|----|-----------------------|--|-------------|---------------|--------------------|-------------|---------------|--------------------|
| | | | Unit Price | Unit Quantity | Subtotal | Unit Price | Unit Quantity | Subtotal |
| 1 | 2 | Monthly fleet rental (3 trucks, 1 month) | \$ 510.00 | 3.00 | \$ 1,530.00 | \$ 520.20 | 3.00 | \$ 1,560.60 |
| 2 | 2 | Mileage costs (1000 miles) | \$ 0.41 | 1.00 | \$ 0.41 | \$ 0.42 | 1.00 | \$ 0.42 |
| 3 | 2 | Shuttle costs (2) | \$ 204.00 | 2.00 | \$ 408.00 | \$ 208.08 | 2.00 | \$ 416.16 |
| 4 | 2 | Camping materials and gear | \$ 1,020.00 | 0.50 | \$ 510.00 | \$ 1,040.40 | 0.50 | \$ 520.20 |
| 5 | 2 | Sampling materials and gear | \$ 1,020.00 | 1.00 | \$ 1,020.00 | \$ 1,040.40 | 1.00 | \$ 1,040.40 |
| 6 | 2 | Boating materials, gear and fuel | \$ 1,020.00 | 2.50 | \$ 2,550.00 | \$ 1,040.40 | 2.50 | \$ 2,601.00 |
| 7 | 3 | Monthly fleet rental (1 truck, 1 month) | \$ 510.00 | 1.00 | \$ 510.00 | \$ 520.20 | 1.00 | \$ 520.20 |
| 8 | 3 | Mileage costs (250 miles) | \$ 0.41 | 250.00 | \$ 102.00 | \$ 0.42 | 250.00 | \$ 104.04 |
| 15 | | | \$ - | | \$ - | \$ - | | \$ - |
| 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 | \$ - |
| | | | | | \$ 6,630.41 | | | \$ 6,763.02 |

SUMMARY OF MATERIALS AND SUPPLIES

| | Task # or Description | Item Description | Year 5 | | | TOTAL |
|----|-----------------------|--|-------------|---------------|--------------------|---------------------|
| | | | Unit Price | Unit Quantity | Subtotal | |
| 1 | 2 | Monthly fleet rental (3 trucks, 1 month) | \$ 530.60 | 3.00 | \$ 1,591.81 | \$ 7,682.41 |
| 2 | 2 | Mileage costs (1000 miles) | \$ 0.42 | 1.00 | \$ 0.42 | \$ 2.05 |
| 3 | 2 | Shuttle costs (2) | \$ 212.24 | 2.00 | \$ 424.48 | \$ 2,048.64 |
| 4 | 2 | Camping materials and gear | \$ 1,061.21 | 0.50 | \$ 530.60 | \$ 2,560.80 |
| 5 | 2 | Sampling materials and gear | \$ 1,061.21 | 1.00 | \$ 1,061.21 | \$ 5,121.61 |
| 6 | 2 | Boating materials, gear and fuel | \$ 1,061.21 | 2.50 | \$ 2,653.02 | \$ 12,804.02 |
| 7 | 3 | Monthly fleet rental (1 truck, 1 month) | \$ 530.60 | 1.00 | \$ 530.60 | \$ 2,560.80 |
| 8 | 3 | Mileage costs (250 miles) | \$ 0.42 | 250.00 | \$ 106.12 | \$ 512.16 |
| 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 | \$ - | \$ - |
| | | | | | \$ 6,898.26 | \$ 33,292.49 |

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 | Task 2. LGR, LCR Sampling | Task 2. LGR, LCR Sampling | Task 2. LGR, LCR Sampling | Task 2. LGR, LCR Sampling | Task 2. LGR, LCR Sampling | |
| Reason | Field Work | Field Work | Field Work | Field Work | Field Work | |
| # of Days (include travel days) | 4 | 4 | 4 | 4 | 4 | |
| Airfare | \$ - | \$ - | \$ - | \$ - | \$ - | |
| Lodging (Per Night) | \$ - | \$ - | \$ - | \$ - | \$ - | |
| MI&E Per Day | \$ 35.00 | \$ 35.00 | \$ 35.70 | \$ 36.41 | \$ 37.14 | |
| Auto Rental Per Day | \$ - | \$ - | \$ - | \$ - | \$ - | |
| Misc Costs/Adjustments/Trip | \$ - | \$ - | \$ - | \$ - | \$ - | |
| Total Per Trip | \$ 140.00 | \$ 140.00 | \$ 142.80 | \$ 145.66 | \$ 148.57 | |
| No. of persons | 4 | 4 | 4 | 4 | 4 | |
| No. of trips | 2 | 2 | 2 | 2 | 2 | |
| SUBTOTAL = | \$ 1,120.00 | \$ 1,120.00 | \$ 1,142.40 | \$ 1,165.25 | \$ 1,188.55 | \$ 5,736.20 |

| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | TOTAL |
|-------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| TOTAL COST BY PERIOD = | \$ 1,120.00 | \$ 1,120.00 | \$ 1,142.40 | \$ 1,165.25 | \$ 1,188.55 | \$ 5,736.20 |