

**FISCAL YEAR (FY) 2024 ANNUAL REPORT:**  
***PROGRAMMATIC AGREEMENT AMONG U.S. ARMY GARRISON FORT CARSON, COLORADO***  
***STATE HISTORIC PRESERVATION OFFICER, AND THE ADVISORY COUNCIL ON HISTORIC***  
***PRESERVATION REGARDING MILITARY TRAINING AND OPERATIONAL SUPPORT ACTIVITIES AT***  
***PIÑON CANYON MANEUVER SITE, FORT CARSON, COLORADO***

**NOVEMBER 15, 2024**

The U.S. Army Garrison (USAG) Fort Carson submits the following annual report to the State Historic Preservation Officer (SHPO) and concurring parties in accordance with Stipulation VI of the *Programmatic Agreement among U.S. Army Garrison Fort Carson, Colorado State Historic Preservation Officer, and the Advisory Council on Historic Preservation regarding Military Training and Operational Support Activities at Piñon Canyon Maneuver Site, Fort Carson, Colorado*, hereafter referred to as the PCMS PA. This report covers the period from October 1, 2023, through September 30, 2024, and includes information as outlined in Stipulation VI.A. It has been distributed electronically to the SHPO and concurring parties and is available online at:

<https://home.army.mil/carson/Directorate/directorate-public-works/nepa-and-cultural-resources-documents>.

## **I. Exempted Undertakings**

Table 1 of Enclosure 1 lists all exempted undertakings that have been reviewed by the Cultural Resources Managers (CRMs) during the reporting year. Twenty undertakings were reviewed that were considered exempted in accordance with Appendix 1 of the PCMS PA.

## **II. Non-Exempted Undertakings**

No undertakings required consultation under Section 106 of the National Historic Preservation Act (NHPA) this reporting cycle (Table 2 of Enclosure 1).

The following is an update to the status of Section 106 consultation continuing from the fiscal year 2024 reporting period:

- 2022-043 Off-Installation Low-Elevation Flight Training consultation was initiated in November 2021. Responses have been received from the State Historic Preservation Officer, Pike-San Isabel National Forest & Cimarron and Comanche National Grasslands, Edgar Ranches LLC, Huerfano County Commissioners, Las Animas County Commissioners, Not 1 More Acre!, Otero County Commissioners, Santa Fe Trail Association, Pawnee Nation of Oklahoma, Northern Cheyenne Tribe, and the National Park Service's National Trails Intermountain Region.
- On October 11, 2023, Fort Carson sent a response letter and supplement to the existing undertaking review to SHPO and consulting parties regarding rotor wash and ultra-sonic vibrations.

- On October 31, 2023, Fort Carson received an email from SHPO asking for more information in response to the supplement. The information they asked for is covered in the previous review packets and response letters.
- On November 5, 2023, Fort Carson received a letter from Otero County focused on the impacts to the sections of the Santa Fe Trail that are within the APE of the four routes and included Santa Fe Trail Association. As a result, Santa Fe Trail Association asked for the response letter and supplement on November 13, 2023. Fort Carson added them to the contact list for the undertaking consultation and provided them the October 2023 response letter and supplement.
- On March 11, 2024, Fort Carson sent a letter to seek ACHP's review of the finding to SHPO, Otero County, Santa Fe Trail Association and National Parks Service. SHPO responded on March 29, 2024 and Otero County responded on April 10, 2024 that they still did not concur with the finding.
- Fort Carson prepared a letter to ACHP to request their review of the finding of "no adverse effect" in the proposed low-level aviation training between Fort Carson and PCMS. The letter was sent on May 7, 2024 to ACHP, FPO, and AEC.
- ACHP responded on May 21, 2024 notifying Fort Carson that they are extending their review time by an additional 15 days and their opinion will be sent by June 5, 2024. On June 5, 2024, ACHP sent the letter detailing their opinion, guidance, and recommendations of the undertaking. Their advisory opinion was Fort Carson had conducted a reasonable and good faith identification effect; and correctly applied the criteria of adverse effect to the historic properties. To address the communication issue, they recommended Fort Carson to host a meeting with the SHPO and consulting parties to discuss the outstanding issues associated with the undertaking. In regards to the finding of no adverse effect, ACHP asked Fort Carson to consider establishing a monitoring plan to assess the unforeseen effect of the undertaking to help ease the concerns of consulting parties who believe the project will adversely affect historic properties.
- On June 26, 2024, Fort Carson hosted a meeting with the SHPO, Tribes, consulting parties, and ACHP.

- On July 15, 2024, ACHP sent a second letter in response to the hosted meeting and further guidance and recommendation, including to resubmit the findings with a complete and accurate documentation. Fort Carson updated the Section 106 undertaking review packet to reflect ACHP's recommendations and sent the updated packet with the final decision letter to affirm the initial finding of no adverse effect to historic properties to ACHP, SHPO, Tribes, and consulting parties on August 29-30, 2024.
- A monitoring plan for 12 sites was created and the baseline monitoring of 10 of the 12 sites was conducted between August and October 2024. The 2 sites that were not monitored were removed from the monitoring list due to lack of response from the agencies. The subsequent monitoring visits will take place 1-year, 3-year, 5-year, and 10-year from baseline monitoring visits.
- ACHP sent a response via email on September 24, 2024 that Fort Carson have met the Section 106 requirements for the undertaking.

Table 3 of Enclosure 1 lists one other non-exempted undertakings that were reviewed by the PCMS Archaeologist.

### III. Action Updates

#### *A. Status of Tasks Implemented under Stipulations I, III, and IV*

The PCMS PA Task Tracker (Enclosure 2) provides detailed information regarding the status of various tasks implemented under Stipulation I, Inventory and Evaluation of Cultural Resources; Stipulation III, Protection of Cultural Resources; and Stipulation IV, Monitoring and Inspection.

#### *B. Cultural Resources Awareness Training*

The following cultural resources awareness training materials are provided to Soldiers, civilian employees, contractors, and other users, as appropriate:

- Environmental Protection Officer (EPO) course – provided monthly to Soldiers who serve as the EPO for their unit; updated October 2022.
- Fort Carson Environmental Battle Book, 2018, v6.1<sup>1</sup> – a quick reference document for guidance on common environmental concerns including cultural resources.
- Cultural Resources Awareness Presentation for the U.S. Air Force Academy Survival Training. This presentation was shared with more than 400 Cadets and Commanding Officers prior to their training at PCMS.

Additional training materials, briefs, and presentations are provided on an as-needed basis, and are typically specific to the situation.

#### *C. Brigade Training Exercises*

Between August 19, 2024 and September 4, 2024, the 1<sup>st</sup> Stryker Brigade Combat Team (SBCT) conducted a brigade training exercise, “Operation Grandstaff,” at Piñon Canyon Maneuver Site (PCMS) located in Las Animas County, Colorado. In accordance with Stipulation IV.B of the Programmatic Agreement among U.S. Army Garrison Fort Carson, Colorado State Historic Preservation Officer, and the Advisory Council on Historic Preservation regarding Military Training and Operational Support Activities at Piñon Canyon Maneuver Site, Fort Carson, executed on April 23, 2014, an after-action inspection of protected resources within the area of potential effects is in progress. The after action report will be submitted to SHPO and consulting parties in December 2024.

#### *D. Inadvertent Entries and/or Impacts to Historic Properties*

The following summarizes inadvertent entries and/or impacts to historic properties:

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<sup>1</sup> <https://home.army.mil/carson/application/files/4116/4976/7771/environmental-battlebook.pdf>



- CF2020-008 Bent Canyon Wildland Fire After Action Inspection: Survey fieldwork is ongoing. Once the survey is complete, a memorandum for record (MFR) and all supporting documentation will be submitted to the SHPO, Native American Tribes, and other consulting and interested parties. Project is ongoing.
- CF2022-007 Black Hills Wildland Fire: The wildland fire started on June 17, 2022, with fire suppression activities concluding on June 28, 2022. The fire burned about 1650 acres within TA 11, TA G, and TA H. Within the fire footprint were fifteen protected resources: 5LA04399, 5LA06571, 5LA06581, 5LA06583, 5LA06609, 5LA06610, 5LA06611, 5LA06624, 5LA06626, 5LA06627, 5LA07438, 5LA07509, 5LA07421, 5LA07421, and 5LA07471. The after action report is in progress.
- CF2024-016 Crowder Wildland Fire After Action Inspection: The wildland fire started on July 15, 2024, with fire suppression activities ending on July 22, 2024. The fire burned 494 acres in TA 8 (within the interior fence). There are two known protected resources, 5LA12500 and 5LA12484) within the fire footprint. 264 acres within the fire footprint have not been surveyed. Survey and the after action report are in progress.

#### *E. Inadvertent Discoveries*

There were no inadvertent discoveries during the reporting period.

#### *F. Emergency Response per 36 CFR 800.12*

Per 36 CFR 800.12(d), fire suppression activities associated with the following wildland fire events are considered immediate rescue and salvage operations conducted to preserve life or property, and as such, are exempt from the provisions of Section 106.

- Incident No. 2024-01874: The Crowder Wildland Fire started on July 15, 2024, with fire suppression activities ending on July 22, 2015. Approximately 494 acres in TA 8 were impacted. There are two protected resources within the fire footprint. See Section III.D above for details on impacts to protected resources.
- Incident No. 2024-02095: This wildland fire started on August 6, 2024, with fire suppression activities ending on August 8, 2024. Approximately 22 acres in TA 8 were impacted. There are no historic properties within the wildland fire footprint.
- Incident No. 2024-02171: This wildland fire started on August 13, 2024, with fire suppression activities ending on August 14, 2024. Approximated 72 acres within TA 7 were impacted. There are no historic properties within the wildland fire footprint.

#### *G. Amendment*

There were no amendments proposed nor executed during the reporting period.

On September 28, 2021, USAG Fort Carson notified the ACHP, SHPO, Tribes, and other consulting and interested parties of our intention to implement the Army Alternate Procedures (AAP) and requested point-of-contact information for those interested in collaborating with USAG Fort Carson in the development of a Historic Properties Component. Implementation of the AAP would supersede the PCMS PA. Consultation is ongoing.

- On September 28, 2023, the HPC draft was sent to SHPO, Tribes, ACHP, and consulting parties for comment. A meeting was held virtually on November 16, 2023, to discuss the HPC draft and provide a deadline to receive comment to December 5, 2023.
- Fort Carson received over 300 comments in December 2023.
- On January 11, 2023, Fort Carson hosted a meeting to continue the consultation and discuss the comments received. CRM continued to address and made edits on the HPC draft.
- On March 26, 2024, the updated HPC draft was sent to USACE, AEC, AEC Legal, and Fort Carson SJA for comment. Fort Carson received comments from all parties.
- On September 11, 2024, Fort Carson continued the consultation with the Tribes on the AAP.

#### *H. Dispute Resolution*

There were no dispute resolutions during the reporting period.

#### *I. Other*

Section 106 consultation on the 2010 2-4 Brigade Combat Team (BCT) “Warhorse Rampage” Training Exercise, the 2013 2-4 BCT “Warhorse Charge” Training Exercise, the 2015 1SBCT “Raider Focus I” Training Exercise, 2017 1SBCT “Raider Focus II” Training Exercise, and 2018 3<sup>rd</sup> Armored Brigade Combat Team (3ABCT) “Iron Strike” Training Exercise is ongoing. Mitigation plans are in development for 36 historic properties that have been adversely affected by these training exercises or that have had multiple entries since 2010 from military training. There has been no correspondence during the reporting period concerning these consultation efforts.

Report compiled by:

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**ENCLOSURE 1:**

**ENCLOSURE 1:**  
**ALL UNDERTAKINGS REVIEWED BY THE FORT CARSON CRMP DURING THE FY24 REPORTING PERIOD**  
**(OCTOBER 1, 2023 THROUGH SEPTEMBER 30, 2024) UNDER THE PCMS PA**

**Table 1: Exempted Undertakings**

USAG Fort Carson NEPA Project Number(s) & Project Title	USAG Fort Carson Project Number(s)	Location (APE)	Exemption(s) Used	Date(s) Reviewed	Remarks
2024-036 USAFA Construct, Equipment Warehouse at PCMS	DPT24-001	PCMS Cantonment	PC A2a	11/8/2023	Proposed work includes: constructing a Equipment Warehouse at PCMS
2024-088 Install moving targets at Range 9 PCMS	N/A	PCMS Numbered TAs	PC B4a1	12/21/2023	Proposed work includes: installing moving targets along the existing two-track road within the footprint of Range 9 at PCMS
2024-100 FY24 2nd Quarterly Advisory REC for Training on FC and PCMS	DPT24QTR2	Main Post Downrange Fort Carson PCMS Numbered TAs PCMS Lettered TAs PCMS Training Area A	BE I.C3 FC A FC B FC C PC B1 PC B2 PC B3 PC C1 PC C2 PC D1 PC D2	1/2/2024	Per Fort Carson Regulation 200-1, each quarter the Record of Environmental Consideration (REC) for training will be updated. This quarterly training REC covers use of established ranges, drop zones, landing zones, and other training facilities; maneuver training (mounted, dismounted, and aerial); excavation training; etc. It does not cover brigade-sized training exercises, which are reviewed separately. In addition, excavation training is reviewed by the Cultural Resources Program on a case-by-case basis. Updated GIS layers of protected resources restrictions, as well as Standard Operating Procedures (SOPs) and cultural resources awareness training briefs for Fort Carson and PCMS are provided to DPTMS for planning purposes.
2024-140 Pilot Rescue Training PCMS	N/A	PCMS Numbered TA	PC B2	2/9/2024	Proposed work includes: creating a small 'pilot rescue' training scenario
2024-141 Install Golden Eagle Cameras on PCMS Hogback (TA A Dismount only area)	DPW24-098	PCMS Lettered TA	PC D3b1	2/9/2024	Proposed work includes: Installing three cameras that look down onto golden eagle nests on the Hogback
2024-153 ** Updated Scope of Work ** Electric Drops for FAVERS PCMS Fire Sta 35	PCM23-003	PCMS Cantonment	PC A2a PC A2b	2/21/2024	Proposed work includes: adding a compressed air system on self-retracting lines and self-retracting electric drop cords and a power disconnect (208 volt 3 phase)
2024-037 Construct USAFA Bunk House & Sun Shade Cantonment at PCMS	DPT24-008	PCMS Cantonment	PC A2a	2/28/2024	Proposed work includes: constructing two additional bunkhouses with attached sunshades
2024-168 Repair Fire Alarm Panel Postwide Phase 4	DPW23-045	PCMS Cantonment Main Post	PC A2b BE I.A2	3/8/2024	Proposed work includes: installing Fire and Mass Notification System (MNS) at various buildings
2024-172 Construct Voltage Regulators at PCMS	DPW24-093	PCMS Cantonment	PC A2b	3/14/2024	Proposed work includes: installing voltage regulators on the 12470 Medium voltage feed to PCMS

USAG Fort Carson NEPA Project Number(s) & Project Title	USAG Fort Carson Project Number(s)	Location (APE)	Exemption(s) Used	Date(s) Reviewed	Remarks
2024-185 FY24 3rd Quarterly Advisory REC for Training on FC and PCMS	DPT24QTR3	Main Post Downrange Fort Carson PCMS Numbered TAs PCMS Lettered TAs	BE I.C3 FC A FC B FC C PC B1 PC B2 PC B3 PC C1 PC C2 PC D1 PC D2	3/22/2024	Per Fort Carson Regulation 200-1, each quarter the Record of Environmental Consideration (REC) for training will be updated. This quarterly training REC covers use of established ranges, drop zones, landing zones, and other training facilities; maneuver training (mounted, dismounted, and aerial); excavation training; etc. It does not cover brigade-sized training exercises, which are reviewed separately. In addition, excavation training is reviewed by the Cultural Resources Program on a case-by-case basis. Updated GIS layers of protected resources restrictions, as well as Standard Operating Procedures (SOPs) and cultural resources awareness training briefs for Fort Carson and PCMS are provided to DPTMS for planning purposes.
2024-207 Colorado Army National Guard Training at PCMS	N/A	PCMS Numbered TA	PC B1 PC B2	4/15/2024	This training event is exempt from Section 106 under the PCMS PA. GIS data for protected resources was provided to the unit. Cultural sensitivity training was provided to the unit. All relevant SOPs were also provided to the unit.
2024-262 Swallow Nest Deterrent & Painting PCMS B300, B350 & B370	DPW24-130	PCMS Cantonment	PC A2b	6/3/2024	Proposed work includes: painting doorways with silicone-based paint to prevent swallow nests from adhering to the buildings
2024-266 Install Panel Sign PCMS, Dig Permit	DPT24-016	PCMS Numbered TA	PC B4a1	6/5/2024	Proposed work includes: installing a 72" x 36" Boresight Panel sign

USAG Fort Carson NEPA Project Number(s) & Project Title	USAG Fort Carson Project Number(s)	Location (APE)	Exemption(s) Used	Date(s) Reviewed	Remarks
2024-295 FY24 4th Quarterly Advisory REC for Training on FC and PCMS	DPT24QTR4	Main Post Downrange Fort Carson PCMS Numbered TAs PCMS Lettered TAs	BE I.C3 FC A FC B FC C PC B1 PC B2 PC B3 PC C1 PC C2 PC D1 PC D2	6/26/2024	Per Fort Carson Regulation 200-1, each quarter the Record of Environmental Consideration (REC) for training will be updated. This quarterly training REC covers use of established ranges, drop zones, landing zones, and other training facilities; maneuver training (mounted, dismounted, and aerial); excavation training; etc. It does not cover brigade-sized training exercises, which are reviewed separately. In addition, excavation training is reviewed by the Cultural Resources Program on a case-by-case basis. Updated GIS layers of protected resources restrictions, as well as Standard Operating Procedures (SOPs) and cultural resources awareness training briefs for Fort Carson and PCMS are provided to DPTMS for planning purposes.
2024-305 50th Security Forces Squadron, Excavation Training Request, TA 10C, PCMS	N/A	PCMS Numbered TA	PC B3	7/9/2024	
2024-304 Invasive Species Control, Fort Carson and PCMS FY24-25	N/A	Main Post Downrange Fort Carson PCMS Numbered TAs PCMS Lettered TAs	BE I.B3 FC D2b PC A3b PC B4b2 PC C3b2 PC D3b2	7/10/2024	Proposed work includes: the use of mechanical, biological, cultural, and/or approved chemical treatment to eradicate invasive plants on the identified areas at Fort Carson and PCMS
2024-364 Construction and Operation of a Contractor-owned, Contractor Operated (COCO) Fuel Facility at Pinon Canyon Maneuver Site - Mitigation Review	N/A	PCMS Cantonment	PC A2a	8/10/2024	This project is not in: R:\ENV\NEPA\REVIEWS\!CatX_REC\Prjrev 2024\2024-301 - 400. Was it canceled/delayed?  - 200Prior to the execution of the PCMS PA, section 106 consultation was completed in 2013 and SHPO concurred with the finding of "no adverse effect" in the correspondence dated September 25, 2013 (CHS #64716).
2024-365 PCMS FORWARD ARMING REFUELING POINT (FARP) SURVEY	N/A	N/A	PC A1b	9/10/2024	Proposed work includes: a resurvey is being conducted to evaluate the FARP site for use beyond 2025

USAG Fort Carson NEPA Project Number(s) & Project Title	USAG Fort Carson Project Number(s)	Location (APE)	Exemption(s) Used	Date(s) Reviewed	Remarks
2024-378 FY25 1st Quarterly Advisory REC for Training on FC and PCMS	DPT25QTR1	Main Post Downrange Fort Carson PCMS Numbered TAs PCMS Lettered TAs	BE I.C3 FC A FC B FC C PC B1 PC B2 PC B3 PC C1 PC C2 PC D1 PC D2	9/24/2024	Per Fort Carson Regulation 200-1, each quarter the Record of Environmental Consideration (REC) for training will be updated. This quarterly training REC covers use of established ranges, drop zones, landing zones, and other training facilities; maneuver training (mounted, dismounted, and aerial); excavation training; etc. It does not cover brigade-sized training exercises, which are reviewed separately. In addition, excavation training is reviewed by the Cultural Resources Program on a case-by-case basis. Updated GIS layers of protected resources restrictions, as well as Standard Operating Procedures (SOPs) and cultural resources awareness training briefs for Fort Carson and PCMS are provided to DPTMS for planning purposes.
2024-326 Fall 2024 Prescribed Fire - FC/PCMS	DPW24-177	Downrange Fort Carson PCMS Numbered TAs	FC D2b PC B4b2	9/26/2024	Proposed work includes: conducting prescribed burns on Fort Carson and the Pinon Canyon Maneuver Sites to mitigate wildland fire effects and to support ecological land management



Table 2: Non-Exempted Undertakings Requiring Section 106 Consultation

USAG Fort Carson NEPA Project Number(s) & Project Title	USAG Fort Carson Project Number(s)	Location (APE)	Date(s) Reviewed	SHPO Number & Date Concurred	Remarks
N/A	N/A	N/A	N/A	N/A	N/A

Table 2: Other Non-Exempted Undertakings

USAG Fort Carson NEPA Project Number(s) & Project Title	USAG Fort Carson Project Number(s)	Location (APE)	Date(s) Reviewed	Remarks
2024-163 USAFA Combat Survival Training at PCMS May-Aug 2024	N/A	N/A	2/29/2024	Training consists of 3 iterations, 21 days each with 400 cadets and includes survival principles, shelter craft, food procurement, signaling (no flare), navigation, medical, evasion, recovery, and field fires (with PCMS Fire Station approval) activities

**Enclosure 2:**

**ENCLOSURE 2:  
PCMS PA TASK TRACKER  
(CURRENT AS OF SEPTEMBER 30, 2023)**

Stipulation	Action	Duration	Date Required	Remarks
I.A.1	GIS shapefiles and master site index provided to SHPO	90 days after signing	7/22/2014	Completed; provide updates as necessary
I.A.2	Cultural resources documentation submitted to SHPO	180 days after signing	10/20/2014	Completed; provide updates as necessary
I.A.3	SHPO notifies USAG that information baseline has been created and request any missing information	1 year after completion of I.A.2	4/02/2015	Completed
I.A.4	USAG and SHPO consult to address any data discrepancies	180 days after completion of I.A.3	7/05/2016	Completed (HC #63877); consult as needed on any data discrepancies that may arise.
I.A.4	Implement agreeable terms to reconcile discrepancies	3 years after completion of I.A.4 task above	7/05/2016	Completed (HC #63877).

Stipulation	Action	Duration	Date Required	Remarks
I.B	Complete documentation on needs data sites or implement a protection measure	3 years after signing	04/22/2017	<p>Completed</p> <p>FY19: Contract awarded in September 2018 to develop research designs for 71 sites. Fort Carson is seeking funding to implement the research designs at both PCMS and Fort Carson.</p> <p>FY20: Contract awarded in September 2019 to evaluate 58 isolated finds. Fieldwork has been completed. Technical report and site documentation were submitted to SHPO 20 March 2023. Project is complete.</p> <p>FY20: Contract awarded in September 2019 to conduct a traditional use study of the Hogback. Site visits are complete and the report will be submitted to the Tribes. Project is complete.</p> <p>567 resources have been determined "needs data," with which SHPO concurs. Research designs are being drafted for 71 of these sites located within the primary maneuver areas and along canyon rims. Documentation and evaluation to modern-day standards of an additional 58 of these resources (categorized as isolated finds) is complete. SHPO (82705) concurred that 57 of the 58 resources were Officially Not Eligible, and 5LA2424 is still a Needs Data site.</p> <p><b>Protection strategies have been implemented at the "Needs Data Sites."</b></p>
I.B.1	SHPO concurrence with NRHP eligibility determinations from re-evaluations	60 days after submission	TBD	
I.D	Continue consultation with Tribes concerning site protection, monitoring frequencies, and TCPs and sacred sites identification	Ongoing action	n/a	<p>Consultation meeting was held in person September 10 – 12, 2024. In attendance were representatives from the Cheyenne River Sioux Tribe, Jicarilla Apache Nation, Kiowa Tribe, Northern Arapaho Tribe, Pawnee Tribe, and the Standing Rock Sioux Tribe. .</p>

Stipulation	Action	Duration	Date Required	Remarks
III.A	Implement site protection measures		04/22/2017	415 of 1,200 protected sites have a protection fence, Seibert markers, boulders, or combination; 191 have corner markers only; 126 are terrain protected (i.e. no vehicle access); all others are administratively protected.
III.B	Propose amended site protection measures and monitoring frequencies	As needed	n/a	No proposed changes during reporting period
III.D	Provide training vehicles/aircraft with means of knowing site locations	1 year after signing	04/22/2015	Completed; update as necessary
IV.A	Monitor protected cultural properties	Ongoing action	n/a	Working with Fort Carson Conservation Law Enforcement Officers to conduct routine inspections.  FY24: Contract awarded in April 2024 to assist with monitoring.
V.A	Implement cultural awareness training of all personnel involved in the execution of undertakings	Annually	n/a	Cultural resources awareness training is part of the annual mandatory training for Soldiers, Civilians, and contractors.
VI.C	Annual meeting with consulting parties	Annually	NLT Feb. 15 <sup>th</sup>	Consultation meeting was held virtually on January 16, 2024. In attendance were representatives from the Colorado SHPO, Colorado Preservation, Inc., Jicarilla Apache Nation, Las Animas County Commissioners, Otero County Commissioners, Kiowa Tribe, and Colorado Preservation Inc.
VII.AG	Implement terms through policies and ICRMP	Ongoing action	n/a	Additional updates will be completed as the CRM moves through the Army Alternate Procedures.

**Enclosure 3:**  
**Examples of Cultural Resources Awareness Training Materials**



# Cultural Resources Management

WHAT YOU NEED TO KNOW AS AN ENVIRONMENTAL PROTECTION OFFICER

## Course Objectives

You will learn:

1. What are cultural resources?
2. Why is it important to protect cultural resources?
3. What are the legal requirements?
4. What are your responsibilities?
5. Where can you learn more?





# Fort Carson Cultural Resources Management Program

## Mission:

*"To support military training requirements, achieve regulatory compliance, and ensure stewardship responsibilities are met."*



## Goals:

1. Support sustainable training
2. Reduce/eliminate access restrictions due to resource protection
3. Protect significant cultural resources from adverse effects
4. Conserve cultural resources and their information for future generations
5. Increase cultural resource appreciation
6. Contribute to our understanding of culture, history, and archaeology at the local, regional, and national levels

# Fort Carson Cultural Resources Management Program

## Objectives:

- Provide accurate data regarding access restrictions
- Monitor cultural resources for impacts
- Implement protective measures
- Implement conservation measures
- Integrate cultural resources management with Installation operations
- Consult with external stakeholders
- Sustain public outreach



Tribal representatives discuss the importance of a rock art panel.

# What are Cultural Resources?

## Definition:

*Non-renewable remnants of past human activities that have cultural or historical value and meaning to a group of people or a society*

## Or simply:

*The stuff we leave behind*



Cultural resources can be thousands of years old, hundreds of years old, or from the more recent past.

# Cultural Resources Examples:



- Rock art, i.e. petroglyphs (carvings) and pictographs (paintings)
- Archaeological sites
- Historical buildings, structures, and objects
- Historical roads and trails
- Sacred sites and traditional cultural properties
- Human burials
- Artifacts
- Ruins



# Fort Carson's Cultural Resources

## Fort Carson (as of August 2017):

- 2,385 Cultural Resources
- 1 Listed National Register District
- 133 Eligible
- 68 Needs Data
- 2,165 Not Eligible
- 18 No Official Determination



## PCMS (as of August 2017):

- 6,248 Cultural Resources
- 573 Eligible
- 660 Needs Data
- 4,999 Not Eligible
- 16 No Official Determination



- Complex and Simple Habitation Sites
- Temporary Field Camps
- Stone Artifact Scatters/Quarry Locations
- Food Procurement/Processing Sites
- Rock Art Panels (Prehistoric & Historic)
- Historic Ranches/Farmsteads
- Military Construction (1942-Present)
- Stage Station/Mail Route Remnants
- Small Mining Operations

# Why is it Important to Protect Cultural Resources?

- They provide information regarding **our** heritage, **our** practices, and **our** beliefs.
  - Contributes to **our** sense of place and identity
- These areas may have profound religious and spiritual significance to Native American tribes and other ethnic groups.
- Sacred Native American sites are rooted in the history of their people and maintain the continuity of traditional beliefs and practices.
- By preserving, protecting, and respecting cultural resources, you ensure these resources are available for future generations
  - Non-renewable resource – **once destroyed, can never be restored**
- It is **our** duty, as the land manager to be good stewards, ensuring compliance with all environmental and cultural laws and regulations.

## Another Reason for Protecting Cultural Resources...

### BECAUSE IT'S THE LAW!

National Historic Preservation Act (NHPA)

Archaeological Resources Protection Act (ARPA)

Native American Graves Protection and Repatriation Act (NAGPRA)

American Antiquities Act of 1906

American Indian Religious Freedom Act

Army Regulation 200-1

And more...

**And some of these laws, such as the Archaeological Resources Protection Act, carry criminal and civil penalties.**

FORT CARSON EPO COURSE

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## Section 106 of the National Historic Preservation Act (NHPA)

- Section 106 of the NHPA requires us to consider the effects of our actions on historic properties.
  - Historic properties are any cultural resource that is listed in or is eligible for inclusion in the National Register of Historic Places (NRHP)
  - NRHP – list of cultural resources determined to be significant to the national, state, regional, or local history
- How **You** Can Comply with Section 106:
- Follow the Standard Operating Procedures (SOPs) in the Integrated Cultural Resources Management Plan (ICRMP)
    - SOP No. 1: Section 106 Compliance for Project Proponents
    - SOP No. 2: Mission Training of Military and Tenant Personnel
    - SOP No. 3: Emergency Operations

FORT CARSON EPO COURSE

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## What Happens When We Do Not Comply with NHPA Section 106?

- Colorado State Historic Preservation Officer contacts the Advisory Council on Historic Preservation (ACHP)
- ACHP contacts the Secretary of the Army
- Garrison Commander must answer to the Secretary of the Army on why we foreclosed on the consultation process
- Then, it falls to **YOU** to answer why
- Lawsuits can be filed by Tribes, other interested parties, and the public
  - Comanche Nation v. United States
  - Pueblo of Sandia v. United States
  - National Trust for Historic Preservation v. Department of State
  - City of Grapevine v. Department of Transportation
  - Paulina Lake Historic Cabin Owners Association v. U.S. Forest Service

## Scenario 1: Comanche Nation vs. United States

- Fort Sill proposed to constructed a 43,000 sq ft Training Support Center (TSC) warehouse (\$7.3 million) 1,662 ft southwest of the southern boundary of the Medicine Bluffs National Historic Feature
- Medicine Bluffs is a sacred site/TCP that is listed in the NRHP
- Fort Sill sent the draft final Environmental Assessment in Sep 2006
- Section 106 consultation letters mailed in Aug 2007
  - Comanche Nation requested more information and voiced concerns in correspondence dated Aug 2007, Oct 2007, Feb 2008, May 2008, & July 2008
- Construction of TSC began Aug 2008
- Comanche Nation filed a lawsuit in 15 Aug 2008
- Construction of TSC at new location in Oct 2009

## Scenario 1: Comanche Nation vs. United States

---

Comanche Nation asserted Fort Sill:

- Violated the Religious Freedom Restoration Act – building the TSC warehouse at the proposed location would interfere with the exercise of the Tribe's religious beliefs
- Violated the NHPA – Fort Sill failed to make a “reasonable and good faith effort” to consult to identify and resolve adverse effects

Outcome

- Project stopped and moved to another location
- \$650,000 lost on project costs and unknown \$\$\$ spent on legal costs
- Case is a precedent

## Archaeological Resources Protection Act

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- Knowingly damaging an archaeological resource is a violation of the Archaeological Resources Protection Act (ARPA)
  - Includes looting, digging within a site, graffiti or other defacement, removing cultural features, etc.
- ARPA carries up to **\$100,000 fine** and **1 year in jail** for 1<sup>st</sup> offense



## Scenario 2: Graffiti

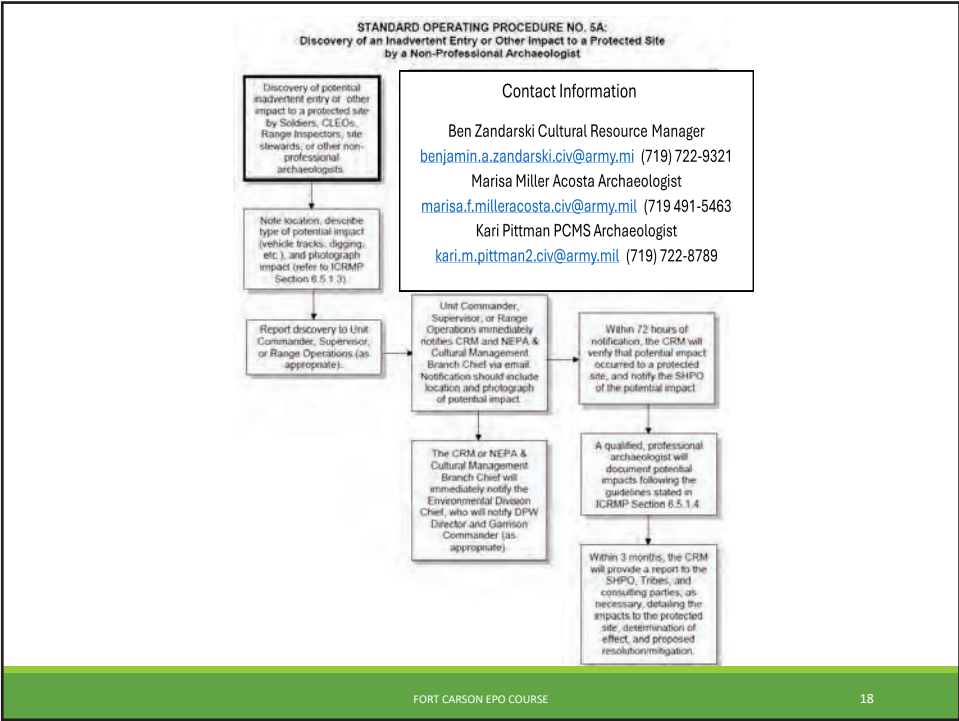
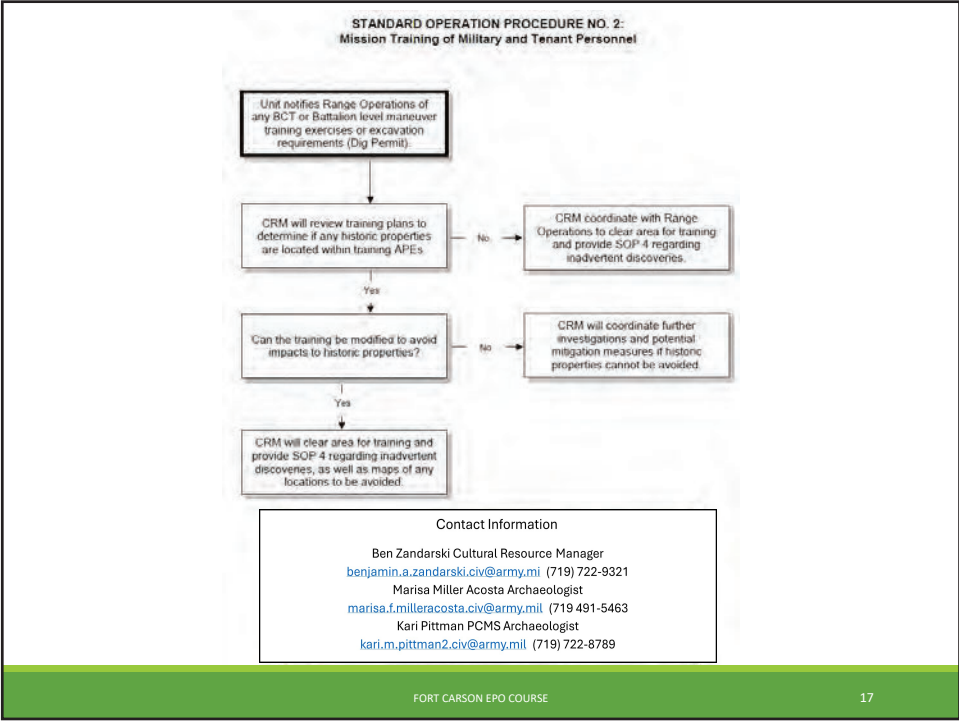
- Sep 2013 – archaeologists observed graffiti at a sacred site/TCP at the PCMS
- Led to an Article 15-6 investigation
- Now used as an example of what not to do
- **Graffiti is not tolerated anywhere, any time**
- Defacing federal property is against the law
  - Destruction of Government Property (18 U.S.C §§ 1361-1363) – up to \$250,000 fine, 10 years imprisonment, or both
  - ARPA
- Anyone caught defacing government property (buildings, rock faces, etc) will be prosecuted



## How Can You Help Protect and Preserve Cultural Resources?

### DO:

- Coordinate land use with Range Operations to ensure you are in an approved area.
  - **Especially excavation training (dig permit)**
  - Refer to ICRMP SOP No. 2
- Obey maneuver damage, environmental, and cultural resources protection policies and procedures.
- Observe posted signs, fencing, and Seibert marking indicating restricted areas that may be off-limits to vehicles, digging, bivouacking or other activities.
- Report any signs of looting, vandalism, or other damage to a cultural site to Range Operations and/or the Cultural Resources Manager (CRM).
  - Refer to ICRMP SOP No. 5A
- Stay vigilant!





## How Can You Help Protect and Preserve Cultural Resources?

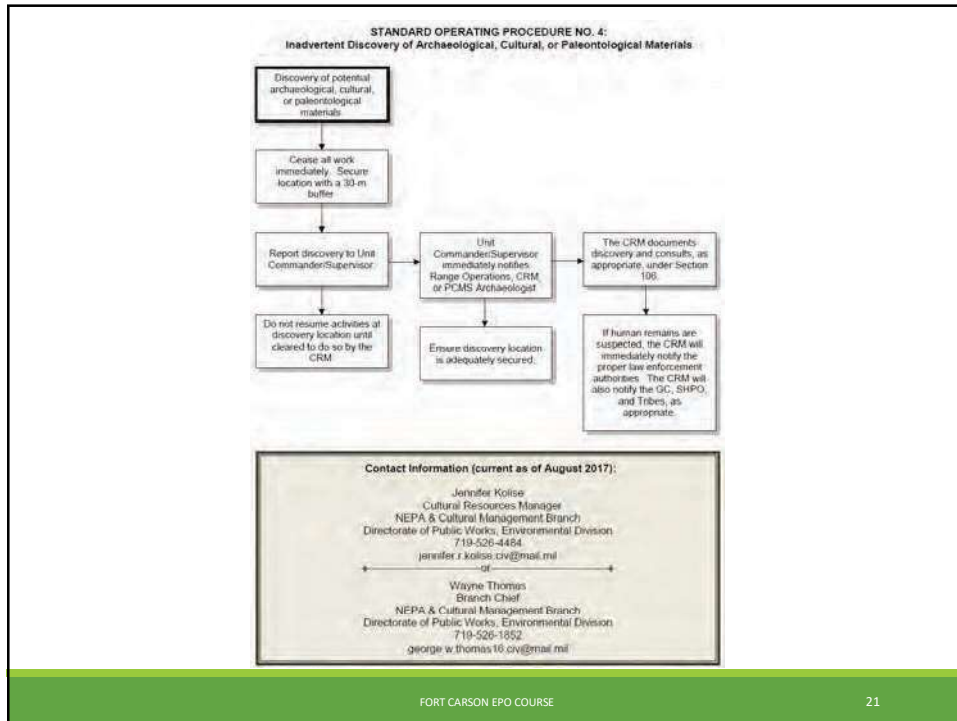
### **DON'T:**

- Collect any artifacts, including arrowheads and bottles.
- Disturb stone circles, rock mounds, ruins, or other cultural features, including using stones from cultural features to create defensive positions or resting areas.
- Lean against, sit on, or step on rock mounds, rock walls, ruins, or other cultural features.
- Touch or deface rock art or historical structures.
- Trespass in historical structures.

## If you find artifacts, bones, or other possible cultural items...

### **STOP WORK IMMEDIATELY**

- Flag a protective buffer around the location of the discovery.
- Report the discovery to:
  - Fort Carson Range Operations (719-526-5698) or PCMS Range Operations (719-503-6120); and/or
  - Fort Carson CRM (719-526-4484) or PCMS Archaeologist (719-503-6136)
- You will be notified when you can proceed.

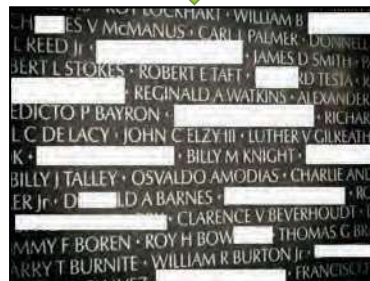


## What is the Harm in Taking a Souvenir?

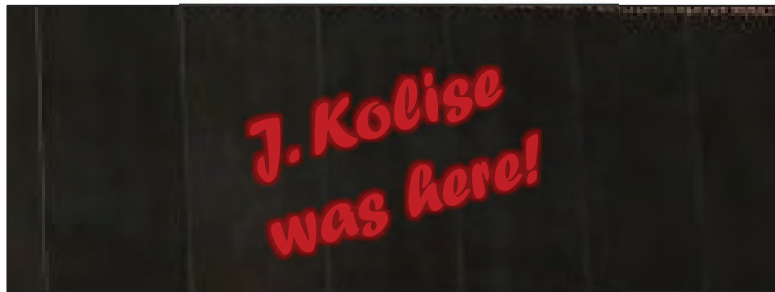


If every person who visited the Vietnam Memorial decided to take one name off as a souvenir, eventually there would be nothing left.

The same is true with archaeological sites. If everyone who visited a site took an arrowhead or bottle, eventually there would be nothing left that would give us information about the people who lived there. **OUR HERITAGE WOULD BE LOST!**



## What's Wrong with this Picture?



Seriously...where's the harm in leaving your legacy somewhere?

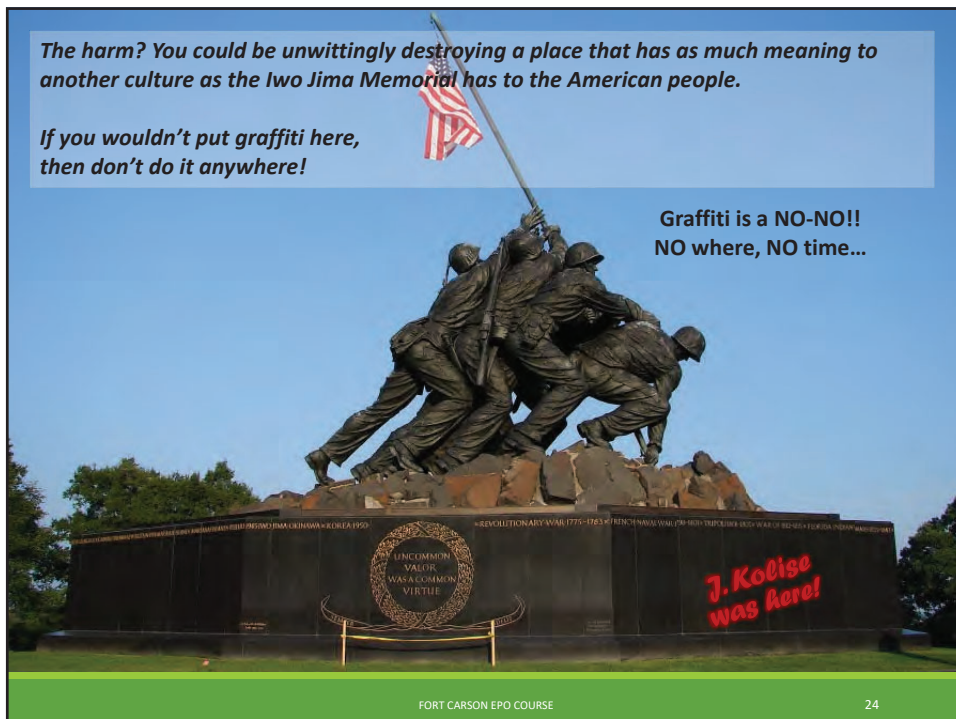
FORT CARSON EPO COURSE

23

*The harm? You could be unwittingly destroying a place that has as much meaning to another culture as the Iwo Jima Memorial has to the American people.*

*If you wouldn't put graffiti here, then don't do it anywhere!*

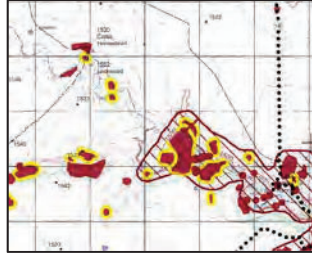
**Graffiti is a NO-NO!!  
NO where, NO time...**



FORT CARSON EPO COURSE

24

## Site Protection Measures



**Protected Resources JCR Map**

Red = unmarked restricted area  
 Red with yellow outline = marked restricted area  
 Red hash-marked area = dismantled training only  
 White line through restricted area = authorized travel corridor

**No digging or mounted maneuvers within protected areas**

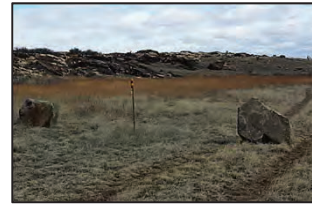


**Seibert Marker**

Red, yellow, and white 3M reflective tape  
 Black stripe points to inside of restricted area.



**Protection Fences with Restricted Access Signs**



**Seibert Markers and Boulders**

## Where Can You Learn More?

### **Integrated Cultural Resources Management Plan (ICRMP)**

- Fort Carson-specific tool for the management of cultural resources
  - Outlines program obligations, goals, priorities, and SOPs
- Chapter 7 contains the SOPs relevant to your job
  - SOP No. 1: Section 106 Compliance for Project Proponents
  - SOP No. 2: Mission Training of Military and Tenant Personnel
  - SOP No. 3: Emergency Operations
  - SOP No. 4: Inadvertent Discovery of Archaeological, Cultural, or Paleontological Materials
  - SOP No. 5A: Discovery of an Inadvertent Entry or Other Impact to a Protected Site by a Non-Professional Archaeologist
- Where can it be found?
  - <https://www.carson.army.mil/organizations/dpw.html#three>

## Main Points to Remember

---

- Cultural resources are non-renewable.
- Obey cultural resources laws and regulations
- Follow Fort Carson-specific guidance and SOPs outlined in the ICRMP
- No digging or mounted maneuvers within protected areas
- Use established travel corridors through protected areas
- Leave cultural resources as you found them
- Report any suspected looting, vandalism, site entries, etc., immediately to Range Operations and/or the CRM
- We are here to help you: 526-4484 (CRM) or 503-6136 (PCMS Archaeologist)

The Army is legally required to protect and manage cultural resources.

---

A. True

B. False

The Army is legally required to protect and manage cultural resources.

- A. True
- B. False

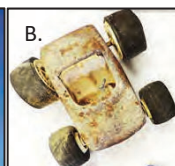


FORT CARSON EPO COURSE

29

Which of the following would be considered a cultural resource?

- A. Trail
- B. Toy
- C. Building
- D. Rock formation
- E. B & C only
- F. C & D only
- G. All of the above
- H. None of the above

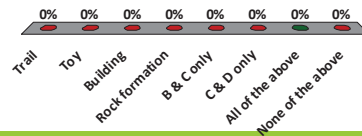
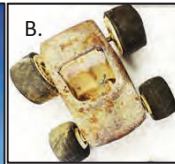
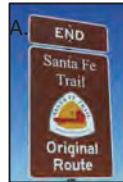


FORT CARSON EPO COURSE

30

Which of the following would be considered a cultural resource?

- A. Trail
- B. Toy
- C. Building
- D. Rock formation
- E. B & C only
- F. C & D only
- G. All of the above
- H. None of the above



FORT CARSON EPO COURSE

31

While digging a tank ditch, you find an arrowhead and other stone chips. What should you do first?

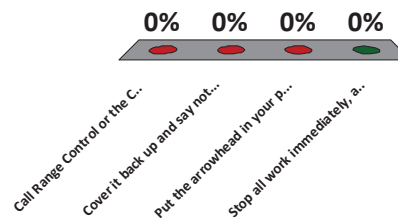
- A. Call Range Control or the CRM immediately.
- B. Cover it back up and say nothing.
- C. Put the arrowhead in your pocket. It would be a nice addition to your collection.
- D. Stop all work immediately, and place a buffer around the area.

FORT CARSON EPO COURSE

32

While digging a tank ditch, you find an arrowhead and other stone chips. What should you do first?

- A. Call Range Control or the CRM immediately.
- B. Cover it back up and say nothing.
- C. Put the arrowhead in your pocket. It would be a nice addition to your collection.
- D. Stop all work immediately, and place a buffer around the area.



FORT CARSON EPO COURSE

33

You cannot be prosecuted for unknowingly defacing an archaeological site on an Army installation.

- A. True
- B. False

FORT CARSON EPO COURSE

34



You cannot be prosecuted for unknowingly defacing an archaeological site on an Army installation.

---

A. True

B. False






# CULTURAL RESOURCES

## POTENTIAL HAZARDS AND ENVIRONMENTAL CONCERNS

Cultural resources are remnants of past human activities that have cultural or historical value and meaning to a group of people. A resource can be thousands of years old, hundreds of years old, or from the more recent past. Examples include: rock art and carvings; archaeological sites; historic buildings, structures or objects; historic roads and trails; Native American sacred sites and traditional cultural properties; human burials; artifacts; and ruins. As a land manager, it is our duty to be good stewards, ensuring compliance with all environmental and cultural requirements, laws, and regulations. Violation of cultural resources protection laws can result in civil and criminal penalties, monetary fines, and imprisonment.

## HANDLING PROCEDURES

☆	Coordinate land use with Range Control Operations to ensure you are in an approved area.	 <p>Pictured above are various cultural resources that have been recorded on Fort Carson and PCMS.</p>
☆	Observe posted signs, fencing, and Seibert marking that indicate restricted areas which may be off-limits to vehicles, digging, bivouacking, or other high impact activities.	
☆	Do not collect artifacts, including arrowheads and bottles. Do not disturb stone circles, rock mounds, ruins, or other cultural features. Do not touch or deface rock art, or scratch on rocks or objects of any kind.	
☆	Do not trespass in historic structures even when not marked.	  <p>Graffiti, as seen in the photograph above, can irreparably harm the integrity of a site. There is no way to remove the graffiti without doing further damage to the site. The yellow, red, and white Seibert markers indicate areas where vehicles, digging, or bivouacking are not allowed.</p>
☆	Report any signs of looting, graffiti, or other damage to a cultural site to Range Control Operations or Cultural Resources staff.	
☆	No graffiti anywhere, anytime.	
☆	If buried artifacts, bones, or other cultural items are found, stop work immediately, flag a protective buffer around the location of the discovery, and report the discovery to Range Control Operations or Cultural Resources staff.	

## GENERAL INFORMATION

For additional information concerning cultural resources, contact the Fort Carson Cultural Resources Manager at 526-4484 or the PCMS Archaeologist at 503-6136.

Range Control Operations: Fort Carson 526-5698 / PCMS 526-6123 or 6130

Reference: [Fort Carson Regulation 200-1](#).

Soldiers who have been designated to the Observer-Controller Team for a brigade exercise must go through special training. This brief covers environmental considerations, including cultural resources, and is usually provided by the Fort Carson Cultural Resources Manager. It is adapted for each specific brigade exercise.

# OPERATION ARETE OC TEAM BRIEF

## ENVIRONMENTAL CONSIDERATIONS

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### TOPICS

Protected Resources

Wildlife Guidance

Cultural Resources Guidance

Spill Response

OPERATION ARETE Dig Request Process

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## WHAT IS A PROTECTED RESOURCE?

- Not just protected archaeological sites (or cultural resources), but also...
- Protected natural resource area
- Critical infrastructure
- Human health and safety concern

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## CULTURAL RESOURCE EXAMPLES



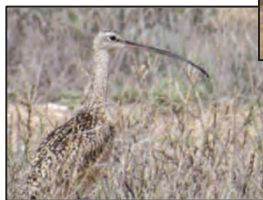
- Rock art, i.e. petroglyphs (carvings) and pictographs (paintings)
- Archaeological sites
- Historical buildings, structures, and objects
- Historical roads and trails
- Sacred sites and traditional cultural properties
- Human burials
- Artifacts
- Ruins

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## NATURAL RESOURCE EXAMPLES

- Migratory bird nesting sites
- Golden eagle nesting sites
- Critical habitat for threatened / endangered species



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## CRITICAL INFRASTRUCTURE EXAMPLES

- Windmills and associated wells & tanks
- Solar panels
- Pipelines
- Utility lines
- Erosion control dams



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## HUMAN HEALTH & SAFETY CONCERN EXAMPLES

- Contaminated areas
- Open pits / wells / mine shafts
- Steep drop offs



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## COMPLIANCE REQUIREMENTS FOR PROTECTED RESOURCES

- No vehicles allowed
- No excavation allowed
- No bivouacking allowed
- No aerial maneuvering allowed within 100 meters
- Travel allowed only on approved travel corridors through the area as shown on the map

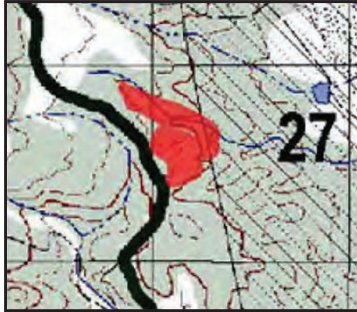
**Best Practice:** While operating a vehicle, implement a 30-meter stand-off distance from the perimeter of the protected resource as depicted on the map.

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## PROTECTED RESOURCES MAP SYMBOLS: UNMARKED PROTECTED RESOURCE



**Symbol:** Area polygon with red-filled interior

**Definition:** Protected resource that lacks marking or is partially marked (Seibert markers, protection fencing with signs, or combination of both)

**Caveats:** Ensure the entire red perimeter is avoided at all times by vehicles. **Do not simply rely on the observed Seibert markers and/or fencing.**

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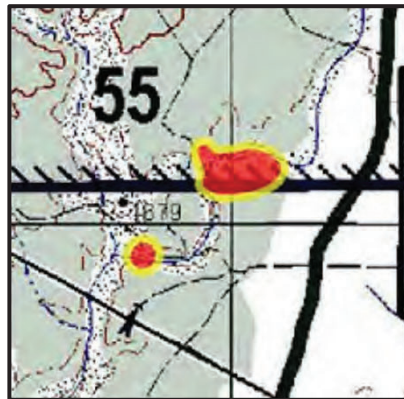


## PROTECTED RESOURCES MAP SYMBOLS: MARKED PROTECTED RESOURCE

**Symbol:** Area polygon with red-filled interior and yellow outline (halo)

**Definition:** Protected resource that is completely marked with Seibert markers, protection fencing with signs, or a combination of both

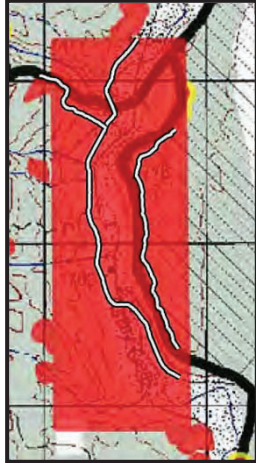
**Caveats:** Ensure the yellow outside perimeter is avoided at all times by vehicles. **Do not simply rely on the observed Seibert markers and/or fencing.**



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## PROTECTED RESOURCES MAP SYMBOLS: AUTHORIZED TRAVEL CORRIDOR



**Symbol:** White line interior and black outline

**Definition:** Corridors approved for travel through protected resources

**Caveat:** No off-road travel allowed within the protected resource. **Stay on the approved, existing corridor only.**

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## PHYSICAL PROTECTION MEASURES



**Seibert Marker**

Red, yellow, and white 3M reflective tape  
Black stripe points to inside of restricted area.



**Protection Fences with Restricted Access Signs**



**Boulders**

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## INADVERTENT ENTRY / IMPACT

- Inform Range Operations **immediately** of any inadvertent entries into or other impacts to a protected resource.
- Note conditions and how / why the entry or impact occurred.
  - This information helps prevent future entries or impacts.

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## NATURAL RESOURCES GUIDANCE

Refer to Fort Carson Environmental Battle Book, v 5.1, DEC 2016

- Page 77, "Wildlife (Dangerous): Bears / Mountain Lions / Rattlesnakes / Coyotes"
- Page 78, "Wildlife (Migratory Birds): Songbirds / Raptors / Ravens / Etc."
- Page 79, "Wildlife (Problem Critters): Raccoons / Skunks / Rodents / Non-Venomous Snakes / Etc."
- Page 80, "Wildlife (Sensitive or T&E Species): Prairie Dogs / Burrowing Owls"

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## NATURAL RESOURCES GUIDANCE

- Military training activities are **not** exempt from the Migratory Bird Treaty Act, but are authorized for incidental take under the 50 CFR Part 21.
- Nesting birds should be avoided when possible.
- Avoid digging or bivouacking in prairie dog colonies due to potential plague exposure.
- Contact the Wildlife Biologists or Conservation Law Enforcement Officers for any wildlife issues (e.g. snake removal, injured animal, incidental take).

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## NATURAL RESOURCES GUIDANCE

- Do not crush or cut trees unnecessarily.



This tree was approximately 200 years old.  
 This was avoidable.



Stock tanks provide drinking water for wildlife.

- Do not run over stock tanks or guzzlers.

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## CULTURAL RESOURCES GUIDANCE

Refer to Fort Carson Environmental Battle Book, v 5.1, DEC 2016, page 31, "Cultural Resources" and Chapter 7 of the Integrated Cultural Resources Management Plan.

- Observe posted signs, fencing, and Seibert marking. No digging, bivouacking, mounted maneuvers, etc. within these areas.
- Do not collect artifacts.
- Do not disturb stone circles, rock mounds, ruins, or other cultural features.
- Do not touch or deface rock art.
- Do not trespass in historic structures (safety hazard).

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## CULTURAL RESOURCES GUIDANCE

- Report any signs of looting, graffiti, or other damage to Range Operations or Cultural Resources staff.
- No graffiti anywhere, anytime.



**You will not WRITE, PRINT, PAINT, STAMP, SCRATCH, PECK, OR CHALK ON ANY STONE SURFACES, BUILDINGS / STRUCTURES (HISTORIC OR MODERN), OR LATRINE WALLS!!!!**

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## IF YOU FIND ARTIFACTS, BONES, OR OTHER POSSIBLE CULTURAL ITEMS...

- Stop work immediately.
- Flag a protective buffer around the location of the discovery.
- Report the discovery to Range Operations.
- You will be notified when you can proceed.

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## SPILL RESPONSE

Refer to Fort Carson Environmental Battle Book, v 5.1, DEC 2016, page 67, "Spill Clean Up and Reporting Oil/Hazardous Substance."

- Spill cleanup is the unit's responsibility.
- General response procedures:
  - Do not put personnel at risk.
  - Contain and report to your unit. Report location to Range Operations.
  - Spills of 5 gallons or more must be reported to Range Operations immediately.
  - Range Operations will contact the Fire Dept. Do not call 911 at PCMS.
  - Most spills are cleaned up by removing the contaminated soils.
  - Recovered contaminated soils will be transported to the PCMS Cantonment for disposal.

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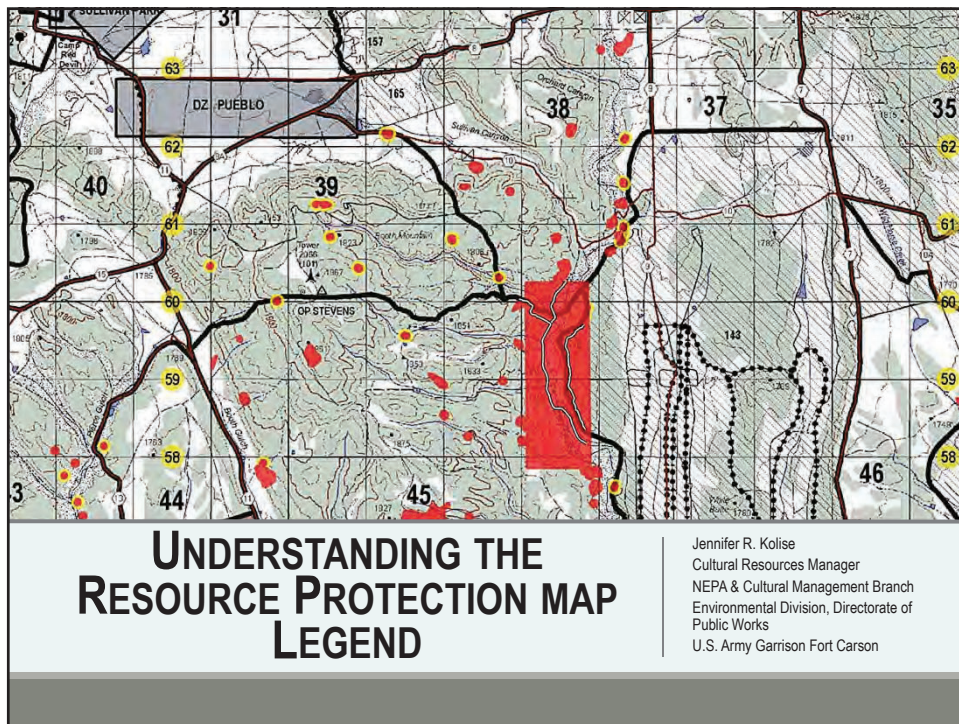


## OPERATION ARETE STRIKE DIG REQUEST PROCESS

- Unit submits dig request through chain of command to HICON (type of excavation, method, and MGRS coordinates).
- HICON reviews request (approves or denies).
- If approved, unit digs and provides dig locations through chain of command back to HICON.
- Accurate reporting of dig locations facilitates Cultural Resource staff inspection and future land remediation.

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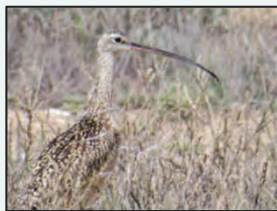
## WHAT IS A PROTECTED RESOURCE?

- Protected natural resource area, such as critical habitat for a threatened & endangered species or a migratory bird nesting site
- Protected cultural resource area, such as archaeological sites, historic buildings, or burials
- Critical infrastructure
- Human health & safety concerns, such as radiation control areas, mine shafts, or steep cliffs



## NATURAL RESOURCE EXAMPLES

- Critical habitat for threatened & endangered species
- Golden eagle nesting sites
- Migratory bird nesting sites



## CULTURAL RESOURCE EXAMPLES



- Rock art, i.e. petroglyphs (carvings) and pictographs (paintings)
- Archaeological sites
- Historical buildings, structures, and objects
- Historical roads and trails
- Sacred sites and traditional cultural properties
- Human burials
- Artifacts
- Ruins

## CRITICAL INFRASTRUCTURE EXAMPLES

- Windmills and associated wells & tanks
- Solar panels
- Pipelines
- Utility lines



## HUMAN HEALTH & SAFETY CONCERN EXAMPLES

- Environmental contamination areas, e.g. radiation control areas & asbestos contaminated areas
- Open pits, wells, & mine shafts
- Steep drop offs





## COMPLIANCE REQUIREMENTS

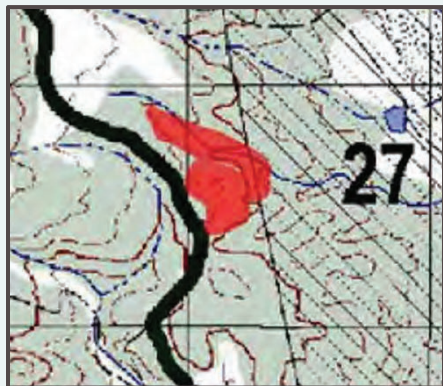
---

- No vehicles allowed
- No excavation allowed
- No bivouacking allowed
- No aerial maneuvering allowed within 100 meters
- Travel allowed only on approved travel corridors through the area as shown on the map

**Best Practice:** While operating a vehicle, implement a 30-meter stand-off distance from the perimeter of the protected resource as depicted on the map.

## STANDARDIZED SYMBOL: UNMARKED RESOURCE

---



**Symbol:** Area polygon with red-filled interior

**Definition:** Protected resource that lacks marking or is partially marked (Seibert markers, protection fencing with signs, or combination of both)

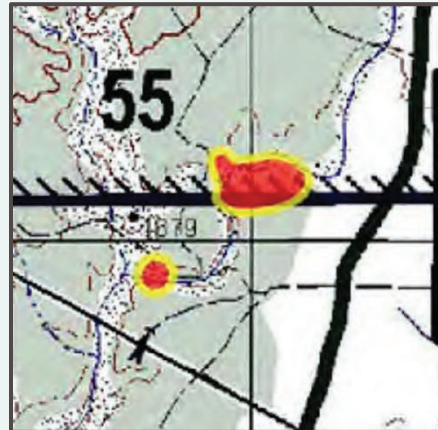
**Caveat:** Ensure the entire red perimeter is avoided at all times by vehicles. **Do not simply rely on the observed Seibert markers and/or fencing.**

## STANDARDIZED SYMBOL: MARKED RESOURCE

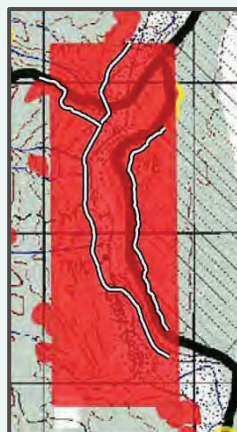
**Symbol:** Area polygon with red-filled interior and yellow outline (halo)

**Definition:** Protected resource that is properly marked with Seibert markers, protection fencing with signs, or a combination of both

**Caveat:** Ensure the yellow outside perimeter is avoided at all times by vehicles. **Do not simply rely on the observed Seibert markers and/or fencing.**



## STANDARDIZED SYMBOL: AUTHORIZED TRAVEL CORRIDOR THROUGH PROTECTED RESOURCE



**Symbol:** White line interior and black outline

**Definition:** Corridors approved for travel through protected resources

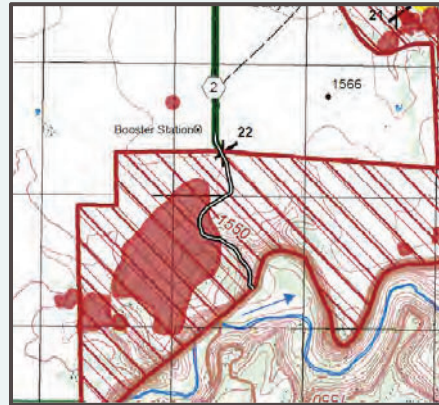
**Caveat:** No off-road travel allowed within protected resource. **Stay on the approved existing corridor only.**

## STANDARDIZED SYMBOL: DISMOUNTED ONLY AREAS

**Symbol:** Area polygon with red crosshatch

**Definition:** Dismounted only training area all vehicles must stay on approved roads no off-road vehicle travel is authorized

**Caveat:** These areas do not conform to topography.



## PHYSICAL PROTECTION MEASURES



**Seibert Marker**

Red, yellow, and white 3M reflective tape black stripe points to inside of restricted area.



**Protection Fences with Restricted Access Signs**



**Boulders**

# USAFA Cadet Survival Training

## ENVIRONMENTAL CONSIDERATIONS

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# TOPICS

Protected Resources

Wildlife Guidance

Cultural Resources Guidance

Spill Response

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# WHAT IS A PROTECTED RESOURCE?

- Not just protected archaeological sites (or cultural resources), but also...
- Protected natural resource area
- Critical infrastructure
- Human health and safety concern

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# CULTURAL RESOURCE EXAMPLES



- Rock art, i.e. petroglyphs (carvings) and pictographs (paintings)
- Archaeological sites
- Historical buildings, structures, and objects
- Historical roads and trails
- Sacred sites and traditional cultural properties
- Human burials
- Artifacts
- Ruins

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# NATURAL RESOURCE EXAMPLES

- Migratory bird nesting sites
- Golden eagle nesting sites
- Critical habitat for threatened / endangered species



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# CRITICAL INFRASTRUCTURE EXAMPLES

- Windmills and associated wells & tanks
- Solar panels
- Pipelines
- Utility lines
- Erosion control dams



# HUMAN HEALTH & SAFETY CONCERN EXAMPLES

- Contaminated areas
- Open pits / wells / mine shafts
- Steep drop offs



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# COMPLIANCE REQUIREMENTS FOR PROTECTED RESOURCES

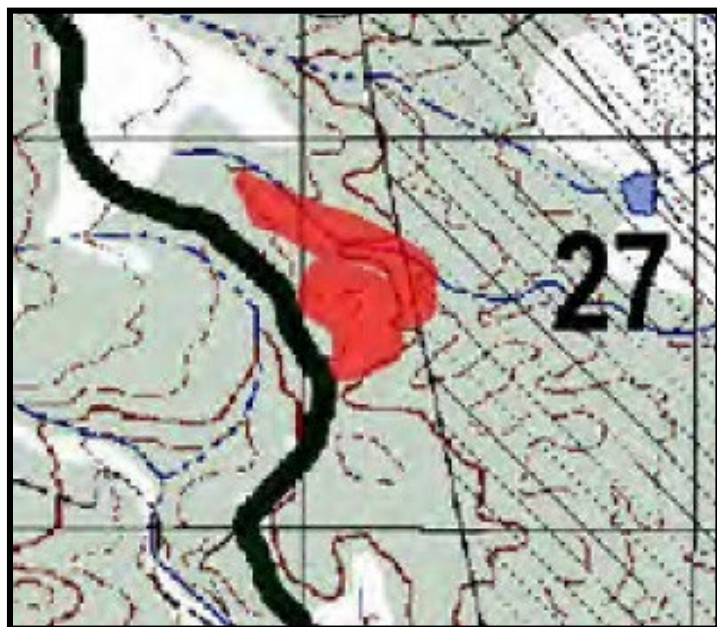
- No vehicles allowed
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- No bivouacking allowed
- No aerial maneuvering allowed within 100 meters
- Travel allowed only on approved travel corridors through the area as shown on the map

**Best Practice:** While operating a vehicle, implement a 30-meter stand-off distance from the perimeter of the protected resource as depicted on the map.



# PROTECTED RESOURCES MAP SYMBOLS:

## UNMARKED PROTECTED RESOURCE



**Symbol:** Area polygon with red-filled interior

**Definition:** Protected resource that lacks marking or is partially marked (Seibert markers, protection fencing with signs, or combination of both

**Caveats:** Ensure the entire red perimeter is avoided at all times by vehicles. **Do not simply rely on the observed Seibert markers and/or fencing.**



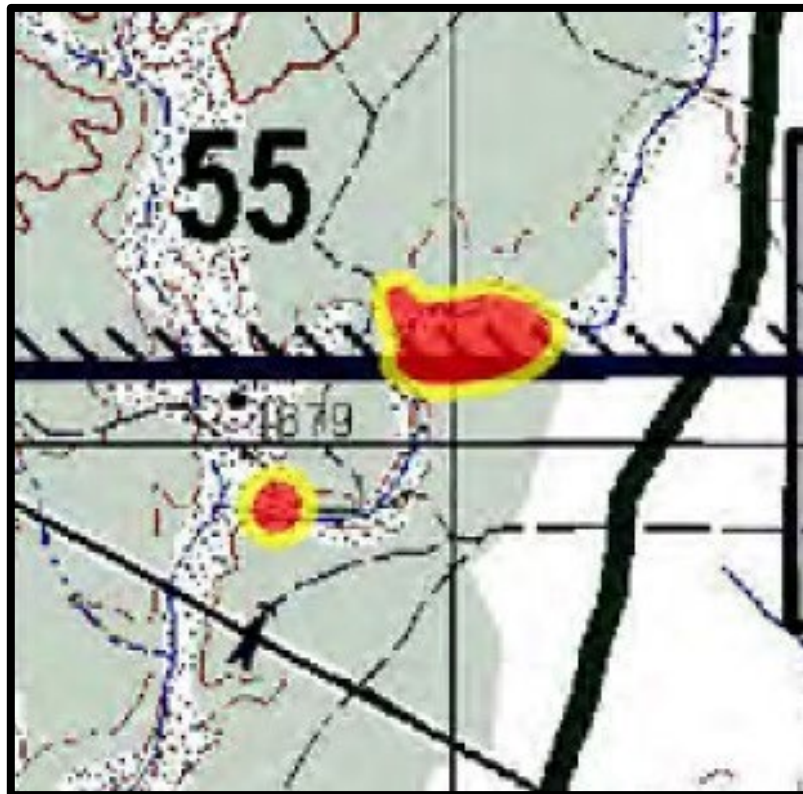


# PROTECTED RESOURCES MAP SYMBOLS: MARKED PROTECTED RESOURCE

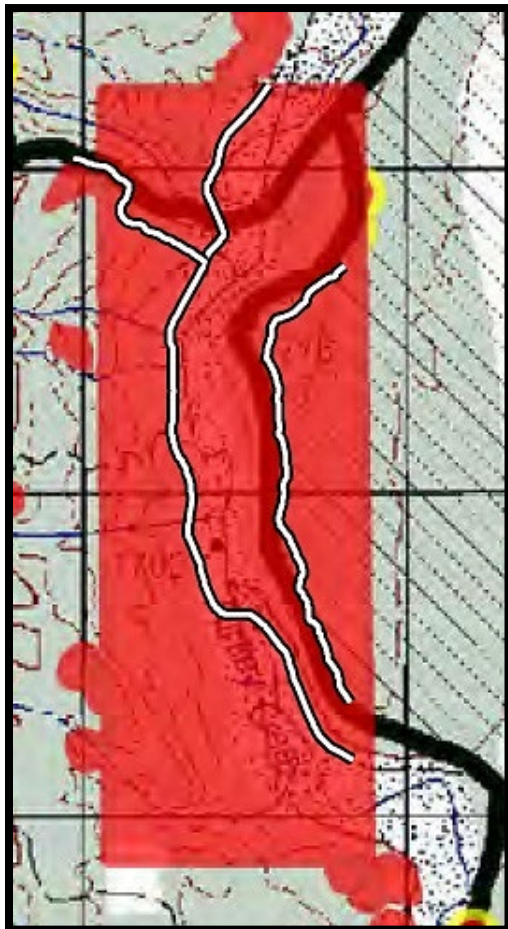
**Symbol:** Area polygon with red-filled interior and yellow outline (halo)

**Definition:** Protected resource that is completely marked with Seibert markers, protection fencing with signs, or a combination of both

**Caveats:** Ensure the yellow outside perimeter is avoided at all times by vehicles. **Do not simply rely on the observed Seibert markers and/or fencing.**



# PROTECTED RESOURCES MAP SYMBOLS: AUTHORIZED TRAVEL CORRIDOR



**Symbol:** White line interior and black outline

**Definition:** Corridors approved for travel through protected resources

**Caveat:** No off-road travel allowed within the protected resource. **Stay on the approved, existing corridor only.**





# PHYSICAL PROTECTION MEASURES



**Seibert Marker**

Red, yellow, and white 3M reflective tape  
Black stripe points to inside of restricted area.



**Protection Fences with Restricted Access Signs**



**Boulders**

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# INADVERTENT ENTRY / IMPACT

- Inform Range Operations **immediately** of any inadvertent entries into or other impacts to a protected resource.
- Note conditions and how / why the entry or impact occurred.
  - This information helps prevent future entries or impacts.

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# NATURAL RESOURCES GUIDANCE

Refer to Fort Carson Environmental Battle Book, v 6.1, 2018

- Page 80, “Wildlife (Dangerous): Bears / Mountain Lions / Rattlesnakes / Coyotes”
- Page 81, “Wildlife (Migratory Birds): Songbirds / Raptors / Ravens / Etc.”
- Page 82, “Wildlife (Problem Critters): Raccoons / Skunks / Rodents / Non-Venomous Snakes / Etc.”
- Page 83, “ Wildlife (Sensitive or T&E Species): Prairie Dogs / Burrowing Owls”



# NATURAL RESOURCES GUIDANCE

- Military training activities are **not** exempt from the Migratory Bird Treaty Act, but are authorized for incidental take under 50 CFR Part 21.
- Nesting birds should be avoided when possible.
- Avoid digging or bivouacking in prairie dog colonies due to potential plague exposure.
- Contact the Wildlife Biologists or Conservation Law Enforcement Officers for any wildlife issues (e.g. snake removal, injured animal, incidental take).



# NATURAL RESOURCES GUIDANCE

- Do not crush or cut trees unnecessarily.



**This tree was approximately 200 years old.  
This was avoidable.**



**Stock tanks provide drinking water for wildlife.**

- Do not run over stock tanks or guzzlers.



# CULTURAL RESOURCES GUIDANCE

Refer to Fort Carson Environmental Battle Book, v 6.1, 2018, page 31, “Cultural Resources” and Chapter 7 of the Integrated Cultural Resources Management Plan.

- Observe posted signs, fencing, and Seibert marking. No digging, bivouacking, mounted maneuvers, etc. within these areas.
- Do not collect artifacts.
- Do not disturb stone circles, rock mounds, ruins, or other cultural features.
- Do not touch or deface rock art.
- Do not trespass in historic structures (safety hazard).



# CULTURAL RESOURCES GUIDANCE

- Report any signs of looting, graffiti, or other damage to Range Operations or Cultural Resources staff.
- No graffiti anywhere, anytime.



**You will not WRITE, PRINT, PAINT, STAMP, SCRATCH, PECK, OR CHALK ON ANY STONE SURFACES, BUILDINGS / STRUCTURES (HISTORIC OR MODERN), OR LATRINE WALLS!!!!**

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# IF YOU FIND ARTIFACTS, BONES, OR OTHER POSSIBLE CULTURAL ITEMS...

- Stop work immediately.
- Flag a protective buffer around the location of the discovery.
- Report the discovery to Range Operations & Cultural Resources Manager and/or PCMS Archaeologists.
- You will be notified by the Cultural Resources Manager or PCMS Archaeologists when you can proceed.



# SPILL RESPONSE

Refer to Fort Carson Environmental Battle Book, v 6.1, 2018, page 68, “Spill Clean Up and Reporting Oil/Hazardous Substance.”

- Spill cleanup is the unit’s responsibility.
- General response procedures:
  - Do not put personnel at risk.
  - Contain and report to your unit. Report location to Range Operations.
  - Spills of 5 gallons or more must be reported to Range Operations immediately.
  - Range Operations will contact the Fire Dept. Do not call 911 at PCMS.
  - Most spills are cleaned up by removing the contaminated soils.
  - Recovered contaminated soils will be transported to the PCMS Cantonment for disposal.

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# CITED RESOURCES

Environmental Battle Book, v 6.1, 2018

<https://home.army.mil/carson/application/files/4116/4976/7771/environmental-battlebook.pdf>

Integrated Cultural Resources Management Plan

<https://home.army.mil/carson/application/files/3716/4934/6831/2017-2021-icrmp.pdf>

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**FISCAL YEAR (FY) 2024 ANNUAL  
REPORT:  
*PROGRAMMATIC AGREEMENT AMONG ARMY GARRISON FORT CARSON, COLORADO  
STATE HISTORIC PRESERVATION OFFICER, AND THE ADVISORY COUNCIL ON HISTORIC  
PRESERVATION REGARDING MILITARY TRAINING AND OPERATIONAL SUPPORT  
ACTIVITIES DOWN RANGE FORT CARSON, COLORADO***

**NOVEMBER 15, 2024**

The U.S. Army Garrison (USAG) Fort Carson submits the following annual report to the State Historic Preservation Officer (SHPO) and concurring parties in accordance with Stipulation V of the *Programmatic Agreement among U.S. Army Garrison Fort Carson, Colorado State Historic Preservation Officer, and the Advisory Council on Historic Preservation regarding Military Training and Operational Support Activities Down Range Fort Carson, Colorado*, hereafter referred to as the Fort Carson Downrange PA. This report covers the period from October 1, 2023, through September 30, 2024, and includes information as outlined in Stipulation V.A. It has been distributed electronically to the SHPO and concurring parties and is available online at:  
<https://home.army.mil/carson/Directorate/directorate-public-works/nepa-and-cultural-resources-documents>.

## **I. Exempted Undertakings**

Table 1 of Enclosure 1 lists all exempted undertakings that have been reviewed by the Fort Carson Cultural Resources Manager (CRM) during the reporting period. Forty-eight undertakings were reviewed that were considered exempted in accordance with Appendix 1 of the Fort Carson Downrange PA.

## **II. Non-Exempted Undertakings**

Table 2 of Enclosure 1 lists all reviewed undertakings that required consultation in accordance with Section 106 of the National Historic Preservation Act (NHPA) during the reporting period. Two undertakings required Section 106 consultation. Section 106 consultation has been completed for two undertakings (2022-215, 2023-187).

## **III. Action Updates**

### ***A. Status of Tasks Implemented under Stipulations I, III, IV, and VI***

The Fort Carson Downrange PA Task Tracker (Enclosure 2) provides detailed information regarding the status of the various tasks implemented under Stipulation I, Inventory and Evaluation of Cultural Resources; Stipulation III, Protection of Historic Properties; Stipulation IV, Monitoring; and Stipulation VI, Mitigation.

### ***A. Cultural Resources Awareness Training***

The following cultural resources awareness training materials are provided to Soldiers, civilian employees, contractors, and other users, as appropriate:

- Environmental Protection Officer (EPO) course – provided monthly to Soldiers who serve as the EPO for their unit; updated October 2022.
- Fort Carson Environmental Battle Book, 2018, v6.1<sup>1</sup> – a quick reference document for guidance on common environmental concerns including cultural resources.
- Cultural Resources Awareness Presentation for the U.S. Air Force Academy Survival Training. This presentation was shared with more than 400 Cadets and Commanding Officers prior to their training at PCMS.

Additional training materials, briefs, and presentations are provided on an as needed basis, and are typically specific to the situation.

#### *B. Inventory and Survey of the APEs*

Surveys have been conducted within the APEs of upcoming LRAM projects: 2022-215, 2023-187, and 2023-188. These surveys were conducted in TA: 21, 24, 27, and 31. Survey results were submitted to the OAHP on November 2, 2023.

#### *C. Inadvertent Entries and/or Impacts to Historic Properties*

The following summarizes any inadvertent entries and/or impacts to historic properties that occurred during the reporting period.

- No inadvertent entries were identified during the reporting period.

#### *D. Inadvertent Discoveries*

There were no inadvertent discoveries during the reporting period.

#### *E. Emergency Response per 36 CFR 800.12*

Per 36 CFR 800.12(d), fire suppression activities associated with the following wildland fire events are considered immediate rescue and salvage operations conducted to preserve life or property, and as such, are exempt from the provisions of Section 106.

During the reporting period, downrange Fort Carson and the Built Environment experienced an estimated 40 wildland or other fires. In addition, 7 prescribed burns

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<sup>1</sup> <https://home.army.mil/carson/application/files/4116/4976/7771/environmental-battlebook.pdf>

were conducted as part of planned fire management activities. These burns were designed to reduce fuel loads, support habitat restoration, and minimize the risk of future wildland fires.

Fort Carson's Directorate of Emergency Services (DES) is currently in the process of updating their fire reporting software. As a result, detailed data on fire suppression activities is not yet available. I will provide a follow-up report with comprehensive and accurate figures as soon as the updated information becomes accessible.

Fire Management efforts continue to prioritize the protection of natural and cultural resources, in coordination with environmental staff and other stakeholders, while ensuring the safety of personnel and property.

#### *F. Amendment*

There were no amendments proposed nor executed during the reporting period.

On September 28, 2021, USAG Fort Carson notified the ACHP, SHPO, Tribes, and other consulting and interested parties of our intention to implement the Army Alternate Procedures (AAP) and requested point-of-contact information for those interested in collaborating with USAG Fort Carson in the development of a Historic Properties Component. Implementation of the AAP would supersede the PCMS PA. Consultation is ongoing.

- On September 28, 2023, the HPC draft was sent to SHPO, Tribes, ACHP, and consulting parties for comment. A meeting was held virtually on November 16, 2023 to discuss the HPC draft and provide a deadline to receive comment to December 5, 2023.
- Fort Carson received over 300 comments in December 2023.
- On January 11, 2023, Fort Carson hosted a meeting to continue the consultation and discuss the comments received. CRM continued to address and made edits on the HPC draft.
- On March 26, 2024, the updated HPC draft was sent to USACE, AEC, AEC Legal, and Fort Carson SJA for comment. Fort Carson received comments from all parties.
- On September 11, 2024, Fort Carson continued the consultation with the Tribes on the AAP.

#### *G. Dispute Resolution*

There have been no dispute resolution activities during the reporting period.

#### *H. Other*

In Section III.D of the FY2019 Annual Report, inadvertent entries associated with the 2nd Infantry Brigade Combat Team “Warhorse Strike” Training Exercise held in September-October 2019 were reported at two sites: 5PE793 and 5PE2966. USAG Fort Carson determined no adverse effects to 5PE793 occurred as a result of the entry, and adverse effects to 5PE2966 occurred due to cumulative effects associated with military training. The after-action report was submitted to the SHPO, Native American Tribes, and other consulting and interested parties on May 27, 2020. The SHPO concurred with the findings of effects via correspondence dated June 1, 2020 (HC #77880). Responses were also received from the City of Colorado Springs, Pawnee Nation of Oklahoma, and Southern Ute Indian Tribe. Consultation will continue to discuss the appropriate mitigation to resolve for adverse effects to site 5PE2966 and develop a Memorandum of Agreement implementing the chosen mitigation effort. During the reporting year, no progress has been made toward the resolution of adverse effects at site 5PE2966.

Report compiled by:

Benjamin A Zandarski II  
Fort Carson Archaeologist

Reviewed by:

Angie Bell  
Chief, NEPA and Cultural Management Branch

John P. Wachter  
Chief, Environmental Division

**ENCLOSURE 1**

**ENCLOSURE 1:**  
**ALL UNDERTAKINGS REVIEWED BY THE FORT CARSON CRMP DURING THE FY24 REPORTING PERIOD**  
**(OCTOBER 1, 2023, THROUGH SEPTEMBER 30, 2024) UNDER THE Fort Carson Downrange PA.**

**Table 1: Exempted Undertakings**

<b>USAG Fort Carson NEPA Project Number(s) &amp; Project Title</b>	<b>USAG Fort Carson Project Number(s)</b>	<b>Location (APE)</b>	<b>Exemption(s) Used</b>	<b>Date(s) Reviewed</b>	<b>Remarks</b>
2024-025 Dig Request for Training at TAs 30 and 31 on Fort Carson, 2-8 Nov 2023	N/A	Downrange Fort Carson	FC C	10/23/2023	
2024-018 Realign Perimeter Fence, SH115	DPW24-049	Downrange Fort Carson	FC D1a FC D1d	10/26/2023	Proposed work includes: realigning the perimeter fence along Colorado state highway 115
2024-041 Dig Permit - Range 109 Upgrade Fiber Bldg E to Bldg F	DIG24-001	Downrange Fort Carson	FC D1b	11/6/2023	Proposed work includes: digging a trench from an existing manhole to building L to install fiber
2024-073 Construct, Install Golden Eagle Cameras in Rule Canyon/Teller Res. TA 32/33/52)	DPW24-082	Downrange Fort Carson	FC D2a	12/4/2023	Proposed work includes: Installing cameras at Golden Eagle nest locations
2024-083 404th Aviation Support Battalion, 4th Combat Aviation Brigade. Excavation Training Request, TAs 24 & 43, Fort Carson.	N/A	Downrange Fort Carson	FC C	12/13/2023 1/17/2024	Dig request was updated on 1/17/2024 to only include TA 24 with one slightly modified point.

USAG Fort Carson NEPA Project Number(s) & Project Title	USAG Fort Carson Project Number(s)	Location (APE)	Exemption(s) Used	Date(s) Reviewed	Remarks
2024-100 FY24 2nd Quarterly Advisory REC for Training on FC and PCMS	DPT24QTR2	Main Post Downrange Fort Carson PCMS Numbered TAs PCMS Lettered TAs PCMS Training Area A	BE I.C3 FC A FC B FC C PC B1 PC B2 PC B3 PC C1 PC C2 PC D1 PC D2	1/2/2024	Per Fort Carson Regulation 200-1, each quarter the Record of Environmental Consideration (REC) for training will be updated. This quarterly training REC covers use of established ranges, drop zones, landing zones, and other training facilities; maneuver training (mounted, dismounted, and aerial); excavation training; etc. It does not cover brigade-sized training exercises, which are reviewed separately. In addition, excavation training is reviewed by the Cultural Resources Program on a case-by-case basis. Updated GIS layers of protected resources restrictions, as well as Standard Operating Procedures (SOPs) and cultural resources awareness training briefs for Fort Carson and PCMS are provided to DPTMS for planning purposes.
2024-103 *Restaffing scope update* REMOVE/REGRADE SOIL STOCK PILE AT COTTONWOOD JUNCTION	DPW24-040	Downrange Fort Carson	FC D1b FC D1d FC D2b	1/2/2024	Proposed work includes: Removing and regrading soil stockpile to mitigate environmental and legal concerns of unauthorized "landfill". Funding to vegetate soil after grading/disturbance. Stockpiles will be used to improve existing training infrastructure by building up nearby tank trails
2024-085 Construct Grade & Level Terrain at Agony North	4ID23-001	Downrange Fort Carson	FC D1a	1/10/2024	Proposed work includes: using earth moving equipment in order to level the terrain to the north of the airstrip
2024-120 299th Brigade Engineer Battalion, 1st Stryker Brigade Combat Team, 4th Infantry Division. Excavation Training Request, TAs 30, Fort Carson.	N/A	Downrange Fort Carson	FC C	1/22/2024	
2024-121 596th Combat Engineer Company-Armored, 4th Engineer Battalion. Excavation Training Request, TAs 49, Fort Carson.	N/A	Downrange Fort Carson	FC C	1/22/2024	

## FY24 Annual Report Fort Carson Downrange PA

USAG Fort Carson NEPA Project Number(s) & Project Title	USAG Fort Carson Project Number(s)	Location (APE)	Exemption(s) Used	Date(s) Reviewed	Remarks
2024-125 4th Engineer Battalion. Excavation Training Request, TAs 7 and 10, Fort Carson.	N/A	Downrange Fort Carson	FC C	1/26/2024	
2024-148 576th Combat Engineer Company Armor, 4th Engineer Battalion, Excavation Training Request, TAs 35, 46, 47, Fort Carson	N/A	Downrange Fort Carson	FC C	2/13/2024	
2024-149 Alpha Company, 2nd Battalion, 23rd Infantry Regiment, 1st Stryker Brigade Combat Team, 4th Infantry Division, Excavation Training Request, TA 32, Fort Carson	N/A	Downrange Fort Carson	FC C	2/15/2024	
2024-152 Repair Range 131C	SFG24-006	Downrange Fort Carson	FC D1b	2/20/2024	Proposed work includes: Replacing, painting, seal exterior walls, roof, and installing windows. The exterior walls will be replaced and painted. The roof will be replaced and sealed. Constructing a staircase in the elevator shaft
2024-157 Alpha Company, 299th Brigade Engineer Battalion Excavation Training Request, TA 11, Fort Carson	N/A	Downrange Fort Carson	FC C	2/26/2024	
2024-158 Headquarters, 4th Engineer Battalion, Excavation Training Request, TA 40, Fort Carson	N/A	Downrange Fort Carson	FC C	2/26/2024	
2024-160 Headquarters, 4th Engineer Battalion, Excavation Training Request, TA 39, Fort Carson	N/A	Downrange Fort Carson	FC C	2/28/2024	
2024-161 Headquarters, 4th Engineer Battalion, Excavation Training Request, TA 43, Fort Carson	N/A	Downrange Fort Carson	FC C	2/28/2024	
2024-160 Headquarters, 4th Engineer Battalion, Excavation Training Request, TAs 40/41/43, Fort Carson	N/A	Downrange Fort Carson	FC C	2/28/2024	
2024-164 Headquarters, 4th Engineer Battalion, Excavation Training Request, TAs 40/39, Fort Carson	N/A	Downrange Fort Carson	FC C	3/4/2024	



USAG Fort Carson NEPA Project Number(s) & Project Title	USAG Fort Carson Project Number(s)	Location (APE)	Exemption(s) Used	Date(s) Reviewed	Remarks
2024-181 Install Acoustical Recording Units on Fort Carson	DPW24-109	Main Post Downrange Fort Carson	BE I.B1 FC D2a	3/19/2024	Proposed work include installing acoustical recording units (ARUs) to monitor for bats in important use areas.
2024-185 FY24 3rd Quarterly Advisory REC for Training on FC and PCMS	DPT24QTR3	Main Post Downrange Fort Carson PCMS Numbered TAs PCMS Lettered TAs	BE I.C3 FC A FC B FC C PC B1 PC B2 PC B3 PC C1 PC C2 PC D1 PC D2	3/22/2024	Per Fort Carson Regulation 200-1, each quarter the Record of Environmental Consideration (REC) for training will be updated. This quarterly training REC covers use of established ranges, drop zones, landing zones, and other training facilities; maneuver training (mounted, dismounted, and aerial); excavation training; etc. It does not cover brigade-sized training exercises, which are reviewed separately. In addition, excavation training is reviewed by the Cultural Resources Program on a case-by-case basis. Updated GIS layers of protected resources restrictions, as well as Standard Operating Procedures (SOPs) and cultural resources awareness training briefs for Fort Carson and PCMS are provided to DPTMS for planning purposes.
2024-189 LRAM Project - Range 35A Headcut Remediation	DPT24-012	Downrange Fort Carson	FC D1b FC D2a	4/4/2024	Project Cancelled
2024-234 Headquarters, 1st Battalion, 38th Infantry Regiment, 1st Stryker Brigade Combat Team, 4th Engineer Battalion, Excavation Training Request, TA 38, Fort Carson	N/A	Downrange Fort Carson	FC C	4/30/2024	
2024-236 Ponderosa Seedling Planting, TA 18	DPW24-127	Downrange Fort Carson	FC D2b	5/3/2024	Reforestation of wildfire damaged stand in TA 18.

USAG Fort Carson NEPA Project Number(s) & Project Title	USAG Fort Carson Project Number(s)	Location (APE)	Exemption(s) Used	Date(s) Reviewed	Remarks
2024-237 4th Battalion, 9th Infantry Regiment, 1st Stryker Brigade Combat Team, 4th Infantry Division, Excavation Training Request, TA 51 & 55, Fort Carson	N/A	Downrange Fort Carson	FC C	5/13/2024	
2024-239 68th Combat Sustainment Support Battalion, 4ID Sustainment Brigade, 4th Infantry Division, Excavation Training Request, TA 10, Fort Carson	N/A	Downrange Fort Carson	FC C	5/8/2024	
2024-254 B Troop, 2nd Squadron, 1st Cavalry Regiment, 1st Stryker Brigade Combat Team, 4th Infantry Division, Excavation Training Request, TA 10, Fort Carson	N/A	Downrange Fort Carson	FC C	5/16/2024	
2024-256 4th Battalion, 9th Infantry Regiment, 1st Stryker Brigade Combat Team, 4th Infantry Division, Excavation Training Request, Range 153, Fort Carson	N/A	Downrange Fort Carson	FC C	5/17/2024	
2024-257 Headquarters and Headquarters Battalion, 4th Infantry Division, Excavation Training Request, TA 51 & 55, Fort Carson	N/A	Downrange Fort Carson	FC C	5/15/2024	
2024-259 14th Marine Regiment, 4th Marine Division, Excavation Training Request, TA 11, Fort Carson	N/A	Downrange Fort Carson	FC C	5/28/2024	
2024-292 Repair Tile Flooring R143	DPT19-023	Downrange Fort Carson Range 143	FC D1b	6/19/2024	Proposed work includes: replacing the tile floor in the main control tower of Range 143

USAG Fort Carson NEPA Project Number(s) & Project Title	USAG Fort Carson Project Number(s)	Location (APE)	Exemption(s) Used	Date(s) Reviewed	Remarks
2024-295 FY24 4th Quarterly Advisory REC for Training on FC and PCMS	DPT24QTR4	Main Post Downrange Fort Carson PCMS Numbered TAs PCMS Lettered TAs	BE I.C3 FC A FC B FC C PC B1 PC B2 PC B3 PC C1 PC C2 PC D1 PC D2	6/26/2024	Per Fort Carson Regulation 200-1, each quarter the Record of Environmental Consideration (REC) for training will be updated. This quarterly training REC covers use of established ranges, drop zones, landing zones, and other training facilities; maneuver training (mounted, dismounted, and aerial); excavation training; etc. It does not cover brigade-sized training exercises, which are reviewed separately. In addition, excavation training is reviewed by the Cultural Resources Program on a case-by-case basis. Updated GIS layers of protected resources restrictions, as well as Standard Operating Procedures (SOPs) and cultural resources awareness training briefs for Fort Carson and PCMS are provided to DPTMS for planning purposes.
2024-299 FY24 Prairie Dog Control and Treatment	N/A	Main Post Downrange Fort Carson	BE I.B3 FC D2b	7/11/2024	
2024-317 Repair Sewer Main - Red Devil	SO67-136931	Downrange Fort Carson	FC D1b	7/9/2024	Proposed work includes: investigating and repair sewer main
2024-304 Invasive Species Control, Fort Carson and PCMS FY24-25	N/A	Main Post Downrange Fort Carson PCMS Numbered TAs PCMS Lettered TAs	BE I.B3 FC D2b PC A3b PC B4b2 PC C3b2 PC D3b2	7/10/2024	Proposed work includes: the use of mechanical, biological, cultural, and/or approved chemical treatment to eradicate invasive plants on the identified areas at Fort Carson and PCMS
2024-322 Demo & CNS Bldgs Range 131C	SFG24-015	Range 131	FC D1a FC D1d	7/10/2024	Proposed work includes: demo of two B-huts, pour concrete and construct two new prefabricated building at Range 131C
2024-328 59th Quartermaster Company, Excavation Training Request, TA 10, Fort Carson	N/A	Downrange Fort Carson	FC C	7/18/2024	

USAG Fort Carson NEPA Project Number(s) & Project Title	USAG Fort Carson Project Number(s)	Location (APE)	Exemption(s) Used	Date(s) Reviewed	Remarks
2024-329 Operational Testing Event on Fort Carson, 6-21 Aug 2024	N/A	Downrange Fort Carson	FC A FC B	7/18/2024	
2024-344 Forward Support Company, 4th Engineer Battalion, Excavation Training Request, TA 20, Fort Carson	N/A	Downrange Fort Carson	FC C	8/7/2024	
2024-347 59th Headquarters, 4th Division Sustainment Brigade, Excavation Training Request, TA 30, Fort Carson	N/A	Downrange Fort Carson	FC C	8/12/2024	
2024-348 Headquarters, 68th Division Sustainment Support Battalion, Excavation Training Request, TA31, Fort Carson	N/A	Downrange Fort Carson	FC C	8/14/2024	
2024-350 Teller Dam Conduit Inspection	DPW24-180	Downrange Fort Carson	FC B4a2	8/14/2024	Proposed work includes: inspecting the main outlet conduit of Teller Dam
2024-353 Headquarters and Headquarters Battalion, Excavation Training Request, TA11, Fort Carson	N/A	Downrange Fort Carson	FC C	8/19/2024	
2024-373 569th Combat Engineer Company-Armored, 4th Engineer Battalion, Excavation Training Request, TAs 40, 41, Fort Carson	N/A	Downrange Fort Carson	FC C	9/16/2024	
2024-374 Headquarters, 4th Engineer Battalion, Excavation Training Request, TA 39, Fort Carson	N/A	Downrange Fort Carson	FC C	9/16/2024	

USAG Fort Carson NEPA Project Number(s) & Project Title	USAG Fort Carson Project Number(s)	Location (APE)	Exemption(s) Used	Date(s) Reviewed	Remarks
2024-378 FY25 1st Quarterly Advisory REC for Training on FC and PCMS	DPT25QTR1	Main Post Downrange Fort Carson PCMS Numbered TAs PCMS Lettered TAs	BE I.C3 FC A FC B FC C PC B1 PC B2 PC B3 PC C1 PC C2 PC D1 PC D2	9/24/2024	Per Fort Carson Regulation 200-1, each quarter the Record of Environmental Consideration (REC) for training will be updated. This quarterly training REC covers use of established ranges, drop zones, landing zones, and other training facilities; maneuver training (mounted, dismounted, and aerial); excavation training; etc. It does not cover brigade-sized training exercises, which are reviewed separately. In addition, excavation training is reviewed by the Cultural Resources Program on a case-by-case basis. Updated GIS layers of protected resources restrictions, as well as Standard Operating Procedures (SOPs) and cultural resources awareness training briefs for Fort Carson and PCMS are provided to DPTMS for planning purposes.
2024-326 Fall 2024 Prescribed Fire - FC/PCMS	DPW24-177	Downrange Fort Carson PCMS Numbered TAs	FC D2b PC B4b2	9/26/2024	Proposed work includes: conducting prescribed burns on Fort Carson and the Pinon Canyon Maneuver Sites to mitigate wildland fire effects and to support ecological land management

Table 2: Non-Exempted Undertakings Requiring Section 106 Consultation

USAG Fort Carson NEPA Project Number(s) & Project Title	USAG Fort Carson Project Number(s)	Location (APE)	Date(s) Reviewed	SHPO Number & Date Concurred	Remarks
2022-215,217 LRAM Fort Carson TA 24 & PCMS TA 10A	DPT22-010 DPT22-007	Downrange Fort Carson	12/4/2023	HC #82357 11/6/2023	No adverse effect to historic properties. Section 106 consultation (REC2022-215, 217) was completed in December 2023 and SHPO concurred with the finding of "no adverse effect" in the correspondence dated November 6, 2023 (HC #82357).

2023-187,188 Fort Carson LRAM	DPT23-016 DPT23-017	Downrange Fort Carson	12/4/2023	HC #83788 11/6/2023	No adverse effect to historic properties. Section 106 consultation (REC2023-187, 188) was completed in December 2023 and SHPO concurred with the finding of "no adverse effect" in the correspondence dated November 6, 2023 (HC #83788).
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Table 3. Other Non-Exempted Undertakings

USAG Fort Carson NEPA Project Number(s) & Project Title	USAG Fort Carson Project Number(s)	Location (APE)	Date(s) Reviewed	Remarks
2024-200 Geotech Boring New Airburst range tower	N/A	Airburst Range	4/16/2024	Geotech boring next to original tower prior to establishing new tower, this is just for boring.

**Enclosure 2:**

**ENCLOSURE 2:**  
**Fort Carson Built Environment PA TASK TRACKER**  
**(CURRENT AS OF SEPTEMBER 30, 2024)**

Stipulation	Action	Duration	Date Required	Remarks
I.A.1	GIS shapefiles and master site index provided to SHPO	90 days after signing	7/22/2014	Completed; provide updates as necessary
I.A.2	Cultural resources documentation submitted to SHPO	180 days after signing	10/20/2014	Completed; provide updates as necessary
I.A.3	SHPO notifies USAG that information baseline has been created and request any missing information	1 year after completion of I.A.2	4/02/2015	Completed
I.A.4	USAG and SHPO consult to address any data discrepancies	180 days after completion of I.A.3	7/05/2016	Completed (HC #63877); consult as needed on any data discrepancies that may arise.
I.A.4	Implement agreeable terms to reconcile discrepancies	3 years after completion of I.A.4 task above	7/05/2016	Completed (HC #63877).



Stipulation	Action	Duration	Date Required	Remarks
I.B	Complete documentation on needs data sites or implement a protection measure	3 years after signing	04/22/2017	<p>Completed</p> <p>FY19: Contract awarded in September 2018 to develop research designs for 71 sites. Research designs for 32 sites are being reviewed by the CRM. Research designs for 39 sites were submitted for SHPO review. Comments are being addressed. Project is ongoing.</p> <p>FY20: Contract awarded in September 2019 to evaluate 58 isolated finds. Fieldwork has been completed. Technical report and site documentation were submitted to SHPO 20 March, 2023. Project is complete.</p> <p>FY20: Contract awarded in September 2019 to conduct a traditional use study of the Hogback. Site visits are complete and the report is forthcoming. Project is ongoing.</p> <p>567 resources have been determined "needs data," with which SHPO concurs. Research designs are being drafted for 71 of these sites located within the primary maneuver areas and along canyon rims. Documentation and evaluation to modern-day standards of an additional 58 of these resources (categorized as isolated finds) is complete. SHPO (82705) concurred that 57 of the 58 resources were Officially Not Eligible, and 5LA2424 is still a Needs Data site.</p> <p><b>Protection strategies have been implemented at the "Needs Data Sites."</b></p>
I.B.1	SHPO concurrence with NRHP eligibility determinations from re-evaluations	60 days after submission	TBD	

Stipulation	Action	Duration	Date Required	Remarks
I.D	Continue consultation with Tribes concerning site protection, monitoring frequencies, and TCPs and sacred sites identification	Ongoing action	n/a	Consultation meeting was held in person April 5, 2023 through April 7, 2023. In attendance were representatives from the Cheyenne and Arapaho Tribes of Oklahoma, Cheyenne River Sioux, Comanche Nation of Oklahoma, Jicarilla Apache Nation, Pawnee Nation of Oklahoma, Rosebud Sioux Tribe, and Standing Rock Sioux.
III.A	Implement site protection measures		04/22/2017	415 of 1,200 protected sites have a protection fence, Seibert markers, boulders, or combination; 191 have corner markers only; 126 are terrain protected (i.e. no vehicle access); all others are administratively protected.
III.B	Propose amended site protection measures and monitoring frequencies	As needed	n/a	No proposed changes during reporting period
III.D	Provide training vehicles/aircraft with means of knowing site locations	1 year after signing	04/22/2015	Completed; update as necessary
IV.A	Monitor protected cultural properties	Ongoing action	n/a	Working with Fort Carson Conservation Law Enforcement Officers to conduct routine inspections.
V.A	Implement cultural awareness training of all personnel involved in the execution of undertakings	Annually	n/a	Cultural resources awareness training is part of the annual mandatory training for Soldiers, Civilians, and contractors.
VI.C	Annual meeting with consulting parties	Annually	NLT Feb. 15 <sup>th</sup>	Consultation meeting was held virtually on January 11, 2023. In attendance were representatives from the Colorado SHPO, Colorado Preservation, Inc., Jicarilla Apache Nation, Las Animas County Commissioners, Northern Arapaho Tribe, Otero County Commissioners, Pawnee Nation of Oklahoma, Southern Ute Indian Tribe, and Standing Rock Sioux.

Stipulation	Action	Duration	Date Required	Remarks
VII.AG	Implement terms through policies and ICRMP	Ongoing action	n/a	ICRMP signed by Garrison Commander on 05/01/2017.  The ICRMP renewed for FY23 with no changes. Additional updates will be completed as the CRM moves through the Army Alternate Procedures.

**Enclosure 3:**  
**Examples of Cultural Resources Awareness Training Materials**



# Cultural Resources Management

WHAT YOU NEED TO KNOW AS AN ENVIRONMENTAL PROTECTION OFFICER

## Course Objectives

You will learn:

1. What are cultural resources?
2. Why is it important to protect cultural resources?
3. What are the legal requirements?
4. What are your responsibilities?
5. Where can you learn more?



# Fort Carson Cultural Resources Management Program

## Mission:

*"To support military training requirements, achieve regulatory compliance, and ensure stewardship responsibilities are met."*



## Goals:

1. Support sustainable training
2. Reduce/eliminate access restrictions due to resource protection
3. Protect significant cultural resources from adverse effects
4. Conserve cultural resources and their information for future generations
5. Increase cultural resource appreciation
6. Contribute to our understanding of culture, history, and archaeology at the local, regional, and national levels

# Fort Carson Cultural Resources Management Program

## Objectives:

- Provide accurate data regarding access restrictions
- Monitor cultural resources for impacts
- Implement protective measures
- Implement conservation measures
- Integrate cultural resources management with Installation operations
- Consult with external stakeholders
- Sustain public outreach



Tribal representatives discuss the importance of a rock art panel.

# What are Cultural Resources?

## Definition:

*Non-renewable remnants of past human activities that have cultural or historical value and meaning to a group of people or a society*

## Or simply:

*The stuff we leave behind*



Cultural resources can be thousands of years old, hundreds of years old, or from the more recent past.

# Cultural Resources Examples:



- Rock art, i.e. petroglyphs (carvings) and pictographs (paintings)
- Archaeological sites
- Historical buildings, structures, and objects
- Historical roads and trails
- Sacred sites and traditional cultural properties
- Human burials
- Artifacts
- Ruins





# Fort Carson's Cultural Resources

## Fort Carson (as of August 2017):

- 2,385 Cultural Resources
- 1 Listed National Register District
- 133 Eligible
- 68 Needs Data
- 2,165 Not Eligible
- 18 No Official Determination



## PCMS (as of August 2017):

- 6,248 Cultural Resources
- 573 Eligible
- 660 Needs Data
- 4,999 Not Eligible
- 16 No Official Determination



Complex and Simple Habitation Sites  
Temporary Field Camps  
Stone Artifact Scatters/Quarry Locations  
Food Procurement/Processing Sites  
Rock Art Panels (Prehistoric & Historic)  
Historic Ranches/Farmsteads  
Military Construction (1942-Present)  
Stage Station/Mail Route Remnants  
Small Mining Operations

# Why is it Important to Protect Cultural Resources?

- They provide information regarding **our** heritage, **our** practices, and **our** beliefs.
  - Contributes to **our** sense of place and identity
- These areas may have profound religious and spiritual significance to Native American tribes and other ethnic groups.
- Sacred Native American sites are rooted in the history of their people and maintain the continuity of traditional beliefs and practices.
- By preserving, protecting, and respecting cultural resources, you ensure these resources are available for future generations
  - Non-renewable resource – **once destroyed, can never be restored**
- It is **our** duty, as the land manager to be good stewards, ensuring compliance with all environmental and cultural laws and regulations.

## Another Reason for Protecting Cultural Resources...

### BECAUSE IT'S THE LAW!

National Historic Preservation Act (NHPA)

Archaeological Resources Protection Act (ARPA)

Native American Graves Protection and Repatriation Act (NAGPRA)

American Antiquities Act of 1906

American Indian Religious Freedom Act

Army Regulation 200-1

And more...

**And some of these laws, such as the Archaeological Resources Protection Act, carry criminal and civil penalties.**

FORT CARSON EPO COURSE

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## Section 106 of the National Historic Preservation Act (NHPA)

- Section 106 of the NHPA requires us to consider the effects of our actions on historic properties.
  - Historic properties are any cultural resource that is listed in or is eligible for inclusion in the National Register of Historic Places (NRHP)
  - NRHP – list of cultural resources determined to be significant to the national, state, regional, or local history
- How **You** Can Comply with Section 106:
- Follow the Standard Operating Procedures (SOPs) in the Integrated Cultural Resources Management Plan (ICRMP)
    - SOP No. 1: Section 106 Compliance for Project Proponents
    - SOP No. 2: Mission Training of Military and Tenant Personnel
    - SOP No. 3: Emergency Operations

FORT CARSON EPO COURSE

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## What Happens When We Do Not Comply with NHPA Section 106?

- Colorado State Historic Preservation Officer contacts the Advisory Council on Historic Preservation (ACHP)
- ACHP contacts the Secretary of the Army
- Garrison Commander must answer to the Secretary of the Army on why we foreclosed on the consultation process
- Then, it falls to **YOU** to answer why
- Lawsuits can be filed by Tribes, other interested parties, and the public
  - Comanche Nation v. United States
  - Pueblo of Sandia v. United States
  - National Trust for Historic Preservation v. Department of State
  - City of Grapevine v. Department of Transportation
  - Paulina Lake Historic Cabin Owners Association v. U.S. Forest Service

## Scenario 1: Comanche Nation vs. United States

- Fort Sill proposed to constructed a 43,000 sq ft Training Support Center (TSC) warehouse (\$7.3 million) 1,662 ft southwest of the southern boundary of the Medicine Bluffs National Historic Feature
- Medicine Bluffs is a sacred site/TCP that is listed in the NRHP
- Fort Sill sent the draft final Environmental Assessment in Sep 2006
- Section 106 consultation letters mailed in Aug 2007
  - Comanche Nation requested more information and voiced concerns in correspondence dated Aug 2007, Oct 2007, Feb 2008, May 2008, & July 2008
- Construction of TSC began Aug 2008
- Comanche Nation filed a lawsuit in 15 Aug 2008
- Construction of TSC at new location in Oct 2009

## Scenario 1: Comanche Nation vs. United States

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Comanche Nation asserted Fort Sill:

- Violated the Religious Freedom Restoration Act – building the TSC warehouse at the proposed location would interfere with the exercise of the Tribe's religious beliefs
- Violated the NHPA – Fort Sill failed to make a “reasonable and good faith effort” to consult to identify and resolve adverse effects

Outcome

- Project stopped and moved to another location
- \$650,000 lost on project costs and unknown \$\$\$ spent on legal costs
- Case is a precedent

## Archaeological Resources Protection Act

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- Knowingly damaging an archaeological resource is a violation of the Archaeological Resources Protection Act (ARPA)
  - Includes looting, digging within a site, graffiti or other defacement, removing cultural features, etc.
- ARPA carries up to **\$100,000 fine** and **1 year in jail** for 1<sup>st</sup> offense



## Scenario 2: Graffiti

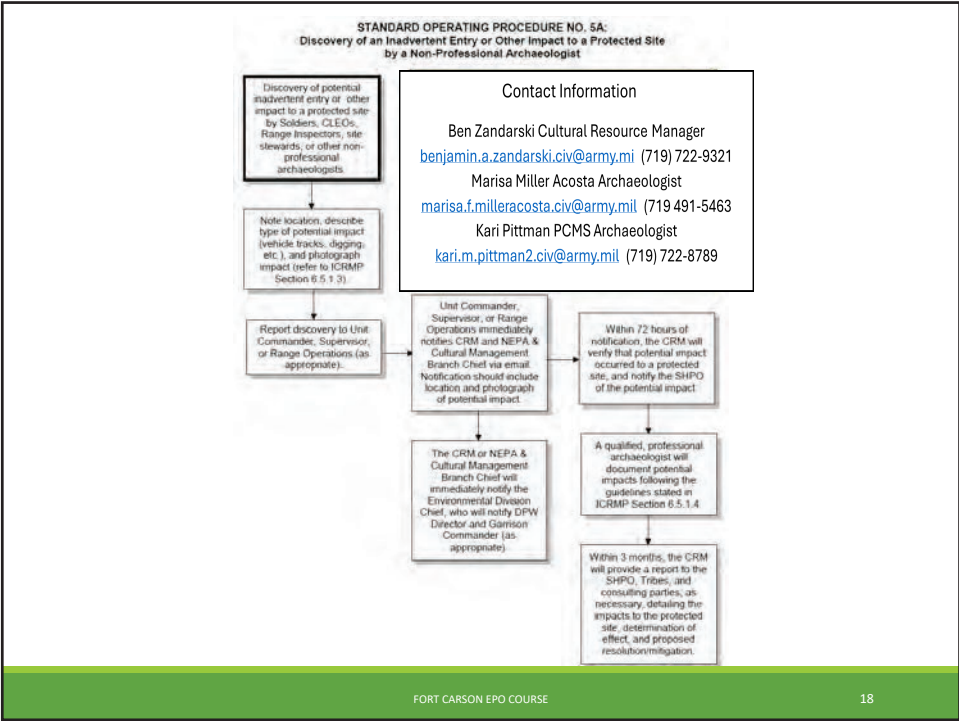
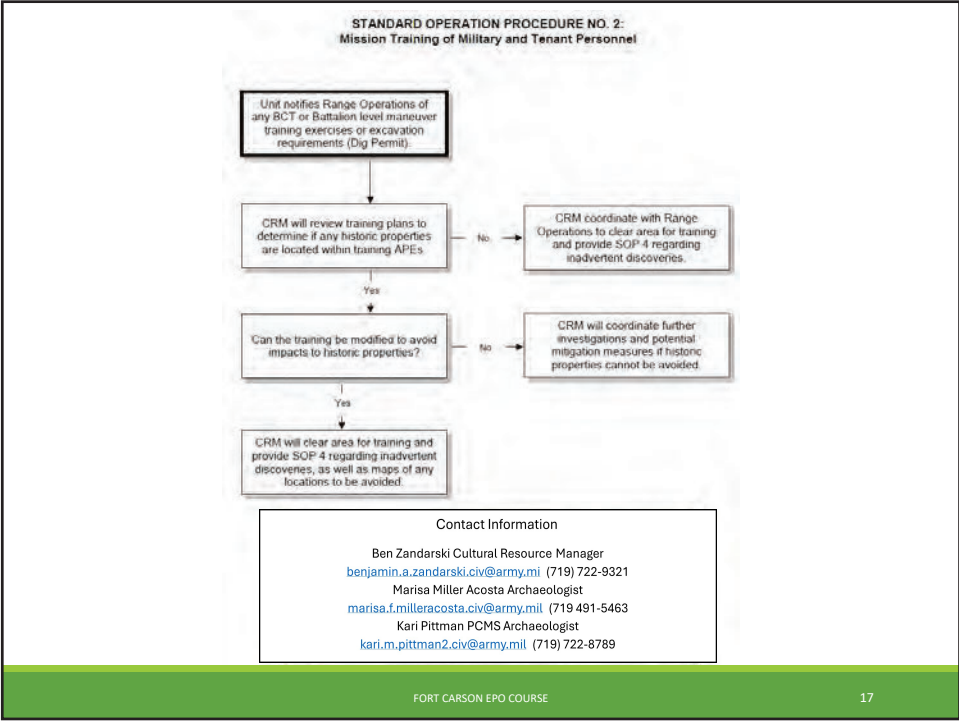
- Sep 2013 – archaeologists observed graffiti at a sacred site/TCP at the PCMS
- Led to an Article 15-6 investigation
- Now used as an example of what not to do
- **Graffiti is not tolerated anywhere, any time**
- Defacing federal property is against the law
  - Destruction of Government Property (18 U.S.C §§ 1361-1363) – up to \$250,000 fine, 10 years imprisonment, or both
  - ARPA
- Anyone caught defacing government property (buildings, rock faces, etc) will be prosecuted



## How Can You Help Protect and Preserve Cultural Resources?

### DO:

- Coordinate land use with Range Operations to ensure you are in an approved area.
  - **Especially excavation training (dig permit)**
  - Refer to ICRMP SOP No. 2
- Obey maneuver damage, environmental, and cultural resources protection policies and procedures.
- Observe posted signs, fencing, and Seibert marking indicating restricted areas that may be off-limits to vehicles, digging, bivouacking or other activities.
- Report any signs of looting, vandalism, or other damage to a cultural site to Range Operations and/or the Cultural Resources Manager (CRM).
  - Refer to ICRMP SOP No. 5A
- Stay vigilant!



## How Can You Help Protect and Preserve Cultural Resources?

### **DON'T:**

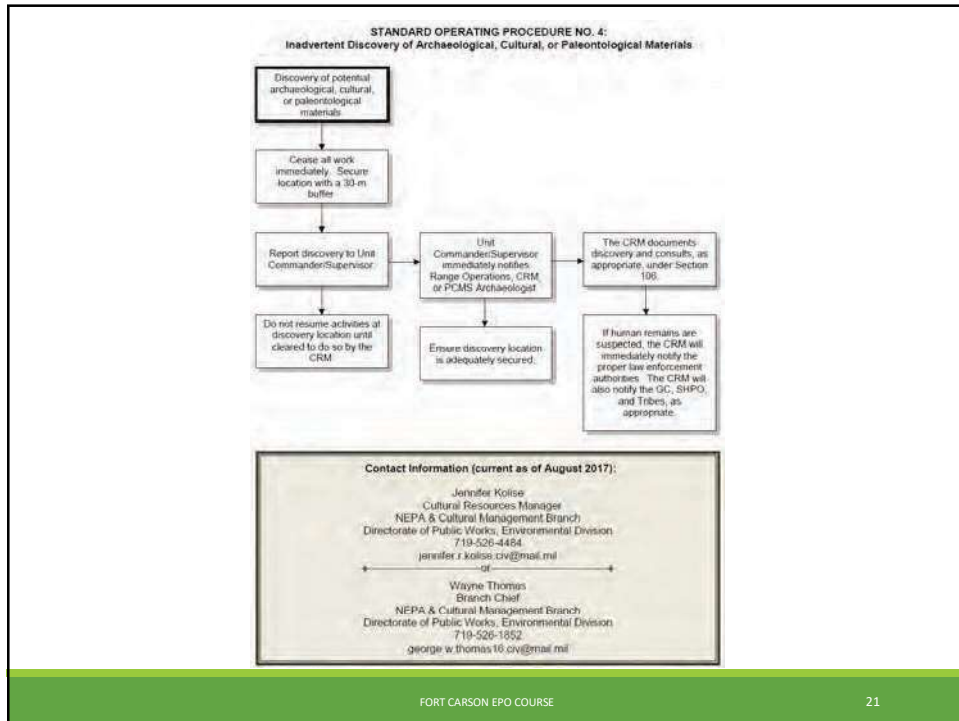
- Collect any artifacts, including arrowheads and bottles.
- Disturb stone circles, rock mounds, ruins, or other cultural features, including using stones from cultural features to create defensive positions or resting areas.
- Lean against, sit on, or step on rock mounds, rock walls, ruins, or other cultural features.
- Touch or deface rock art or historical structures.
- Trespass in historical structures.

## If you find artifacts, bones, or other possible cultural items...

### **STOP WORK IMMEDIATELY**

- Flag a protective buffer around the location of the discovery.
- Report the discovery to:
  - Fort Carson Range Operations (719-526-5698) or PCMS Range Operations (719-503-6120); and/or
  - Fort Carson CRM (719-526-4484) or PCMS Archaeologist (719-503-6136)
- You will be notified when you can proceed.





## What is the Harm in Taking a Souvenir?

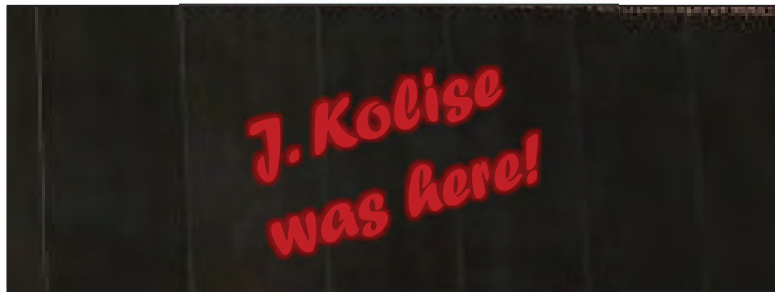


If every person who visited the Vietnam Memorial decided to take one name off as a souvenir, eventually there would be nothing left.

The same is true with archaeological sites. If everyone who visited a site took an arrowhead or bottle, eventually there would be nothing left that would give us information about the people who lived there. **OUR HERITAGE WOULD BE LOST!**



## What's Wrong with this Picture?

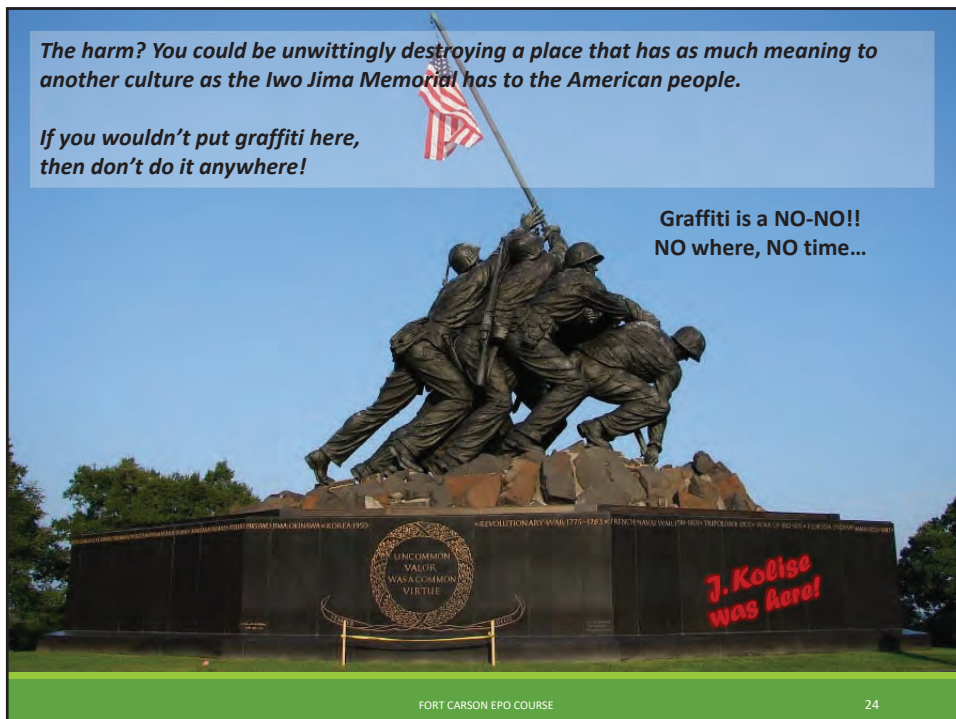


Seriously...where's the harm in leaving your legacy somewhere?

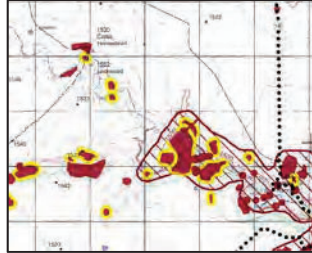
*The harm? You could be unwittingly destroying a place that has as much meaning to another culture as the Iwo Jima Memorial has to the American people.*

*If you wouldn't put graffiti here, then don't do it anywhere!*

**Graffiti is a NO-NO!!  
NO where, NO time...**



## Site Protection Measures



**Protected Resources JCR Map**

Red = unmarked restricted area  
 Red with yellow outline = marked restricted area  
 Red hash-marked area = dismantled training only  
 White line through restricted area = authorized travel corridor

**No digging or mounted maneuvers within protected areas**

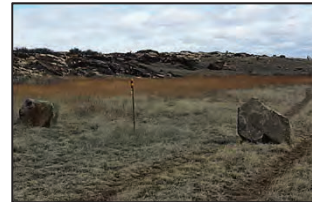


**Seibert Marker**

Red, yellow, and white 3M reflective tape  
 Black stripe points to inside of restricted area.



**Protection Fences with Restricted Access Signs**



**Seibert Markers and Boulders**

## Where Can You Learn More?

### **Integrated Cultural Resources Management Plan (ICRMP)**

- Fort Carson-specific tool for the management of cultural resources
  - Outlines program obligations, goals, priorities, and SOPs
- Chapter 7 contains the SOPs relevant to your job
  - SOP No. 1: Section 106 Compliance for Project Proponents
  - SOP No. 2: Mission Training of Military and Tenant Personnel
  - SOP No. 3: Emergency Operations
  - SOP No. 4: Inadvertent Discovery of Archaeological, Cultural, or Paleontological Materials
  - SOP No. 5A: Discovery of an Inadvertent Entry or Other Impact to a Protected Site by a Non-Professional Archaeologist
- Where can it be found?
  - <https://www.carson.army.mil/organizations/dpw.html#three>

## Main Points to Remember

---

- Cultural resources are non-renewable.
- Obey cultural resources laws and regulations
- Follow Fort Carson-specific guidance and SOPs outlined in the ICRMP
- No digging or mounted maneuvers within protected areas
- Use established travel corridors through protected areas
- Leave cultural resources as you found them
- Report any suspected looting, vandalism, site entries, etc., immediately to Range Operations and/or the CRM
- We are here to help you: 526-4484 (CRM) or 503-6136 (PCMS Archaeologist)

The Army is legally required to protect and manage cultural resources.

---

A. True

B. False

The Army is legally required to protect and manage cultural resources.

- A. True
- B. False

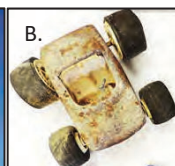


FORT CARSON EPO COURSE

29

Which of the following would be considered a cultural resource?

- A. Trail
- B. Toy
- C. Building
- D. Rock formation
- E. B & C only
- F. C & D only
- G. All of the above
- H. None of the above

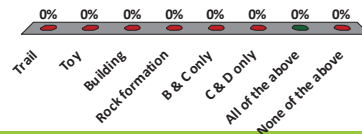
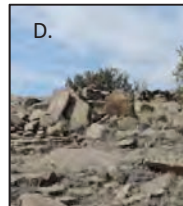
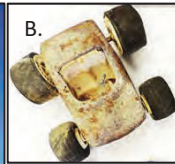


FORT CARSON EPO COURSE

30

Which of the following would be considered a cultural resource?

- A. Trail
- B. Toy
- C. Building
- D. Rock formation
- E. B & C only
- F. C & D only
- G. All of the above
- H. None of the above



FORT CARSON EPO COURSE

31

While digging a tank ditch, you find an arrowhead and other stone chips. What should you do first?

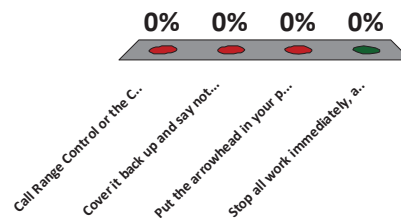
- A. Call Range Control or the CRM immediately.
- B. Cover it back up and say nothing.
- C. Put the arrowhead in your pocket. It would be a nice addition to your collection.
- D. Stop all work immediately, and place a buffer around the area.

FORT CARSON EPO COURSE

32

While digging a tank ditch, you find an arrowhead and other stone chips. What should you do first?

- A. Call Range Control or the CRM immediately.
- B. Cover it back up and say nothing.
- C. Put the arrowhead in your pocket. It would be a nice addition to your collection.
- D. Stop all work immediately, and place a buffer around the area.



FORT CARSON EPO COURSE

33

You cannot be prosecuted for unknowingly defacing an archaeological site on an Army installation.

- A. True
- B. False

FORT CARSON EPO COURSE

34



You cannot be prosecuted for unknowingly defacing an archaeological site on an Army installation.

---

- A. True
- B. False






# CULTURAL RESOURCES

## POTENTIAL HAZARDS AND ENVIRONMENTAL CONCERNS

Cultural resources are remnants of past human activities that have cultural or historical value and meaning to a group of people. A resource can be thousands of years old, hundreds of years old, or from the more recent past. Examples include: rock art and carvings; archaeological sites; historic buildings, structures or objects; historic roads and trails; Native American sacred sites and traditional cultural properties; human burials; artifacts; and ruins. As a land manager, it is our duty to be good stewards, ensuring compliance with all environmental and cultural requirements, laws, and regulations. Violation of cultural resources protection laws can result in civil and criminal penalties, monetary fines, and imprisonment.

## HANDLING PROCEDURES

☆	Coordinate land use with Range Control Operations to ensure you are in an approved area.	 <p>Pictured above are various cultural resources that have been recorded on Fort Carson and PCMS.</p>
☆	Observe posted signs, fencing, and Seibert marking that indicate restricted areas which may be off-limits to vehicles, digging, bivouacking, or other high impact activities.	
☆	Do not collect artifacts, including arrowheads and bottles. Do not disturb stone circles, rock mounds, ruins, or other cultural features. Do not touch or deface rock art, or scratch on rocks or objects of any kind.	
☆	Do not trespass in historic structures even when not marked.	  <p>Graffiti, as seen in the photograph above, can irreparably harm the integrity of a site. There is no way to remove the graffiti without doing further damage to the site. The yellow, red, and white Seibert markers indicate areas where vehicles, digging, or bivouacking are not allowed.</p>
☆	Report any signs of looting, graffiti, or other damage to a cultural site to Range Control Operations or Cultural Resources staff.	
☆	No graffiti anywhere, anytime.	
☆	If buried artifacts, bones, or other cultural items are found, stop work immediately, flag a protective buffer around the location of the discovery, and report the discovery to Range Control Operations or Cultural Resources staff.	

## GENERAL INFORMATION

For additional information concerning cultural resources, contact the Fort Carson Cultural Resources Manager at 526-4484 or the PCMS Archaeologist at 503-6136.

Range Control Operations: Fort Carson 526-5698 / PCMS 526-6123 or 6130

Reference: [Fort Carson Regulation 200-1](#).

Soldiers who have been designated to the Observer-Controller Team for a brigade exercise must go through special training. This brief covers environmental considerations, including cultural resources, and is usually provided by the Fort Carson Cultural Resources Manager. It is adapted for each specific brigade exercise.

# OPERATION ARETE OC TEAM BRIEF

## ENVIRONMENTAL CONSIDERATIONS

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## TOPICS

Protected Resources

Wildlife Guidance

Cultural Resources Guidance

Spill Response

OPERATION ARETE Dig Request Process

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## WHAT IS A PROTECTED RESOURCE?

- Not just protected archaeological sites (or cultural resources), but also...
- Protected natural resource area
- Critical infrastructure
- Human health and safety concern

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## CULTURAL RESOURCE EXAMPLES



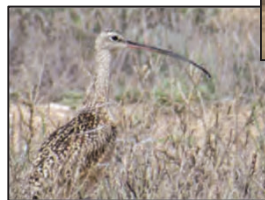
- Rock art, i.e. petroglyphs (carvings) and pictographs (paintings)
- Archaeological sites
- Historical buildings, structures, and objects
- Historical roads and trails
- Sacred sites and traditional cultural properties
- Human burials
- Artifacts
- Ruins

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## NATURAL RESOURCE EXAMPLES

- Migratory bird nesting sites
- Golden eagle nesting sites
- Critical habitat for threatened / endangered species



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## CRITICAL INFRASTRUCTURE EXAMPLES

- Windmills and associated wells & tanks
- Solar panels
- Pipelines
- Utility lines
- Erosion control dams



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## HUMAN HEALTH & SAFETY CONCERN EXAMPLES

- Contaminated areas
- Open pits / wells / mine shafts
- Steep drop offs



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## COMPLIANCE REQUIREMENTS FOR PROTECTED RESOURCES

- No vehicles allowed
- No excavation allowed
- No bivouacking allowed
- No aerial maneuvering allowed within 100 meters
- Travel allowed only on approved travel corridors through the area as shown on the map

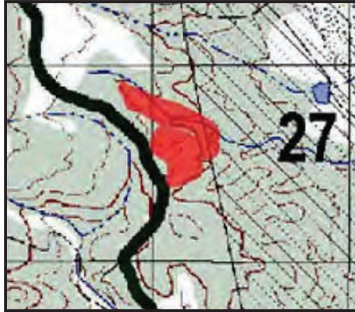
**Best Practice:** While operating a vehicle, implement a 30-meter stand-off distance from the perimeter of the protected resource as depicted on the map.

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## PROTECTED RESOURCES MAP SYMBOLS: UNMARKED PROTECTED RESOURCE



**Symbol:** Area polygon with red-filled interior

**Definition:** Protected resource that lacks marking or is partially marked (Seibert markers, protection fencing with signs, or combination of both)

**Caveats:** Ensure the entire red perimeter is avoided at all times by vehicles. **Do not simply rely on the observed Seibert markers and/or fencing.**

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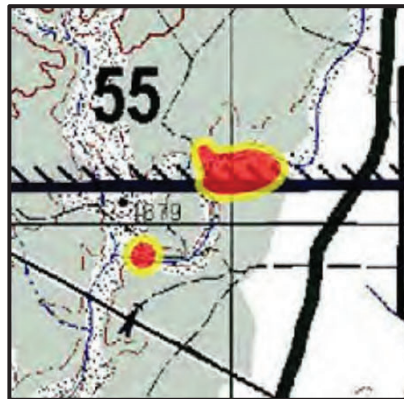


## PROTECTED RESOURCES MAP SYMBOLS: MARKED PROTECTED RESOURCE

**Symbol:** Area polygon with red-filled interior and yellow outline (halo)

**Definition:** Protected resource that is completely marked with Seibert markers, protection fencing with signs, or a combination of both

**Caveats:** Ensure the yellow outside perimeter is avoided at all times by vehicles. **Do not simply rely on the observed Seibert markers and/or fencing.**

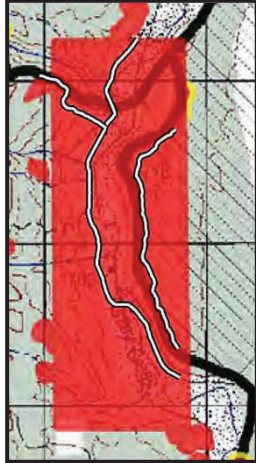


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## PROTECTED RESOURCES MAP SYMBOLS: AUTHORIZED TRAVEL CORRIDOR



**Symbol:** White line interior and black outline

**Definition:** Corridors approved for travel through protected resources

**Caveat:** No off-road travel allowed within the protected resource. **Stay on the approved, existing corridor only.**

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## PHYSICAL PROTECTION MEASURES



**Seibert Marker**

Red, yellow, and white 3M reflective tape  
Black stripe points to inside of restricted area.



**Protection Fences with Restricted Access Signs**



**Boulders**

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## INADVERTENT ENTRY / IMPACT

- Inform Range Operations **immediately** of any inadvertent entries into or other impacts to a protected resource.
- Note conditions and how / why the entry or impact occurred.
  - This information helps prevent future entries or impacts.

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## NATURAL RESOURCES GUIDANCE

Refer to Fort Carson Environmental Battle Book, v 5.1, DEC 2016

- Page 77, "Wildlife (Dangerous): Bears / Mountain Lions / Rattlesnakes / Coyotes"
- Page 78, "Wildlife (Migratory Birds): Songbirds / Raptors / Ravens / Etc."
- Page 79, "Wildlife (Problem Critters): Raccoons / Skunks / Rodents / Non-Venomous Snakes / Etc."
- Page 80, "Wildlife (Sensitive or T&E Species): Prairie Dogs / Burrowing Owls"

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## NATURAL RESOURCES GUIDANCE

- Military training activities are **not** exempt from the Migratory Bird Treaty Act, but are authorized for incidental take under the 50 CFR Part 21.
- Nesting birds should be avoided when possible.
- Avoid digging or bivouacking in prairie dog colonies due to potential plague exposure.
- Contact the Wildlife Biologists or Conservation Law Enforcement Officers for any wildlife issues (e.g. snake removal, injured animal, incidental take).

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## NATURAL RESOURCES GUIDANCE

- Do not crush or cut trees unnecessarily.



This tree was approximately 200 years old.  
 This was avoidable.



Stock tanks provide drinking water for wildlife.

- Do not run over stock tanks or guzzlers.

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## CULTURAL RESOURCES GUIDANCE

Refer to Fort Carson Environmental Battle Book, v 5.1, DEC 2016, page 31, "Cultural Resources" and Chapter 7 of the Integrated Cultural Resources Management Plan.

- Observe posted signs, fencing, and Seibert marking. No digging, bivouacking, mounted maneuvers, etc. within these areas.
- Do not collect artifacts.
- Do not disturb stone circles, rock mounds, ruins, or other cultural features.
- Do not touch or deface rock art.
- Do not trespass in historic structures (safety hazard).

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## CULTURAL RESOURCES GUIDANCE

- Report any signs of looting, graffiti, or other damage to Range Operations or Cultural Resources staff.
- No graffiti anywhere, anytime.



**You will not WRITE, PRINT, PAINT, STAMP, SCRATCH, PECK, OR CHALK ON ANY STONE SURFACES, BUILDINGS / STRUCTURES (HISTORIC OR MODERN), OR LATRINE WALLS!!!!**

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### IF YOU FIND ARTIFACTS, BONES, OR OTHER POSSIBLE CULTURAL ITEMS...

- Stop work immediately.
- Flag a protective buffer around the location of the discovery.
- Report the discovery to Range Operations.
- You will be notified when you can proceed.

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### SPILL RESPONSE

Refer to Fort Carson Environmental Battle Book, v 5.1, DEC 2016, page 67, "Spill Clean Up and Reporting Oil/Hazardous Substance."

- Spill cleanup is the unit's responsibility.
- General response procedures:
  - Do not put personnel at risk.
  - Contain and report to your unit. Report location to Range Operations.
  - Spills of 5 gallons or more must be reported to Range Operations immediately.
  - Range Operations will contact the Fire Dept. Do not call 911 at PCMS.
  - Most spills are cleaned up by removing the contaminated soils.
  - Recovered contaminated soils will be transported to the PCMS Cantonment for disposal.

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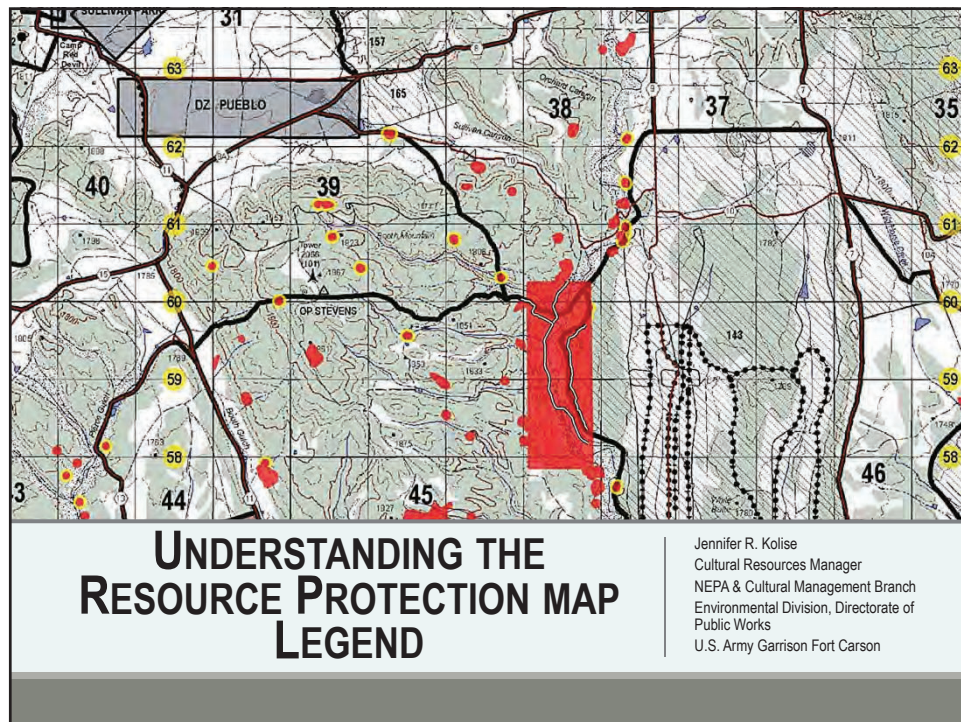
## OPERATION ARETE STRIKE DIG REQUEST PROCESS

- Unit submits dig request through chain of command to HICON (type of excavation, method, and MGRS coordinates).
- HICON reviews request (approves or denies).
- If approved, unit digs and provides dig locations through chain of command back to HICON.
- Accurate reporting of dig locations facilitates Cultural Resource staff inspection and future land remediation.

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## WHAT IS A PROTECTED RESOURCE?

- Protected natural resource area, such as critical habitat for a threatened & endangered species or a migratory bird nesting site
- Protected cultural resource area, such as archaeological sites, historic buildings, or burials
- Critical infrastructure
- Human health & safety concerns, such as radiation control areas, mine shafts, or steep cliffs



## NATURAL RESOURCE EXAMPLES

- Critical habitat for threatened & endangered species
- Golden eagle nesting sites
- Migratory bird nesting sites



## CULTURAL RESOURCE EXAMPLES



- Rock art, i.e. petroglyphs (carvings) and pictographs (paintings)
- Archaeological sites
- Historical buildings, structures, and objects
- Historical roads and trails
- Sacred sites and traditional cultural properties
- Human burials
- Artifacts
- Ruins

## CRITICAL INFRASTRUCTURE EXAMPLES

- Windmills and associated wells & tanks
- Solar panels
- Pipelines
- Utility lines



## HUMAN HEALTH & SAFETY CONCERN EXAMPLES

- Environmental contamination areas, e.g. radiation control areas & asbestos contaminated areas
- Open pits, wells, & mine shafts
- Steep drop offs



## COMPLIANCE REQUIREMENTS

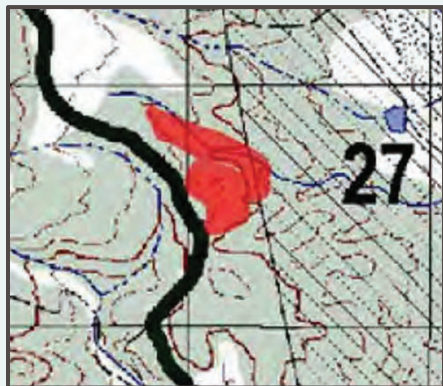
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- No vehicles allowed
- No excavation allowed
- No bivouacking allowed
- No aerial maneuvering allowed within 100 meters
- Travel allowed only on approved travel corridors through the area as shown on the map

**Best Practice:** While operating a vehicle, implement a 30-meter stand-off distance from the perimeter of the protected resource as depicted on the map.

## STANDARDIZED SYMBOL: UNMARKED RESOURCE

---



**Symbol:** Area polygon with red-filled interior

**Definition:** Protected resource that lacks marking or is partially marked (Seibert markers, protection fencing with signs, or combination of both)

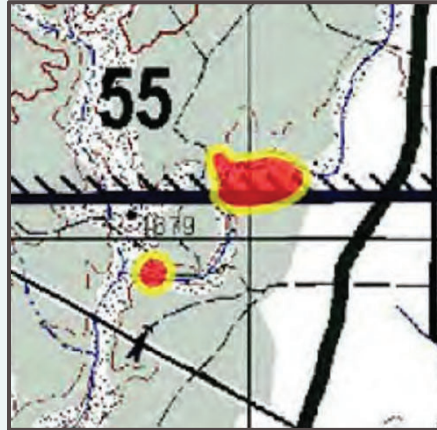
**Caveat:** Ensure the entire red perimeter is avoided at all times by vehicles. **Do not simply rely on the observed Seibert markers and/or fencing.**

## STANDARDIZED SYMBOL: MARKED RESOURCE

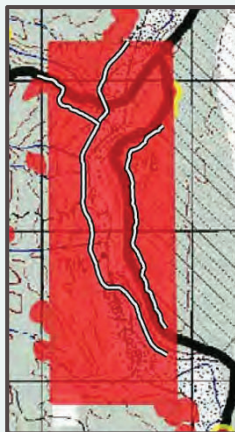
**Symbol:** Area polygon with red-filled interior and yellow outline (halo)

**Definition:** Protected resource that is properly marked with Seibert markers, protection fencing with signs, or a combination of both

**Caveat:** Ensure the yellow outside perimeter is avoided at all times by vehicles. **Do not simply rely on the observed Seibert markers and/or fencing.**



## STANDARDIZED SYMBOL: AUTHORIZED TRAVEL CORRIDOR THROUGH PROTECTED RESOURCE



**Symbol:** White line interior and black outline

**Definition:** Corridors approved for travel through protected resources

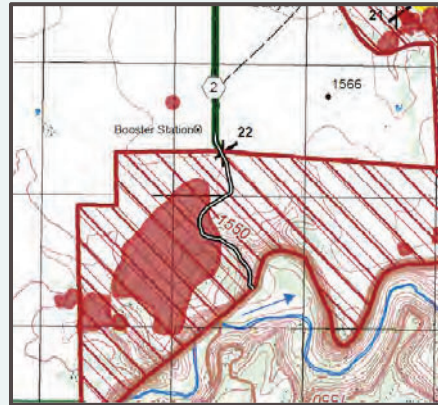
**Caveat:** No off-road travel allowed within protected resource. **Stay on the approved existing corridor only.**

## STANDARDIZED SYMBOL: DISMOUNTED ONLY AREAS

**Symbol:** Area polygon with red crosshatch

**Definition:** Dismounted only training area all vehicles must stay on approved roads no off-road vehicle travel is authorized

**Caveat:** These areas do not conform to topography.



## PHYSICAL PROTECTION MEASURES



**Seibert Marker**

Red, yellow, and white 3M reflective tape black stripe points to inside of restricted area.



**Protection Fences with Restricted Access Signs**



**Boulders**

# USAFA Cadet Survival Training

## ENVIRONMENTAL CONSIDERATIONS

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# TOPICS

Protected Resources

Wildlife Guidance

Cultural Resources Guidance

Spill Response

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# WHAT IS A PROTECTED RESOURCE?

- Not just protected archaeological sites (or cultural resources), but also...
- Protected natural resource area
- Critical infrastructure
- Human health and safety concern

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# CULTURAL RESOURCE EXAMPLES



- Rock art, i.e. petroglyphs (carvings) and pictographs (paintings)
- Archaeological sites
- Historical buildings, structures, and objects
- Historical roads and trails
- Sacred sites and traditional cultural properties
- Human burials
- Artifacts
- Ruins

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# NATURAL RESOURCE EXAMPLES

- Migratory bird nesting sites
- Golden eagle nesting sites
- Critical habitat for threatened / endangered species



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# CRITICAL INFRASTRUCTURE EXAMPLES

- Windmills and associated wells & tanks
- Solar panels
- Pipelines
- Utility lines
- Erosion control dams





# HUMAN HEALTH & SAFETY CONCERN EXAMPLES

- Contaminated areas
- Open pits / wells / mine shafts
- Steep drop offs



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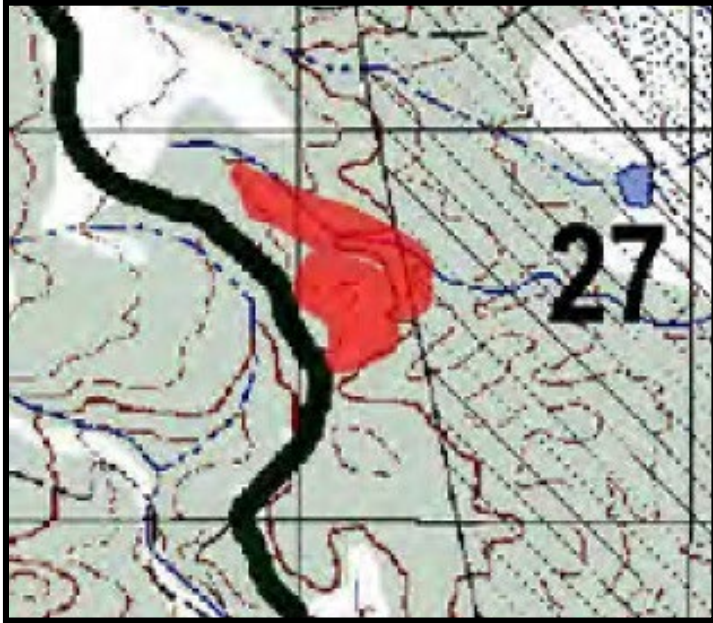
# COMPLIANCE REQUIREMENTS FOR PROTECTED RESOURCES

- No vehicles allowed
- No excavation allowed
- No bivouacking allowed
- No aerial maneuvering allowed within 100 meters
- Travel allowed only on approved travel corridors through the area as shown on the map

**Best Practice:** While operating a vehicle, implement a 30-meter stand-off distance from the perimeter of the protected resource as depicted on the map.



# PROTECTED RESOURCES MAP SYMBOLS: UNMARKED PROTECTED RESOURCE



**Symbol:** Area polygon with red-filled interior

**Definition:** Protected resource that lacks marking or is partially marked (Seibert markers, protection fencing with signs, or combination of both

**Caveats:** Ensure the entire red perimeter is avoided at all times by vehicles. **Do not simply rely on the observed Seibert markers and/or fencing.**



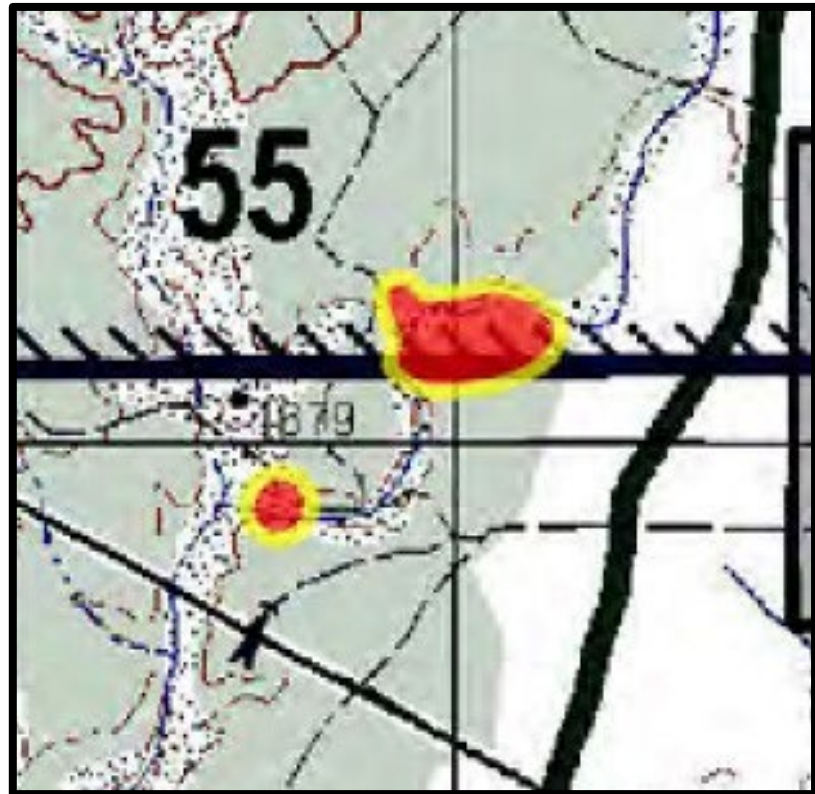


# PROTECTED RESOURCES MAP SYMBOLS: MARKED PROTECTED RESOURCE

**Symbol:** Area polygon with red-filled interior and yellow outline (halo)

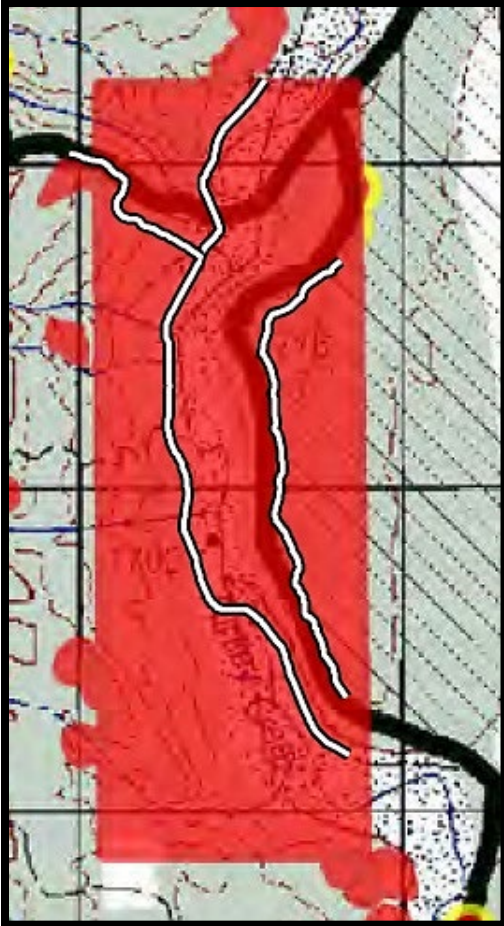
**Definition:** Protected resource that is completely marked with Seibert markers, protection fencing with signs, or a combination of both

**Caveats:** Ensure the yellow outside perimeter is avoided at all times by vehicles. **Do not simply rely on the observed Seibert markers and/or fencing.**





# PROTECTED RESOURCES MAP SYMBOLS: AUTHORIZED TRAVEL CORRIDOR



**Symbol:** White line interior and black outline

**Definition:** Corridors approved for travel through protected resources

**Caveat:** No off-road travel allowed within the protected resource. **Stay on the approved, existing corridor only.**



# PHYSICAL PROTECTION MEASURES



**Seibert Marker**

Red, yellow, and white 3M reflective tape  
Black stripe points to inside of restricted area.



**Protection Fences with Restricted Access Signs**



**Boulders**

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# INADVERTENT ENTRY / IMPACT

- Inform Range Operations **immediately** of any inadvertent entries into or other impacts to a protected resource.
- Note conditions and how / why the entry or impact occurred.
  - This information helps prevent future entries or impacts.

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# NATURAL RESOURCES GUIDANCE

Refer to Fort Carson Environmental Battle Book, v 6.1, 2018

- Page 80, “Wildlife (Dangerous): Bears / Mountain Lions / Rattlesnakes / Coyotes”
- Page 81, “Wildlife (Migratory Birds): Songbirds / Raptors / Ravens / Etc.”
- Page 82, “Wildlife (Problem Critters): Raccoons / Skunks / Rodents / Non-Venomous Snakes / Etc.”
- Page 83, “ Wildlife (Sensitive or T&E Species): Prairie Dogs / Burrowing Owls”





# NATURAL RESOURCES GUIDANCE

- Military training activities are **not** exempt from the Migratory Bird Treaty Act, but are authorized for incidental take under 50 CFR Part 21.
- Nesting birds should be avoided when possible.
- Avoid digging or bivouacking in prairie dog colonies due to potential plague exposure.
- Contact the Wildlife Biologists or Conservation Law Enforcement Officers for any wildlife issues (e.g. snake removal, injured animal, incidental take).



# NATURAL RESOURCES GUIDANCE

- Do not crush or cut trees unnecessarily.



**This tree was approximately 200 years old.  
This was avoidable.**



**Stock tanks provide drinking water for wildlife.**

- Do not run over stock tanks or guzzlers.



# CULTURAL RESOURCES GUIDANCE

Refer to Fort Carson Environmental Battle Book, v 6.1, 2018, page 31, “Cultural Resources” and Chapter 7 of the Integrated Cultural Resources Management Plan.

- Observe posted signs, fencing, and Seibert marking. No digging, bivouacking, mounted maneuvers, etc. within these areas.
- Do not collect artifacts.
- Do not disturb stone circles, rock mounds, ruins, or other cultural features.
- Do not touch or deface rock art.
- Do not trespass in historic structures (safety hazard).





# CULTURAL RESOURCES GUIDANCE

- Report any signs of looting, graffiti, or other damage to Range Operations or Cultural Resources staff.
- No graffiti anywhere, anytime.



**You will not WRITE, PRINT, PAINT, STAMP, SCRATCH, PECK, OR CHALK ON ANY STONE SURFACES, BUILDINGS / STRUCTURES (HISTORIC OR MODERN), OR LATRINE WALLS!!!!**

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# IF YOU FIND ARTIFACTS, BONES, OR OTHER POSSIBLE CULTURAL ITEMS...

- Stop work immediately.
- Flag a protective buffer around the location of the discovery.
- Report the discovery to Range Operations & Cultural Resources Manager and/or PCMS Archaeologists.
- You will be notified by the Cultural Resources Manager or PCMS Archaeologists when you can proceed.

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# SPILL RESPONSE

Refer to Fort Carson Environmental Battle Book, v 6.1, 2018, page 68, “Spill Clean Up and Reporting Oil/Hazardous Substance.”

- Spill cleanup is the unit’s responsibility.
- General response procedures:
  - Do not put personnel at risk.
  - Contain and report to your unit. Report location to Range Operations.
  - Spills of 5 gallons or more must be reported to Range Operations immediately.
  - Range Operations will contact the Fire Dept. Do not call 911 at PCMS.
  - Most spills are cleaned up by removing the contaminated soils.
  - Recovered contaminated soils will be transported to the PCMS Cantonment for disposal.



# CITED RESOURCES

Environmental Battle Book, v 6.1, 2018

<https://home.army.mil/carson/application/files/4116/4976/7771/environmental-battlebook.pdf>

Integrated Cultural Resources Management Plan

<https://home.army.mil/carson/application/files/3716/4934/6831/2017-2021-icrmp.pdf>

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