

FS Agreement No. 18-CS-11030500-001

Cooperator Agreement No. \_\_\_\_\_

**NON FUNDED CHALLENGE COST SHARE AGREEMENT**  
**Between The**  
**CENTRAL ARIZONA GROTTO**  
**And The**  
**USDA, FOREST SERVICE**  
**CORONADO NATIONAL FOREST**

This NON FUNDED CHALLENGE COST SHARE AGREEMENT is hereby made and entered into by and between the Central Arizona Grotto, hereinafter referred to as "CAG," and the USDA, Forest Service, Coronado National Forest hereinafter referred to as the "U.S. Forest Service," under the authority: Department of Interior and Related Agencies Appropriation Act of 1992, Pub. L. 102-154.

Background:

Under the Federal Cave Resources Protection Act of 1988, and the Endangered Species Act of 1973, the U.S. Forest Service is responsible for the management of National Forest System Lands, to include caves, karsts, associated resources (mineralogical, archeological, historical, paleontological, hydrological and others), and for the protection of wildlife and habitats found in cave and karst environments. The act also encourages government agencies to foster an increased cooperation and exchange of information between those agencies and individuals and groups who use caves for scientific, educational, or recreational purposes, including caving grottos

The Coronado National Forest has 47 caves that have been nominated as significant under criteria spelled out in the Federal Cave Protection Act of 1988; caves and karsts are dynamic naturally occurring systems affected by surface and subterranean environmental changes. These non-renewable resources and sensitive ecosystems, present unusual management challenges for the Coronado National Forest.

Title: Cave and Karst Resource Management on the Coronado National Forest

**I. PURPOSE:**

The purpose of this agreement is to document the cooperation between the parties to manage, conserve and improve conditions of cave and karst resources on the Coronado National Forest. Activities in support of these outcomes include, restoration projects inventory, monitoring, surveying, field checking, and mapping; information collection and sharing, database management, and education through references and recommendations for cave and karst management, protection and significant cave nomination on the Coronado



National Forest, in accordance with the following provisions and the hereby incorporated Operating and Financial Plan, attached as Exhibit A.

## II. STATEMENT OF MUTUAL BENEFIT AND INTERESTS:

The National Memorandum of Understanding (MOU), between the U.S. Forest Service and the National Speleological Society (NSS), 16-SU-11132428-117, establishes a framework upon which the NSS and the U.S. Forest Service may cooperatively plan and accomplish mutually beneficial work projects or activities as they relate to the effective and efficient management of cave and karst resources across National Forests. Furthermore, this MOU encourages and outlines broad principles to assist the local U.S. Forest Service units and NSS member groups in developing their own agreements for the most efficient management of local cave and karsts resources.

The Coronado National Forest is responsible for the management, restoration, and conservation of its 47 caves and karsts; however, it does not possess the expert resources and equipment to mitigate the challenges associated with the management of these non-renewable resources.

The CAG is a non-profit, internal organization of the NSS, whose mission is dedication to the scientific study of caves and karst, protection of caves and their natural resource contents, through conservation, stewardship, public education, and promotion of responsible cave exploration and fellowship among those interested in caves and karsts. Specifically, the CAG is interested in the study, conservation, and responsible exploration of caves in Southern Arizona.

CAG and the U.S. Forest Service are committed to jointly planning the management, exploration, inventory, monitoring and data collection of the cave and karst resources on the Coronado National Forest, while providing responsible and appropriate recreational opportunities for the caving community, facilitate information sharing and education between the U.S. Forest Service, external interested parties and the local community.

In Consideration of the above premises, the parties agree as follows:

## III. CAG SHALL:

- A. LEGAL AUTHORITY. CAG shall have the legal authority to enter into this agreement, and the institutional, managerial, and financial capability to ensure proper planning, management, and completion of the project, which includes funds sufficient to pay the nonfederal share of project costs, when applicable.
- B. BUILDING AND COMPUTER ACCESS BY NON-U.S. FOREST SERVICE PERSONNEL. CAG may be granted access to U.S. Forest Service facilities and/or computer systems to accomplish work described in the Operating Plan or Statement of Work. All non-government employees with unescorted access to U.S. Forest



Service facilities and computer systems must have background checks following the procedures established by USDA Directives 3800 series. Those granted computer access must fulfill all U.S. Forest Service requirements for mandatory security awareness and role-based advanced security training, and sign all applicable U.S. Forest Service statements of responsibilities.

- C. Perform in accordance with the Annual Operating Plan and Financial Plan (Exhibit A).
- D. Collaborate and coordinate with the U.S. Forest Service to jointly identify, develop and execute mutually agreed upon projects and programs that meet mutual goals and objectives outlined in this Agreement.
- E. Keep the U.S. Forest Service abreast of changes in the GAG's structure or capability which may affect project undertaken under this agreement.
- F. Encourage CAG's members to engage as volunteers in projects jointly implemented by CAG and the U.S. Forest Service.
- G. Obtain prior to commencement of work any required Federal, State, local permits and authorization, such as NEPA approvals.
- H. Provide transportation, supervision, tools, supply, materials and proper personal protective equipment (PPE) for accomplishment of the projects to all recruited CAG staff, volunteer(s) and volunteer groups, as needed
- I. Perform and document a Job Hazard Analysis using form FS-6700-7 (Attachment A) in accordance with U.S. Forest Service specifications, prior to the commencement of any project on NFS lands.
- J. Document and maintain daily logs of volunteer participation (to include names and hours worked), accomplishments, and length of passages treated, including supplies used, hours of equipment use, mileage, and provide a copy of the logs to the appropriate U.S. Forest Service Program Manager within 30 days of the conclusion of each event.
- K. Secure all cave and karst related records in accordance with the Federal Cave Resources Protection Act. This includes, but is not limited to, maps, data collection, files, release of cave locations, etc.

#### **IV. THE U.S. FOREST SERVICE SHALL:**

- A. Identify potential projects opportunities that align with the objectives of this agreement and facilitate the implementation of priority projects on the Coronado National Forest.



- B. Ensure that all legal and agency requirements associated with project design and implementation, such as NEPA, have been met.
- C. Provide the necessary technical and project oversight to ensure work is completed safely and in accordance with U.S. Forest Service specifications.
- D. Provide the necessary space and location for the storing and securing of cave and karst related records in accordance with the Federal Cave Resources Protection Act, to include but not limited to: maps, data collections, files, etc.
- E. Determine and provide overnight camp locations, as needed. Supply information regarding the location of potable water, flush toilets, vault toilets, showers and convenience stores.
- F. Provide the CAG with cave data and information as needed where such provision is allowable under statute, regulation and program direction, and where records are available and it is feasible to provide them.

**V. IT IS MUTUALLY UNDERSTOOD AND AGREED BY AND BETWEEN THE PARTIES THAT:**

- A. PRINCIPAL CONTACTS. Individuals listed below are authorized to act in their respective areas for matters related to this agreement.

**Principal Cooperator Contacts:**

<b>Cooperator Program Contact</b>	<b>Cooperator Administrative Contact</b>
Richard Bohman, Conservation Chair 3051 Corrine Drive Phoenix, AZ 85302 602-761-5886 rbohman@cox.net	Ray Keeler, President 26406 N. 43 <sup>rd</sup> . Avenue Phoenix, AZ. 85083 623-561-2917 rckeeler@cox.net

**Principal U.S. Forest Service Contacts:**

<b>U.S. Forest Service Program Manager Contact</b>	<b>U.S. Forest Service Administrative Contact</b>
Beverley Everson, Geologist 300 W. Congress, 6 <sup>th</sup> Floor Tucson, AZ. 85701 520-388-8428 Fax 520-388-8305 beverson@fs.fed.us	Iris Almazan, Grants Mgmt. Specialist 300 W. Congress, 6 <sup>th</sup> Floor Tucson, AZ 85701 520-388-8310 Fax: 520-388-8305 ialmazan@fs.fed.us



- B. CAG and the U.S. Forest Service will conduct an annual meeting (by the end of the 1<sup>st</sup> Quarter) in-person, tele/video-conference, or other means, with the appropriate U.S. Forest Service and Cooperator representatives for review and discussion of any issues, concerns and proposed projects for the upcoming fiscal year.
- C. CAG and the U.S. Forest Service will collaborate in the planning, development, and implementation of project design. The U.S. Forest Service is the final approval authority over project design; any changes to project design require U.S. Forest Service prior approval.
- D. The U.S. Forest Service reserves the right to halt work on NFS lands and request removal of any or all personnel that is not in compliance with U.S. Forest Service safety and occupational health standards, or project specifications.
- E. Publicity concerning the CAG's activities on NFS lands will be coordinated between parties.
- F. All information exchanged regarding cave and karst resources and locations under this agreement will be classified and handled by one of the two ownership categories:
1. Information belonging to the U.S. Forest Service which is available as public information, unless specifically exempt under the Freedom of Information Act (FOIA)
  2. Information belonging to the CAG or volunteers, which will be made available to the U.S. Forest Service to aid in its management decision making, but will not remain in possession of the U.S. Forest Service and which will be treated by the U.S. Forest Service as proprietary information under the FOIA to the full extent law allow.
- G. Both Parties recognize that unlimited access to some types of cave and karst resource information can lead to loss or damage to non-renewable resources. Both parties will make the best possible effort to safeguard and handle cave and karst resource information in a responsible manner that avoids an accidental breach of information.
- H. USE OF U.S. FOREST SERVICE INSIGNIA. In order for CAG to use the U.S. Forest Service insignia on any published media, such as a Web page, printed publication, or audiovisual production, permission must be granted from the U.S. Forest Service's Office of Communications (Washington Office). A written request will be submitted by the U.S. Forest Service, Coronado National Forests to the Office of Communications Assistant Director, Visual Information, and Publishing



Services prior to use of the insignia. The U.S. Forest Service, Coronado National Forest will notify the CAG when permission is granted.

I. NON-FEDERAL STATUS FOR COOPERATOR PARTICIPANT LIABILITY.

CAG agree(s) that any of their employees, volunteers, and program participants shall not be deemed to be Federal employees for any purposes including Chapter 171 of Title 28, United States Code (Federal Tort Claims Act) and Chapter 81 of Title 5, United States Code (OWCP), as CAG hereby willingly agrees to assume these responsibilities.

Further, CAG shall provide any necessary training to CAG's employees, volunteers, and program participants to ensure that such personnel are capable of performing tasks to be completed. CAG shall also supervise and direct the work of its employees, volunteers, and participants performing under this agreement.

J. NOTICES. Any communications affecting the operations covered by this agreement given by the U.S. Forest Service or CAG are sufficient only if in writing and delivered in person, mailed, or transmitted electronically by e-mail or fax, as follows:

To the U.S. Forest Service Program Manager, at the address specified in the agreement.

To CAG, at the address shown in the agreement or such other address designated within the agreement.

Notices are effective when delivered in accordance with this provision, or on the effective date of the notice, whichever is later.

K. PARTICIPATION IN SIMILAR ACTIVITIES. This agreement in no way restricts the U.S. Forest Service or CAG from participating in similar activities with other public or private agencies, organizations, and individuals.

L. ENDORSEMENT. Any of CAG's contributions made under this agreement do not by direct reference or implication convey U.S. Forest Service endorsement of CAG's products or activities.

M. MEMBERS OF U.S. CONGRESS. Pursuant to 41 U.S.C. 22, no member of, or delegate to, Congress shall be admitted to any share or part of this agreement, or benefits that may arise therefrom, either directly or indirectly.

N. ELIGIBLE WORKERS. CAG shall ensure that all employees complete the I-9 form to certify that they are eligible for lawful employment under the Immigration and Nationality Act (8 USC 1324a). CAG shall comply with regulations regarding certification and retention of the completed forms. These requirements also apply to any contract awarded under this agreement.



- O. SYSTEM FOR AWARD MANAGEMENT REGISTRATION REQUIREMENT (SAM). CAG shall maintain current information in the System for Award Management (SAM). This requires review and update to the information at least annually after the initial registration, and more frequently if required by changes in information or agreement term(s). For purposes of this agreement, System for Award Management (SAM) means the Federal repository into which an entity must provide information required for the conduct of business as a Cooperative. Additional information about registration procedures may be found at the SAM Internet site at [www.sam.gov](http://www.sam.gov).
- P. NONDISCRIMINATION. The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, and so forth.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.
- Q. AGREEMENT CLOSEOUT. Within 90 days after expiration or notice of termination the parties shall close out the agreement.

Within a maximum of 90 days following the date of expiration or termination of this agreement, all reports required by the terms of the agreement must be submitted to the U.S. Forest Service by CAG.

R. PROGRAM MONITORING AND PROGRAM PERFORMANCE REPORTS

The parties to this agreement shall monitor the performance of the agreement activities to ensure that performance goals are being achieved.

Performance reports must contain information on the following:

- A comparison of actual accomplishments to the goals established for the period where the output of the project can be readily expressed in numbers, a computation of the cost per unit of output, if applicable.
- Reason(s) for delay if established goals were not met.
- Additional pertinent information.



CAG shall submit annual performance reports to the U.S. Forest Service Program Manager. These reports are due 90 days after the reporting period.

- S. RETENTION AND ACCESS REQUIREMENTS FOR RECORDS. CAG shall retain all records pertinent to this agreement for a period of no less than 3 years from the expiration or termination date. As used in this provision, records includes books, documents, accounting procedures and practice, and other data, regardless of the type or format. CAG shall provide access and the right to examine all records related to this agreement to the U.S. Forest Service Inspector General, or Comptroller General or their authorized representative. The rights of access in this section must not be limited to the required retention period but must last as long as the records are kept.

If any litigation, claim, negotiation, audit, or other action involving the records has been started before the end of the 3-year period, the records must be kept until all issues are resolved, or until the end of the regular 3-year period, whichever is later.

- T. FREEDOM OF INFORMATION ACT (FOIA). Public access to agreement records must not be limited, except when such records must be kept confidential and would have been exempted from disclosure pursuant to Freedom of Information regulations (5 U.S.C. 552). Requests for research data are subject to 2 CFR 215.36.

Public access to culturally sensitive data and information of Federally recognized Tribes may also be explicitly limited by P.L. 110-234, Title VIII Subtitle B §8106 (2009 Farm Bill).

- U. TEXT MESSAGING WHILE DRIVING. In accordance with Executive Order (EO) 13513, "Federal Leadership on Reducing Text Messaging While Driving," any and all text messaging by Federal employees is banned: a) while driving a Government owned vehicle (GOV) or driving a privately owned vehicle (POV) while on official Government business; or b) using any electronic equipment supplied by the Government when driving any vehicle at any time. All Coopeatives, their Employees, Volunteers, and Contractors are encouraged to adopt and enforce policies that ban text messaging when driving company owned, leased or rented vehicles, POVs or GOVs when driving while on official Government business or when performing any work for or on behalf of the Government.

- V. PUBLIC NOTICES. It is the U.S. Forest Service's policy to inform the public as fully as possible of its programs and activities. CAG is encouraged to give public notice of the receipt of this agreement and, from time to time, to announce progress and accomplishments. Press releases or other public notices should include a statement substantially as follows:

"The Coronado National Forest of the U.S. Forest Service, Department of Agriculture," and the Central Arizona Grotto are collaborating on a mutually





beneficial project for the management and preservation of cave and karst resources on the Coronado National Forest.

CAG shall call on the Coronado National Forest's, U.S. Forest Service's Office of Communication for advice regarding public notices. CAG is requested to provide copies of notices or announcements to the U.S. Forest Service Program Manager and to U.S. Forest Service's Office of Communications as far in advance of release as possible.

W. U.S. FOREST SERVICE ACKNOWLEDGED IN PUBLICATIONS, AUDIOVISUALS AND ELECTRONIC MEDIA. CAG shall acknowledge U.S. Forest Service support in any publications, audiovisuals, and electronic media developed as a result of this agreement.

X. GOVERNMENT-FURNISHED PROPERTY. CAG may only use U.S. Forest Service property furnished under this agreement for performing tasks assigned in this agreement. CAG shall not modify, cannibalize, or make alterations to U.S. Forest Service property. A separate document, Form AD-107, must be completed to document the loan of U.S. Forest Service property. The U.S. Forest Service shall retain title to all U.S. Forest Service-furnished property. Title to U.S. Forest Service property must not be affected by its incorporation into or attachment to any property not owned by the U.S. Forest Service, nor must the property become a fixture or lose its identity as personal property by being attached to any real property.

*CAG Liability for Government Property.*

1. Unless otherwise provided for in the agreement, CAG shall not be liable for loss, damage, destruction, or theft to the Government property furnished or acquired under this contract, except when any one of the following applies:
  - a. The risk is covered by insurance or CAG is otherwise reimbursed (to the extent of such insurance or reimbursement).
  - b. The loss, damage, destruction, or theft is the result of willful misconduct or lack of good faith on the part of CAG's managerial personnel. CAG's managerial personnel, in this provision, means CAG's directors, officers, managers, superintendents, or equivalent representatives who have supervision or direction of all or substantially all of CAG's business; all or substantially all of CAG's operation at any one plant or separate location; or a separate and complete major industrial operation.
2. CAG shall take all reasonable actions necessary to protect the Government property from further loss, damage, destruction, or theft. CAG shall separate the damaged and undamaged Government property, place all the affected Government property in the best possible order, and take such other action as the Property Administrator directs.
3. CAG shall do nothing to prejudice the Government's rights to recover against third parties for any loss, damage, destruction, or theft of Government property.



4. Upon the request of the Grants Management Specialist, CAG shall, at the Government's expense, furnish to the Government all reasonable assistance and cooperation, including the prosecution of suit and the execution of agreements of assignment in favor of the Government in obtaining recovery.

Y. NONDISCRIMINATION STATEMENT – PRINTED, ELECTRONIC, OR AUDIOVISUAL MATERIAL. CAG shall include the following statement, in full, in any printed, audiovisual material, or electronic media for public distribution developed or printed with any Federal funding.

*"In accordance with Federal law and U.S. Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, sex, age, or disability. (Not all prohibited bases apply to all programs.)"*

To file a complaint alleging discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW, Washington DC 20250-9410 or call toll free voice (866) 632-9992, TDD (800)877-8339, or voice relay (866) 377-8642. USDA is an equal opportunity provider and employer."

If the material is too small to permit the full statement to be included, the material must, at minimum, include the following statement, in print size no smaller than the text:

*"This institution is an equal opportunity provider."*

Z. REMEDIES FOR COMPLIANCE RELATED ISSUES. If CAG materially fail(s) to comply with any term of the agreement, whether stated in a Federal statute or regulation, an assurance, or the agreement, the U.S. Forest Service may wholly or partly suspend or terminate the current agreement.

AA. TERMINATION BY MUTUAL AGREEMENT. This agreement may be terminated, in whole or part, as follows:

1. When the U.S. Forest Service and CAG agree upon the termination conditions, including the effective date and, in the case of partial termination, the portion to be terminated.
2. By 30 days written notification by CAG to the U.S. Forest Service setting forth the reasons for termination, effective date, and in the case of partial termination, the portion to be terminated. If the U.S. Forest Service decides that the remaining portion of the agreement does not accomplish the purpose for which the award/agreement was made, the U.S. Forest Service may terminate the award upon 30 days written notice in its entirety.

BB. ALTERNATE DISPUTE RESOLUTION – PARTNERSHIP AGREEMENT. In the event of any issue of controversy under this agreement, the parties may pursue Alternate Dispute Resolution procedures to voluntarily resolve those issues. These



procedures may include, but are not limited to conciliation, facilitation, mediation, and fact finding.

CC. DEBARMENT AND SUSPENSION. CAG shall immediately inform the U.S. Forest Service if they or any of their principals are presently excluded, debarred, or suspended from entering into covered transactions with the Federal Government according to the terms of 2 CFR Part 180. Additionally, should CAG or any of their principals receive a transmittal letter or other official Federal notice of debarment or suspension, then they shall notify the U.S. Forest Service without undue delay. This applies whether the exclusion, debarment, or suspension is voluntary or involuntary.

DD. COPYRIGHTING. CAG is granted sole and exclusive right to copyright any publications developed as a result of this agreement. This includes the right to publish and vend throughout the world in any language and in all media and forms, in whole or in part, for the full term of copyright and all renewals thereof in accordance with this agreement.

No original text or graphics produced and submitted by the U.S. Forest Service must be copyrighted. The U.S. Forest Service reserves a royalty-free, nonexclusive, and irrevocable right to reproduce, publish, or otherwise use, and to authorize others to use the work for Federal Government purposes. This right must be transferred to any sub-agreements or subcontracts.

This provision includes:

1. The copyright in any work developed by CAG under this agreement.
2. Any right of copyright to which CAG purchase(s) ownership with any Federal contributions.

EE. PUBLICATION SALE. CAG may sell any publication developed as a result of this agreement. The publication may be sold at fair market value, which is initially defined in this agreement to cover the costs of development, production, marketing, and distribution. After the costs of development and production have been recovered, fair market value is defined in this agreement to cover the costs of marketing, printing, and distribution only. Fair market value must exclude any in-kind or Federal Government contributions from the total costs of the project.

FF. MODIFICATIONS. Modifications within the scope of this agreement must be made by mutual consent of the parties, by the issuance of a written modification signed and dated by all properly authorized, signatory officials, prior to any changes being performed. Requests for modification should be made, in writing, at least 30 days prior to implementation of the requested change.

GG. COMMENCEMENT/EXPIRATION DATE. This agreement is executed as of the date of the last signature and is effective through December 31, 2020 at which time



it will expire. The expiration date is the final date for completion of all work activities under this agreement.

**VI. APPROVAL.**

AUTHORIZED REPRESENTATIVES. By signature below, each party certifies that the individuals listed in this document as representatives of the individual parties are authorized to act in their respective areas for matters related to this agreement. In witness whereof, the parties hereto have executed this agreement as of the last date written below.

RAY KEELER , President  
Central Arizona Grotto

11/30/2017  
Date

KERWIN S. DEWBERRY , Forest Supervisor  
U.S. Forest Service, Coronado National Forest

Nov. 30, 2017  
Date

The authority and format of this agreement have been reviewed and approved for signature.

IRIS G. ALMAZAN  
U.S. Forest Service Grants Management Specialist

11/30/2017  
Date

**Burden Statement**

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0596-0217. The time required to complete this information collection is estimated to average 4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW, Washington, DC 20250-9410 or call toll free (866) 632-9992 (voice). TDD users can contact USDA through local relay or the Federal relay at (800) 877-8339 (TDD) or (866) 377-8642 (relay voice). USDA is an equal opportunity provider and employer.

Exhibit A  
Agreement 18-CS-11030500-001  
Fiscal Year (FY) 2018 Operating Plan

**Project Title:** Peppersauce Cave Restoration and Monitoring Project

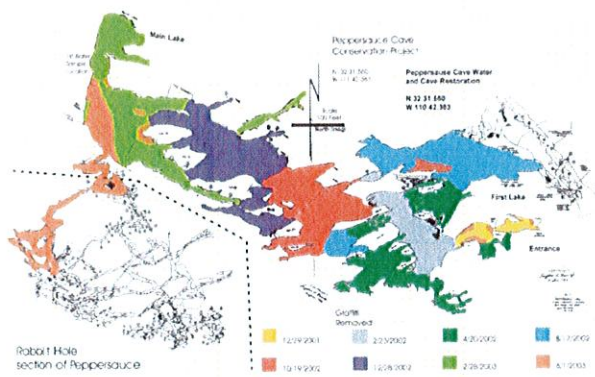
**Project Background:**

Peppersauce Cave is located in Nugget Canyon on the north side of Mt. Lemmon in the Santa Catalina Ranger District of the Coronado National Forest. The cave has approximately 7300 feet of passage and is the most visited wild cave in Arizona, with an estimated 15,000 visitors per year. Because there is no regular on-site management of the cave, it is heavily graffiti tagged.

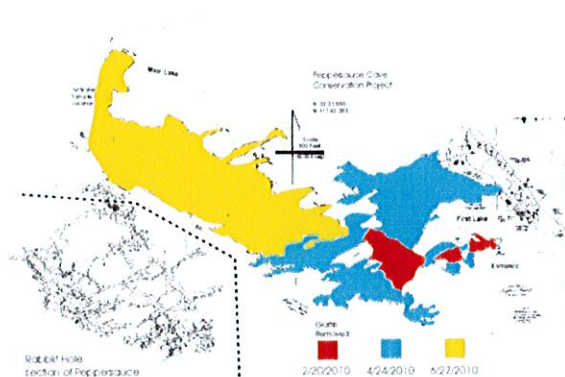
Central Arizona Grotto (CAG) of the National Speleological Society (NSS) is proposing to monitor Peppersauce Cave for new graffiti and remove graffiti with the methods and staffing described below. The grotto will work with other local NSS grottos, PCCP and qualified individuals cooperatively to fulfil project goals. The proposed work would have a value to the Forest of approximately \$76,722, including the hours of volunteer labor, mileage to and from the site, hours of equipment use, and donated supplies.

Two significant graffiti removal projects have been completed at Peppersauce Cave, in eight work sessions between December 2001 and June 2003, and three sessions between February and June 2010. These were coordinated by the Central Arizona Grotto (CAG) and the Peppersauce Cave Conservation Project (PCCP). The first effort cleaned all graffiti from the cave entrance (“Entrance”) through the “Big Room”/“Lake Room” passages and some passages beyond the “Rabbit Hole”. Approximately 5500 feet of passage was treated. After the first cleaning effort, the cave remained relatively free of new graffiti until the summer of 2009, when graffiti started coming back and then proliferated. In the second removal project graffiti was again removed through the Big Room/Lake Room passages. It was noted at the beginning of the second cleaning effort that although there were hundreds of tags, the graffiti was not as bad as before the first effort, which had removed decades of tags.

Figures 1 and 2 show the extent of the Peppersauce Cave graffiti removal by 2003, and the 2010 cleaning.



**Figure 1.** Dec. 2001 through June 2003



**Figure 2.** Feb. 2010 through June 2010

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Fiscal Year (FY) 2018 Operating Plan

Following the removal efforts, a 2014 inventory of graffiti by CAG located approximately 350 new tags before the Rabbit Hole.

The graffiti removal equipment that was used in Peppersauce Cave has been widely used elsewhere, including in three Arizona caves (Coronado NF, White Mountain Apache Tribe, Coconino NF), and caves in five other states for the NSS, Bureau of Land Management, and a city municipality, with significant results.

**Project Objectives:**

- Clean/remove all graffiti in Peppersauce Cave and continue monitoring for new graffiti.
- Restore/replace signage on the trail leading to the Peppersauce Cave.
- Replace reflective IN/OUT arrows in the ceiling to reduce graffiti arrow tags.

**CAG Shall:**

1. Coordinate directly with the Santa Catalina Ranger District Staff and the designated U.S. Forest Service Program Manager for the scheduling and execution of project work. All field project work and schedule changes require U.S. Forest Service prior approval.
2. Outreach, recruit, coordinate and schedule no less than 20 volunteer days per event in support of the Peppersauce Cave graffiti removal project.
3. Remove no less than 80% of graffiti currently adhered to the walls of Peppersauce Cave using approved U.S. Forest Service removal methods.
4. Replace and/or repair kiosk, and reflective In/Out signage in the cave. The CAG will consult with the U.S. Forest Service for specific guidance on signage specifications. All signage must comply with U.S. Forest Service guidelines and dimensions, as necessary, applicable and/or specifications are available.
5. Provide all equipment necessary for the implementation of the project, including but not limited to:
  - a. Compressor: weighing 475 pounds, this largest and heaviest component, the compressor is bolted to the trailer, but can be removed and relocated if needed. Dimensions: 30 inches wide x 4 feet long x 4 feet high. Compressor pressure is 175 PSI; in-line regulator drops pressure down to 90 PSI per team/hose.
  - b. High Pressure Hoses: approximately 1000 feet of large (3/4 inch) and 550 feet of smaller (3/8 inch) hose in 50-foot sections.
  - c. Blasting media composed of small glass beads will be used and tarps will be utilized to restrict media spread and to collect the spent media for removal from the cave.
    - \* If needed, an alternative method of graffiti removal will consist of biodegradable solvent with brushing. Tarps will be used to reduce solvent from reaching the cave floor. Bristle brushes will be used to remove the graffiti. Water and towels will dilute the solvent and graffiti removed from the rock.

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- d. Gas-powered generator & lights: a 2-20 Amp 110V socket capability generator will be used to generate electric power for lights and other tools inside the cave. Approximately 1900 feet of 12-gauge extension cords will be attached to the generator.
- e. Other equipment: three tubs, each containing goggles, dust masks, gloves, and other misc. items, including one power drill (capable of being equipped with a wire brush attachment) per team. Three phones and phone lines for communication between blasting teams.

**Period of Performance:**

The period of performance for this project is from date of signature through August 2018; the proposed schedule of events is:

- 2/9-11, 2018 (1st choice) or 2/16-18, 2018 (2nd choice)
- April, 2018
- June, 2018
- August, 2018 (if needed)

(Each of the above removal events will include a Friday afternoon equipment set-up and check and a Saturday pre-work safety session beginning at 8 a.m. followed by a work session ending at 5 p.m. Travel to the site will take place on Friday, and the return home from the site on Sunday. CAG is requesting the use of the Peppersauce Campground, and if possible, cooperation of the Santa Catalina Ranger District and/or Forest Recreation Staff in reserving the campground for the clean-up events).

**Performance Reporting:**

Provide a draft report to the designated U.S. Forest Service Program Manager, after each scheduled event. The draft performance report must contain and address the following information:

- A comparison of actual accomplishments to the goals established for the period. Where the output of the project can be readily expressed in numbers, a computation of the cost per unit of output, if applicable.
- Reason(s) for delay if established goals were not met.
- volunteer hours, total volunteer days, miles, and locations of work
- Additional pertinent information

The draft performance report is due no later than 30 days from the conclusion of each event.

Exhibit A

USFS Agreement No.:

18-CS-11030500-001

Mod. No.:

Cooperator Agreement No.:

**Note: This Financial Plan may be used when:**  
 (1) No program income is expected and  
 (2) The Cooperator is not giving cash to the FS and  
 (3) There is no other Federal funding

**Agreements Financial Plan (Short Form)**

Note: All columns may not be used. Use depends on source and type of contribution(s).

**Financial Plan Matrix:**

COST ELEMENTS	FOREST SERVICE CONTRIBUTIONS			COOPERATOR CONTRIBUTIONS		(e) Total
	(a) Noncash	(b) Cash to Cooperator	(c) Noncash	(d) In-Kind		
Direct Costs						
Salaries/Labor	\$13,250.00	\$0.00	\$0.00	\$48,845.50		\$62,095.50
Travel	\$61.60	\$0.00	\$0.00	\$16,335.00		\$16,396.60
Equipment	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00
Supplies/Materials	\$0.00	\$0.00	\$9,411.49	\$175.00		\$9,586.49
Printing	\$0.00	\$0.00	\$68.00	\$0.00		\$68.00
Other	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00
Other						\$0.00
Subtotal	\$13,311.60	\$0.00	\$9,479.49	\$65,355.50		\$88,146.59
Coop Indirect Costs	\$1,064.93	\$0.00	\$947.95			\$947.95
FS Overhead Costs						\$1,064.93
<b>Total</b>	<b>\$14,376.53</b>	<b>\$0.00</b>	<b>\$10,427.44</b>	<b>\$65,355.50</b>		<b>\$90,159.47</b>

Matching Costs Determination	
Total Forest Service Share = (a+b) ÷ (e) = (f)	(f) 15.95%
Total Cooperator Share (c+d) ÷ (e) = (g)	(g) 84.05%
Total (f+g) = (h)	(h) 100.00%



## WORKSHEET FOR

### FS Non-Cash Contribution Cost Analysis, Column (a)

#### Salaries/Labor

##### Standard Calculation

Job Description	Cost/Day	# of Days		Total
Geologist	\$459.00	20.00		\$9,180.00
District Biologist	\$436.00	5.00		\$2,180.00
Hydrologist	\$378.00	5.00		\$1,890.00
Archeologist	\$409.00	2.00		

<b>Total Salaries/Labor</b>	<b>\$13,250.00</b>
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#### Travel

##### Standard Calculation

Travel Expense	Employees	Cost/Trip	# of Trips		Total
Travel to and from site		\$30.80	2.00		\$61.60
55mi X .54/mi X 2 trips					\$0.00

<b>Total Travel</b>	<b>\$61.60</b>
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#### Equipment

##### Standard Calculation

Piece of Equipment	# of Units	Cost/Day	# of Days		Total
<b>Total Equipment</b>					<b>\$0.00</b>

#### Supplies/Materials

##### Standard Calculation

Supplies/Materials	# of Items	Cost/Item		Total
<b>Total Supplies/Materials</b>				<b>\$0.00</b>

#### Printing

##### Standard Calculation

Paper Material	# of Units	Cost/Unit		Total
<b>Non-Standard Calculation</b>				

<b>Total Printing</b>	<b>\$0.00</b>
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#### Other Expenses

##### Standard Calculation

Item	# of Units	Cost/Unit		Total
<b>Total Other</b>				<b>\$0.00</b>

<b>Subtotal Direct Costs</b>	<b>\$13,311.60</b>
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#### Forest Service Overhead Costs

Current Overhead Rate	Subtotal Direct Costs		Total
8.00%	\$13,311.60		\$1,064.93

<b>Total FS Overhead Costs</b>	<b>\$1,064.93</b>
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<b>TOTAL COST</b>	<b>\$14,376.53</b>
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## WORKSHEET FOR

### Cooperator Non-Cash Contribution Cost Analysis, Column (c)

<b>Salaries/Labor</b>					
<b>Standard Calculation</b>					
Job Description		Cost/Day	# of Days		Total
<b>Total Salaries/Labor</b>					<b>\$0.00</b>
<b>Travel</b>					
<b>Standard Calculation</b>					
Travel Expense	Employees	Cost/Trip	# of Trips		Total
<b>Total Travel</b>					<b>\$0.00</b>
<b>Equipment</b>					
<b>Standard Calculation</b>					
Piece of Equipment	# of Units	Cost/Day	# of Days		Total
<b>Total Equipment</b>					<b>\$0.00</b>
<b>Supplies/Materials</b>					
<b>Standard Calculation</b>					
Supplies/Materials		# of Items	Cost/Item		Total
<b>Project Equipment</b>					<b>\$0.00</b>
trailer hitch		1.00	\$41.23		\$41.23
trailer plank replacement		1.00	\$27.00		\$27.00
military phone batteries		8.00	\$2.00		\$16.00
AAA batteries		2.00	\$18.00		\$36.00
5-100' one inch firehose		5.00	\$100.00		\$500.00
firehose couplers		2.00	\$60.00		\$120.00
battery for compressor		1.00	\$61.26		\$61.26
Regulator repair		1.00	\$50.00		\$50.00
gas-compressor and generator gas		40.00	\$2.35		\$94.00
sand blast media		20.00	\$50.00		\$1,000.00
biodegradable solvent-5 gal ea.		4.00	\$425.00		\$1,700.00
Compressor, generator misc.		1.00	\$50.00		\$50.00
towels		20.00	\$1.00		\$20.00
					\$0.00
					\$0.00
<b>Team Equipment</b>					<b>\$0.00</b>
Blue Tarps		10.00	\$10.00		\$100.00
Sand blast Units		3.00	\$40.00		\$120.00
Glass beads		20.00	\$50.00		\$1,000.00
buckets, light bulbs		20.00	\$50.00		\$1,000.00
Other team gear		3.00	\$20.00		\$60.00
Hand pump water cans		3.00	\$20.00		\$60.00
3 GFIs, 3 funnels, 3 tubs		3.00	\$32.00		\$96.00
bristle and wire brushes		10.00	\$3.00		\$30.00
					\$0.00
					\$0.00
<b>Individual Equipment</b>					<b>\$0.00</b>
half face dust masks		60.00	\$2.25		\$135.00
face shields		12.00	\$16.00		\$192.00
safety glasses		60.00	\$2.50		\$150.00
safety goggles		30.00	\$4.50		\$135.00
gloves-latex		10.00	\$2.50		\$25.00

gloves-leather-5 pack		2.00	\$9.00		\$18.00
					\$0.00
<b>Reflective Arrow Signs</b>					\$0.00
Reflective Tape		2.00	\$40.00		\$80.00
Alluminum signs		20.00	\$4.75		\$95.00
expansion bolts		40.00	\$2.00		\$80.00
					\$0.00
<b>Kiosk Restoration</b>					\$0.00
Covering Plexiglas		2.00	\$60.00		\$120.00
Sign Panels		2.00	\$800.00		\$1,600.00
Additional signage for kiosk: "no spray paint, pee outside of cave, at least one light per person", etc.		1.00	\$300.00		\$300.00
Miscellaneous items and items not yet thought of.		1.00	\$300.00		\$300.00
					\$0.00
<b>Surveillance</b>					\$0.00
Trail cameras, memory cards, monitoring					\$0.00
<b>Total Supplies/Materials</b>					<b>\$9,411.49</b>
<b>Printing</b>					
<b>Standard Calculation</b>					
Paper Material		# of Units	Cost/Unit		Total
8x11 - ream		1.00	\$8.00		\$8.00
large format Peppersauce maps		15.00	\$4.00		\$60.00
<b>Total Printing</b>					<b>\$68.00</b>
<b>Other Expenses</b>					
<b>Standard Calculation</b>					
Item		# of Units	Cost/Unit		Total
<b>Total Other</b>					<b>\$0.00</b>
<b>Subtotal Direct Costs</b>					
				<b>\$9,479.49</b>	
<b>Cooperator Indirect Costs</b>					
Current Overhead Rate	Subtotal Direct Costs				Total
10.00%	\$9,479.49				\$947.95
<b>Total Coop. Indirect Costs</b>					<b>\$947.95</b>
<b>TOTAL COST</b>				<b>\$10,427.44</b>	

## WORKSHEET FOR

### Cooperator In-Kind Contribution Cost Analysis, Column (d)

#### Salaries/Labor

<b>Standard Calculation</b>					
Job Description	Employees	Cost/Day	# of Events		Total
Volunteers	20	\$188.32	5.00		\$18,832.00
Project Coordinator	1	\$588.50	5.00		\$2,942.50
Volunteers- Travel time to from PHX	25	\$141.24	5.00		\$17,655.00
Volunteers- Travel time to from TUC	20	\$94.16	5.00		\$9,416.00

<b>Total Salaries/Labor</b>	<b>\$48,845.50</b>
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#### Travel

<b>Standard Calculation</b>					
Travel Expense	Employees	Cost/Trip	# of Events		Total
Phoenix area-Fri/Sat-carpool	15	\$162.00	5.00		\$12,150.00
Tucson area-Fri/Sat-carpool	10	\$81.00	5.00		\$4,050.00
Project Coordinator Prep/Post Project W	1	\$27.00	5.00		\$135.00

<b>Total Travel</b>	<b>\$16,335.00</b>
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#### Equipment

<b>Standard Calculation</b>					
Piece of Equipment	# of Units	Cost/Day	# of Days		Total
<b>Total Equipment</b>					<b>\$0.00</b>

#### Supplies/Materials

<b>Standard Calculation</b>					
Supplies/Materials		# of Items	Cost/Item		Total
<b>Reflective Arrow Signs</b>					\$0.00
Reflective sign material (white, green)		2.00	\$75.00		\$150.00
Liquid nails-reflective sign installation		100.00	\$0.25		\$25.00

<b>Total Supplies/Materials</b>	<b>\$175.00</b>
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#### Printing

<b>Standard Calculation</b>					
Paper Material		# of Units	Cost/Unit		Total
<b>Total Printing</b>					<b>\$0.00</b>

#### Other Expenses

<b>Standard Calculation</b>					
Item		# of Units	Cost/Unit		Total
<b>Total Other</b>					<b>\$0.00</b>

<b>Subtotal Direct Costs</b>	<b>\$65,355.50</b>
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<b>TOTAL COST</b>	<b>\$65,355.50</b>
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