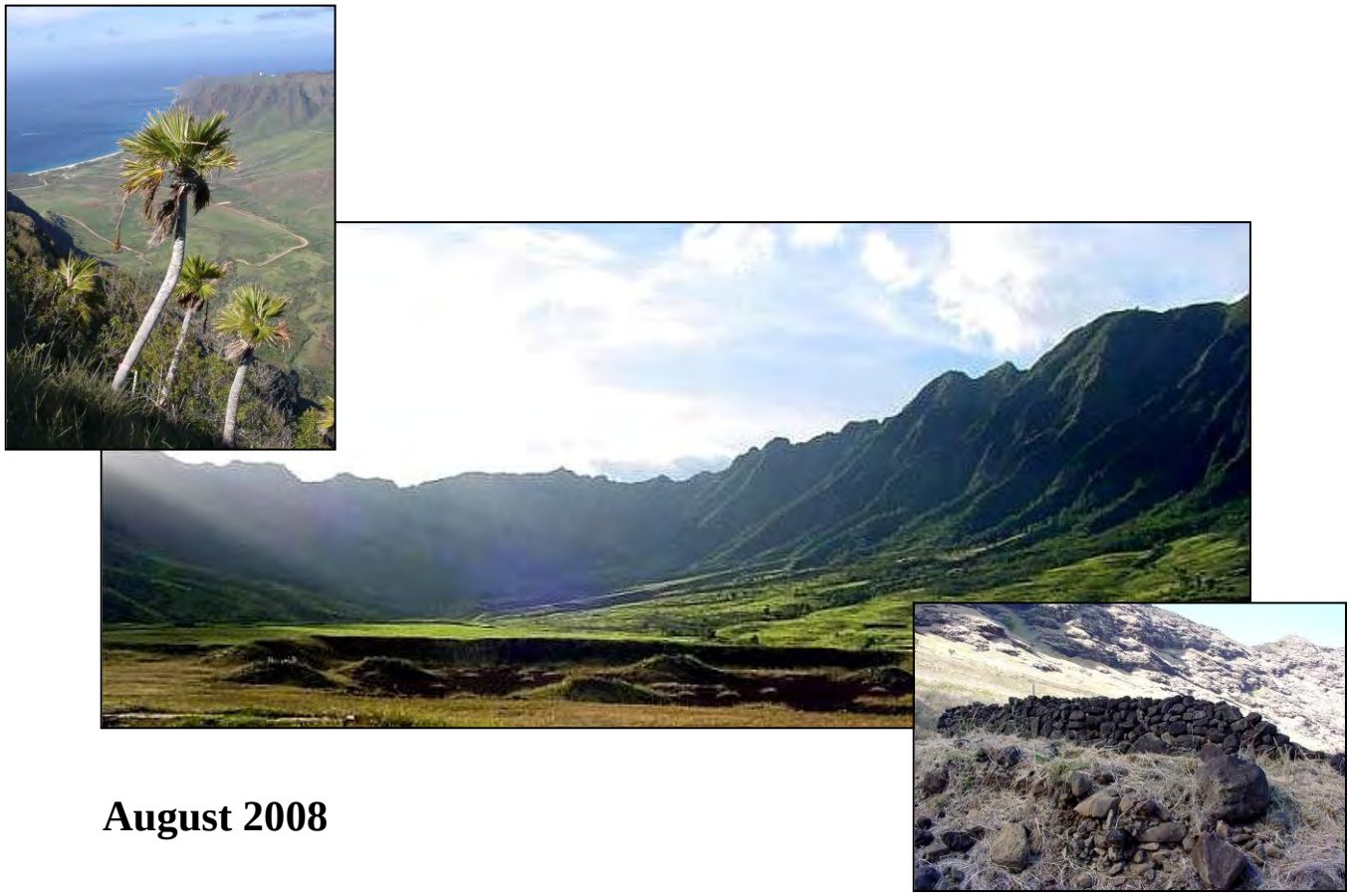
Supplemental Draft Environmental Impact Statement

MILITARY TRAINING ACTIVITIES AT MĀKUA MILITARY RESERVATION, HAWAIʻI

Volume 3 – Appendix H



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APPENDIX H

BIOLOGICAL RESOURCES

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APPENDIX H-1

2007 BIOLOGICAL OPINION

REINITIATION

OF THE

1999 BIOLOGICAL OPINION

OF THE

U.S. FISHAND WILDLIFE SERVICE

FOR

U.S. ARMY MILITARY TRAINING

AT MAKUA MILITARY RESERVATION

ISLAND of OAHU

June 22, 2007

(1-2-2005-F-356)

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APPENDICES

Appendix A Threatened and Endangered Plants, Animals and Critical Habitat in the Makua Action Area

Appendix B Consultation Participants

Appendix C Species Nomenclature for Makua Biological Opinion

Appendix D Prescribed Burn Plan for Makua Military Reservation

Appendix E Primary Threats to Threatened and Endangered Plants In Makua Biological Opinion

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Pacific Fish and Wildlife Office
300 Ala Moana Boulevard, Room 3-122
Box 50088
Honolulu, Hawaii 96850

TAKE PRIDE® IN AMERICA

In Reply, Refer to:
1-2-2005-F-356

JUN 2 2 2007

Colonel Howard J. Killian
U.S. Army Commander
Department of the Army
Headquarters, United States Army Garrison, Hawaii
Schofield Barracks, Hawaii 96857-5000

Subject: Reinitiation of the Biological Opinion of the U.S. Fish and Wildlife Service for Military Training at Makua Military Reservation (1-2-2005-F-356)

Dear Colonel Killian:

This Biological Opinion responds to your request for reinitiation of formal consultation with the U.S. Fish and Wildlife Service (Service) pursuant to section 7 of the Endangered Species Act of 1973, as amended. We initiated consultation on August 22, 2005. Between the initiation date and June 2007, there were many modifications to the Project Description pertaining to training, fire suppression, and ensuing conservation measures. The majority of these modifications were resolved by January 2007; however, pursuant to our meeting with you on May 15, 2007, in actuality we did not have a final Project Description until June 15, 2007. We requested an extension to this consultation since we could not complete an analysis of the effects of the action until we had a final Project Description of Army actions at Makua Military Reservation (Makua).

The following three formal consultations were completed over the past nine years and establish the foundation for this reinitiated Biological Opinion.

1. "The Biological Opinion of the U.S. Fish and Wildlife Service for Routine Military Training at Makua Military Reservation" (1-2-99-F-01) (Service 1999b) on July 23, 1999, which addressed ongoing training activities conducted by the U.S. Army (Army) to 37 listed plants, Oahu tree snail (*Achatinella mustelina*), Oahu creeper (*Paroreomyza maculata*), Hawaiian hoary bat (*Lasiurus cinereus semotus*) and a conference opinion on the proposed endangered Oahu elepaio (*Chasiempis sandwichensis ibidis*).

2. A "Supplement to the Biological Opinion and Conference Opinion for Proposed Critical Habitat of the U.S. Fish and Wildlife Service for Routine Training at Makua Military Reservation" (1-2-99-F-01-S) (Service 2001b) was completed in October 2001. The 2001 Supplement addressed several modifications to the original action including the elimination of tracer bullets and tube-launched, optically tracked, wire guided missiles or TOW missiles and the discovery of two additional listed plant species in the action area.

The 2001 Supplement included a conference opinion that addressed training impacts to proposed critical habitat for the Oahu elepaio.

3. We completed a "Reinitiation of the 1999 Biological Opinion of the U.S. Fish and Wildlife Service for Routine Military Training at Makua Military Reservation Island of Oahu" (1-2-2004-F-006) (Service 2004a) dated September 24, 2004, in which we consulted on the critical habitat for 41 plants and the Oahu elepaio.

This reinitiation addresses the effect of routine training to 38 threatened and endangered plant species plus 36 plant critical habitats (Appendix A), the Oahu elepaio and its designated critical habitat, and the Oahu tree snail. For ease of reference, all other species (native and non-native) discussed in this Biological Opinion, are listed in Appendix B.

This reinitiation is based on the following documents:

1) Biological Assessment for Programmatic Section 7 Consultation on Routine Military Training at Makua Military Reservation (U.S. Army Garrison 1998) (November 2, 1998);

2) The above referenced 1999 Biological Opinion, 2001 Supplement, and the 2004 reinitiation on critical habitat;

3) Makua Endangered Species Mitigation Plan (May 4, 1999), renamed the Makua Endangered Species Stabilization Plan (U.S. Army Garrison 1999a);

4) Draft PFC Pililaau Range Standard Operating Procedures (U.S. Army Garrison 2001) (June 2001);

5) Integrated Wildland Fire Management Plan Oahu and Pohakuloa Training Areas (U.S. Army Garrison 2003a) (October 2003);

6) Implementation Plan Makua Military Reservation Island of Oahu (Makua Implementation Team 2003) (May 2003);

7) Makua Implementation Plan Addendum, Makua Military Reservation, Island of Oahu (U.S. Army Garrison 2005a); and

8) Informal consultation between the U.S. Army (Army) and the Service; and other sources of information in our files.

Action Area Summary

The action area pursuant to our section 7 regulations consists of "all areas to be affected directly or indirectly by the Federal action," which include land proposed as management units as delineated in the Makua Implementation Plan Addendum (Figure 1). To facilitate the analysis of increased training actions and implementation of the Makua Implementation Plan we divided the Makua action area into two distinct areas: 1) the area that will be impacted by the direct and indirect affects of military training; and 2) the area containing the management units that are