

**Supplemental Draft Environmental Impact Statement for
Military Training Activities at Mākua Military Reservation, Hawai'i**

October 8, 2008 - Aunty Sally's Kaleohano's Luau Hale, Hilo, HI

Attendance Sign-In Sheet

	Name	Organization	Address	Phone
14	Robert Nishimoto	U.S. Senator Iruye		
15	Leah Gouker	self		
16	Kathleen Sato			
17	Ka'iawa Haili Hawai'i			
18	Nickie Chang-Cooker HI			
19	Cory Handen	SIEMMA CLUB		
20	Sharon Cochran	Ahimsa Hemakua		
21	Galen Kelly	Mala'Alua		
22	Bruce Arslan	Self		
23	Pueo McGuire	Self		
24				
25				
26				
27				
28				
29				

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Attendance Sign-In Sheet

	Name	Organization	Address	Phone
30	Teke Kaiw,	self		
31	Roy Akau	self		
32	Kimberly Duarte	self		
33				
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PUBLIC COMMENT SIGN-IN SHEET

Supplemental Draft Environmental Impact Statement for
Military Training Activities at Mākua Military Reservation, Hawai'i

October 9, 2008 - Waimea Community Center, Kamuela (Kona), HI

The Open Mic session of today's meeting will begin promptly at 7:00PM. Following the opening Pule, welcome remarks will be made by Ku'umeaaloha and Colonel Margotta.

Commentors will be called by sequentially: If time allows, Standby commentors will be called in the order he/she signed in, beginning with the first Standby commentor.

You may sign up for one spot only

- | | |
|-----------------------------------|------------------|
| 1. <u>H.S. Lovett</u> | 16. _____ |
| 2. <u>Reynolds N. Kandauniole</u> | 17. _____ |
| 3. <u>SHANNON RUDOLPH</u> | 18. _____ |
| 4. _____ | 19. _____ |
| 5. _____ | 20. _____ |
| 6. _____ | 21. _____ |
| 7. _____ | 22. _____ |
| 8. _____ | 23. _____ |
| 9. _____ | 24. _____ |
| 10. _____ | 25. _____ |
| 11. _____ | Standby 1. _____ |
| 12. _____ | Standby 2. _____ |
| 13. _____ | Standby 3. _____ |
| 14. _____ | Standby 4. _____ |
| 15. _____ | Standby 5. _____ |



DEPARTMENT OF THE ARMY
US ARMY INSTALLATION MANAGEMENT COMMAND, PACIFIC REGION
HEADQUARTERS, UNITED STATES ARMY GARRISON, HAWAII
851 WRIGHT AVENUE, WHEELER ARMY AIRFIELD
SCHOFIELD BARRACKS, HAWAII 96857-5000

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Military Training Activities at Mākua Military Reservation, Hawai'i

October 9, 2008 - Waimea Community Center, Kamuela, HI

Attendance Sign-In Sheet

	Name	Organization	Address	Phone
1	EDDIE AKANA	HSCD	[REDACTED]	
2	DJ BALGAS SR.			
3	H.S. Lovell			
4	Rochelle Ribbent			
5	Kali Kamakuniole			
6	Reynolds Kamakuniole			
7	SHANNON RUDOLPH			
8	Betty Henrickson			
9	Mr. Henricksen			
10				
11				
12				
13				

Please fold in thirds, staple and affix postage.

U.S. Army Garrison, Hawaii
ATTN: Public Affairs Office, U.S. Army Garrison-Hawaii
742 Santos Dumont, WAAF
Schofield Barracks, HI 96857

**Table ES-5
Summary of Potential Impacts**

Impact Issues	No Action Alternative	Alternative 1 MMR (Reduced Capacity Use with Some Weapons Restrictions)	Alternative 2 MMR (Full Capacity Use with Some Weapons Restrictions)	Alternative 3 MMR (Full Capacity Use with Fewer Weapons Restrictions)	Alternative 4 PTA (Full Capacity Use with Fewer Weapons Restrictions)
<u>Land Use and Recreation</u>					
Conflicts or incompatibilities with the objectives, policies, or guidance of state and local plans	○	○	○	○	○
Conflicts with existing or planned land uses	○	⊗	⊗	⊗	○
Impacts on recreational resources due to training	○	⊗	⊗	⊗	○
<u>Airspace</u>					
Reduction in navigable airspace	○	○	○	○	○
Creation of an air navigation obstruction	○	○	○	○	○
New/modified special use airspace	○	○	○	○	○
Change to a military training route	○	○	○	○	○
Change in en route airway or IFR procedure	○	○	○	○	○
Restriction of access to airports/airfields	○	○	○	○	○

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Change in airport/airfield approach or departure patterns	○	○	○	○	○
Reduction in public health and safety due to change in aviation safety risk	○	○	○	○	○
<u>Visual Resources</u>					
Modification of existing view, to include the presence/use of training assets	⊙	⊙	⊙	⊙	⊙
Consistency with visual resource policies	⊙	⊙	⊙	⊙	⊙
Alteration of the landscape character, to include construction	⊙	⊙	⊙	⊙	⊙
Impairment of view from visible fugitive dusk	⊙	⊙	⊙	⊙	⊙
<u>Air Quality</u>					
Emissions from aircraft use	⊙	⊙	⊙	⊙	⊙
Emissions from ordnance use	○	⊙	⊙	⊙	⊙
Emissions from military vehicle use	⊙	⊙	⊙	⊙	⊙
Fugitive dust from military vehicle use	⊙	⊙	⊙	⊙	⊙

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Fugitive dust from range construction activities	○	○	○	○	⊗
Wind erosion from disturbed areas	○	⊙	⊙	⊙	⊗
Emissions from wildfires	○	⊙	⊙	⊙	⊙
<u>Noise</u>					
Noise from rotary-wing aircraft	⊙	⊙	⊙	⊙	⊙
Noise from fixed-wing aircraft	⊙	⊙	⊙	⊙	⊙
Noise from military vehicle use	⊙	⊙	⊙	⊙	⊙
Noise from ordnance use	○	⊗	⊗	⊗	⊙
Noise from demolitions training	○	⊙	⊙	⊙	⊙
Noise from construction activities	○	○	○	○	⊙
<u>Traffic and Transportation</u>					
Consistency with state regulations and policies	⊙	⊗	⊗	⊗	⊙
Intersection operations	⊙	⊙	⊙	⊙	⊙
Roadway/highway segment operations	⊙	⊙	⊙	⊙	⊙
<u>Water Resources</u>					
Flooding	⊙	⊗	⊗	⊗	⊙

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Impacts on surface water quality from chemical contaminants	⊙	⊙	⊙	⊙	⊙
Impacts on surface water quality from soil erosion	⊙	⊙	⊗	⊗	⊙
Alter stream channel or groundwater flow patterns	⊙	○	○	○	○
Groundwater quality	○	⊙	⊙	⊙	⊙
Reduce water supply	○	○	○	○	○
<u>Geology and Soils</u>					
Soil erosion	⊗	⊗	⊗	⊗	⊙
Soil contamination	○	⊙	⊙	⊙	⊙
Geologic hazards	○	⊙	⊙	⊙	⊙
<u>Biological Resources</u>					
Impacts from fire on sensitive terrestrial species and sensitive habitat	⊗	⊗	⊗	⊗	⊗
Impacts on sensitive terrestrial species and habitat resulting from the spread of nonnative species	⊗	⊗	⊗	⊗	⊗

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Impacts on marine wildlife and coral ecosystems from runoff	○	○	○	○	○
Disturbance to marine wildlife from aircraft	○	○	○	○	○
Disturbance to marine wildlife from ground training	○	○	○	○	○
Disturbance to sensitive terrestrial species and habitat from ground training	○	⊗	⊗	⊗	○
Disturbance to sensitive terrestrial species and habitat from aircraft	○	○	○	○	○
<u>Cultural Resources</u>					
Impacts on archaeological resources	⊗	⊗	⊗	⊗	⊗
Impacts on cultural resources from vehicles	⊗	○	○	○	○
Impacts on paleontological resources	○	○	○	○	○
Impacts on Areas of Traditional Importance	⊗	⊗	⊗	⊗	○

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Access to Areas of Traditional Importance and archaeological sites	⊗	⊗	⊗	⊗	○
<u>Hazardous Materials and Waste</u>					
Unexploded ordnance	⊙	⊙	⊙	⊙	⊙
Ammunition	○	⊙	⊙	⊙	⊙
General training	○	⊙	⊙	⊙	⊙
Lead from ammunition	○	⊙	⊙	⊙	⊗
Pesticides	○	⊙	⊙	⊙	⊙
Hazardous waste management	○	⊙	⊙	⊙	⊙
Polychlorinated biphenyls	○	○	○	○	○
Electromagnetic fields	○	○	○	○	○
Petroleum, oils, and lubricants	⊙	○	○	○	⊙
Depleted Uranium	○	○	○	○	⊙
<u>Socioeconomics and Environmental Justice</u>					
Economic development	○	○	○	○	⊙+
Protection of children	⊙	⊗	⊗	⊗	○
Environmental justice	⊙	⊗	⊗	⊗	○
<u>Public Services and Utilities</u>					
Police, fire, and emergency medical service	○	⊙	⊙	⊙	⊙
Potable water	○	⊙	⊙	⊙	⊙

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Wastewater	○	⊙	⊙	⊙	⊙
Solid waste management	⊙	⊙	⊙	⊙	⊙
Stormwater	○	○	○	○	⊙
Telephone	○	○	○	○	⊙
Electricity	○	○	○	○	⊙
<u>Wildfires</u>					
Wildfire ignition	⊙	⊘	⊗	⊗	⊗

LEGEND:

- ⊗ = Significant impact
- ⊘ = Significant impact mitigable to less than significant
- ⊙ = Less than significant impact
- = No impact
- + = Beneficial impact

**Table ES-3
Summary of Potential Cumulative Impacts**

Impact Issues	No Action Alternative	Alternative 1 MMR (Reduced Capacity Use with Some Weapons Restrictions)	Alternative 2 MMR (Full Capacity Use with Some Weapons Restrictions)	Alternative 3 MMR (Full Capacity Use with Fewer Weapons Restrictions)	Alternative 4 PTA (Full Capacity Use with Fewer Weapons Restrictions)
Land use and recreation	⊙	⊗	⊗	⊗	⊙
Airspace	○	○	○	○	○
Visual resources	⊙	⊙	⊙	⊙	⊙
Air quality	⊙	⊙	⊙	⊙	⊗
Noise	⊙	⊗	⊗	⊗	⊙
Traffic and transportation	⊙	⊗	⊗	⊗	⊙
Water resources	⊙	⊗	⊗	⊗	⊙
Geology and soils	⊙	⊗	⊗	⊗	⊗
Biological resources	⊗	⊗	⊗	⊗	⊗
Cultural resources	⊗	⊗	⊗	⊗	⊗
Hazardous materials and waste	⊙	⊗	⊗	⊗	⊗
Socioeconomics and environmental justice	⊙+	⊗	⊗	⊗	⊙+
Public services and utilities	⊙	⊙	⊙	⊙	⊙
Wildfires	⊗	⊗	⊗	⊗	⊗

LEGEND:

- ⊗ = Significant impact
- ⊗ = Significant impact mitigable to less than significant
- ⊙ = Less than significant impact
- = No impact
- + = Beneficial impact

ENVIRONMENTAL IMPACT STATEMENT

Makua Military Reservation

Purpose/Need

The Army needs a live-fire training range to train its companies, platoons and squads stationed in Hawaii. The range must provide for realistic and challenging combined arms training to prepare Soldiers for the full spectrum of operations faced in combat. Currently there are no existing training areas in Hawaii outside of Makua Military Reservation where company-level combined arms live-fire exercises and convoy live-fire exercises can be conducted.



History of Training Use

1943 Use of Makua by military for live-fire exercise

1988 Company combined-arms assault course with live-fire range constructed and operational at Makua Military Reservation

1988-1998 Makua Military Reservation prepared Soldiers for combat according to Army doctrine

1998 (September) Training suspended temporarily due to wildfires, and the Army's investigation, assessment and mitigation efforts to reduce the impact of its activities.

2001 (July) U.S. District Court barred live-fire training at Makua Military Reservation pursuant to NEPA

2001 (October) Pursuant to a settlement agreement and stipulated order, the Army resumed limited live-fire exercises at Makua Military Reservation for three years and agreed to prepare an environmental impact statement

2001-2004 Makua Military Reservation prepared Soldiers for Operations Enduring Freedom and Iraqi Freedom

2004 Army halted live-fire training and commenced limited, nonlive-fire training at Makua Military Reservation



Content

CHAPTER 1 PURPOSE, NEED AND SCOPE describes the purpose and need for the proposed action and outlines the scope of the analysis presented in this document.

CHAPTER 2 DESCRIPTION OF THE PROPOSED ACTION AND ALTERNATIVES describes the proposed action of military training and identifies alternatives to achieve the proposed action.

CHAPTER 3 AFFECTED ENVIRONMENT describes existing environmental and socioeconomic conditions at the project location and within the region of influence.

CHAPTER 4 ENVIRONMENTAL CONSEQUENCES identifies and describes the environmental and socioeconomic impacts of implementing the project alternatives and presents available mitigation measures.

CHAPTER 5 CUMULATIVE PROJECTS AND IMPACTS identifies and describes the impacts of the proposed action when combined with other past, present and reasonably foreseeable future actions.

CHAPTER 6 OTHER REQUIRED ANALYSIS provides additional evaluation of the project alternatives regarding significant unavoidable adverse impacts, the relationship between short-term uses and long-term productivity, and any irreversible or irretrievable commitment of resources.

CHAPTER 7 REFERENCES - CHAPTER 8 CONSULTATION AND COORDINATION - CHAPTER 9 LIST OF PREPARERS - CHAPTER 10 GLOSSARY AND INDEX - CHAPTER 11 DISTRIBUTION LIST and APPENDICES A-K

