

**STATEMENT OF OBJECTIVES
DRY CREEK
RIPARIAN RESTORATION MANAGEMENT
NATURAL RESOURCES PROGRAM,
BEALE AIR FORCE BASE, CALIFORNIA**

Cooperative Ecosystems Studies Unit (CESU) Cooperative Agreement

1.0 PURPOSE

1.1 The Beale Air Force Base (Beale AFB) environmental program ensures military mission activities are conducted in compliance with all applicable environmental laws, regulations and policies with cooperation and assistance from the Air Force Civil Engineer Center's (AFCEC) Travis Installation Support Section (ISS).

1.2 This work requires on-site and off-site support for a large field project at Beale AFB. The work shall involve natural resource management activities, field surveys, reporting, coordination, travel to and from Beale AFB for off-site personnel, attendance at meetings, project management, and GIS data management.

2.0 DESCRIPTION OF OBJECTIVES

Conduct tasks in accordance with this Description of Objectives, as prioritized by AFCEC ISS Project Manager (PM) and Base Natural Resources Manager (NRM). Only work aligned with the original Air Force (AF) ACES programming and approved by the AFCEC ISS PM should be completed as part of this task order (TO).

Travel, Coordination, and Project Management for all tasks is as follows:

Travel: Provide transportation and fuel for all non-federal entity (NFE) staff to get to and from all field sites. Retain current proof of insurance, current registration, and REAL ID-compliant driver's licenses for all modes of transportation.

Coordination: Coordinate concurrently with the Base NRM, AFCEC Travis ISS, and USACE PM. All work shall be approved by the AFCEC and be consistent with the Project Schedule & Work Plan (Deliverable 8.3) approved by the Base NRM. Schedule changes will be jointly made by the Base NRM, AFCEC Travis ISS, and US Army Corps of Engineers (USACE) PM and align with the Sikes Act-compliant INRMP and original ACES programming. Any changes in scope or cost must be approved by the USACE Grants Officer. All coordination with state and federal regulators will be by the Base NRM or AFCEC ISS only.

Table 1. SubTask 2.1

Fiscal Year	Project Number	Title	Location
2021	BAEYA53217118	Mgt, Habitat	Beale AFB
2022	BAEYA53227118	Mgt, Habitat	Beale AFB

2023	BAEYA53237118	Mgt, Habitat	Beale AFB
2024	BAEYA53247118	Mgt, Habitat	Beale AFB
2025	BAEYA53257118	Mgt, Habitat	Beale AFB

2.1 MGT, HABITAT, CENTRAL VALLEY STEELHEAD

Plan, inventory, survey, monitor and manage the riparian restoration efforts in and around Dry Creek and Best Slough on Beale AFB through watering, planting, and invasive species control to improve habitat conditions for the Central Valley steelhead, federally-listed under the Endangered Species Act, as well as Chinook salmon and other sensitive species. Additionally, improve public education about the riparian ecosystem and associated fish and wildlife species on the base, and plan revised nature trails to encourage non-consumptive outdoor recreational opportunities in these areas.

2.1.1 The project is intended to meet portions of ongoing efforts towards the following Goals and Objectives of the Beale AFB INRMP (INRMP 2019):

- GOAL 2: MAINTAIN/INCREASE POPULATIONS OF SPECIAL-STATUS SPECIES AND IMPROVE HABITAT CONDITIONS.
 - OBJECTIVE 2.4: Improve habitat conditions for special-status species.
 - Project 2.4.1: Participate in regional planning and restoration efforts for Dry Creek to enhance habitat conditions for Central Valley steelhead and other fish and wildlife species.
- GOAL 3: PROTECT AND MANAGE WETLANDS, FLOODPLAINS AND RIPARIAN ZONES IAW CURRENT LAWS, REGULATIONS, AND MITIGATION OBLIGATIONS.
 - OBJECTIVE 3.2: Preserve, restore, and enhance existing wetland-associated vegetation communities (e.g., riparian forest, riparian scrub, tule marsh)
 - Project 3.2.1: Develop and implement drainage associated riparian restoration design when needed as compensatory mitigation under 404 CWA permits.
 - Project 3.2.2: Conduct tree plantings and follow-on maintenance and monitoring; ensure all projects are IAW the Riparian Restoration Conceptual Design Plan.
 - Project 3.2.3: Implement required compensatory mitigation and monitoring plan required under 404/401 Permits for the Salmonid Creek Restoration Project
 - Project 3.2.4: Conduct stream bed restoration in areas where it will improve flood control.
- GOAL 4: IMPROVE MANAGEMENT PRACTICES AND ENHANCE HABITAT FOR FISH, WILDLIFE AND PLANT SPECIES ON BEALE AFB.
 - OBJECTIVE 4.8: Protect and restore native vegetative communities, increase coverage of native vegetation base-wide, and connectivity with off-base habitat.

- Project 4.8.1: Continue to expand valley oak riparian woodland restoration efforts along the base creeks IAW riparian restoration plan and oak restoration plan.
 - Project 4.8.3: Enhance shaded riverine aquatic habitat along Dry Creek/Best Slough.
- **GOAL 5: MAINTAIN, ENHANCE, AND EXPAND OUTDOOR RECREATIONAL OPPORTUNITIES TO SERVE THE NEEDS OF THE BASE POPULATION.**
 - Project 5.1.2: Plan and implement nature trail renovation and expansion along Dry Creek and at Candy Cane Park (Section 7.2.3.2).

2.1.2 Specific tasks to be accomplished include:

- Follow up maintenance and monitoring from the Beale Dam Removal Project in 2020
 - Maintain existing 100 restoration plantings on ~50-acre site through watering, weed control, and herbivory protections.
 - Design, produce, and install up to 5 educational signs as required by NMFS permit for the Dam Removal Project
 - Address erosion issues at the restoration site, as needed
 - Perform invasive plant species control within the entire project site
- Expand restoration to more completely restore the site of the Beale Dam Removal Project in 2020
 - Maintain all new restoration plantings through watering, weed control, and herbivory protections.
- Expand riparian restoration of the Dry Creek and Best Slough areas
 - Continue to expand valley oak riparian woodland restoration efforts along Dry Creek and Best Slough IAW the riparian restoration plan and oak restoration plan
 - Enhance shaded riverine aquatic habitat along Dry Creek/Best Slough
- Plan/design natural trail enhancements, renovation, and expansion along Dry Creek and at Candy Cane Park.

3.0 QUALIFICATIONS

4.1 Requires advanced experience in riparian restoration.

4.0 GOVERNMENT FURNISHED MATERIALS OR PROPERTY

4.2 Government furnished materials or property is governed by 2 C.F.R. Part 200.312 which states that a) Title to federally owned property remains vested in the Federal government. The NFE must annually submit an inventory listing of federally owned property in its custody to the Federal awarding agency. Upon completion of the Federal award or when the property is no longer needed, the non-Federal entity must

return the property to the Federal awarding agency for further Federal agency utilization.

5.0 OPTIONS

Annual optional periods are anticipated.

6.0 PERIOD OF PERFORMANCE

6.1 BASE PERIOD: The period of performance is **14 months**, covering 12 months of field work and data collection with an additional 2 months for reporting; 1 June 2021 to 31 July 2022

6.2 OPTIONAL PERIODS:

Option Year 1 (FY22): 1 June 2022 to 31 July 2023

Option Year 2 (FY23): 1 June 2023 to 31 July 2024

Option Year 3 (FY24): 1 June 2024 to 31 July 2025

Option Year 4 (FY25): 1 June 2025 to 31 July 2026

7.0 COORDINATION

USACE POC

Primary: Kali Evans, PM, 402-995-2295, Kali.L.Evans@usace.army.mil

Alternate: David Leptien, PM, 402-995-2742, david.b.leptien@usace.army.mil

AFCEC Travis Installation Support Section, Natural Resources, AFCEC/CZOW

Primary: Kirsten Christopherson, 707-424-8622, kirsten.christopherson@us.af.mil

Alternate: Deanne Weber, 707-424-8627, deanne.weber@us.af.mil

Beale Air Force Base, Natural Resources Manager, 9 CES/CEIEC

Tamara Gallentine, 530-634-2738, tamara.gallentine.2@us.af.mil

8.0 DELIVERABLES

8.1 Progress Reports - One (1) typed letter report describing progress on the project. The report shall be due as of the last day of the third month (quarterly) and shall be transmitted via electronic mail no later than the 10th calendar day following the end of the reporting period. Invoices for partial payment shall be submitted to coincide with receipt of the quarterly progress reports. No partial payment will be approved unless the government has received all progress reports which are due.

8.2 Monthly Progress Agenda, Reports & Meeting Minutes - One (1) typed report describing progress on the project. The report shall be due two days before the scheduled monthly meeting and shall be transmitted via electronic mail. Meeting minutes are due within 2 days following the monthly meeting to include a summary of action items.

8.3 Project Schedule and Task Order Work Plan – Provide an electronic copy of a task order work plan and project schedule in table format. Should be concise yet communicate what will be performed and when. The schedule should break down the

work into sections with associated timetables. Document shall be reviewed at the monthly meetings to ensure we are on schedule.

- 8.4 Annual Inventory Federally Owned – Federally owned property - an annual inventory listing Federal property (to include description of the property, a serial number or other identification number) that is in the custody of the recipient; Copies to be sent to USACE – SWF, Beale AFB, and AFCEC/CZOW ISS.
- 8.5 Annual Inventory Acquired – Acquired Property purchased with funding from award - property records must be maintained that includes description of the property, serial number or other identification number, source of funding, who holds title, acquisition date, cost of property, percentage of Federal participation in project costs, location, use and condition of property, and ultimate disposition including date of disposal and sale price. A physical inventory must be taken, and results reconciled. Copies of the inventory to be sent annually to USACE – SWF and AFCEC ISS.
- 8.6 Draft Annual Project Report (Base Year + Option Years 1, 2, 3) - Electronic copies of draft reports should be submitted no later than four months before end of the project. All draft deliverables shall be reviewed by an experienced editor to fix any editorial issues. At a minimum, the reports shall contain an executive summary, introduction, methods, results, discussion, and recommendations section. Report should summarize work accomplished. Beale AFB and AFCEC Travis ISS staff will review and provide comments *within 30 calendar days after receipt*.
- 8.7 Final Annual Project Report (Base Year + Option Years 1, 2, 3) – Final deliverable shall be reviewed by an experienced editor to fix any editorial issues. Electronic copies of the final report, incorporating Beale and AFCEC Travis ISS review comments on the draft and shall be submitted no later than thirty (30) days after receipt of the government comments.
- 8.8 Draft Comprehensive Report (Option Year 4) - Electronic copies of draft reports should be submitted no later than four months before end of the project. All draft deliverables shall be reviewed by an experienced editor to fix any editorial issues. At a minimum, the reports shall contain an executive summary, introduction, methods, results, discussion, and recommendations section. Report should summarize all work accomplished over the 5-year effort. Beale AFB and AFCEC Travis ISS staff will review and provide comments *within 30 calendar days after receipt*.
- 8.9 Final Comprehensive Report (Option Year 4) - Final deliverable shall be reviewed by an experienced editor to fix any editorial issues. Electronic copies of the final report, incorporating Beale and AFCEC Travis ISS review comments on the draft and shall be submitted no later than thirty (30) days after receipt of the government comments.
- 8.10 PowerPoint Presentation – prepare a PowerPoint presentation on the project including project background from prior task orders for presentation as a professional conference.
- 8.11 GIS Deliverables – All tasks shall have at least one and likely several GIS deliverables that include all data layers used to create any and all maps within submitted deliverables. GIS deliverables shall include all new data collected throughout the course of the project. Draft GIS deliverables shall be submitted with draft reports that include their data, with final reports and GIS info submitted together. GIS deliverables must follow Air Force geospatial data standards, an adaptation of the SDSFIE 3.1x data model, as described in the data layer specifications (DLS)).

Deliverables must comply with the latest version which are updated annually. All metadata associated with data layers must meet the Federal Geographic Data Committee (FGDC) Content Standard for Digital Geospatial Metadata (CSDGM) revised in June 1998. Metadata must also include all content stated in the metadata section of each layer's DLS, which includes layer specific verbiage for attribute fields and definitions. Additional requirements include:

8.11.1 All submitted data must use at least one of the pre-defined 50 Natural Resource DLS listed below and most likely at least two. NFE shall review the complete list before field work begins to identify which layers are needed and identify them in the Annual Work Plan. Note that the collection of "negative" data is as important as "positive" data. Survey areas are a key part of the data set even if target species are not detected. [A =area, L = line, P = point.]

8.11.1.1	AgriculturalTract_A
8.11.1.2	CoastalZoneMgtArea_A
8.11.1.3	DispersedRecArea_A
8.11.1.4	EssentialFishHabitat_A
8.11.1.5	FaunaIncidentPoint_P
8.11.1.6	FireArea_A
8.11.1.7	FireBreakLine_L
8.11.1.8	FloodPlainArea_A
8.11.1.9	ForestCompartment_A
8.11.1.10	ForestMgtArea_A
8.11.1.11	ForestProductHarvest_A
8.11.1.12	ForestStand_A
8.11.1.13	FuelBreakLine_L
8.11.1.14	FuelMgtArea_A
8.11.1.15	HabitatProtectiveZone_A
8.11.1.16	HazSuppressionArea_A
8.11.1.17	HistoricRiverAlignment_L
8.11.1.18	LandCover_A
8.11.1.19	NatResRecFeature_P
8.11.1.20	NatResRestReclProj_A
8.11.1.21	NatResRestReclProj_P
8.11.1.22	NatResSurvey_A
8.11.1.23	NatResSurvey_L
8.11.1.24	NatResSurvey_P
8.11.1.25	NoxiousOrInvasiveSpecies_A
8.11.1.26	NoxiousOrInvasiveSpecies_L
8.11.1.27	NoxiousOrInvasiveSpecies_P
8.11.1.28	PrescribedBurnUnit_A
8.11.1.29	RecNatureTrail_L
8.11.1.30	SoilSurveyArea_A
8.11.1.31	SpecialMgtArea_A
8.11.1.32	SpecialStatusSpecies_A
8.11.1.33	SpecialStatusSpecies_L
8.11.1.34	SpecialStatusSpecies_P
8.11.1.35	SpeciesArea_A

- 8.11.1.36 SpeciesPoint_P
- 8.11.1.37 SpeciesSpecificHabitat_A
- 8.11.1.38 SpeciesSpecificHabitat_L
- 8.11.1.39 SpeciesSpecificHabitat_P
- 8.11.1.40 SurfaceRiparianArea_A
- 8.11.1.41 Vegetation_A
- 8.11.1.42 WaterBody_A
- 8.11.1.43 WatercourseLine_L
- 8.11.1.44 WaterFeature_A
- 8.11.1.45 Watershed_A
- 8.11.1.46 Wetland_A
- 8.11.1.47 Wetland_L
- 8.11.1.48 Wetland_P
- 8.11.1.49 WildlandUrbanInterfaceArea_A
- 8.11.1.50 WildlifeMgtArea_A

- 8.11.2 An empty, SDSFIE 3.1x compliant ArcView geodatabase is available for use as is an excel data dictionary. Absolutely no changes may be made to the structure. All formatting and attributes must align with the current template in order to be accepted by the AF and transferred to the official geodatabase. NFE shall discuss any concerns with the Base Geodatabase Manager and Travis ISS before work begins to find workarounds where fields aren't available to collect needed data.
- 8.11.3 NFE shall submit a geodatabase that includes only new data rows or existing data rows that have been changed so that they may easily be added to the official geodatabase.
- 8.11.4 NFE shall populate all fields within the tables. All data should comply with the DLS which often includes tables of available choices for each field. An excel data dictionary is also available.
- 8.11.5 NFE shall identify data errors for any DLS that they use and submit them with the final deliverables so that the AFCEC Travis ISS may work to change them in the next standards update. This shall include formatting restrictions that limit usefulness of existing fields or missing fields.
- 8.11.6 NFE shall ensure that any interrelated data layers are updated for any newly created data. For instance, if new wetlands are identified (Wetland_A) and suitability for listed branchiopods is determined during the survey, the corresponding data needs to be updated in the species layer as well (SpecialStatusSpecies_A). Even if suitability is not determined, the new wetland needs to be added to the species layer and noted as unknown suitability.

- 10.0 Any resulting cooperative agreement will be subject to and recipient/cooperator shall comply with 2 CFR 200.313 "Equipment", 200.314 "Supplies", and 200.315 "Intangible Property" which includes use of research data.

[End of SOO]