

**SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS****[TABS FINAL DRAFT]****SCENARIO #661****TITLE: USA-0224RV2 REALIGN FT HOOD, TEXAS**

**GENERAL DESCRIPTION:** Realign Fort Hood, Texas by relocating a Brigade Combat Team (BCT) and Unit of Employment (UEX) Headquarters to Fort Carson, Colorado.

**Notes:**

- 1). Fort Carson gains approximately 4,300 personnel (not including dependents) moving from Fort Hood and requires approximately 1,180,000 SF of MilCon.
- 2) Fort Hood loses 4,164 personnel.

**ANALYST****LAST UPDATE: 21 APRIL 2005**

<b>Env Resource Area</b>	<b><i>Gaining</i> Installation Assessment Inst Name: <u>Ft Carson</u></b>	<b>Analyst Comments (&amp; data source(s) that drive assessment)</b>
<b>Air Quality</b>	Impact expected. The receiving installation is in Maintenance for CO, and in Attainment for all other NAAQS. Addition of operations at the receiving installation will require New Source Review permitting and modifications to existing Title V permit. A more detailed emission analysis will be required to determine regulatory impact. Air quality issues currently restrict operations, and additional operations with air emissions may also be restricted.	#213 - Maintenance for CO #211 - No permit limits reported, Major Source thresholds currently exceeded for VOC, NOx, CO, and PM10. #220 - Major & Synthetic Minor operating permits. #218 - Colorado Air Quality Control Commission regulation restricts certain types of smoke/obscurant training ISR2 - AQM adversely impacts mission.
<b>Cultural/Archeological/Tribal Resources</b>	669 arch/cultural resources listed, with restrictions to mechanized vehicle traffic affecting less than 1% of Pinon Canyon. 40 historic properties listed. 13 Native tribes assert an interest in archeological sites. A potential impact may occur as a result of increased time delays and negotiated restrictions due interest from Native American tribes. Additional operations may impact cultural, archeological, or historic resources, which may lead to further restrictions.	#230, 231,232 - 669 cult/arch/Native People's sites, but no restrictions at Ft Carson reported (<1% of Pinon Canyon is restricted from mech vehicle traffic) #233, 57% surveyed; #234 - 13 tribes assert interest in sacred sites; #235- 40 historic props; #236 - Has programmatic agreement; ISR2 - no adverse impact to mission.
<b>Dredging</b>	No Impact.	#226, 227, 228 – N/A
<b>Land Use Constraints/Sensitive Resource Areas</b>	No Impact	Buildable Acres - 1247 buildable acres available; 214 req'd (based on 1 Hvy Bde), #201, 254, #256- no restr. CERL Study – moderate encroachment projected
<b>Marine Mammals/Marine Resources</b>	No Impact.	#248, 249, 250, 252, 253 – N/A
<b>Noise</b>	15,686 acres of Noise Zone 2 and 2322 acres of Zone 3 extend off-installation, which is moderately encroached by development. Further evaluation required.	#239 - 15,686 acres of Noise Zone 2 and 2322 acres of Zone 3 extend off-installation.

Threatened & Endangered Species/Critical Habitat	<p>Installation has Federally listed species (Bald Eagle, Greenback Cutthroat Trout, &amp; Mexican Spotted Owl), that restricts operations on &lt;1% of installation land. Spotted Owl affects off-road vehicle use and bivouacs within 200-meters of known winter roost trees, in effect from 15 November-28 February, and includes 38 trees for a total of 1,178-acres. The Greenback Cutthroat Trout affects approx 15-acres with no training zone.</p> <p>Additional operations may further impact threatened / endangered species leading to additional restrictions on training or operations.</p>	<p>#259, 261 lists Bald Eagle,, Cutthroat Trout, Spotted Owl with restrictions to &lt;1% of land.          #261,262,264 - No habitat          #263 - Candidate species include Arkansas Darter &amp; Black-tailed prairie dog - no restr          ISR2 shows no impact.</p>
Waste Management	No Impact	#269 Has RCRA Subpart X Permit
Water Resources	<p>Potential Impact. Special restrictions or procedures are in place to significantly limit the production of or distribution of potable water to the installation. Increased missions at the installation may result in additional restrictions or mitigation requirements (e.g., purchase/development of additional water resources). Water infrastructure may require upgrade. Water quality is impaired by pollutant loadings, and current operations may contribute to impaired water quality. Significant mitigation measures to limit releases may be required to reduce impacts to water quality and achieve US EPA water quality standards.</p>	<p>#276 - Not over recharge zone          #278 - McCarren amendment applies          #293 - No historical restrictions          #824, 825 - adequate water available          IREM - infr can support 1159 more people          #279 - Discharges to 2 impaired waterways (but does not impair them).          #822 - Dom &amp; Ind ww treatment plant          #291 - Has 1 off-installation public owned water production plant          #297-1 On Military Installation Govt Owned Plant for sewage treatment          #282 1 On Military Installation Govt Owned Plant for industrial wastewater</p>
Wetlands	No Impact	<p>#251 - surveyed 11/92          #257 - 1.6% wetlands, with restrictions (to tracked vehicles in wetlands).</p>

**SUBJECT: SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS (CONTINUED);**

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Env Resource Area	#1 Losing Installation Assessment Inst Name: Ft Hood	Analyst Comments (& data source(s) that drive assessment)
Air Quality	No impact	Reduction in personnel is considered as neutral or positive impact to all environmental areas.
Cultural/ Archeological Resources	No impact	
Dredging	No impact	
Land Use Constraints/Sensitive Resource Areas	No impact	
Marine Mammals/ Marine Resources / Marine Sanctuaries	No impact	
Noise	No impact	
Threatened & Endangered Species/ Critical Habitats	No impact	
Waste Management	No impact	
Water Resources	No impact	
Wetlands	No impact	

**SUBJECT: SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS (CONTINUED)**

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***IMPACTS OF COSTS***

Env Resource Area	Gaining Installation Inst Name: <b>Ft Carson</b>	Losing Installation Inst Name: <b>Ft Hood</b>
Environmental Restoration*	None.	None. Installation is not closing.
Waste Management	None.	None.
Environmental Compliance	<ul style="list-style-type: none"> <li>-Re-alignment NEPA at gaining base- (EIS) - \$1M</li> <li>-New Source Review permitting -\$100K-\$500K</li> <li>-Evaluation to determine if archeological/tribal site(s) are significant \$15K-\$40K per site.</li> <li>-Evaluation to determine if historic buildings/structures are significant - \$1K-\$2K per building depending on size and location.</li> <li>-Conduct Tribal govt to govt consultation - \$2K-\$10K per meeting.</li> <li>-Mitigation of archeological site by data recovery IAW PA - \$25K-\$500K per site depending on complexity</li> <li>-Mitigation of historic buildings/structures by HABS/HAER recordation IAW PA - \$25K-\$500K per site depending on complexity</li> <li>-Noise analysis and monitoring -\$5K-\$75K</li> <li>-Install Best Mgt Practices to protect impaired waterways and reduce non-point source runoff from training areas and ranges - \$100K - \$3M.</li> <li>-Endangered Species Planning level survey - \$20K-\$100K/2-6 months</li> <li>-Endangered Species Management (includes monitoring) \$20K-\$2M</li> </ul>	None.
<b>COBRA Costs:</b>	<ul style="list-style-type: none"> <li>NEPA (EIS) - \$1M</li> <li>New Source Review -\$100K</li> <li>Noise analysis -\$20K</li> </ul>	None.