



DEPARTMENT OF THE ARMY
FORT WORTH DISTRICT, CORPS OF ENGINEERS
P.O. BOX 17300
FORT WORTH, TX 76102-0300

5 June 2024

**REQUEST FOR STATEMENT OF INTEREST
W9126G-24-2-SOI-3301**

*Applicants must be a member in one of the following Cooperative Ecosystem Studies Units
Regions:
Californian/Colorado Plateau*

Project Title: *Natural Resources Support – Beale AFB, CA*

A cooperative agreement is being offered ONLY to members of the Cooperative Ecosystem Studies Units (CESU) Program Region(s) identified above. Award will be made upon mutual agreement and acceptance of the terms and conditions contained in the request for proposal and the of the recipient's CESU Master Agreement. Note the established CESU Program indirect rate is 17.5%.

Responses to this Request for Statements of Interest will be used to identify potential organizations for this project. Approximately **\$899,050.00** is expected to be available to support this project for the **base period**. Additional funding may be available to the successful recipient for optional tasks and/or follow on work in subsequent years.

NOTE: This project will be awarded under the authority of 10 USC 670c-1, **Sikes Act**: For projects for the implementation and enforcement of integrated natural resources management plans, priority shall be given to award to Federal and State agencies having responsibility for the conservation or management of fish or wildlife.

Period of Performance. The base period of agreement will extend 18 months from date of award. There may be up to four 18-month follow-on periods based on availability of funding.

Description of Anticipated Work: See attached Statement of Objectives

NOTE: At this time we are only requesting that you demonstrate available qualifications and capability for performing similar or same type of work by submitting a Statement of Interest. A full proposal and budget are NOT requested at this time.

Preparation of your Statement of Interest: Provide the following (Maximum length: 2 pages, single-spaced, 12 pt. font):

1. Name, Organization, Cage Code, Unique Entity ID, and Contact Information (Email)
2. Brief Statement of Qualifications (including):
 - a. Biographical sketch of the Principal Investigator, to include specific experience and capabilities in areas related to this project's requirements

- b. Relevant past projects and clients with brief descriptions of these projects
- c. Staff, faculty or students available to work on this project and their areas of expertise
- d. Brief description of other capabilities to successfully complete the project: (e.g. equipment, laboratory facilities, greenhouse facilities, field facilities, etc.)

Submission of Your Statement of Interest

1. Statements of Interest are **due by 12:00 P.M., Central Time, on 15 July 2024.**
2. Submit your Statement of Interest via e-mail attachments or direct questions to:
Sandy Justman
Grants Specialist
USACE, Fort Worth District
Email: **Sandra.justman@usace.army.mil**
Office: 817-886-1073
David Leptien
Project Manager
USACE, Fort Worth District
Email: **david.b.leptien@usace.army.mil**
Office: 402-889-5570

Review of Statements Received: All statements of interest received from a member of the CESU Region(s) identified above will be evaluated by a board comprised of one or more people at the receiving installation or activity, who will determine which statement(s) best meet the program objectives: offer the most highly qualified Principal Investigator, have the most relevant experience and the highest capability to successfully meet the program objectives. Submitters whose statements are determined to best meet the program objectives will be invited to submit a full proposal.

Timeline for Review of Statements of Interest: RSOL's are required to be posted on www.Grants.gov for 30 days prior to the Government making a decision and requesting full proposals.

Thank you for your interest in our Cooperative Agreements Program.

Paige E. Poorman
Paige Poorman
Grants Officer

Attachment: Statement of Objectives

STATEMENT OF OBJECTIVES

NATURAL RESOURCES MANAGEMENT ACTIVITIES NATURAL RESOURCES PROGRAMS at BEALE AIR FORCE BASE POINT ARENA AIR FORCE STATION, 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 (AFCEC). Article I B of the master agreement states the objectives of the CESU are to: provide research, technical assistance and education to federal land management, environmental and research agencies and their potential partners; develop a program of research, technical assistance and education that involves the biological, physical, social sciences needed to address resource issues and interdisciplinary problem-solving at multiple scales and in an ecosystem context at the local, regional, and national level; and place with special emphasis on the working collaboration among federal agencies and universities and their related partner institutions.

1.2 This work requires full-time onsite support person(s) located at Beale AFB. This work also requires off-site support for less than full-time projects that are seasonal in nature and require limited fieldwork at Beale AFB, Lincoln Receiver Site, Point Arena Air Force Station, and the base's other geographically separated units (GSUs). The work shall involve natural resource management activities, field surveys, reporting, coordination, travel to and from Beale AFB and GSUs for off-site personnel, attendance at meetings, project management, and GIS data management.

2.0 AUTHORITY

Authority to enter into a Cooperative Agreements (CA) for the work: Section 670c-1, Title 16 United States Code, Sikes Act.

2.1 In agreement with the above stated goals, the recipient/cooperator agrees to provide the necessary personnel, equipment, and materials required to implement, in part, the Beale AFB responsibilities pursuant to the Endangered Species Act (16 USC 1531 et

seq.), the Sikes Act Improvement Act, the Migratory Bird Treaty Act (16 USC 1361 et seq.), the National Environmental Policy Act (42 U.S.C. 4321 et seq.), and applicable implementing regulations, such as Air Force Manual (AFMAN) 32-7003.

2.2 In accordance with section 6305 – *Using cooperative agreements* of the *Federal Grant and Cooperative Agreements Act of 1977* (31 U.S.C. § 6301 et seq.), In general, cooperative agreements must carry out a public purpose of support or stimulation, however under the authority of the Sikes Act (16 USC 670c-1 (c) (2)), notwithstanding chapter 63 of Title 31 (31 U.S.C. § 6301 et seq), a cooperative agreement under this section may be used to acquire property or services for the direct benefit or use of the United States Government.

Examples of carrying out a public purpose may include, but are not limited to, the following:

- Project results are made available to a wide audience (including nonfederal entities, NFE)
- Project results/outputs add to the scientific literature/knowledge base, with applicability and utility beyond the scope of the project footprint/study area
- Academic and other nonfederal partner institutions (and their personnel) gain professional experience, increase knowledge, and develop skills and abilities
- Students benefit from direct interaction with federal scientists, program and technical staff, and field unit managers

2.3 In accordance with section 6305 – *Using cooperative agreements* of the *Federal Grant and Cooperative Agreements Act of 1977* (31 U.S.C. § 6301 et seq.), substantial involvement is expected between the Department of Defense and the recipient when carrying out the activity contemplated by the cooperative agreement. The DoD agrees to participate at a national level in support of the CESU program as accepted in the Master MOU for the establishment and continuation of the CESU program Article II 1-4 and Article VI 1-7.

The AFCEC and installation further (hence DoD) agree to provide substantial involvement as directed under the appropriate master agreement to include, but are not limited to, the following:

- Beale AFB and AFCEC natural resources staff are involved in development of study methodology, data gathering, analysis, and/or report writing
- Beale AFB and AFCEC natural resources staff actively participate and collaborate in carrying out the project plan of work, review and approve activities, and help train or select project staff or trainees.
- Beale AFB and AFCEC natural resources staff incur in-kind or direct expenditures in carrying out the activities specified in the project agreement. Examples include, but are not limited to, the following:
 - Providing staff time to work on the project

3.0 DESCRIPTION OF OBJECTIVES

Conduct tasks in accordance with this Statement of Objectives, as prioritized by AFCEC PM and Base Natural Resources Manager (NRM).

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

Travel: Provide transportation and fuel for all NFE staff to get to and from all field sites. Retain current proof of insurance, current registration, and current REAL ID-compliant driver’s license for all modes of transportation.

Coordination: Coordinate concurrently with the Base NRM, AFCEC NRM, and USACE PM at a monthly Task Order review meeting. All work shall be IAW this SOO and be consistent with the Project Schedule & Work Plan (Deliverable 9.8) approved by the USACE PM, AFCEC NRM and Base NRM. Schedule changes can be made; trade-off decisions will be jointly made by the USACE PM, Base NRM and AFCEC NRM and align with the Sikes Act compliant INRMP and original RAM programming. Schedule should account for a government review period NTE 30 days. **The USACE Grants Officer must approve any changes in scope or cost.** All coordination with state and federal regulators will be by the Base NRM or AFCEC only. All NFEs conducting work under the Task Order should aim to attend the monthly meeting.

Project Management: Each task includes a section on level of effort specific to that task. A Task Order Project Manager should be assigned to coordinate across tasks, manage all personnel hired to complete work, and ensure all scoped objectives are completed under this TO on time. Level of effort for Task Order Project Management is expected to be at least 8 hours per week with an additional 500 hours as needed, generally at the beginning and end of the agreement period of performance and before and after monthly meetings. Project manager shall provide monthly meeting agenda, track and staff deliverables for government review, provide meeting notes, etc.

References: The NFE is responsible for reviewing relevant historic data, survey methodologies, and previous management recommendations from old reports for each task in Section 3.0. See Beale INRMP (2021) (or 2024 INRMP, update in progress), and Draft Point Arena Air Force Station INRMP (2024).

Table 1. See table footnote and Section 6.0 for Period of Performance.

SubTask #	Project Number	Project Title	Base Year Requirement (R=Reoccurring 1=One-Time)	Op 1	Op 2	Op 3	Op 4	Base
Beale AFB								
3.1 FUNDED	BAEYA53247118 BAEYA53257118 BAEYA53267118 BAEYA53277118 BAEYA53287118	Mgt, Habitat	R	x	x	x	x	Beale

SubTask #	Project Number	Project Title	Base Year Requirement (R=Reoccurring 1=One-Time)	Op 1	Op 2	Op 3	Op 4	Base
3.2 FUNDED	BAEYA53246120 BAEYA53256120 BAEYA53267119 BAEYA53277119 BAEYA53287119	Mgt, Species	R	x	x	x	x	Beale
3.3 FUNDED	BAEYA5324916 BAEYA5325916 BAEYA5326916 BAEYA5327916 BAEYA5328916	Monitor Wetlands	R	x	x	x	x	Beale
3.4 OPTION	BAEYA53246119 BAEYA53256119 BAEYA53266119 BAEYA53276119 BAEYA53286119	Mgt, Habitat	R	x	x	x	x	Beale
3.5 OPTION	BAEYA53246120 BAEYA53256120 BAEYA53266120 BAEYA53276120 BAEYA53286120	Mgt, Species	R	x	x	x	x	Beale
3.6 OPTION	BAEYA53246121 BAEYA53256121 BAEYA53266121 BAEYA53276121 BAEYA53286121	Mgt, Invasive Species	R	x	x	x	x	Beale
3.7 OPTION	BAEYA53246122 BAEYA53256122 BAEYA53266122 BAEYA53276122 BAEYA53286122	Mgt, Nuisance Wildlife	R	x	x	x	x	Beale
Point Arena AFS								
3.8 FUNDED	TKGPA53247119 TKGPA53257119 TKGPA53267119 TKGPA53277119 TKGPA53287119	Mgt, Species	R	x	x	x	x	Point Arena

SubTask #	Project Number	Project Title	Base Year Requirement (R=Reoccurring 1=One-Time)	Op 1	Op 2	Op 3	Op 4	Base
3.9 FUNDED	TKGPA5324915 TKGPA5325915 TKGPA5326915 TKGPA5327915 TKGPA5328915	Mgt, Wetlands/Floodplains	1*					Point Arena
3.10 OPTION	TKGPA53246119 TKGPA53256119 TKGPA53266119 TKGPA53276119 TKGPA53286119	Mgt, Habitat	R	x	x	x	x	Point Arena
3.11 OPTION	TKGPA53246120 TKGPA53256120 TKGPA53266120 TKGPA53276120 TKGPA53286120	Mgt, Species	1*	x				Point Arena
3.12 OPTION	TKGPA53246121 TKGPA53256121 TKGPA53266121 TKGPA53276121 TKGPA53286121	Mgt, Invasive Species	R	x	x	x	x	Point Arena

**The Base Year/Follow-On Periods in the table are an estimate. For projects that are not recurring every year, the work may be funded in a different year than is shown on this table.*

Base Period of Performance (R): 18-months (3 months administrative period to complete on-boarding of employees and subcontractors, 12-month technical period for conducting field work, 3 months administrative for completion of reports only with no new work)

One-Time Requirements (1) Period of Performance: 18-months

Follow-On Period of Performances (X or R): 18 months. Overlap in POPs is strictly administrative and includes on-boarding of employees and subcontracts before the start of work and completing of reports after completion of fieldwork.

Beale AFB

3.1 Management, Habitat [FUNDED]

3.1.1 Federally-Listed Species - Implement Biological Opinion Requirements

The NFE shall support the Natural Resources Program by providing administrative support, technical expertise, and field support to the natural resources program project planning and implementation, natural resources biological monitoring of Base projects, data collection, recordkeeping, wildlife surveys, and assistance on other sub-tasks, as needed.

Apply for, plan, implement, track, monitor compliance, and report on Endangered Species Act (ESA) consultations. To ensure proper ESA species management, provide GIS support to ensure consistent data collection methods and maintenance of NR geodatabase. Activities may include, but are not limited to the following INRMP projects:

- Conduct site-specific surveys daily to identify areas of potential conflict between mission projects and the protection of wetlands and special-status species. Suggest modifications to project design to avoidance or minimize impacts to resources.
- Conduct biological oversight and monitoring of routine mission activities and environmental awareness training for work crews.
- Monitor construction projects and sites for compliance with environmental regulations and construction Best Management Practices. Field monitoring should occur daily during the construction season. During the Limited Operations Period, any active construction sites should be checked a minimum of once/week or more often before, during, and after rain events.
- Perform maintenance on GIS files, ensuring consistent file organization and naming conventions. Coordinate closely with AFCEC GIS NFE.
- As new natural resources data are available, update existing layers. Coordinate closely with AFCEC GIS NFE.
- Perform annual environmental awareness training to users of off-road vehicles (e.g., Security Forces, Grounds Maintenance, Civil Engineer Shops, etc).
- Collect and report inspections and findings in a format that can efficiently be entered into eDASH/EASIER in support of the base's Environmental Management System (EMS) / Environmental Inspection Program (EIP). Track and follow up on corrective actions associated with findings.
- Assist in preparing Beale notices of violation to contractors regarding findings.
- Due to overlap in the natural resources, cultural resources, and storm water programs, the NFE will support these other programs by assisting CEIE staff on cultural resources and storm water protection during project planning, implementation, and project site inspections and reporting. While performing natural resources inspections, the NFE will also include on their overview checklist cultural resources and storm water inspection items. Any findings in those areas should be referred to the appropriate program manager for resolution.

Additional duties must be in direct support of ESA Section 7 compliance, and include:

- Conduct BO-required riparian maintenance and monitoring at the Four Bridges Bridge Replacement Site for 3 years following final construction contractor work at the site.
- Write reports required by Section 7 concurrence letters, Biological Opinions (BOs), or Programmatic BO (PBO).
- Track project related impacts and take by BO/PBO for inclusion in reports to USFWS. Outlined in individual BOs/PBO are specific elements that need tracking.
- Write Informal (not likely to adversely affect conclusions or NLAAs) and/or Formal Consultations (Biological Assessments, BAs) for select projects, prioritizing projects where CEI or CE is the proponent. CE projects that are not done in-house should pay for their own Section 7. Review all Section 7 document prepared by outside consultants to ensure consistency. Provide consultation templates to outside consultants.
- Review TRIRIGA Work Requests / Work Clearance / Environmental Impact Assessment documentation (aka 103s, 332s, 813s, EIAP, etc.) as requested by NRM to determine impacts to listed species.
- Complete Pre-Inspection Forms and file in the base's electronic folders
- Complete field inspections daily Monday-Friday; all active projects shall be inspected at least once per week to ensure compliance with Section 7 documentation; field reports shall be produced using the base's Inspection Form to include photos and a description of any issues found. Summary of inspections and any findings will be entered into the AF eDASH/EASIER database and tracked through closure.
- Prepare "fix-it tickets" and provide to base NRMs on the same business day.
- Due to overlap in the natural resources, cultural resources, and storm water programs, the NFE will support these other programs by assisting CEIE staff on cultural resources and storm water protection during project planning, implementation, and project site inspections and reporting. While performing natural resources inspections, the NFE will also include on their overview checklist cultural resources and storm water inspection items. Any findings in those areas should be referred to the appropriate program manager for resolution.
- Coordinate, organize, and maintain NR geodatabase.

Meetings: Attend monthly task order coordination meetings (up to 12/yr) and any project specific meeting if that project requires Section 7. The AFCEC NRM must approve attendance at other meetings to ensure work schedule is on time, the meeting topic is applicable to completion of Section 7 documentation, or attendance is necessary for base to remain in compliance with ESA.

Level of Effort: Requires 6,200 hours of administrative, field effort, and reporting annually by qualified individuals able to identify all sensitive and federally listed species in the field, analyze project impacts, and understand federal laws and permit requirements.

Requires 100 hours of reach back support with a Senior Ecologist with experience with California species and Biological Opinions. Requires extensive GIS support to meet BO requirements. When necessary, employ qualified person (s) that hold 10a1A permits for federally listed species that occur on Beale as they are required for some surveys. At least one qualified person shall have at least three years of GIS data management experience plus relevant education in GIS. Qualified person (s) shall be able to obtain Service-Approved Biologist designation through the USFWS for the Beale AFB Biological

Opinions. Provide at least one qualified biologist with wetland delineation capabilities. Each year, conduct follow-up activities to previous years' work and/or conduct work in new areas and/or conduct work on new mission support projects.

Outreach / Education / Training: Prepare training materials as needed on the Section 7 process, BO/PBO/NLAA requirements, etc. Provide training to base personnel as requested. NFE may attend any necessary trainings (up to 160 hours/PoP) related to enforcing and complying with the Endangered Species Act, species-specific trainings to improve existing expertise in species biology, and/or accompany other contractors who are conducting relevant ESA species fieldwork. (See Qualifications Section 4.0).

Materials, Supplies, and Equipment: Provide all materials required to conduct work. This includes vehicle(s) and a work trailer to house all on-site personnel, laptops, ArcGIS licenses, etc. at Beale AFB.

Resource Management Outcomes: Compliance with ESA Section 7 to include implementation and enforcement of existing BOs and NLAAs, identification of new projects requiring Section 7, and completion of Section 7 documentation (reports and new consultations), and completion of field monitoring checklists and enter/update findings in eDASH/EASIER database. Outcome includes compliance with federal law.

Deliverables (see Section 9.0 also): Draft and Final versions required in .pdf and .doc with responses to government comments if provided government comments in a matrix. Plan for government review period not to exceed (NTE) 30 days.

Deliverables	Due Date
1. USFWS Report(s) for active BOs or NLAAs	TBD
2. New BAs or NLAAs (as needed)	TBD
3. Updated List of Section 7 Activity	05 Dec (Sept-Nov reporting) 05 Mar (Dec-Feb reporting) 05 Jun (Mar-May reporting) 05 Sep (Jun-Aug reporting)
4. Weekly Report of Compliance Inspections (spreadsheet on eDASH), Inspection Forms, Fix-It Tickets (electronically in base's files)	End of each week
5. Quarterly Tracking Spreadsheet (list of meetings & trainings attended)	05 Dec (Sept-Nov reporting) 05 Mar (Dec-Feb reporting) 05 Jun (Mar-May reporting) 05 Sep (Jun-Aug reporting)
6. New Training Materials (as needed)	Within 30 days of completion and/or 15 July
7. Updated Annual GIS geodatabase	01 Oct (covers annual technical POP of 1

3.1.2 Lincoln Receiver Site Vernal Pool Grasslands Management

Complete support to the Natural Resources Program on management of grasslands and vernal pools (habitat for multiple federally-listed species) at the Lincoln Receiver Site, a geographically-separated unit (GSU). Use grazing with sheep and/or goats one time per year in the spring (May/June) to manage the grasslands and vernal pools at the 235-acre site. Conduct grazing management activities in accordance with 2017 Grazing Management Program Guidelines (Hopkinson, 2017) and the Beale AFB INRMP. Conduct annual Residual Dry Matter (RDM) monitoring twice per year to inform effectiveness of the management and adjust annual stocking rates.

Meetings: Attend monthly task order coordination meetings (up to 12/yr). Attend up to 2 meetings with base staff related to grazing at the Lincoln receiver Site.

Materials, Supplies, & Equipment: Provide all materials required to conduct work including any material required to complete the task.

Resource Management Outcomes: Manage grasslands and vernal pools at Beale’s geographically-separated unit to improve habitat for vernal pool species. Perform annual RDM monitoring. Resource outcomes include healthier ponds that provide improved habitat for federally listed species and compliance with ESA and CWA.

Deliverables (see Section 9.0 also): Draft and Final versions required in .pdf and .doc with responses to government comments if provided government comments in a matrix. Plan for government review period not to exceed (NTE) 30 days.

Deliverables	Due Date
8. LRS Grazing Study Draft/Final Report	1 March 2025
9. Annual Grazing Residual Dry Matter (RDM) Reports	01 Oct
10. Updated Annual GIS geodatabase	01 Oct (covers annual technical POP of 1 Sept-31 Aug)

3.2 Management, Species [FUNDED]

Federally-Listed Species Surveys / Monitoring / Management

Complete federally-listed, proposed, and candidate species survey, monitoring, and management activities to support revised 2024 INRMP goals and objectives. Species include, but are not limited to, Valley elderberry longhorn beetle (VELB), Central Valley steelhead, vernal pool fairy/tadpole shrimp, monarch butterfly, western pond turtle, western spadefoot, little brown bat, western yellow-billed cuckoo. Monitor as needed species that are not likely to be found on AF properties, but could migrate at some point, such as the giant garter snake and foothill yellow-legged frog.

Survey and monitoring activities may include, but are not limited to:

- Monitor each federally listed species as required under Biological Opinions or other agreements and for every project that may impact federally listed species.
- Conduct planning-level surveys in areas planned for future mission activities. List of locations to be determined later.
- Make annual efforts to implement survey and monitoring needs for at-risk species as outlined in INRMP Section 7.4.2.
 - Most species will be monitored every 2 years, unless specified otherwise.
 - Newly listed (or species proposed for federal listing) will be monitoring annually for 5 years to establish a baseline of presence or absence. If present, then monitoring would occur every 2 years. If absent, monitoring would reduce in frequency to once every 5 years.
- Vernal Pool Fairy Shrimp / Tadpole Shrimp – survey 500 acres per year; include the Lincoln Receiver Site, once grazing is reestablished at the site.
- Western yellow-billed cuckoo - Conduct surveys in mapped potential habitat every five years to follow trends
- Valley Elderberry Longhorn Beetle - Survey each elderberry shrub once within a 5-year period for presence of valley elderberry beetle. Investigate threats to habitat and potential protection and improvement measures. Conduct elderberry shrub mapping verification.
- Monarch Butterfly – survey known and new locations annually
- Western Pond Turtle - Surveys will be conducted to monitor populations in known locations and determine use of others ponds/streams where they have not been detected in the past. Update estimated nesting habitat GIS layer, as needed. Conduct pre- and post-relocation and pond project monitoring for projects with dam or pond modifications or improvements to determine the species' response. Monitoring of control sites required.
- Salmonids, Central Valley steelhead (Fall run) - Conduct a combination of eDNA and/or snorkel surveys in fall, winter, and spring up to 4 times per year (weather dependent) or as otherwise recommended by species experts.
- Western Spadefoot –survey at Beale AFB and the Lincoln Receiver Site annually. Surveys should be a combination of methods, such as dip netting in vernal pools (larval surveys), acoustic recordings, eDNA, and rainy night physical visual/acoustic surveys. Continue to refine the eDNA spadefoot collection protocol to account for spatial and temporal efficacy of eDNA detection.

Implement habitat management activities for federally listed species at Beale AFB. Align activities with the Resource Management Outcome below. Activities may include, but are not limited to:

- Make efforts to address significant management concerns (INRMP Section 7.4.6).
- Control and remove giant reed (*Arundo donax*) annually in Dry Creek to remove blockage to anadromous fish passage (steelhead) and prevent further spread of the plant.
- Western pond turtle (WPT):
 - Implement DoD WPT measures, as needed. Install/maintain pond basking structures, mow adjacent areas for access to nesting locations, study nesting behavior.
 - Re-locate western pond turtles from impoundments that will be drained during dam replacement or repair projects.

- Maintain flow in Reeds Creek through summer to support fed-listed and other species that use the area (e.g., western pond turtle, potential GGS habitat suitability (if the species were to migrate into the area))
- Listed crustacean awareness of base personnel
- Mosquito management impacts to vernal pools and listed crustaceans

Meetings: Attend monthly task order coordination meetings (up to 12/yr). Up to four task specific meetings expected. AFCEC NRM must approve attendance at other meetings to ensure work schedule is on time.

Level of Effort: Approximately 1,800 hours of field effort and reporting is expected per PoP by a biologist(s) who has experience identifying and surveying at-risk species that could occur on the base. Project management and ODCs are in addition to this effort. Effort is seasonal and variable based on target species. Each year, conduct follow-up activities to previous years’ work and/or conduct work in new areas.

Outreach / Education / Training: Prepare pamphlets/fliers as requested to help educate base residents and the public on sensitive species issues. Provide training to base personnel as requested (up to 4/PoP). No NFE training anticipated. (See Qualifications Section 4.0).

Materials, Supplies, and Equipment: Provide all materials, supplies, and equipment required to conduct work.

Resource Management Outcomes: Implement sensitive species monitoring and management needs from the 2024 INRMP. Desired outcome is to 1) understand threats to the species from mission activities, 2) identify management activities to benefit species populations, and 3) implement management strategies in order to provide a conservation benefit that decreases the likelihood of federal petitions or listing under the ESA.

Deliverables (see Section 9.0 also): Draft and Final versions required in .pdf and .doc with responses to government comments if provided government comments in a matrix. Plan for government review period not to exceed (NTE) 30 days.

Deliverables	Due Date
11. Annual Action Plan	05 Nov prior to commencement of field work and with enough time to apply for any needed permits
12. Sensitive Species Annual Activity Report	01 Oct
13. Quarterly Tracking Spreadsheet (list of meetings & trainings attended)	05 Dec (Sept-Nov reporting) 05 Mar (Dec-Feb reporting) 05 Jun (Mar-May reporting) 05 Sep (Jun-Aug reporting)
14. New Training Materials (as needed)	Within 30 days of completion and/or 15 July

15. Updated Annual GIS geodatabase	01 Oct (covers annual technical POP of 1 Sept-31 Aug)
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3.3 Monitor Wetlands [FUNDED]

Comply with Sections 404 and 401 of the Clean Water Act and NPDES Aquatic Weed Permit. Includes office and fieldwork required to implement 404/401 permit applications/permits. Review base projects to evaluate need for 404/401 permits. Prepare regulatory submittals for projects where CE and NR are the proponents, or other contracted construction projects, as needed. Conduct project-specific wetland verification or delineation for 404/401 applications. Implement requirements from existing permits. Implement NPDES Aquatic Weed Permit and perform needed tracking, monitoring, and reporting requirements not supported by Base F2F contract. Water quality monitoring and reporting, for instance, will be a F2F requirement. NPDES permit-required data sheets that require information about chemical application and weather conditions during the weed control event would be conducted under this Task Order. Activities may include, but are not limited to:

- Minimize potential impacts on wetlands resulting from routine land management activities (e.g., firebreak disking, prescribed burning).
- Review new projects (yet to be determined)
- Implement wetland hydrology studies (ground penetrating radar and levelloggers) at future project sites to inform future construction activity conservation measures
- Conduct wetland delineation/verification site visits to validate and/or update the base’s wetland GIS layer (LIDAR); prepare delineation data sheets for any needed changes, and support coordination for official changes to the GIS layer

Known CWA 404/NPDES permits that will require implementation, tracking, monitoring, and reporting:

- One or Two Culvert Replacement Projects 404/401 Permit (s) - unknown
- Tricolored Blackbird Habitat Restoration - 404/401 Permit oversight
- Flood Control/Pond Modification Projects
- NPDES Aquatic Weed Permit – requires spray event monitoring. Deconflict activities such as water quality sampling with the Beale F2F contract.

Meetings: Attend monthly task order coordination meetings (up to 12/yr). Attend meetings on mission project that require CWA Section 404/401 or NPDES Aquatic Weed Permit coverage. AFCEC NRM must approve attendance at other meetings to ensure work schedule is on time.

Level of Effort: Project requires approximately 800 hours for multiple disciplines: biologist with wetland delineation training and/or senior wetlands permitting specialist, senior hydrologist, GIS analysis, and technical editor. All should have familiarity of California wetlands. Hydrologist should be able to implement ground-penetrating radar and levelloggers to study wetlands. If a senior hydrologist is required, they should perform fieldwork only and should train additional biologists. Biologists should collect and maintain all data and complete analysis independent of the hydrologist. All reports shall be completed by biologists with appropriate skills. Specialists shall have experience delineating wetlands, interpreting Clean Water Act permitting requirements, and preparing technically sufficient documents.

Each year, conduct follow-up activities to previous years' work and/or conduct work in new areas and/or conduct work on a new mission project.

Outreach / Education / Training: Prepare pamphlets/fliers as requested to educate base personnel on CWA Section 404/401 requirements. Provide training to base personnel as requested (up to 2). NFE may attend (up to 40 hours/POP) CWA Section 404/401 specific training or wetland delineation related classes to include plant or soil identification classes (See Qualifications Section 4.0).

Materials, Supplies, and Equipment: Provide all materials, supplies, and equipment required to conduct work.

Resource Management Outcomes: Ensure compliance with CWA Section 404/401 and NPDES Aquatic Weed Permit.

Deliverables (see Section 9.0 also): Draft and Final versions required in .pdf and .doc with responses to government comments if provided government comments in a matrix. Plan for government review period not to exceed (NTE) 30 days.

Deliverables	Due Date
16. 404 Individual Permit Applications (as needed)	Within 60 days of receipt of a complete proposed action and maps
17. 404 Individual Permit Annual Reports for ACOE (as needed)	15 Nov (calendar year reports)
18. Project Specific Wetland Delineation Report(s) (as needed)	Within 30 days of completion of field work
19. Wetland Impact Report (s) (as needed)	01 Oct
20. Summary of Site Inspections (as needed)	01 Oct
21. Quarterly Tracking Spreadsheet (list of meetings & trainings attended)	05 Dec (Sept-Nov reporting) 05 Mar (Dec-Feb reporting) 05 Jun (Mar-May reporting) 05 Sep (Jun-Aug reporting)
22. New Training Materials (as needed)	Within 30 days of completion and/or 15 July
23. Annual GIS geodatabase	01 Oct (covers annual technical POP of 1 Sept-31 Aug)

3.4 Management, Habitat [OPTION]

3.4.1. Riparian Zone Management

Plan and implement riparian and pollinator habitat restoration projects. Perform monitoring and maintenance of existing riparian and pollinator planting sites. Oak restoration activities shall comply with guidance in the 2017 Grazing Management Program Guidelines (Hopkinson, 2017). Do not plant non-native species (except possibly as recommended for naturalized grasses in the Grazing Management Plan). Plant native species in ecologically appropriate areas only to maximize success of plantings and minimize impacts to existing resources. This task only applies to wildlands, not cantonment or landscaped areas. Activities may include, but are not limited to the following INRMP projects:

- Conduct tree plantings and follow-on maintenance and monitoring; ensure all projects are IAW the Riparian Restoration Conceptual Design Plan.
 - BO-required management and maintenance of plantings at the Four Bridges Bridge Replacement Site should be under Sub-Task 3.1.
- Replace and maintain wood duck boxes.
- Install, maintain, and monitor fish and wildlife habitat structures (e.g., quail roosts, dove nesting cones, blue bird boxes, and bat boxes).
- Maintain/expand the clinic pollinator restoration planting site using plants that are high value for pollinators.
- Monitor all restoration projects for three to five years to measure success of plantings and use by target wildlife (e.g. pollinators, monarchs). Incorporate lessons learned into future efforts.
- Continue to expand valley oak riparian woodland restoration efforts along the base creeks IAW oak restoration plan and riparian restoration plan, using process-based restoration techniques (but not overlapping locations with other Cooperative Agreement Task Orders).
- Initiate blue oak restoration and enhancement efforts on and around the saddle club, and other applicable locations across base.
- Enhance shaded riverine aquatic habitat along Dry Creek/Best Slough (but not overlapping locations with other Cooperative Agreement Task Orders).

Meetings: Attend riparian project-specific base meetings (up to 24/PoP). AFCEC NRM must approve attendance at other meetings to ensure work schedule is on time.

Level of Effort: Expect approximately 800 hours of field effort and reporting annually by a biologist who has experience with California’s riparian systems and riparian restoration techniques. Project management and ODCs are in addition to this effort. Each year, conduct follow-up activities to previous years’ work and/or conduct work in new areas.

Outreach / Education / Training: Prepare pamphlets and fliers as requested to help educate base residents, base personnel, and the public on INRMP related riparian management. Provide training to base personnel as requested. NFE may attend (up to 40 hrs/PoP) riparian habitat or species related trainings if related to planned work and/or accompany other contractors who are conducting relevant riparian fieldwork. (See Qualifications Section 4.0).

Materials, Supplies, & Equipment: Provide all materials required to conduct work.

Resource Management Outcomes: Sustain riparian habitats on the base to provide conservation benefits to federally listed species, state listed species, migratory birds, and/or at-risk species.

Deliverables (see Section 9.0 also): Draft and Final versions required in .pdf and .doc with responses to government comments if provided government comments in a matrix. Plan for government review period not to exceed (NTE) 30 days.

Deliverables	Due Date
24. Annual Riparian Habitat Activity Report	01 Oct

25. Quarterly Tracking Spreadsheet (list of meetings & trainings attended)	05 Dec (Sept-Nov reporting) 05 Mar (Dec-Feb reporting) 05 Jun (Mar-May reporting) 05 Sep (Jun-Aug reporting)
26. New Training Materials (as needed)	Within 30 days of completion and/or 15 July
27. Updated Annual GIS geodatabase	01 Oct (covers annual technical POP of 1 Sept-31 Aug)

3.4.2 Post-Fire Surveys and Rehabilitation

Complete a Burned Area Emergency Response (BAER) analysis that reports on each fire year’s wildfire affects to natural and cultural resources. Conduct pre- and post-habitat assessments and monitoring for prescribed fire activities. Implement recommendations from BAER reports to minimize the effects of wildland fire to important natural resources (listed species, species of concern, wetlands, rare and native plants, water quality, cultural resources, etc). Types of post-fire restoration work include follow-up treatments on previous wildland fires, invasive plant or erosion control to reduce immediate and/or long-term damage, re-contouring of wetlands, and native restoration plantings. Type of restoration is site dependent. Note that weed or erosion control measures may need to be implemented prior to the wet season as early as August. Provide needed support to AFCECs Wildland Fire Support Module. Activities may include, but are not limited to the following INRMP projects:

- Conduct a Burned Area Emergency Response (BAER) analysis after a wildfire and any prescribed burn and implement recommendations to minimize negative effects of wildland fire on water quality, wetland habitat, federally listed species, soil erosion, and invasive species cover. Complete follow-up treatments on historic wildland fire prescriptions, where needed, to address long-term damage from weeds or erosion.
- Likely to include federally listed species surveys for wetlands impacted by firefighting activities.
- Likely to require preparation of emergency Section 7 documentation to address firefighting activities.
- Create a pre- and post-prescribed fire monitoring protocol that targets and measures management goals/objectives. Conduct pre- and post- monitoring per protocol to measure success of prescribed burns. Conduct annual adaptive management review process of monitoring results to incorporate lessons-learned/data into prescribed burn plans, WFMP, fire monitoring protocol, and INRMP.
- Conduct annual check of firebreak wetland indicator tags before annual grading activity. Collect GIS data for wetland indicator tags (Section 7.7.9).
- Review firebreak maps and plans once every five years.
- Support the *AFCEC Wildland Fire Branch’s Wildland Fire Module* use of prescribed fire to meet conservation goals (EQ funded) or reduce fuel loading (CEO funded) in areas where it is compatible with smoke management or other guidelines. The cooperator shall:
 - Attend regulator meetings and coordinate with the Beale Fire Emergencies Services (FES) Office and AFCEC Wildland Support Module (WSM).
 - Provide natural resources permitting support for NR priorities implemented by FES / WSM including air permits.

- Review, select, and recommend prescribed burn priorities for the upcoming burn season. Review FES/WSM prepared prescribed burn plans.
- Assist the NRM with implementation of NR requirements in the Wildland Fire Management Plan.

Meetings: Attend monthly task order coordination meetings (up to 12/yr). Attend base meetings related to prescribed or wildfires, and prescribed burns. AFCEC NRM must approve attendance at other meetings to ensure work schedule is on time.

Level of Effort: Expect approximately 425 hours of field effort and reporting annually by a biologist who 1) is qualified to identify all special status natural resources that could occur on Beale and 2) is permitted to conduct listed species surveys including listed crustaceans. Project management and ODCs are in addition to this effort. Each year, conduct follow-up activities to previous years' work and/or conduct work in new areas.

Outreach / Education / Training: Prepare pamphlets and fliers as requested to help educate base residents and the public about prescribed fire and the use of fire as an important nature resources management tool. Provide training to base personnel as requested including firebreak training for Fire Department and Horizontal shop (2-4/PoP). No NFE training anticipated (see Qualifications Section 4.0).

Materials, Supplies, & Equipment: Provide all materials required to conduct work including any material required to complete invasive species or erosion control, vegetation surveys, and species sampling.

Resource Management Outcomes: Assess fire (wild or prescribed) impacts to natural resources, report on those effects and any associated management opportunities, and perform control and maintenance activities to address adverse effects and/or conduct restoration to capitalize on opportunities provided by fire. Resource outcomes include healthier annual grasslands that provide improved habitat for federally listed species and compliance with ESA and CWA.

Deliverables (see Section 9.0 also): Draft and Final versions required in .pdf and .doc with responses to government comments if provided government comments in a matrix. Plan for government review period not to exceed (NTE) 30 days.

Deliverables	Due Date
28. Annual BAER Reports	Within 15 days of BAER survey and at least 30 days prior to the onset of the wet season
29. Annual BAER Implementation Reports	01 Oct
30. Fire Module Support Memo	01 Oct
31. Fire Training Materials (as needed)	Within 30 days of completion and/or 15 July
32. Updated Annual GIS geodatabase	01 Oct (covers annual technical POP of 1 Sept-31 Aug)

3.4.3 Pond Management and Maintenance

Complete support to the Natural Resources Program on management and maintenance of the dammed ponds on the base. The Civil Engineer Squadron has determined that many of the ponds are no longer needed and may choose to remove many ponds to reduce maintenance funding requirements. These ponds have become important habitat for many listed and non-listed species, and the base intends to move the management and maintenance of those ponds to the Natural Resources Program to manage them to prevent removal. This task will start with a study of all existing dammed ponds on the base, and determine which will be managed by the CES Operation Flight versus those that will be Sikes Act managed (or eventually ESA managed as more species become listed).

- **One-Time Project:** Prepare a concise study of ponds to determine responsible office (CEO or CEIE), pond condition, and management actions needed. Prepare updated GIS layers and an updated map for the INRMP.
- **Recurring Work:** Conduct Pond Management and Maintenance Activities in accordance with the plan

Meetings: Attend monthly task order coordination meetings (up to 12/yr). Attend up to 2 meetings with base staff related to ponds.

Level of Effort: Expect approximately 350 hours of field effort and reporting annually by a biologist. Project management and ODCs are in addition to this effort. Each year, conduct follow-up activities to previous years' work.

Materials, Supplies, & Equipment: Provide all materials required to conduct work including any material required to complete the task.

Resource Management Outcomes: Assess natural resources programs role in pond maintenance and management on the base. Perform annual monitoring and minor maintenance activities to address dam condition to maintain water. For larger maintenance needs, ensure this information is included in INRMP updates and future funding programming. Resource outcomes include healthier ponds that provide improved habitat for federally listed species and compliance with ESA and CWA.

Deliverables (see Section 9.0 also): Draft and Final versions required in .pdf and .doc with responses to government comments if provided government comments in a matrix. Plan for government review period not to exceed (NTE) 30 days.

Deliverables	Due Date
33. Pond Study Draft/Final Report	Within 180 days of task kick-off
34. Annual Management/Maintenance Reports	01 Oct
35. Updated Annual GIS geodatabase	01 Oct (covers annual technical POP of 1 Sept-31 Aug)

3.4.4 Tricolored Blackbird Habitat Restoration Monitoring

Complete monitoring, maintenance, and repairs of the Blackbird Marsh and Blackbird Basins habitat restoration sites in accordance with the Monitoring Plans developed for the sites by the construction contractor in 2024-2025 upon construction completion. Anticipated monitoring work under this agreement will start in Follow-On Period 1.

Meetings: Attend monthly task order coordination meetings (up to 12/yr).

Materials, Supplies, & Equipment: Provide all materials required to conduct work including any material required to complete the task.

Resource Management Outcomes: Manage Blackbird Basins and Blackbird Marsh Sites to maintain habitat for tricolored blackbirds, a state-listed species and DoD Mission-Sensitive Species.

Deliverables (see Section 9.0 also): Draft and Final versions required in .pdf and .doc with responses to government comments if provided government comments in a matrix. Plan for government review period not to exceed (NTE) 30 days.

Deliverables	Due Date
36. Tricolored Blackbird Habitat Restoration Monitoring/Maintenance Report Draft/Final Report	01 Oct
37. Updated Annual GIS geodatabase	01 Oct (covers annual technical POP of 1 Sept-31 Aug)

3.5 Management, Species [OPTION]

3.5.1 Sensitive Species Management

Complete non-migratory bird sensitive species management activities to support INRMP goals and objectives. Activities may include, but are not limited to:

- Monitor each state listed and other special status species (e.g. fall-run Chinook salmon, non-listed bats, Greene's legener, stinkbells) as required under law or agreement and for every project that may impact state listed species.
- Conduct assessment to determine threats to known stinkbell populations. Implement steps to protect stinkbells, if necessary to preserve populations.
- Make annual efforts to implement survey and monitoring needs for at-risk species as outlined in INRMP Section 7.4.2.
 - Western and Crotch's Bumble Bees - survey known and new locations annually
 - Large marble butterfly - survey known and new locations annually
 - Bats
 - Conduct annual general acoustic monitoring at minimum of 10 previously established points, following the NABat protocol in the summer; organize and submit data to the North American Bat Monitoring Program (NABat). Depending

on fundings and recommendations, consider adding additional monitoring points, or increasing the frequency of monitoring at the established points to quarterly.

- Little Brown Bat – Further study into acoustic monitoring of detections to determine when and where the species is present on the base
 - Western Red Bat - Targeted acoustic surveys in woodland habitats along Best Slough. Acoustic monitors will record for 30 days in each of May, July, and September every other year for five years (2020, 2022, 2024). Ongoing surveys will utilize the 2016 monitoring protocol developed for the base.
 - Pallid bat, Townsend’s big-eared bat - Areas known to be used by bats (as identified in reports since 2014, <10) will be surveyed once in late spring/summer and winter. If Pallids or Townsends are detected, review INRMP Section 7.4.6 for additional guidance on surveys.
 - Ringtail – No planned surveys unless a new mission activity is expected to affect habitat.
- Monitor drainages west of flightline during the fall and winter for Chinook salmon, and identify methods that can be used to prevent fish from entering artificial water channels onto the base.
 - Install, maintain, and monitor wildlife habitat enhancement structures for bats in areas where they will not increase Bird Air Strike Hazard (BASH) risk.

Meetings: Up to four task specific meetings expected. AFCEC NRM must approve attendance at other meetings to ensure work schedule is on time.

Level of Effort: Approximately 500 hours of field effort and reporting is expected per POP by a biologist(s) who has experience identifying and surveying at-risk species that could occur on the base. Project management and ODCs are in addition to this effort. Effort is seasonal and variable based on target species. Each year, conduct follow-up activities to previous years’ work and/or conduct work in new areas.

Outreach / Education / Training: Prepare pamphlets/fliers as requested to help educate base residents and the public on sensitive species issues. Provide training to base personnel as requested (up to 4/PoP). No NFE training anticipated. (See Qualifications Section 4.0).

Materials, Supplies, and Equipment: Provide all materials, supplies, and equipment required to conduct work.

Resource Management Outcomes: Implement sensitive species monitoring and management needs from the 2024 INRMP. Desired outcome is to 1) understand threats to the species from mission activities, 2) identify management activities to benefit species populations, and 3) implement management strategies in order to provide a conservation benefit that decreases the likelihood of federal petitions or listing under the ESA.

Deliverables (see Section 9.0 also): Draft and Final versions required in .pdf and .doc with responses to government comments if provided government comments in a matrix. Plan for government review period not to exceed (NTE) 30 days.

Deliverables	Due Date
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38. Annual Action Plan	05 Nov prior to commencement of field work and with enough time to apply for any needed permits
39. Sensitive Species Annual Activity Report	01 Oct
40. Quarterly Tracking Spreadsheet (list of meetings & trainings attended)	05 Dec (Sept-Nov reporting) 05 Mar (Dec-Feb reporting) 05 Jun (Mar-May reporting) 05 Sep (Jun-Aug reporting)
41. New Training Materials (as needed)	Within 30 days of completion and/or 15 July
42. Updated Annual GIS geodatabase	01 Oct (covers annual technical POP of 1 Sept-31 Aug)

3.5.2 Migratory Birds Management

Complete migratory bird management activities to support revised INRMP goals and objectives. Implement Avian Protection Plan. Activities may include, but are not limited to:

3.5.2.1 State-Listed Species

- Make efforts to address significant management concerns (INRMP Section 7.4.6).
- Monitor/survey for each state listed migratory bird (e.g., California Black Rail, Swainson’s hawk, Tricolored blackbird) as required under law or agreement and for every project that may impact state listed species.
- Survey for presence of Tricolored Blackbirds at locations identified as suitable habitat in the 2017 CIRE assessment (provided following award), Blackbird Marsh, Blackbird Basins, and other known locations.

3.5.2.2 At-risk, Non-Listed Species

- Make annual efforts to implement survey and monitoring needs for at-risk species as outlined in INRMP Section 7.4. USFWS to conduct winter raptor survey every year for all relevant species in this section: Bald Eagle, Golden Eagle, Greater Sandhill Crane, White-tailed Kite, Peregrine Falcon
- Maintain, update, and provide annual reporting on MBTA Special Purpose Utility Permit (SPUT). Fund rehab costs associated with injured birds taken to authorized rehab facility as required by SPUT. Complete annual reporting requirement to USFWS.
- Monitor avian electrocutions, perform study to prioritize high risk poles needing retrofit, purchase retrofit materials, and coordinate work with base Electric Shop.
- Provide updated training to the base Electric Shop at least once every two years.
- Install, maintain, and monitor wildlife habitat enhancement structures (e.g., raptor perches, artificial burrowing owl burrows, kestrel boxes and barn owl boxes) in areas where they will not increase BASH risk.

Meetings: Up to four task specific meetings expected. AFCEC NRM must approve attendance at other meetings to ensure work schedule is on time.

Level of Effort: Expect approximately 400 hours of field effort and reporting by PoP by a biologist(s) who has experience identifying and surveying avian species. Project management and ODCs are in addition to this effort. Effort is seasonal and based on avian activity scheduled, primarily in the spring and early summer. Some activity is required year-round. Each year, conduct follow-up activities to previous years' work and/or conduct work in new areas.

Outreach / Education / Training: Prepare pamphlets/fliers as requested to help educate base residents, applicable base operations and electrical personnel, and the public on migratory bird management strategies and requirements. Provide training to base personnel as requested (up to 4/PoP). No NFE training anticipated. (See Qualifications Section 4.0).

Materials, Supplies, and Equipment: Provide all materials, supplies, and equipment required to conduct work.

Resource Management Outcomes: Implement the APP. Collect data on migratory birds and otherwise complete migratory bird projects in the INRMP. Desired outcome is to 1) prevent migratory bird electrocutions, reducing the incidence of avian electrocution caused wildfires, 2) improve compliance with the Migratory Bird Treaty Act, and 3) improve management of migratory birds on Beale AFB.

Deliverables (see Section 9.0 also): Draft and Final versions required in .pdf and .doc with responses to government comments if provided government comments in a matrix. Plan for government review period not to exceed (NTE) 30 days.

Deliverables	Due Date
43. Annual Action Plan	05 Nov prior to commencement of field work and with enough time to apply for any needed permits
44. Migratory Bird Annual Activity Report	01 Oct
45. Quarterly Tracking Spreadsheet (list of meetings & trainings attended)	05 Dec (Sept-Nov reporting) 05 Mar (Dec-Feb reporting) 05 Jun (Mar-May reporting) 05 Sep (Jun-Aug reporting)
46. MBTA SPUT Annual Report	15 Jan
47. New Training Materials (as needed)	Within 30 days of completion and/or 15 July
48. Updated Annual GIS geodatabase	01 Oct (covers annual technical POP of 1 Sept-31 Aug)

3.6 Management, Invasive Species [OPTION]

Control the presence and spread of invasive species as described and directed in the prioritized work plans included as appendices to the Beale AFB Invasive Plant Species Management Guidelines (IPSMG), a component of the INRMP. Work Plans included under this task include Goatgrass, Riparian, and Early Detection and Rapid Response (EDRR plans). Focal species and areas for treatment include

barbed goat grass, giant reed in Dry Creek, blackberry in Reeds Creek, follow-up to previous treatments, and additional work as outlined in the work plans. Monitoring, data and geodatabase management, and reporting are key pieces of this project to ensure success of the program. Follow conservation measures as outlined in the IPSMG and Beale AFB Programmatic Biological Assessment (PBA) at all times. Confirm all applicable permits are in place before proceeding with activity (NEPA, Section 7, TRIRIGA Service Request, Base Work Clearance, and Clean Water Act (CWA)). If permits are not in place, NFE may work to update invasive species guidelines and plans.

- Manage and control other invasive species (yellow star-thistle, tree of heaven, etc.) IAW the IPSMG
- Requires success monitoring and data management, as outlined in the IPSMG. (See past Annual Activity Reports for an example.)
- Increase awareness of base residents and employees regarding proper management of native vegetation and the need to avoid the introduction and spread of nonnative plant species.
- Increase awareness of base residents and employees regarding risks posed by invasive wildlife and abandoned/feral pets.
- Eliminate incipient populations of new invasive species by implementing a rapid response protocol per the IPSMG and new work plans.
- Focus on monitoring and treatment on sites post-construction
- Work shall include any new species not listed in current plans if found on the installation and determined to be a threat to natural resources or mission activities.
- Select pesticides/herbicides that have the lowest possible toxicity, degrade rapidly in the environment, minimize exposure to non-target organisms, and do not contribute to nonpoint-source pollution.

Meetings: Attend invasive species-specific base meetings (up to 15/PoP). AFCEC NRM must approve attendance at other meetings to ensure work schedule is on time.

Level of Effort: Expect approximately 2,000 hours of field effort and reporting per PoP by biologists who have experience with California's invasive species, control techniques (mechanical and chemical). Project management and ODCs are in addition to this effort. **At least one project biologist shall hold and maintain state certifications to apply herbicides.** Each year, conduct follow-up activities to previous years' work and/or conduct work in new areas.

Outreach / Education / Training: Prepare pamphlets/fliers as requested to help educate base residents and the public on invasive species ecological impacts and weed control. Provide training to base personnel as requested (up to two events). NFE may attend training (up to 40 hours/PoP) related to invasive species control, ecological impacts of weeds, and/or accompany other contractors who are conducting relevant invasive species control fieldwork. (See Qualifications Section 4.0).

Materials, Supplies, and Equipment: Provide all materials, supplies, and equipment required to conduct work.

Resource Management Outcomes: Control invasive species as planned in the IPSMG and associated appendices. Desired outcome is to provide conservation benefits to federal or state listed species, migratory birds, or species of concern.

Deliverables (see Section 9.0 also): Draft and Final versions required in .pdf and .doc with responses to government comments if provided government comments in a matrix. Plan for government review period not to exceed (NTE) 30 days.

Deliverables	Due Date
49. Annual Action Plan (outline specific locations and methods for upcoming field season)	Due 05 Nov prior to commencement of field work and with enough time to apply for any needed permits
50. IPSMG Annual Implementation Report (include subsections for each work plan that's implemented; report should be cumulative and compare success to data from all prior years starting in 2014)	01 Oct
51. Quarterly Tracking Spreadsheet (list of meetings & trainings attended)	05 Dec (Sept-Nov reporting) 05 Mar (Dec-Feb reporting) 05 Jun (Mar-May reporting) 05 Sep (Jun-Aug reporting)
52. New Training/Educational Materials	Within 30 days of completion and/or 15 July
53. Updated Annual GIS geodatabase	01 Oct (covers annual technical POP of 1 Sept-31 Aug)

3.7 Management, Nuisance Wildlife [OPTION]

Manage, control, study, and monitor nuisance wildlife species and their habitat. Coordinate closely with the pest management shop and airfield BASH team. Implement the Beale AFB INRMP, Integrated Pest Management Plan, BASH Plan, IPSMG's BASH Work Plan (which targets reduction of wildlife around the airfield), and the Plan for Non-Native Red-Eared Slider and American Bullfrog Control. Species to be controlled include bullfrogs, red-eared sliders, and feral cats, which threaten federally proposed western pond turtle, at-risk species, and other native wildlife. Activities may include, but are not limited to:

- Manage/maintain pond leveler/modifications, water flow from off-base (Yuba County Water Agency), and monitor/manage beaver populations in Reed's Creek.
- Manage and control invasive species (yellow star thistle, tree of heaven, etc.) IAW the IPSMG, BASH Work Plan.
- Partner with CE Operations Flight to remove attractants in the airfield, approaches, or WEZ that are attractive to wildlife or pose a BASH hazard. Sites include the islands in Pond 4, trees along the approach, and beaver ponds in Reeds Creek.
- Partner with the Pest Shop to reduce or eliminate yellow star thistle (YST) around the airfield and Armenian (formerly Himalayan) blackberry along Reeds Creek.

- YST populations occur within and adjacent to mapped vernal pools and wetlands. Apply for applicable permits (NPDES Aquatic Weed Permit, Section 7) and implement all BMPs from the IPSMG.
- Develop and implement management recommendations for the control of nonnative aquatic wildlife in conjunction with habitat improvements for the western pond turtle.

Meetings: Attend nuisance species-specific base meetings (up to 12/PoP). AFCEC NRM must approve attendance at other meetings to ensure work schedule is on time.

Level of Effort: Expect approximately 850 hours of field effort and reporting annually by a biologist(s) who has experience with California’s non-native flora and fauna, control programs (trapping, euthanasia, mechanical, and chemical). Project management and ODCs are in addition to this effort. Biologists shall hold and maintain state certifications to apply herbicides. Effort is seasonal and based on control windows, typically late spring, late summer, and fall (with some exceptions). Each year, conduct follow-up activities to previous years’ work and/or conduct work in new areas.

Outreach / Education / Training: Prepare pamphlets/fliers as requested to help educate base residents and the public on nuisance species control and airfield habitat management strategies. Provide training to base personnel as requested (up to 2/PoP). NFE may attend training (up to 40 hours/yr) related to invasive species control, habitat restoration, BASH, and/or accompany other contractors who are conducting relevant fieldwork. (See Qualifications Section 4.0).

Materials, Supplies, and Equipment: Provide all materials, supplies, and equipment required to conduct work.

Resource Management Outcomes: Implement the IPSMG BASH Work Plan to reduce BASH hazards on the runway. Control feral and non-native animals. Desired outcome is to 1) reduce nuisance wildlife habitat suitability around the airfield and other mission infrastructure, and 2) reduce nuisance wildlife that predate federal or state listed species, migratory birds, or species of concern.

Deliverables (see Section 9.0 also): Draft and Final versions required in .pdf and .doc with responses to government comments if provided government comments in a matrix. Plan for government review period not to exceed (NTE) 30 days.

Deliverables	Due Date
54. Annual Action Plan (due before field work begins)	05 Nov prior to commencement of field work and with enough time to apply for any needed permits
55. Nuisance Wildlife Annual Activity Report	01 Oct
56. IPSMG BASH Work Plan Annual Implementation Report	01 Oct
57. Quarterly Tracking Spreadsheet (list of meetings & trainings attended)	05 Dec (Sept-Nov reporting) 05 Mar (Dec-Feb reporting) 05 Jun (Mar-May reporting)

	05 Sep (Jun-Aug reporting)
58. New Training Materials (as needed)	Within 30 days of completion and/or 15 July
59. Updated Annual GIS geodatabase	01 Oct (covers annual technical POP of 1 Sept-31 Aug)

Point Arena Air Force Station

The Air Force started the development of an Integrated Natural Resources Management Plan (INRMP) at Point Arena Air Force Station (a geographically separated unit assigned to Beale AFB) in 2021. Prior to this Plan, Point Arena AFS did not have an INRMP because it was an inactive property that the DAF was considering transferring to other government agencies. The DAF is continuing with property disposal, so all tasks are considered Optional. However, the site needs to be surveyed and managed until property transfer occurs, as it may take many years.

Point Arena AFS encompasses 150.65 acres, located approximately 11 miles east of Point Arena, California in Mendocino County. The Installation is composed of 80.9 acres that are owned and managed by the Department of the Air Force (DAF) and 69.75 acres of easements or land restrictions. The DAF-owned area consists of three properties: the main station (73.94 acres), ground-to-air transmitter receiver (GATR) facility (6.71 acres), and Rolling Brook pump station (0.25 acres). As the DAF does not manage the natural resources on the easements or land-restricted areas, the work within this scope is limited to the DAF-owned portions of the Installation unless a new mission activity is proposed to occur in the other areas requiring environmental review or permitting.

3.8 Management, Species [FUNDED]

One-time tasks:

- Conduct a habitat assessment with GIS mapping for federally-listed species.
- Develop a management plan for federally-listed species and their habitat (northern spotted owl, marbled murrelet, California red-legged frog, salmonids, mountain beaver, and Pacific marten) to be incorporated into a future INRMP revision/update.
- After tasks above on data collection occur, develop an Endangered Species Act (ESA) Section 7 Programmatic Biological Assessment (PBA) to cover typical site activities, such as road maintenance, PG&E sub-station maintenance, installation of fuel breaks for fire prevention, and implementation of natural resources plans and projects (Wildland Fire Management Plan, Invasive Species Management Plan, Forest Management Plan).

Annually: Conduct surveys and implement management plan activities for federally-listed species listed above, as needed

- Federally-listed species surveys will occur annually for the first 5 years, and then reduce in frequency as determined by the INRMP and/or Section 7 consultations.
- Management activities will occur as described in the INRMP

Access: Because the site is remote and forested, all work at the site must be performed in pairs. The local Sheriff's department monitors the site frequently, and based on their findings, the DAF has determined that it is not safe for individuals to perform field work on the site alone. Additionally, there are locked gates and fences around the sites, so access will need to be coordinated with the AFCEC and Beale AFB representatives before field schedules can be finalized.

Meetings: Attend site-specific base meetings (up to 12/PoP). AFCEC NRM must approve attendance at other meetings to ensure work schedule is on time.

Level of Effort: Expect approximately 850 hours of field effort and reporting annually by a biologist(s) who has experience with the species in this Sub-Task.

Outreach / Education / Training: Prepare pamphlets/fliers as requested to help educate base residents and the public about listed-species avoidance and minimization measures.

Materials, Supplies, and Equipment: Provide all materials, supplies, and equipment required to conduct work.

Resource Management Outcomes: Gather information about federally-listed species on the property to determine how to avoid effects to those species during activities that will occur on the installation.

Deliverables (see Section 9.0 also): Draft and Final versions required in .pdf and .doc with responses to government comments if provided government comments in a matrix. Plan for government review period not to exceed (NTE) 30 days.

Deliverables	Due Date
60. Federally-Listed Species Habitat Assessment	Draft (within 60 days for field work completion) Final (within 30 days of receiving government comments)
61. Federally-Listed Species Management Plan	Draft (within 60 days for field work completion) Final (within 30 days of receiving government comments)
62. Endangered Species Act (ESA) Section 7 Programmatic Biological Assessment (PBA)	1 st Draft within 60 days of kick-off meeting
63. Listed Species Annual Surveys and Activity Report(s)	01 Oct
64. Quarterly Tracking Spreadsheet (list of meetings attended)	05 Dec (Sept-Nov reporting) 05 Mar (Dec-Feb reporting) 05 Jun (Mar-May reporting) 05 Sep (Jun-Aug reporting)
65. New Training Materials (as needed)	Within 30 days of completion and/or 15 July
66. Updated Annual GIS geodatabase	01 Oct (covers annual technical POP of 1 Sept-31 Aug)

3.9 Management, Wetlands / Floodplains [FUNDED]

One-time task: Conduct initial basewide wetland delineation of Point Arena AFS. The only known features are the manmade fire protection pond and Rolling Brook Creek, but the site should be surveyed entirely to ensure the entire site has been delineated. Provide field support to a visit from the Army Corps of Engineers, if the DAF requests a jurisdictional determination.

Deliverables	Due Date
67. Wetland Activity Report(s)	01 Oct
68. Draft and Final Wetland Delineation Report (in proper format for submittal to Army Corps)	01 Oct
69. Quarterly Tracking Spreadsheet (list of meetings attended)	05 Dec (Sept-Nov reporting) 05 Mar (Dec-Feb reporting) 05 Jun (Mar-May reporting) 05 Sep (Jun-Aug reporting)
70. Updated Annual GIS geodatabase	01 Oct (covers annual technical POP of 1 Sept-31 Aug)

Access: Because the site is remote and forested, all work at the site must be performed in pairs. The local Sheriff’s department monitors the site frequently, and based on their findings, the DAF has determined that it is not safe for individuals to perform field work on the site alone. Additionally, there is a locked gate and fence around the site, so access will need to be coordinated with the AFCEC and Beale AFB representatives before field schedules can be finalized.

Meetings: Attend site-specific base meetings (up to 12/PoP). AFCEC NRM must approve attendance at other meetings to ensure work schedule is on time.

Level of Effort: Expect approximately 80 hours of field effort and reporting by a biologist(s) / hydrologist who has experience with wetlands in this region.

Outreach / Education / Training: Prepare pamphlets/fliers as requested to help educate base residents and the public about wetland avoidance and minimization measures.

Materials, Supplies, and Equipment: Provide all materials, supplies, and equipment required to conduct work.

Resource Management Outcomes: Gather information about federally-listed species on the property to determine how to avoid effects to those species during activities that will occur on the installation.

Deliverables (see Section 9.0 also): Draft and Final versions required in .pdf and .doc with responses to government comments if provided government comments in a matrix. Plan for government review period not to exceed (NTE) 30 days.

3.10 Management, Habitat [OPTION]

One-Time Project: Prepare a forest resources inventory and 10-year plan

Recurring Work: Conduct Forest Management Activities in accordance with the plan

Deliverables	Due Date
71. Forest Survey Inventory Report(s)	01 Sep
72. Forest Management Plan (10-years)	01 Oct
73. Annual Management Activity Report (recurring work)	01 Oct
74. Quarterly Tracking Spreadsheet (list of meetings & trainings attended)	05 Dec (Sept-Nov reporting) 05 Mar (Dec-Feb reporting) 05 Jun (Mar-May reporting) 05 Sep (Jun-Aug reporting)
75. Updated Annual GIS geodatabase	01 Oct (covers annual technical POP of 1 Sept-31 Aug)

Access: Because the site is remote and forested, all work at the site must be performed in pairs. The local Sheriff's department monitors the site frequently, and based on their findings, the DAF has determined that it is not safe for individuals to perform field work on the site alone. Additionally, there is a locked gate and fence around the site, so access will need to be coordinated with the AFCEC and Beale AFB representatives before field schedules can be finalized.

Meetings: Attend site-specific base meetings (up to 12/PoP). AFCEC NRM must approve attendance at other meetings to ensure work schedule is on time.

Level of Effort: Expect approximately 850 hours of field effort and reporting annually by a biologist(s) who has experience with the species in this Sub-Task.

Materials, Supplies, and Equipment: Provide all materials, supplies, and equipment required to conduct work.

Resource Management Outcomes: Gather information about federally-listed species on the property to determine how to avoid effects to those species during activities that will occur on the installation.

Deliverables (see Section 9.0 also): Draft and Final versions required in .pdf and .doc with responses to government comments if provided government comments in a matrix. Plan for government review period not to exceed (NTE) 30 days.

3.11 Mgt, Species [OPTION]

Plan and conduct species surveys to provide an inventory for non-listed species on the Air Force Station. Species include, but are not limited to, migratory birds, bats, reptiles, amphibians, pollinators, and rare

plants. Department of Defense Partners in Reptiles and Amphibian Conservation (PARC) and DoD Partners in Flight (PIF) initiated reptile, amphibian, bird and bat surveys in 2023 and 2024 (surveys and reports in progress). If that work covers those taxa well enough, that work does not need to be repeated. The focus of this work will likely be pollinators and rare plants.

Deliverables	Due Date
76. Non-Listed Species Surveys and Activity Report(s)	01 Oct
77. Quarterly Tracking Spreadsheet (list of meetings & trainings attended)	05 Dec (Sept-Nov reporting) 05 Mar (Dec-Feb reporting) 05 Jun (Mar-May reporting) 05 Sep (Jun-Aug reporting)
78. Updated Annual GIS geodatabase	01 Oct (covers annual technical POP of 1 Sept-31 Aug)

Access: Because the site is remote and forested, all work at the site must be performed in pairs. The local Sheriff’s department monitors the site frequently, and based on their findings, the DAF has determined that it is not safe for individuals to perform field work on the site alone. Additionally, there is a locked gate and fence around the site, so access will need to be coordinated with the AFCEC and Beale AFB representatives before field schedules can be finalized.

Meetings: Attend site-specific base meetings (up to 12/PoP). AFCEC NRM must approve attendance at other meetings to ensure work schedule is on time.

Level of Effort: Expect approximately 200 hours of field effort and reporting by a biologist(s) who has experience with the species in this Sub-Task.

Materials, Supplies, and Equipment: Provide all materials, supplies, and equipment required to conduct work.

Resource Management Outcomes: Gather information about species on the property to determine how to avoid effects to those species during activities that will occur on the installation.

Deliverables (see Section 9.0 also): Draft and Final versions required in .pdf and .doc with responses to government comments if provided government comments in a matrix. Plan for government review period not to exceed (NTE) 30 days.

3.12 Mgt, Invasive Species [OPTION]

Control the presence and spread of invasive species as described and directed in the INRMP.

One-Time Tasks:

- Map invasive species on approximately 80 acres of DAF-owned land

- Develop an Invasive Species Management Plan, which will become a component plan to the INRMP

Recurring Tasks:

- Annually implement Invasive Species Management Plan, a component plan to the INRMP. Assume 40 hours per year will be needed by a weed specialist with a pesticide applicator’s license.

Deliverables	Due Date
79. Invasive Species Surveys and Activity Report(s)	01 Oct
80. Draft/Final Invasive Species Management Plan	01 Oct
81. Quarterly Tracking Spreadsheet (list of meetings & trainings attended)	05 Dec (Sept-Nov reporting) 05 Mar (Dec-Feb reporting) 05 Jun (Mar-May reporting) 05 Sep (Jun-Aug reporting)
82. New Training Materials (as needed)	Within 30 days of completion and/or 15 July
83. Updated Annual GIS geodatabase	01 Oct (covers annual technical POP of 1 Sept-31 Aug)

Access: Because the site is remote and forested, it is not safe for individuals to perform work on the site alone. Additionally, there is a locked gate and fence around the site, so access will need to be coordinated with the AFCEC and Beale AFB representatives,

Meetings: Attend site-specific base meetings (up to 12/PoP). AFCEC NRM must approve attendance at other meetings to ensure work schedule is on time.

Level of Effort: Expect approximately 200 hours of administrative, field effort, and reporting annually by a biologist(s) who has experience with the invasive species in the area around Point Arena.

Outreach / Education / Training: Prepare pamphlets/fliers as requested to help educate base residents and the public the listed-species avoidance and minimization measure.

Materials, Supplies, and Equipment: Provide all materials, supplies, and equipment required to conduct work.

Resource Management Outcomes: Gather information about invasive species on the property to determine which species should be prioritized for treatment and control.

Deliverables (see Section 9.0 also): Draft and Final versions required in .pdf and .doc with responses to government comments if provided government comments in a matrix. Plan for government review period not to exceed (NTE) 30 days.

4.0 QUALIFICATIONS

- 4.1 For tasks requiring invasive species control, a project manager and field staff should have prior experience with problematic Central Valley weeds, state licenses for herbicide application, and professional and educational experience related to invasive species control and habitat restoration. Prior experience avoiding impacts to federally listed species is also required.
- 4.2 For tasks that require sensitive species or migratory bird surveys, field staff should have prior experience with Central Valley species and appropriate survey protocols.
- 4.3 For tasks that require fieldwork for federally listed species, field staff shall have prior experience conducting surveys for listed species. Where work may affect a species, field staff shall have pre-existing 10a1A permits.
- 4.4 For tasks that require hydrological analysis, field staff shall have prior experience surveying hydrology of complex vernal pool systems in California using level logger/piezometer technologies.
- 4.5 For tasks that require wetland verification, individuals require prior experience and advanced expertise and training in wetland delineation protocols.
- 4.6 For tasks monitoring grazing compliance, personnel or project manager shall be a Certified Rangeland Manager (California-Pacific Society for Range Management).
- 4.7 **HERBICIDE APPLICATION REQUIREMENTS:** Provide all labor, tools, equipment, test equipment, personal protective equipment and clothing, material and parts, transportation and other incidentals necessary to implement herbicide application.
 - 4.7.1 All herbicides and herbicide application shall comply with Department of Defense Instruction (DoDI) 4150.07 DoD Pest Management Program; AFI 32-1053 Integrated Pest Management Program; the Integrated Pest Management Plan at each applicable base (Beale AFB); Armed Forces Pest Management Board (AFPMB) list of Approved herbicides; and the State of California Pesticide Regulations and be registered for use in the State of California. Only pesticides approved for use on the applicable base may be applied.
 - 4.7.2 A list of those herbicides requested to be used must be submitted to the AFCEC ESCA Administrator no later than (NLT) thirty (30) calendar days after agreement is signed and must be coordinated through the HazMart at the applicable Base. A list of all herbicides to be applied is to be provided, with Safety Data Sheet (SDS) and labels, to the Integrated Pest Management Coordinator (IPMC) fifteen (15) calendar days prior to application. If non-approved herbicide is preferred, the NFE shall submit an AF Approval Request Form for Non-Standard Pesticides to the IPMC thirty (30) calendar days prior to application. Any non-standard herbicides need to have AFCEC Command Entomologist approval prior to use and will require a longer approval period.
 - 4.7.3 Only personnel licensed/certified by the State of California shall apply herbicides. Copies of all herbicide application certifications shall be provided to the AFCEC ESCA Administrator and IPMC on the applicable base within 30 calendar days. All licenses/certifications must be in the proper category of the type of work being performed. Qualified Applicator Certificate, Qualified Applicator License, and Pest Control business license copies are to be provided.

- 4.7.4 Before any herbicide application is to begin, a Work Request will be staffed through the Base Work Order system or TRIRIGA by CES/CEIEC and to the IPMC for approval. It will include the pest to be controlled (grass and weed control), a map identifying the location pesticides are to be applied, the number of acres of application, the pesticides that will be applied, and copies of the SDS. The Work Request should be comprehensive of total effort thus only one would be done per year under this agreement.
- 4.7.5 Pesticide Mixing, Storage and Disposal: All pesticides shall be stored off-base. All unused pesticides, empty pesticide containers and residue shall be disposed of properly at an approved off-base disposal area. **Chemical mixing for immediate application may be accomplished at the site of application/treatment and only state certified applicators may mix or apply pesticides.** Provide a spill container at mixing areas to ensure that no chemicals impact an area that is not being treated. The NFE/Sub-NFE shall have an operational emergency eyewash kit available at each mixing location. In the event the NFE/Sub-NFE spills or releases any hazardous substances (example, substances listed in 40 Code of Federal Regulations (CFR) 302), the NFE/Sub-NFE shall immediately notify the Fire Department, ESCA PM, CES/CEIEC, and IPMC.
- 4.7.6 Safety: The NFE/Sub-NFE shall comply with all applicable parts of Title 29 CFR, *Occupational Safety and Health Standards*, Part 1910; Title 29, CFR, *Safety and Health Standards for Federal Service Contracts*, Part 1925; Title 40, CFR, Parts 150-189, and Title 49, CFR, *Hazardous Materials Regulations*, Part 171, while on an AF installation, to ensure safe working conditions for NFE/Sub-NFE personnel and a safe environment for the occupants of AF facilities.
- 4.7.7 The NFE/Sub-NFE shall establish an AF Integrated Pest Management Information System (IPMIS) account at <https://web.ipmis-helpdesk.org/> to enter and document state pesticide applicator certification categories and expiration dates.
- 4.7.8 Provide pesticide use data to the IPMC on a **monthly** basis (not later than 10 days after close of month) for input into the IPMIS pesticide management database.
- 4.7.9 Following award the NFE may submit reports and certifications to Beale IPMC but shall cc Beale AFB Natural Resources Managers.

5.0 GOVERNMENT FURNISHED MATERIALS OR PROPERTY

- 5.1 PHYSICAL DATA: Prior weed control and post-fire restoration reporting. Applicable GIS information for natural resources and base boundary and roads files.
- 5.2 FACILITY: Computer/network support for three personnel at Beale AFB, including, but not limited to the following: computers, pertinent software, network access, internet access, email, word processing, and database support. One physical office with a government telephone will be available in the Beale Civil Engineer Squadron, Environmental Office, 6425 B Street, Beale AFB, CA. A parking space with utility hook-ups will be provided for an NFE provided office trailer (or portable office) near the Civil Engineer compound to provide on-site physical workspace for additional staff, as needed. Travel to seminars, State agencies, or meeting locations will typically not exceed 5 hours driving time one way. NFE's employees will be required to obtain all Government certificates, licenses, and qualifications required to drive a

GOV. The NFE shall assist in the caring for, and maintaining of all GOVs assigned to the 9 CES/CEIE. GOV abuse and misuse will not be tolerated. All traffic violations or accidents incurred by the NFE or its employees will be resolved by the NFE. An individual's loss of his or her State driver's license may result in 9 CES/CEIE request for termination of this individual, if the individual cannot perform his or her daily tasks without means of transportation. Damages resulting from accidents incurred by the NFE's employee, if negligent, will be covered by the NFE's self-insured general liability insurance. If the NFE's employee is not negligent, the Federal employer will be responsible for the damages to the GOV.

- 5.3 EQUIPMENT, BADGE, KEYS AND/OR FACILITIES PROVIDED. All support personnel in this SOO require issuance of a Common Access Card (CAC). CACs shall be issued IAW FAR 5352.242.9001 (CACs for Contractor Personnel Homeland Security Presidential Directive 12, dated 27 August 2004) promulgated a Federal standard for secure and reliable forms of identification for Federal employees and Contractors. That identification is the CAC. The Government will provide one of the contractor personnel with an office environment typically provided to Government personnel that includes workstations, facsimile, telephones, copiers, and computers with access to relevant software, to the Internet and to the local area network (LAN). Three government computers with access to relevant software, to the Internet and to the local area network (LAN) will be provided. All NFE employees will require network access through VPN. The Government will provide contractor personnel with an identification badge (or other unique form of identification) upon successful completion of a Federal investigative process as required IAW Homeland Security Presidential Directive-12 (HSPD-12) or, in the event of a waiver; an "interim" badge may be issued.
- 5.4 RESTRICTED AREA BADGE / AIRFIELD DRIVER'S LICENSE: All support personnel in this SOO may be required to obtain a Restricted Area Badge (RAB) and/or Airfield Driver's License (ADL) when working on tasks that require access to the flight line or restricted areas. RAB and ADL procedures require issuance to contractors when needed. Support personnel will need the RAB and ADL to avoid delays encountered waiting for an escort due to time-sensitive schedule requirements. Support personnel frequently conduct site visits in restricted areas to assess the risk to federally listed species from proposed mission projects, particularly along the ramps where aircraft park. The need is ongoing due to planned runway projects.
- 5.5 EQUIPMENT: Each location will require at least one (1) NFE-provided laptop and one (1) tablet with data plan to support fieldwork and travel. Government WILL NOT supply GIS equipment. NFE should supply all GIS/GPS equipment and software (including ArcMap licensing) needed to accomplish the fieldwork and manage GIS data for all above Tasks.
- 5.6 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 non-Federal entity must submit annually 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.

6.0 PERIOD OF PERFORMANCE (PoP)

Base Period: 18-months from date of award (*3 months administrative period to complete on-boarding of employees and subcontractors, 12-month technical period for conducting field work, 3 months administrative for completion of reports only with no new work*)

7.0 FOLLOW-ON PERIODS

Four (4) 18-month Follow-On (FO) periods. Any overlap between base and follow-on periods is to accommodate on-boarding of personnel, subcontracting activities, and reporting activities as field work is required during all 12 months of the technical period of performance.

8.0 COORDINATION

USACE POC
David Leptien, PM
402-889-5570
david.b.leptien@usace.army.mil

AFCEC Travis Installation Support Section, Natural Resources Leads, AFCEC/CZOW
Primary: Kirsten Christopherson, 707-424-8622, kirsten.christopherson@us.af.mil
Alternate: Deanne Weber, 707-424-8627, deanne.weber.1@us.af.mil

Beale Air Force Base, Natural Resources Managers, 9 CES/CEIEC
Tamara Gallentine, 530-634-2738, tamara.gallentine.2@us.af.mil
Eli Rose, 530-634-2382, eli.rose.1@us.af.mil

9.0 DELIVERABLES

- 9.1 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, facsimile, or regular 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.
- 9.2 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.
- 9.3 Annual Inventory – 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 and the Beale AFB and AFCEC/CZOW Natural Resource Managers.
- 9.4 Annual Inventory – 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 every two years. Copies of the inventory to be sent annually to USACE – SWF and the Beale AFB and AFCEC/CZOW Natural Resource Managers.

- 9.5 Draft Project Reports – See each task for task specific reports. Electronic copies of draft final reports should be submitted no later than one month 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 a recommendations section. Include raw data in draft and final reports. Each report to summarize work accomplished for the Task. Beale AFB and AFCEC NRM staff will review and provide comments *within 30 calendar days after receipt*.
- 9.6 Final Project Reports – See each task for task specific reports. **All final deliverables shall be reviewed by an experienced editor to fix any editorial issues.** Electronic copies of the final report, incorporating Beale AFB and AFCEC NRM review comments on the draft and shall be submitted no later than thirty (30) days after receipt of the Beale AFB and AFCEC NRM comments.
- 9.7 Project Schedule and Work Plan – Provide an electronic copy of a work plan and project schedule in table format that includes all tasks. 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.
- 9.8 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:
- 9.8.1 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.]
 - 9.8.1.1 AgricultrlAndGrazingOutlease
 - 9.8.1.2 CoastalZoneMgtArea_A
 - 9.8.1.3 DispersedRecBoundary_A
 - 9.8.1.4 EssentialFishHabitat_A
 - 9.8.1.5 FaunaIncidentPoint_P
 - 9.8.1.6 WildlandFire_A
 - 9.8.1.7 FireBreakLine_L
 - 9.8.1.8 Inundation_A
 - 9.8.1.9 ForestCompartment_A

- 9.8.1.10 ForestManagementArea_A
 - 9.8.1.11 ForestProductHarvest_A
 - 9.8.1.12 ForestStand_A
 - 9.8.1.13 HabitatDisturbance_A
 - 9.8.1.14 HabitatProtectiveZone_A
 - 9.8.1.15 HazardousSuppressionArea_A
 - 9.8.1.16 HistoricRiverAlignment_L
 - 9.8.1.17 HuntingFeature_P
 - 9.8.1.18 LandCover_A
 - 9.8.1.19 NatResRecFeature_P
 - 9.8.1.20 NaturalResourceResRecProject_A
 - 9.8.1.21 NaturalResourceResRecProject_P
 - 9.8.1.22 NaturalResourceSurvey_A
 - 9.8.1.23 NaturalResourceSurvey_L
 - 9.8.1.24 NaturalResourceSurvey_P
 - 9.8.1.25 NoxiousOrInvasiveSpecies_A
 - 9.8.1.26 NoxiousOrInvasiveSpecies_L
 - 9.8.1.27 NoxiousOrInvasiveSpecies_P
 - 9.8.1.28 ObservationLookout_P
 - 9.8.1.29 PrescribedBurnUnit_A
 - 9.8.1.30 RecNatureTrailFeature_P
 - 9.8.1.31 RecreationNatureTrail_L
 - 9.8.1.32 RiparianArea_A
 - 9.8.1.33 SoilMapUnit_A
 - 9.8.1.34 SpecialManagementArea_A
 - 9.8.1.35 SpecialStatusSpecies_A
 - 9.8.1.36 SpecialStatusSpecies_L
 - 9.8.1.37 SpecialStatusSpecies_P
 - 9.8.1.38 SpeciesLocation_A
 - 9.8.1.39 SpeciesLocation_P
 - 9.8.1.40 SpeciesSpecificHabitat_A
 - 9.8.1.41 SpeciesSpecificHabitat_L
 - 9.8.1.42 SpeciesSpecificHabitat_P
 - 9.8.1.43 SurfaceRiparianArea_A
 - 9.8.1.44 Vegetation_A
 - 9.8.1.45 WaterFeature_L
 - 9.8.1.46 WaterFeature_P
 - 9.8.1.47 Watershed_A
 - 9.8.1.48 Wetland_A
 - 9.8.1.49 Wetland_L
 - 9.8.1.50 Wetland_P
 - 9.8.1.51 WildlandUrbanInterfaceArea_A
 - 9.8.1.52 WildlifeManagementArea_A
 - 9.8.1.53 WildlifeManagementArea_P
- 9.8.2 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 NRM before work begins to find work-arounds where fields aren't available to collect needed data.

- 9.8.3 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.
- 9.8.4 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.
- 9.8.5 NFE shall identify data errors for any DLS that they use and submit them with the final deliverables so that the AFCEC NRM may work to change them in the next standards update. This shall include formatting restrictions that limit usefulness of existing fields or missing fields.
- 9.8.6 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 ADMINISTRATION

- 10.1 This cooperative agreement may be administered through a CESU only upon mutual agreement and official authorization by both parties of the acceptance of the application of the CESU Network IDC rate (17.5%).
- 10.2 Any resulting cooperative agreement shall 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. NOTE: In addition to the General Terms and Conditions, the Recipient shall request disposition instructions from the Federal Awarding agency (USACE) PM, as applicable.

11.0 POST AWARD REQUIREMENTS and DOCUMENTATION

- 11.1 Invoicing and Progress Reports - Submit Payment Request and additional required documents to: swf-cesu-invoice@usace.army.mil. Carbon Copy the assigned USACE Project Manager as well as your organization's POCs for the additional required documents as well as the delinquent accounts POC.

- 11.1.1 Frequency: Quarterly plus 30-day grace period. If the coverage dates are not quarterly or preapproved by the PM (or the first/last submittal), the payment request will be **rejected**.

Quarters	Invoice pkgs due No Later Than (NLT):
Q1: Oct-Dec	Q1: 31 Jan
Q2: Jan-Mar	Q2: 30 Apr
Q3: Apr-Jun	Q3: 30 Jul
Q4: Jul-Sep	Q4: 31 Oct

11.1.2 Payment Requests must be submitted on form SF270 with the accompanying SF-PPR progress report. SF270s will be **rejected** if the SF-PPR progress report has not been received.

Please ensure to include the following on the SF-PPR progress report:

- Separate details by CLIN
- Achievements
- Percent Completion
- Project Status
- Problems encountered and impact of activities and personnel on schedule
- Anticipated work in next reporting period

If the SF-PPR is incomplete, it will be rejected causing the SF270 to also be rejected. SF-PPR Forms with above fields may be requested at: swf-cesu-invoice@usace.army.mil

The SF270 may have multiple pages. May request Excel version @ swf-cesu-invoice@usace.army.mil
Must be submitted in PDF or it will be rejected.

SF270 Block 11 (a), (b), (c) are for the description of funds. Preferred description is: CLIN/PoP Type, PoP start and end dates, amount awarded. At minimum include the CLIN.

Example:

***CLIN 0001/ Base
 22SEP23 – 21SEP24
 \$100,000.00***

Funding must be separated as specified on the Award document. For Sub-CLINs that specify “*for funding only*”, may be rolled into the primary CLIN unless otherwise instructed. All others require PM approval. If the description is missing; payment request will be **rejected**.

11.1.3 The **FINAL** invoice package must include the following documents. The entire Final invoice package is due no later than 90 days from the period of performance (POP) end date:

- Final SF270
- SF-PPR
- Final SF425
- DD882
- SF428 plus attachment B (C&S if applicable)
- SF298
- Final Report

Missing any of the above required documents, the Payment Request will be **rejected**.

Forms may be requested from the district office or found at: www.grants.gov

[End of SOO]