

**U.S. Army Corps of Engineers  
Fiscal Year 2014  
Handshake Program Application**

**Please review instructions before completing application!**

---

Corps Lake/Project Name: **Kaw Reservoir, Tulsa District**

Handshake Proposal Title: **Deer Creek Site Geophysical and Archaeological Investigations**

Corps POC Name: **Ken Shingleton**

Telephone: **(918) 669 - 7661** ext.

E-Mail: **kenneth.l.shingleton@usace.army.mil**

---

**A. Eligibility checklist:**

1. Will the Handshake funds be spent on Corps facilities and resources that are being fully maintained by the Corps? \*  Yes  No
  
2. Will the Challenge Partnership agreement be with a non-federal public or private entity(ies)? \*  Yes  No
  
3. Is the proposed activity within current authorities and contained in the annual or 5-year work plan in the approved lake project OMP? \*\*  Yes  No

*\*If "No" to any of the above questions the proposal cannot be authorized under the Corps' challenge partnership authority.*

---

**B. Handshake Funding Program Request (maximum \$30,000): \$25,000**

**C. Cooperative Agreement Bonus:** Challenge Partnerships that include a Cooperating Association with which your project/district has entered into a Cooperative Agreement are eligible to compete for an additional \$5000. You must include a copy of the signed agreement with your proposal. (Reference Chapter 9 of ER and EP 1130-2-500 for information on cooperating associations).

**D. Incentive Points Category:** Check the box if your application qualifies to receive bonus points on the evaluation score for partnering with three or more partners. A summary of the partners' contribution to the Handshake Project should be included in the financial worksheet below.

- Application includes 3 partners (25 bonus points)
- Application includes 4 partners (40 bonus points)
- Application includes 5 partners (50 bonus points)
- Application includes \_\_\_\_\_ partners (50 bonus points for the first 5 partners plus 10 points for each additional partner)

**E. Describe your partnership and the proposed project:**

Your project will be evaluated on the following categories: Sustainability, Partnership Value, Recreation Benefit, Environmental Stewardship Benefit, Communication and Education Value, and Innovativeness. Please address each in your description.

**Description:**

The Deer Creek Site (34KA3), located at Kaw Lake in northcentral Oklahoma, is listed on the National Register of Historic Places (NRHP) and is a National Historic Landmark (NHL). As an NHL, Deer Creek retains special significance among the most significant of cultural resources in the U.S. and is administratively tracked by the National Park Service.

Deer Creek is a Protohistoric site -- or Contact Period -- dating to the early 1700's and closely associated with the French exploration of the southern and central Plains. It is one of only three such (known) sites in the southern Plains. Specifically, the site is directly related to the southern Plains expeditions of the French explorers Jean-Baptiste Benard sur de la Harpe and Claude-Charles du Tisne. Previous, limited test excavations at Deer Creek several decades ago yielded an extensive assemblage of Wichita artifacts coupled with French glass trade beads, gunflints, and metal musket parts. These investigations also identified the artifactual remains of an extensive bison hide trade and European goods network that was then developing between the Wichita Indians and the French.

The site is large, covering 100 acres or more and all of which is located on government property at Kaw Lake. The Corps of Engineers installed a perimeter fence around the site decades ago, and from a September 2013 recon this fence retains integrity in most areas. In that September 2013 recon, Corps personnel examined the cutbank which extends the entire length of the site along the Arkansas River (main stem) arm of Kaw Lake. Some erosion of the cutbank from normal pool operations and from floodpool operations was noted. In addition to potential effects from pool operations, there has been much discussion in the historic preservation community about adverse effects on the site surface because of tree and understory overgrowth, as well as ongoing vandalism and looting (despite the perimeter fence). An assessment of surface impacts at the site is forthcoming and the extent to which these impacts may or may not be adverse effects has not been determined.

The proposed project would consist of a multi-phased effort to identify subsurface features at the site and then to assess the degree to which the site may have been impacted by natural processes, land management activities, and pool operations. If necessary in the near future, resolution of adverse effects -- as required under Section 106 of the National Historic Preservation Act -- could be accomplished through development of a Memorandum of Agreement (MOA) and associated mitigation activities.

Identification of subsurface features would be accomplished primarily through the use of appropriate geophysical techniques, such as gradiometer or magnetometer. Surface survey with limited shovel testing would likely be utilized as a complimentary technique. Ultimately, the effort would produce a map of potential subsurface features and artifact concentrations with which a Research Design could be developed. The Research Design would then guide further investigation, or ultimately, mitigation, activities at the site.

The proposed project will contribute significantly to the Sustainability of cultural resources on Corps lands. Similarly, the Environmental Stewardship Value of the proposed project is significant. The Corps has a responsibility under the National Historic Preservation Act and the Archaeological Resources Protection Act to preserve significant cultural resources for perpetuity. Deer Creek -- as an NHL -- is one of the most significant in the Corps' inventory. The proposed project will assist the Corps to identify any potential adverse effects at the site (and thereby comply with Section 106), but will also allow for limited resolution of adverse effects which will facilitate the preservation of the majority of the site for perpetuity. Additionally, acquiring data from the site and

utilizing it for education, research, and cultural purposes translates directly to the Sustainability, Environmental Stewardship Value, and Communication and Education Value aspects of the Handshake Program.

Similarly, the proposed project has significant Communication and Education Value as the Corps develops this working relationship with the Oklahoma Archeological Survey (OAS, which is directly affiliated with the University of Oklahoma), Oklahoma State University (OSU), Oklahoma Anthropological Society, and the Wichita and Affiliated Tribes. With the Wichita Tribe and university-based investigation team, the education benefit is substantial. Many on the field crew will likely be avocational archaeologists (Oklahoma Anthropological Society) and undergraduate and graduate students from OU and OSU. Accordingly, much of the information derived from this project may be useful in development of Master's theses and Doctoral dissertations, but also in Public education programs including exhibits at the Sam Noble Oklahoma Museum of Natural History in Norman (directly affiliated with the University of Oklahoma). Specifically with regard to the Wichita Tribe, this project has the potential to bring the Tribe's history back to them, to share knowledge of Wichita lifeways as they were in the early 1700s.

Extensive involvement from the Public (Oklahoma Anthropological Society) and the public education system in Oklahoma, including OAS (which is associated with the University of Oklahoma) and Oklahoma State University make this a truly unique project. With the added involvement from the Wichita and Affiliated Tribes, the Partnership Value of this proposal is significant. These four partners will conduct all the field labor associated with the project, and they will provide the expertise to conduct the geophysical and archaeological investigations. The Partners are critical to the project; without these Partners, there is no project.

Lastly, the proposed project is high in Innovativeness. The use of modern geophysical techniques is still innovative in archaeology, although it is utilized more and more in appropriate situations. The use of geophysical techniques ultimately reduces field effort (e.g., excavation) and associated cost. The use of geophysical techniques is also sustainable; most of the site will be left untouched (unexcavated) and will remain preserved for future researchers. Geophysical investigation allows for specific targeting when conducting limited subsurface investigation of potential archaeological features.

**The Corps will:**

Tulsa District will provide leadership in the coordination effort, including consultation with the Oklahoma State Historic Preservation Office (SHPO), Advisory Council on Historic Preservation (ACHP), National Park Service (NPS), and the Wichita and Affiliated Tribes of Oklahoma. Because this site is so significant as an NHL, there will be considerable coordination requirements as a part of the agency's normal Section 106 and 110 efforts. Similarly, the Corps will also coordinate partnering elements and facilitate entry to the site and provide long-term (continuing) management for the site. Additionally, the Corps will conduct limited prescribed vegetation burns at the site in order to clear understory and facilitate the geophysical and archaeological investigation efforts.

**The Partner(s) will:**

Partners to the Deer Creek project will provide volunteer labor necessary to conduct the geophysical and archaeological investigation. Dr. Richard Drass of the Oklahoma Archeological Survey (OAS) will provide project management. Dr. Drass has worked for a number of years directing excavations at the Bryson-Paddock Site in northcentral Oklahoma, which is one of the other two recorded Protohistoric Wichita sites in the region. Dr. Drass' expertise in Protohistoric Wichita sites is critical to the investigation. Geophysical expertise will be provided by OAS; for the last several years OAS has been leading a geophysical crew (predominantly

gradiometer) working at Spiro Mounds in southeastern Oklahoma. In addition to the OAS effort, Dr. Stephen Perkins of Oklahoma State University (OSU), also a professor with expertise in Protohistoric Wichita sites, will provide assistance. For additional volunteer assistance, the OAS will likely utilize avocational personnel from the Oklahoma Anthropological Society, and undergraduate and graduate students from the University of Oklahoma (through OAS), Oklahoma State University, and possibly the University of Arkansas. Assistance from faculty and graduates students from the University of Tulsa is also a possibility.

The Wichita and Affiliated Tribes will provide volunteer assistance to the extent possible, and will provide expertise in interpretation of Contact period activities, which may assist in interpretation of geophysical and archaeological features. Ultimately, because the proposed investigations are to be conducted on an ancestral Wichita site, this Tribe will be closely involved in the effort.

In short, Partners will provide the a significant amount of professional labor and volunteer labor, as well as the use of specialized equipment (e.g., gradiometer). The Corps will provide light equipment as necessary, expendable supplies and materials, and project coordination and oversight. An assorted array of avocational archaeologists, university professors, and graduate students will be assembled for the field effort, and the OAS will analyze the associated data and in the end, produce a research design to guide further activities at the site.

## Challenge Partnership Financial Work Sheet

Corps Project Name: Kaw Reservoir, Tulsa District

Work Project Title: Deer Creek Site Geophysical And Archaeological Investigations

POC Name: Ken Shingleton

Address: 1645 S. 101 E. Ave.

City: Tulsa

State: OK Zip Code: 74135

Telephone: 918 - 669 - 7661 x

Location on Project: District Office

---

Partner Organization 1: Oklahoma Archeological Survey

POC Name: Dr. Richard Drass

Address: 111 E. Chesapeake

City: Norman

State: OK Zip Code: 73019

Telephone: 405 - 325 - 7211 x

---

Partner Organization 2: Wichita and Affiliated Tribes of Oklahoma

POC Name: Mr. Gary Mcadams

Address: P.O. Box 729

City: Anadarko

State: OK Zip Code: 73005

Telephone: 405 - 247 - 2425 x

---

Partner Organization 3: Oklahoma Anthropological Society

POC Name: Debra Baker, President (Baker1994@Sbcglobal.Net)

Address: c/o Cathy Compton, Treasurer, 401 NW 46<sup>th</sup> Terrace  
73118

City: Oklahoma City State: OK Zip Code:

Telephone: 580 - 678 - 1416 x

---

Partner Organization 4: Oklahoma State University

POC Name: Dr. Stephen Perkins

Address: 410 Murray Hall

City: Stillwater

State: OK Zip Code: 74078

Telephone: 405 - 744 - 6123 x

---

Partner Organization 5:

POC Name:

Address:

City:

State:

Zip Code:

Telephone: - - x

---

Partner Organization 6:

POC Name:

Address:

City:

State:

Zip Code:

Telephone: - - x

---

Partner Organization 7:

POC Name:

Address:

City:

State:

Zip Code:

Telephone:        -        -        x

---

Partner Organization 8:

POC Name:

Address:

City:

State:

Zip Code:

Telephone:        -        -        x

---

Partner Organization 9:

POC Name:

Address:

City:

State:

Zip Code:

Telephone:        -        -        x

---

Proposed start date of work: Dec-13

Simple description of work to be accomplished through the partnership: The proposed project would consist of a multi-phased effort to identify subsurface features at the site and then to assess the degree to which the site may have been impacted by natural processes, land management activities, and pool operations. If necessary in the near future, resolution of adverse effects -- as required under Section 106 of the National Historic Preservation Act -- could be accomplished through development of a Memorandum of Agreement (MOA) and associated mitigation activities.

Identification of subsurface features would be accomplished primarily through the use of appropriate geophysical techniques, such as gradiometer or magnetometer. Surface survey with limited shovel testing would likely be utilized as a complimentary technique. Ultimately, the effort would produce a map of potential subsurface features and artifact concentrations with which a Research Design could be developed. The Research Design would then guide further investigation, or ultimately, mitigation, activities at the site.

Double click on spreadsheet to access data entry fields:

	Local Corps Office	Handshake Funds	OAS	Wichita Tribe	OK Anth Soc	OSU
Salaries	\$0	N/A	\$25,000	\$0	\$0	\$15,000
Travel	\$0	N/A	\$7,500	\$0	\$0	\$5,000
Materials and Supplies	\$0	\$10,000	\$0	\$0	\$0	\$0
Equipment Use	\$0	\$0	\$20,000	\$0	\$0	\$5,000
Funds Contributed	N/A	N/A	\$0	\$0	\$0	\$0
Personal Property	N/A	N/A	\$0	\$0	\$0	\$0
Volunteer	N/A	N/A	\$10,000	\$5,000	\$20,000	\$10,000
In-Kind Services	N/A	N/A	\$0	\$0	\$0	\$0
Other (explain below)	\$0	\$15,000	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$0</b>	<b>\$25,000</b>	<b>\$62,500</b>	<b>\$5,000</b>	<b>\$20,000</b>	<b>\$35,000</b>
<b>Share of Total Cost</b>	0.0%	16.9%	42.4%	3.4%	13.6%	23.7%

	Partner 5	Partner 6	Partner 7	Partner 8	Partner 9	Total
Salaries	\$0	\$0	\$0	\$0	\$0	\$40,000
Travel	\$0	\$0	\$0	\$0	\$0	\$12,500
Materials and Supplies	\$0	\$0	\$0	\$0	\$0	\$10,000
Equipment Use	\$0	\$0	\$0	\$0	\$0	\$25,000
Funds Contributed	\$0	\$0	\$0	\$0	\$0	\$0
Personal Property	\$0	\$0	\$0	\$0	\$0	\$0
Volunteer	\$0	\$0	\$0	\$0	\$0	\$45,000
In-Kind Services	\$0	\$0	\$0	\$0	\$0	\$0
Other (explain below)	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$147,500</b>
<b>Share of Total Cost</b>	0.0%	0.0%	0.0%	0.0%	0.0%	100%

Explanations: Handshake funds would specifically be utilized to purchase supplies and materials necessary for prescribed burns, and to provide equipment and materials necessary for the geophysical and archaeological investigations. If necessary, handshake funds would be utilized to purchase geophysical investigation equipment and supplies as appropriate in order to augment the existing OAS equipment.

Depending on prescribed burn and vegetation clearing requirements, these activities may need to be acquired by contract. Additionally, handshake funds would be utilized for analytical techniques as appropriate, including radiocarbon dating, specialized artifact analyses, residue analyses, etc. Curation materials for the long-term storage of artifacts and associated documentation would also be acquired with Handshake funds.

Outside of vegetation clearing and providing access, the Corps contribution will focus on project oversight and Section 106 coordination for the overall effort. All field effort and analysis will be provided by OAS, OSU, and the Oklahoma Anthropological Society with a small amount of labor provided by the Wichita Tribe.