

SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS**[TABS FINAL VERSION]****SCENARIO #**HSA-0092R **TITLE:** HSA-0092R CONSOLIDATE/CO-LOCATE IMAs AND ASPs**General Description:**

- *Realign the Crystal City, VA leased site by relocating the Installation Management Agency HQs, the NETCOM HQs, and the HR XXI Office to Ft. Sam Houston, TX*
- *Realign the Bailey's Crossroads, VA leased site by relocating the Army Contracting Agency HQs and the Community and Family Support Center to Ft. Sam Houston, TX and by relocating the Army Center for Substance Abuse to Ft. Knox.*
- *Realign the Rosslyn, VA leased site by relocating the Army Family Liaison Office to Ft. Sam Houston, TX.*
- *Realign the Hoffman Building, VA lease site by relocating the Army Contracting Agency E-Commerce Region HQs to Ft. Sam Houston, TX.*
- *Army Environmental Center from Aberdeen Proving Grounds to Fort Sam Houston*
- *Realign Rock Island Arsenal by relocating the IMA Northwest Region HQs and the NETCOM Northwest Region HQs to Ft. Sam Houston, TX.*
- *Realign Ft. Buchanan, PR by relocating the ACA Southern Hemisphere Region HQs to Ft. Sam Houston, TX.*
- *Moves HQS AMC from Ft Belvoir to Redstone Arsenal.*

Proposal Affects the following Army installations:

1. Ft Sam Houston gains approximately 1000 personnel and approximately 23,000 SF MilCon
2. Ft. Knox gains approximately under 100 personnel and approximately 1,000 SF MilCon.
3. Redstone gains approximately 1300 personnel and approximately 493,000 SF MilCon.
4. Rock Island Arsenal, Aberdeen Proving Grounds, Belvoir and Fort Buchanan are realigned.
5. Crystal City Complex, Bailey's Crossroads, Hoffman Complex, and Rosslyn Complex leased sites are realigned.

ANALYST: _____**LAST UPDATE:** 4/27/05

Env Resource Area	#1 Gaining Installation Assessment Inst Name: Ft Sam Houston	Analyst Comments (& data source(s) that drive assessment)
Air Quality	Impact Expected. Ft Sam Houston is Attainment area for all NAAQS, but operating permit for VOCs is projected to be exceeded. New Source Review permitting required.	#213 – in attainment for all NAAQS. #211 - Permit threshold for VOCs projected to be exceeded. - (based on 7% increase of Ft McPherson emissions) #220 - Minor Operating Permit (natural minor) #218/ISR - No mission impact indicated.
Cultural/Archeological/Tribal Resources	344 Archeological sites and 895 historic properties listed, with no restrictions on operations and/or training. 4 non-local tribes assert interest in archeological/sacred sites. Due to interest from Native American tribes, a potential impact may occur as a result of increased time delays and negotiated restrictions. Also resources must be evaluated on a case-by-case basis, thereby causing increased delays and costs since there is no Programmatic Agreement in place.	#230 – 344 Archeological sites w/ no restrictions (Camp Bullis); #232 high potential for arch sites; #231 - No Native peoples sites; #233, 80% surveyed; #234 - 4 non-local tribes assert interest, in formal consultation #235- 895 historic properties #236 - No programmatic agreement ISR2 - No adverse impact to mission.
Dredging	No Impact.	#226, 227, 228 – N/A

Land Use Constraints/Sensitive Resource Areas	No Impact.	#30 - Buildable Acres – 1,176 acres available, approximately 7 req'd based on 1 small administrative organization #201, 254, 256 - no restr. CERL Study – high encroachment projected
Marine Mammals/Marine Resources	No Impact.	#248, 249, 250, 252, 253 – N/A
Noise	No Impact.	#239 - No noise contours extend off-installation.
Threatened & Endangered Species/Critical Habitat	<p>5 Threatened Species exist on installation: Golden Checked warbler, Black-capped vireo, Madla's cave meshweaver, Rhadine exilis, Rhadine infernalis. Restrictions preclude noise and smoke within 100 meters of Golden Checked warbler and Black-capped vireo, and 100 meter restrictions around cave openings for Madla's cave meshweaver, Rhadine exilis, and Rhadine infernalis.</p> <p>Additional operations may further impact threatened / endangered species leading to additional restrictions on training or operations.</p>	<p>#259 - 5 Threatened Species, with impact to range areas. Species listed are Golden Checked warbler, Black-capped vireo, Madla's cave meshweaver, Rhadine exilis, Rhadine infernalis.</p> <p>#260 No critical habitat</p> <p>#261- 3 Bio opinions; 1 imposes restrictions on water pumped from Edwards aquifer</p> <p>264 - No habitat restrictions, no proposed critical habitat</p> <p>#263 – No candidate species; ISR2 shows no impact.</p>
Waste Management	No impact.	#269 – Has RCRA Subpart X OB/OD Permit #265- Has RCRA (TSD) facility #272 – Not a permitted solid waste disposal facility
Water Resources	<p>Installation is located over or in the recharge zone of sole-source aquifer, which may result in future regulatory limitations on training activities.</p> <p>Water quality is impaired by pollutant loadings. 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- Located over recharge zone of sole-source aquifer</p> <p>#278 – Not subject to McCarren Amdmt</p> <p>#293 – Water use restrictions have been reported (2000, 2002) - water conservation</p> <p>#824/825 indicates adequate water avail</p> <p>IREM – potable water infr. can support approx 143,000 more people</p> <p>#279 - Does discharge to imp waterway, but doesn't impair the waterway.</p> <p>#291 –3 on-installation water production plants</p> <p>#297 – 2 on site dom ww treatment plants; 1 off-installation public-owned plant.</p> <p>#282 – No industrial wastewater trmt plant</p>
Wetlands	No Impact.	#251 - Survey dated 9/1999 #257 – 1% of installation has restricted wetlands

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Env Resource Area	#2 <i>Gaining</i> Installation Assessment Inst Name: Ft Knox	Analyst Comments (& data source(s) that drive assessment)
Air Quality	No impact. Installation is in attainment area for all criteria pollutants.	#213 – Installation is in attainment area for all criteria pollutants. #211 - No major source thresholds projected to be exceeded #220 -Major operating permit (but no permit limits shown on #211) #218/ISR2 - No mission impact indicated.
Cultural/Archeological/Tribal Resources	194 historic properties listed. 1 Native American tribe has asserted an interest in archeological sites. Due to interest from Native American tribes, a potential impact may occur as a result of increased time delays and negotiated restrictions. Also resources must be evaluated on a case-by-case basis, thereby causing increased delays and costs since there is no Programmatic Agreement in place. Likely no impact. Sufficient buildable acres exist to accommodate new construction while avoiding historic resources.	#230-232 - No arch resources and not a high potential for archeological sites; no restrictions #233 - 32% surveyed; #234 - 1 tribe (Cherokee) asserts interest #235- 194 historic props #236 - No Programmatic Agreement ISR2 - No adverse impact to mission
Dredging	No impacts	#226, 227, 228 – N/A
Land Use Constraints/Sensitive Resource Areas	No impacts.	#30 - Buildable Acres – 1321 acres available; minimal required #201, 254- no restrictions. #256 - 1 SRA, restricts development on 1.3% of inst CERL Study – moderate encroachment projected
Marine Mammals/Marine Resources/Marine	No impacts	#248, 249, 250, 252, 253 – N/A
Noise	No impact	#239 – 11,647 acres of Noise Zone 2 and 691 acres of Noise Zone 3 that extend off the installation, which is moderately encroached by development. ISR2- no restr
Threatened& Endangered Species/Critical Habitat	Three TES exist on main installation (Bald Eagle, Indiana Bat, Grey Bat), with no restrictions to operations. Additional operations may impact threatened / endangered species possibly leading to restrictions on training or operations	#259 – Three TES identified on main installation (Bald Eagle, Indiana Bat, Grey Bat), w/ no restr. #260-264 - No habitat/candidate species ISR2 shows no impact.

<p>Waste Management</p>	<p>No impacts</p>	<p>Q#269 – Installation does not have RCRA Subpart X permit 265- has RCRA TSD Facility 272 – has SWDF, 39% filled</p>
<p>Water Resources</p>	<p>Installation / range is located over the recharge zone of a sole-source aquifer, which may result in future regulatory limitations on training activities.</p>	<p>#276 – over sole source aquifer #278, 279, 293 – No water restr IREM - infr can support 65K more people #291 –2 on-installation govt owned production plants #297 – 1 on-installation dom ww treatment plt #282 – no industrial ww treatment plts</p>
<p>Wetlands</p>	<p>No impacts</p>	<p>#251 - Survey dated 11/1994 #257 - Wetlands restrict less than 3% of the range and less than 3% of the main installation.</p>

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Env Resource Area	#3 <i>Gaining</i> Installation Assessment Inst Name: Redstone	Analyst Comments (& data source(s) that drive assessment)
Air Quality	In attainment for all NAAQS. No impact.	Q213 – Attainment for all Criteria Pollutants. #211 - No permit thresholds projected to be exceeded, (based on 6% of Ft Belvoir emissions) Q220 – Has a Major Title V Permit. Q218 – No restr
Cultural/Archeological/Tribal Resources	336 archeological/tribal/burial/sacred sites identified, some of which restrict training and testing with a limitation to foot traffic and light vehicles. 6 historic properties. No mission operations constraints due to resources. About 20 Native American Tribes have asserted interest. Due to interest from Native American tribes, a potential impact may occur as a result of increased time delays and negotiated restrictions. Also resources must be evaluated on a case-by-case basis, thereby causing increased delays and costs since there is no Programmatic Agreement in place.	Q230/231/233- 96% surveyed with many archeological/tribal sites Q235 - 6 historic properties Q201 – No mission operations constraints. Q234 –About 20 Native American Tribes have asserted interest in installation/archeological sites. Q236 – No Programmatic Agreement. 232- No areas with high potential for archaeological resources identified.
Dredging	No Impact	
Land Use Constraints/Sensitive Resource Areas	No Impact.	Buildable Acres – approximately 108 req'd, (based on 2.5X Large Admin Org) approx 3229 acres available. Q 201, 254, 256 – No restrictions/coordination required. CERL - moderate encroachment
Marine Mammals/Marine	No Impact	
Noise	No impact.	#239 693 acres of Zone 3 and 4339 acres of Zone 2 extend off-installation which is moderately encroached by development

Threatened & Endangered Species/Critical Habitat	<p>Federally listed species restrict <0.7% of land. Restrictions include: 1. Prices potato bean (<i>Apios priceano</i>) - vehicle use is restricted to existing roads. Utilities maintenance in this area must be monitored by Environmental Office; 2. Bald Eagle (<i>Haliaeetus leucocephalus</i>); 3. Indiana Bat (<i>Myotis sodalis</i>); 4. Gray Bat (<i>Myotis grisescens</i>); 5. Alabama Cave Shrimp (<i>Palaemonias alabamae</i>) - Area immediately surrounding Bobcat Cave is closed to vehicles; 6. American Alligator (<i>Alligator mississippiensis</i>).</p> <p>TES currently restrict operations. Additional operations may further impact TES, leading to additional restrictions on operations.</p>	<p>Q259 - lists 6 species with restrictions for two species –for the potato bean, 0.3% land restricted; for cave shrimp, 0.4% land restricted.</p> <p>Q260, 261, 262 - No critical habitat restrictions. No candidate species. No Biological Opinion.</p>
Waste Management	No Impact.	<p>Q269 – has RCRA Subpart X Permit. 265-has RCRA TSD Facility 272-has SWDF, 25% filled</p>
Water Resources	No impact	<p>#276 Not over a recharge zone 278-McCarren amendment does not apply 291-1 On Military Installation Govt Owned Plant for potable water #293 – No previous restrictions. IREM indicates installation can support 15,699 additional personnel #279 Does not discharge into impaired waterway. 282 - none 297- 1 On Military Installation Govt Owned Plant for sewage treatment ISR - No impact to mission</p>
Wetlands	No impact. Wetlands already restrict operations. Additional operations may impact wetlands, which may lead to operations that are restricted.	<p>#251-survey completed 03/02 #257 – Jurisdictional wetlands present. Restriction -Permit required for dredge and fill operations. Installation is 25% restricted</p>

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Env Resource Area	<i>#1 Losing Installation Assessment</i> Inst Name: Ft Buchanan, Ft Belvoir, Rock Island Arsenal, Aberdeen Proving Grounds	Analyst Comments (& data source(s) that drive assessment)
Air Quality	No impact	Impact to losing installation is considered neutral or positive to all 10 environmental resource areas.
Cultural/ Archeological Resources	No impact	
Drainage	No impact	
Land Use Constraints/Sensitive Resource Areas	No impact	
Marine Mammals/Marine Resources	No impact	
Noise	No impact	
Threatened & Endangered Species/Critical Habitat	No impact	
Waste Management	No impact	
Water Resources	No impact	
Wetlands	No impact	

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Env Resource Area	<p>#2 Losing Installation Assessment Inst Name: Crystal City Complex, Bailey's Crossroads, Hoffman Complex, & Rosslyn Complex</p>	<p>Analyst Comments (& data source(s) that drive assessment)</p>
Air Quality	No impact	Relocation of personnel away from leased sites has no environmental impact since bldg/facility owner is responsible for environmental compliance and impacts.
Cultural/ Archeological Resources	No impact	
Drainage	No impact	
Land Use Constraints/Sensitive Resource Areas	No impact	
Marine Mammals/Marine Resources	No impact	
Noise	No impact	
Threatened & Endangered Species/Critical Habitat	No impact	
Waste Management	No impact	
Water Resources	No impact	
Wetlands	No impact	

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IMPACTS OF COSTS

Env Resource Area	Gaining Installation Inst Name: Ft. Sam Houston, Ft. Knox	Losing Installation INST NAME: Ft Buchanan, Rock Island Arsenal, Ft Belvoir, Aberdeen Proving Grounds, Crystal City Complex, Bailey's Crossroads, Hoffman Complex, & Rosslyn Complex
Environmental Restoration*	None	None.
Waste Management	None	None.
Environmental Compliance	<p><u>Ft. Sam Houston:</u> -New Source Review and Permitting -\$100K-\$500K -Endangered Species Management (includes monitoring) \$20K-\$2M -Realignment NEPA at gaining base -\$400K (EA) based on moving >1000 pers -Install Best Mgt Practices to protect impaired waterways and reduce non-point source runoff from training areas and ranges - \$100K - \$3M. -Develop Programmatic Agreement (PA) -\$10K -Conduct Tribal govt to govt consultations - \$2K-\$10K per meeting.</p> <p><u>Ft Knox:</u> -Endangered Species Management (includes monitoring) \$20K-\$2M -NEPA (EA) based on moving <1000 pers - \$100K</p> <p><u>Redstone:</u> -Endangered Species Management (includes monitoring) \$20K-\$2M -NEPA (EA) - \$400K based on moving >1000 pers. -Develop Programmatic Agreement (PA) -\$10K -Conduct Tribal govt to govt consultations - \$2K-\$10K per meeting.</p>	None.
COBRA Costs:	<p><u>Ft. Sam Houston:</u> -New Source Review and Permitting -\$100K - NEPA (EA) - \$400K</p> <p><u>Ft Knox:</u> -NEPA (EA) - \$100K</p> <p><u>Redstone:</u> - NEPA (EA) - \$400K</p>	None.