February 2, 2012

Mr. Gary Hooser, Director
Office of Environmental Quality Control
235 South Beretania Street, Suite 702
Honolulu, Hawai’i 96813

Dear Mr. Hooser:

SUBJECT: Draft Environmental Assessment (DEA)
Applicant: Paradise Helicopters
Request: Helicopter Landing Area
TMK: 1-1-114:022 Royal Gardens Subd., Puna, Hawai’i

The Hawaii County Planning Department has reviewed the draft environmental assessment for the subject project and anticipates a Finding of No Significant Impact (FONSI) determination. Please publish notice of availability for this project in the February 23, 2012, OEQC Environmental Notice.

We have enclosed a completed OEQC Publication Form, a distribution list, one copy of the draft EA, and a copy of the draft EA and the project summary hardcopy on disk. If you have any questions, please feel free to contact Jeff Darrow at 961-8158.

Sincerely,

BJ LEITHEAD TODD
Planning Director

Enclosures: Draft EA (1 copy)
Completed OEQC Publication Form
Distribution List
Draft EA and Project Summary (on disk)

cc: Ron Terry
Name of Project: Helicopter Landing Area at Royal Gardens

Applicable Law: Chapter 343, HRS

Type of Document: Draft EA

Island: Hawai`i

District: Puna

TMK: (3rd) 1-1-114:022

Permits Required: County Special Permit

Name of Applicant: Paradise Helicopters
  Calvin G. Dorn, President
  PO Box 5371
  Kailua-Kona HI 96745
  Contact and Phone Greg Mooers 880-1455

Approving Agency: Hawai'i County Planning Department
  101 Pauahi Street, Suite 3
  Hilo HI 96720
  Jeff Darrow 961-8158

Consultant: Geometrician Associates
  PO Box 396
  Hilo HI 96721
  Ron Terry 969-7090

Project Summary: Paradise Helicopters is seeking permission through a Special Permit to develop and utilize a 15 by 15-foot standalone platform for helicopter landing placed within a 100 by 100-foot clearing on a 1.003-acre property owned by Jack Thompson in the Royal Gardens Subdivision of Puna. A Helicopter Landing Area is a permitted use for the property, which has agricultural County zoning and is within the State Land Use Agricultural District, subject to issuance of a Special Permit by the County of Hawai‘i. The subdivision has been inundated by lava flows from Kilauea and is uninhabited except by Mr. Thompson. His is the only occupied home within two miles in any direction. All roads leading to the subdivision have been buried by lava and Mr. Thompson is obliged to walk three miles to access his home.

Paradise Helicopters used the subject property as a landing area in the past and is unaware of any environmental problems in the area. The landing would take place as an additional feature of existing tours that already fly over the property. The project site has no rare or endangered flora or cultural resources. Wide-ranging endangered birds and the Hawaiian hoary bat might occasionally be present but would not be adversely affected. Volcano helicopter tour noise has generated complaints from residents and others concerned with natural and cultural resources, and this larger issue is being dealt with through the National Park’s Air Tour Management Plan process.
Dear Participant:

Attached for your review is a Draft Environmental Assessment (DEA) prepared pursuant to the EIS law (Hawaii Revised Statutes, Chapter 343) and the EIS rules (Administrative Rules, Title 11, Chapter 200).

Project Name: Helicopter Landing Area at Royal Gardens
Location: Island: Hawai‘i District: Puna
Tax Map Key Number: (3rd) 1-1-114:022

Your comments must be received or postmarked by: to be determined

Please send original comments to the:

Consultant: Geometrician Associates
Address: PO Box 396
Hilo HI 96721
Contact: Ron Terry Phone: 969-7090

Copies of the comments should be sent to:

Applicant: Paradise Helicopters
Calvin G. Dorn, President
PO Box 5371
Kailua-Kona HI 96745
Contact: Greg Mooers Phone: 880-1455

and

Approving Agency: Hawai‘i County Planning Department
Address: 101 Pauahi Street, Suite 3
Hilo HI 96720
Contact: Jeff Darrow Phone: 961-8158

If you no longer need the Draft EA, please recycle it. Thank you for your participation in the Environmental Assessment process.
DRAFT ENVIRONMENTAL ASSESSMENT

Helicopter Landing Area at Royal Gardens

Tax Map Key: (3rd.) 1-1-114:022, Royal Gardens Subdivision, Puna District, Hawai‘i Island, State of Hawai‘i

February 2012

Prepared for:

County of Hawai‘i
Planning Department
101 Pauahi Street, Suite 3
Hilo, Hawai‘i 96720
DRAFT ENVIRONMENTAL ASSESSMENT

Helicopter Landing Area at Royal Gardens

Tax Map Key: (3rd.) 1-1-114:022, Royal Gardens Subdivision,
Puna District, Hawai‘i Island, State of Hawai‘i

APPLICANT:

Paradise Helicopters
Calvin G. Dorn, President
PO Box 5371
Kailua-Kona, Hawai‘i 96745

APPROVING AGENCY:

County of Hawai‘i
Planning Department
101 Pauahi Street, Suite 3
Hilo, Hawai‘i 96720

CONSULTANT:

Geometrician Associates LLC
PO Box 396
Hilo, HI 96721

CLASS OF ACTION:

Construction of New Helicopter Facility That May Affect Land Classified as
Conservation District

This document is prepared pursuant to:

The Hawai‘i Environmental Protection Act,
Chapter 343, Hawai‘i Revised Statutes (HRS), and
Title 11, Chapter 200, Hawai‘i Department of Health Administrative Rules (HAR).
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SUMMARY OF THE PROPOSED ACTION, ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

Paradise Helicopters is seeking permission through a Special Permit to develop and utilize a 15 by 15-foot standalone platform for helicopter landing placed within a 100 by 100-foot clearing on a 1.003-acre property owned by Jack Thompson in the Royal Gardens Subdivision of Puna. A Helicopter Landing Area is a permitted use for the property, which has agricultural County zoning and is within the State Land Use Agricultural District, subject to issuance of a Special Permit by the County of Hawai‘i. The subdivision has been inundated by lava flows from Kilauea and is uninhabited except by Mr. Thompson. His is the only occupied home within two miles in any direction. All roads leading to the subdivision have been buried by lava and Mr. Thompson is obliged to walk three miles to access his home.

Paradise Helicopters used the subject property as a landing area in the past and is unaware of any environmental problems in the area. The landing would take place as an additional feature of existing tours that already fly over the property. The project site has no rare or endangered flora or cultural resources. Wide-ranging endangered birds and the Hawaiian hoary bat might occasionally be present but would not be adversely affected. Volcano helicopter tour noise has generated complaints from residents and others concerned with natural and cultural resources, and this larger issue is being dealt with through the National Park’s Air Tour Management Plan process.
PART 1: PROJECT DESCRIPTION AND ENVIRONMENTAL ASSESSMENT PROCESS

1.1 Project Location and Description

Paradise Helicopters is seeking permission through a Special Permit to develop and utilize a 15 by 15-foot standalone platform trailer for helicopter landing placed within a 100 by 100-foot clearing on a 1.003-acre property (TMK: (3) 1-1-114:022) owned by Jack Thompson in the Royal Gardens Subdivision of Puna (see Figures 1-4).

A Helicopter Landing Area is a permitted use for the property, which has agricultural County zoning and is within the State Land Use Agricultural District, subject to issuance of a Special Permit by the County of Hawai‘i. The Hawai‘i County Planning Department has determined that an EA is necessary because any helicopter that lands there is likely to fly over the Conservation District and there is at least some potential to affect it (see Figure 1b).

The subdivision has been inundated by lava flows from Kilauea and is, for the most part, uninhabited. Mr. Thompson’s home, which has been featured in numerous print and television reports, is the only occupied home within two miles in any direction. All roads leading to the subdivision have been buried by lava and Mr. Thompson is obliged to walk three miles to access his home. Paradise Helicopters used the subject property as a landing area in the past and is unaware of any environmental problems on the site. The use has been discontinued until an EA is completed and the Special Permit is considered by the Hawai‘i County Windward Planning Commission.

Paradise Helicopters, which has 35 employees on the Big Island, would like to resume landings on the subject property as an additional feature of already existing Kilauea Volcano helicopter tours that already fly over this property. Landings would occur daily at the site between 9:00 am and 5:00 pm, with no night flights. They anticipate up to four flights per day with four to six passengers and one pilot on each flight. The visitors would be on the ground for about thirty minutes each trip. Mr. Thompson’s house is located in a forested kipuka surrounded by lava, and the stop would provide visitors an up-close look at the stark contrast of the lava inundation in an area of tropical beauty with scenic vistas of the ocean. It would also provide Mr. Thompson with a beneficial use for his landscaped property that helps compensate for the lack of road access. Mr. Thompson has affirmed that the site will not be used as a bed and breakfast operation.

Improvements on the property would consist solely of a 15’ x 15’ landing platform that will be hauled in one piece by helicopter. The platform will be standalone and will be placed one to two feet above the ground surface and leveled (see Figure 3c for typical platform photo). There would be no fueling facilities, lighting, retail operations or restroom facilities on the subject parcel. The normal flight pattern, which may vary with weather and eruption activity, is directly from the Hilo airport to the Pu‘u O‘o vent, to the subject property and then returning to the Hilo airport with a side trip to view waterfalls on the Wailuku River (Figure 5). Some flights will also originate from Kona and approach from south or northwest. Because the area near Royal Gardens is highly scenic from the air, the flight pattern would be essentially the same with or without a landing at Mr. Thompson’s home.
Figure 1a   Location Map

Helicopter Landing Area at Royal Gardens Environmental Assessment

2
Source: Hawai‘i County Real Property Tax Maps, portion of Plat Map. Some labels added.
Figure 3  Project Site Photographs

3a  Airphoto  ▲
3b  Proposed Landing Area

Helicopter Landing Area at Royal Gardens Environmental Assessment
Figure 3  Project Site Photographs, continued

3c  Interior Landing Site Vegetation ▲  ▼  3d Typical Landing Platform

Helicopter Landing Area at Royal Gardens Environmental Assessment
Proposed Helicopter Landing Site and Thompson Residence

Site Plan

Hawaii Volcanoes National Park

Parcel 23 (Undeveloped)

 Parcel 39 (Undeveloped)

Parcel 40 (Undeveloped)

Parcel 21

Parcel 20 (Surrounding Parcels Are Undeveloped)

Parcel 19

Parcel 18

Parcel 17

Subject Property
TMK: (3) 1-1-114:022

Water Catchment

House

Proposed Landing Platform (15' x 15')

Proposed Landing Area
(100' x 100' Clearing)

Data Sources include GIS layers from DBEDT website (2011), USGS topographic maps, aerial photography, and Google Earth. Locations of structures in relation to boundaries, roadways, and elevation contours (feet) are approximate.
Figure 5  Typical Paradise Helicopters Flight Route
1.2 Environmental Assessment Process

This Environmental Assessment (EA) process is being conducted in accordance with Chapter 343 of the Hawai‘i Revised Statutes (HRS). This law, along with its implementing regulations, Title 11, Chapter 200, of the Hawai‘i Administrative Rules (HAR), is the basis for the environmental impact process in the State of Hawai‘i. According to Chapter 343, an EA is prepared to determine impacts associated with an action, to develop mitigation measures for adverse impacts, and to determine whether any of the impacts are significant according to thirteen specific criteria.

Part 4 of this document states the finding (anticipated in the Draft EA) that no significant impacts are expected to occur; Part 5 lists each criterion and presents the findings made by the applicant in consultation with the Hawai‘i County Planning Department, the approving agency. In the EA process, if the approving agency determines after considering comments to the Draft EA that no significant impacts would likely occur, then the agency issues a Finding of No Significant Impact (FONSI), and the action is permitted to occur. If the agency concludes that significant impacts are expected to occur as a result of the proposed action, then an Environmental Impact Statement (EIS) is prepared.

1.3 Public Involvement and Agency Coordination

The following agencies and organizations were and/or are being consulted in development of the environmental assessment and/or Special Permit application:

Federal:
- Department of Interior, National Park Service
- U.S. Fish and Wildlife Service

State:
- Department of Land and Natural Resources
- Office of Hawaiian Affairs
- Department of Health
- State Historic Preservation Division

County:
- Civil Defense
- County Council
- Department of Public Works
- Planning Department
- Police Department
- Fire Department

Private:
- Sierra Club
- Neighboring property owners (4 people)
- National Park Service List of Kalapana Community Consultees (14 people)

Copies of communications received during early consultation are contained in Appendix 1a, which also contains correspondence to and from the State Historic Preservation Division.
PART 2: ALTERNATIVES

2.1 No Action

Under the No Action Alternative, the 15 by 15-foot standalone platform for helicopter landings placed within a 100 by 100-foot clearing would not be developed and the landings would not take place. Paradise Helicopters tour would not have the opportunity to offers visitors the experience of landing at Mr. Thompson’s property, and Mr. Thompson would not benefit from the income he receives from the landings. This EA considers the No Action Alternative as the baseline by which to compare environmental effects from the project.

2.2 Alternative Locations

Because of its highly unique characteristics, there are no other potential landing locations that are suitable for the proposed use, and therefore, no alternative sites have been advanced in this Environmental Assessment.
PART 3: ENVIRONMENTAL SETTING, IMPACTS AND MITIGATION MEASURES

3.1 Physical Environment

3.1.1 Climate, Geology, Soils and Geologic Hazards

Environmental Setting

Geologically, the site is located on the slopes of Kilauea Volcano on lava dated from 1,500-3,000 years in age, and soil on the site appears to be minimal. The climate in the area is mild, with a mean annual temperature of 75 degrees (U.H. Hilo-Geography 1998:57 and annual rainfall averaging approximately 72 inches (http://rainfall.geography.hawaii.edu/interactivemap.html).

The entire Big Island is subject to geologic hazards, especially lava flows and earthquakes. Volcanic hazard as assessed by the U.S. Geological Survey in this area of Puna is Zone 2 (Heliker 1990:23). Zone 2 includes the areas that are adjacent to, and downslope from, the east rift zone, where lava flows are most likely to travel because of the regional slope.

In terms of seismic risk, the entire Island of Hawai‘i is rated Zone 4 Seismic Hazard (Uniform Building Code, 1997 Edition, Figure 16-2). Zone 4 areas are at risk from major earthquake damage, especially to structures that are poorly designed or built, as the 6.7-magnitude quake of October 15, 2006, demonstrated. That earthquake, and a magnitude 6.0 aftershock, caused no damage to the project site. The project site does not appear to be subject to subsidence, landslides or other forms of mass wasting.

Impacts and Mitigation Measures

In general, despite the high hazard, geologic conditions impose no constraints on the proposed action and it is not imprudent to undertake. In response to early consultation, the Hawai‘i County Civil Defense Agency noted that:

“The area indicated is perpetually under threat from lava inundation as long as the eruption on the southeast flank of Kilauea volcano continues. However, we do not consider it such a significant risk to recommend prohibiting the landing area” (see email in Appendix 1a).

Paradise Helicopters stays apprised of volcanic conditions and does not operate during times when lava flows are other volcanic conditions pose a hazard to visitors. They will not land in the area if it is under imminent threat of lava inundation. It is recognized that that lava from Kilauea Volcano may destroy Mr. Thompson’s home within a matter of months to years, after which landings at the site would have little or no reason to continue. Until that time, however, the landings would offer visitors a unique experience, including an unforgettable perspective on geologic hazard.
3.1.2 Drainage and Water Features

Existing Environment

Due to the recent lava substrate, the project area has no perennial surface water bodies and no areas of local (non-stream related) flooding. No Federal Emergency Management Agency Flood Insurance Rate Maps (FIRM) are printed, and the project site is thus in Zone X, outside the 500-year flood plain.

Maps printed by the Pacific Tsunami Warning Center and the Hawai‘i County Civil Defense Agency locate the project site outside the area that should be evacuated during a tsunami warning (http://www5.hawaii.gov/tsunami/maps.asp).

Impacts and Mitigation Measure

There will be no impact on floodplains or flooding from emplacement or use of the landing platform and associated clearing. Trees and shrubs will be cleared by hand and no heavy equipment will be used, avoiding sedimentation and erosion impacts.

Helicopters contain fuel and lubricants. Although the landing site would not involve refueling or maintenance, any helicopter operations involve at least some risk of a spill. Paradise Helicopters employs the following standard operating procedures in case of a spill of any hazardous material:

1. REPORT THE SPILL
   a. If an employee observes a release of a hazardous material, it is reported to supervisor.
   b. The Fire Department is promptly notified of any of the following spills:
      i. Any uncontrolled quantity of a hazardous substance, or if assistance is needed by the Fire Department, or as instructed by the Material Safety Data Sheet.
      ii. Oil and other petroleum products with quantity exceeding 10 gallons or area of spill greater than three feet in any direction or any amount that is spilled into a stream or body of water.

2. STOP THE SOURCE OR CONTAIN THE SPILL: If safe and appropriate to do so, employees don any required personal protective equipment, make the spill scene off limits to unauthorized personnel, and prevent the spill from migrating.

3. CLEAN UP THE SPILL: If within the capability of unit that caused spill, employees may clean up spill. If not, the Fire Department or the County Department of Environmental Management (DEM) will make the decision for assistance and coordinate with other units. Employees who handle/work with the hazardous material as part of job are to be trained and qualified to participate in the cleanup of the spill. Regardless of the size of the spill it must be cleaned up.
4. **DISPOSE OF THE SPILLED MATERIAL:** All spilled material and other contaminated material (soil, gravel, absorbents, etc.) must be properly disposed of. It is the responsibility of the unit that created the spill to properly package and dispose of the waste. DEM will determine required disposal method. Spills not reported to the Fire Department still need to be reported to DEM for proper disposal and reporting. The exception to this requirement is for DEM-approved disposal instructions for a specific hazardous material.

Given the small quantities of fuel and lubricants on an individual helicopter, the distance of the project site from sensitive water bodies or land uses, and the procedures in which all employees are trained, the potential for any significant spill or environmental damage from the helicopter landings is negligible.

**3.1.3 Flora, Fauna and Ecosystems**

*Existing Environment*

The vegetation of the general Royal Gardens area can best be classified as a *kipuka* of ‘Ohi’a Lowland Mesic Forest (Gagne and Cuddihy 1990) within a bare lava substrate. It consists of an open canopy of sparse native forest dominated by ‘ohi’a trees (*Metrosideros polymorpha*) between 10 and 30 feet high, with some larger individuals. Biological reconnaissances of the area in July and November of 2011 indicated that, like many mesic forests, it is diverse, with a variety of native shrubs including *alahe‘e* (*Psydrax odoratum*), ‘akia (*Wikstroemia* sp.), ‘ulei (*Osteomeles anthyllidifolia*), ‘a‘ali‘i (*Dodonea viscosa*), and *pukiawe* (*Leptecophylla tameiameiae*), as well as several species of native ferns, sedges and vines, notably dodder (*Cassytha filiformis*). This forest has been overrun by lava flows over the course of several decades and has been greatly reduced in size. The integrity of the forest has been compromised by subdivision into roughly one-acre lots, with homes on some of the properties and roads throughout. As a result, it is highly invaded in most areas by the region’s dominant invasive species as well as other non-natives, including most notably guava (*Psidium guajava*), Christmas berry (*Schinus terebinthifolius*), butterfly bush (*Buddleia asiatica*), *Desmodium* spp., white shrimp plant (*Justicia betonica*), *Melochia umbellata*, and lantana (*Lantana camara*). A wide variety of non-invasive non-native plants that were brought in for food or ornamental purposes are also present, including mango (*Mangifera indica*) and *ulu* or breadfruit (*Altocarpus altilis*). No rare, threatened or endangered species were present in or near the 100-by-100 foot area to be used for helicopter landing, nor in the areas near Mr. Thompson’s home or adjacent to the subdivisions street where tourists might walk. No streams, lakes or wetlands with potential aquatic biology are present or would be affected in any way by the project.

*Fauna*

Early morning visits to the site detected only a few species of common non-native birds, with most individuals being Japanese White-eyes (*Zosterops japonicus*). Few endangered or otherwise rare bird species would be expected in this area, because at 1,100 feet in elevation, it is too low for Hawai‘i’s endangered forest birds. Several native birds are known to use the area at least occasionally, including the Hawai‘i ‘*Amakihi* (*Hemignathus virens virens*), the *Elepaio* (*Chasiempis...*)
sandwichensis), the Hawaiian thrush or ‘Oma’o (Myadestes obscurus), and even the ‘Apapane (Himatione sanguinea) (pers. comm. Dr. Patrick Hart of UH-Hilo to Ron Terry, November 2011). Although the endangered Hawaiian Hawk (Buteo solitarius) was not observed in the project area, it undoubtedly forages in the general area, as it is commonly seen throughout forested areas of Puna. The vegetation in Royal Gardens includes some ‘ohi’a trees as tall as 40 feet that could possibly be suitable for hawk nesting, but none appear to be present in the area near the landing site.

The endangered Hawaiian hoary bat (Lasiurus cinereus semotus) is often found in alien as well as native vegetation in a variety of locations throughout the island of Hawai‘i. These solitary bats are widely scattered and roost almost undetected in tall shrubs and trees. They have been observed in many areas of Puna and should be presumed to be present at least occasionally and to roost perhaps somewhere in Royal Gardens. Although no endangered Hawaiian Petrels (Pterodroma sandwichensis) or threatened Newell’s Shearwaters (Puffinus auricularis newelli) would be likely to nest in the area and none were observed, they may overfly the site on their way to colonies on the mountains.

Impacts and Mitigation Measures

While the area contains native flora, no resources requiring special protection are present. No threatened or endangered plant species listed by the U.S. Fish and Wildlife Service were present (USFWS 2011). As the project site itself consists of a portion of Mr. Thompson’s fully landscaped property and the roadways in front of it, where visitors walk during their brief visit, there would be no direct impact to any kind of vegetation. Although helicopters can be vectors for seeds or other parts of invasive plants, the already highly disturbed character of the area means that such impacts will likely not be significant.

In a November 21, 2011 letter in response to early consultation (see Appendix 1a), Hawai‘i Volcanoes National Park expressed, among other issues, concerns regarding the effect on birds:

“There may also be impacts to adjacent park resources from the noise and rotor wash associated with repeated landing and take-off’s in a relic forested area. The relic forested areas in this part of the park, harbor bird species such as the federally endangered ‘Io (Hawaiian Hawk). In addition, any clearing that may occur should consider surveys to ensure no impacts to the federally endangered hoary bat that may be roosting in trees, particularly during the reproductive period. Consultation with US Fish and Wildlife Service is suggested to determine if there are significant floral or faunal resources in the area to be impacted.”

Noise from the rotor wash of a helicopter can distract birds and induce them to leave an area, which can interrupt life-cycle activities and modify behavior. However, birds tend to avoid the disturbance and then return to normal after the helicopter leaves. If disturbance is frequent, birds will come somewhat habituated to frequent noise (Whittaker and Knight 1998). In general, because the noise will be intermittent and will last only about 5 minutes during takeoff and landing, the effects will be very limited. Another potential impact associated with helicopters is bird collisions, which can injure or kill birds and even harm aircraft. The U.S. Army has maintained a long record of helicopter
operations in Hawai‘i and has only recorded one documented helicopter strike of a bird since 2002 (U.S. Army 2011). Furthermore, the National Park Service utilizes helicopters extensively (and without any reported adverse effect) in its natural resource management efforts in far more sensitive areas, which are parts of the Park that are forested, zoned for Conservation and inhabited by multiple species of endangered forest birds. Given the general scarcity of native birds in the area and the planned landing schedule, impacts to native birds from helicopters are unlikely. No lighting is involved and impacts to native seabirds, which can be attracted to lighting and suffer collisions as a result, would not occur.

The landings would take place in the daytime and impacts with Hawaiian hoary bats, which would be very likely to avoid the helicopter anyway, would not occur. However, clearing of the low trees and shrubs for the Helicopter Landing Area does have some potential to disturb bats during the roosting season from May 15 to August 15 when they are vulnerable. Although hand clearing for the 100 by 100-foot area required to emplace and operate a 15 by 15-foot platform is so minimal that the chance of encountering a roost is very low nil, it is recommended that clearing of trees or shrubs taller than 10 feet take place outside the roosting period.

An important neighboring land use is Hawai‘i Volcanoes National Park, located directly adjacent. Lava has overrun most of this area. Native species as well as non-native species from Royal Gardens periodically colonize the area, often only to be overrun by fresh lava flows. The periodic helicopter landing would not be expected to have adverse impacts to the vegetation or ecosystems there.

3.1.4 Air Quality and Scenic Resources

Environmental Setting

Air quality in Puna is generally good, with periodic air pollution derived from volcanic emissions of sulfur dioxide, which convert into particulate sulfate and produce a volcanic haze (vog). This can blanket the area during south winds, which are particularly frequent in the winter.

The steep terrain of the kipuka in which Mr. Thompson’s house is situated, surrounded by lava and offering views of the coastline below, coupled with the usually sunny and breezy weather, offers a scenic experience for visitors. The site is somewhat difficult to see from commonly accessible public viewpoints because of its distance from roads. Royal Gardens is not cited as an example of natural beauty within the Puna District in the General Plan, and the Puna Community Development Plan does not identify any scenic resources in the area. The General Plan does contain in Section 7 on Natural Beauty the following goals and policies:

7.2 GOALS
(a) Protect, preserve and enhance the quality of areas endowed with natural beauty, including the quality of coastal scenic resources.
(b) Protect scenic vistas and view planes from becoming obstructed.
(c) Maximize opportunities for present and future generations to appreciate and enjoy natural and scenic beauty.
7.3 POLICIES
(h) Protect the views of areas endowed with natural beauty by carefully considering the effects of proposed construction during all land use reviews.
(i) Do not allow incompatible construction in areas of natural beauty.

7.5.1 Puna
Along the coast of Puna district the black sand beaches and tidal ponds are noted features of natural beauty. The inland areas of Puna are lava land. Major areas of natural beauty are the 1960 Kapoho and the Pu'u O'o volcanic regions. The region is significant in that it represents the force of nature in altering the landscape feature into a cone and desolate field of lava.

The Puna Community Development Plan contains the following statement in Section 2 on Historic, Cultural and Scenic Resources:

c. Areas of scenic and cultural interest are accessible to the public in a manner that does not detract from their aesthetic, natural and cultural value.

Impacts and Mitigation Measures

The proposed action will not measurably affect air quality except minimally during landing and takeoff through helicopter exhaust. There are no sensitive receptors for this exhaust nearby and no adverse impacts would occur.

The sights offered to the visitors through landing at Mr. Thompson’s home are unique. No adverse scenic effects would occur, and the goals related to natural beauty in the General Plan or Puna Community Development Plan would not be violated.

3.1.5 Noise

Background and Environmental Setting

Mr. Thompson’s home is situated in Royal Gardens, adjacent to Hawai‘i Volcanoes National Park (HVNP or the National Park). Due to the lava disaster, he has the only occupied home within two miles in any direction. As shown in Figure 6, which is a map reproduced from the April 2011 Hawai‘i Volcanoes National Park Air Tour Management Plan Environmental Impact Statement Newsletter, Preliminary Alternatives for Public Comments, by the National Park Service and Federal Aviation Administration, this area experiences substantial helicopter and fixed wing tour traffic associated with lava viewing on the East Rift of Kilauea Volcano. Mr. Thompson’s home is within the area that was previously termed the Pu‘u O’o Concentrated Flight Zone, within the half-mile park buffer. Currently there are around 18,000 flights allowed annually under the annual tour aircraft authorization known as an interim operating authority (IOA), which allows for as many as 28,441 from 11 helicopter and 4 fixed wing operators. The IOA specifies various routes throughout the park that seek to avoid areas where most on-ground Park visitors are present. Nevertheless, during peak periods, the Park experiences up to 60 flights per day, and flights tend to circle multiple times at
Figure 6   Existing Tour Helicopter Routes
viewing areas and fly above neighboring communities. Five to fifteen flights per day pass over Mr. Thompson’s home.

Over the years since the Kilauea East Rift eruption began in 1983, air tours of the area have gradually increased. When contacted concerning the proposed landing site, HVNP officials provided a letter stating concerns (see Appendix 1a). They noted that the Park is designated a National Park and World Heritage Site/Biosphere Reserve due to its volcanic, ecological and cultural significance, and that the natural quiet and solitude is part of what visitors come to experience. In addition, park officials are charged with protecting critically endangered species that may be vulnerable to noise and designating wilderness areas and protecting park soundscapes for cultural uses and visitors, as discussed above.

Residents of the South Hilo and Puna Districts have also repeatedly expressed concern with the impacts of helicopter noise on the area on natural and cultural resources, HVNP and other recreational visitor experiences, and the peace and quiet of residents.

In response to a growing number of air tours over national parks across the country, Congress passed the National Parks Air Tour Management Act (NPATMA) of 2000, which directs the Federal Aviation Administration and the National Park Service to cooperatively develop Air Tour Management Plans (ATMPs), including one for HVNP, which is currently in preparation. The objective of the plan is to develop acceptable and effective measures to mitigate or prevent the significant adverse impacts of commercial air tour operations upon the natural and cultural resources and visitor experiences. Commercial air tour operations are defined as any flight conducted for compensation or hire in a powered aircraft, where a purpose of the flight is sightseeing over a national park or within ½-mile outside the boundary of any national park, during which the aircraft flies below 5,000 feet above ground level (AGL).

Public meetings held in three locations in East Hawai‘i were attended by several dozen people total who voiced a number of specific concerns, although the substantial economic and employment contribution of the tour industry has also been recognized by some. Most of the problems stem from the routes helicopters must use to visit the eruption and ocean entry areas. Suggestions have ranged from banning air tours altogether, to modifying the routes and adding mitigation, to allowing the status quo. Some residents prefer routes near the ocean, while others want helicopters restricted to unpopulated areas. Some want prescribed and fixed routes, while others would like variation to avoid having a few residents carry all the burden of helicopter noise.

HVNP has developed four draft alternatives for the ATMP that have the following elements:

- Maximum and minimum altitudes
- Caps on numbers of overflights
- Weather routes
- Competitive bidding – must bid if set caps on numbers
- Quiet Technology
- Curfews
- Reporting requirements for fee payments

*Helicopter Landing Area at Royal Gardens Environmental Assessment*
• Adaptive Management
• Pilot Education

In terms of schedule, 2011 was occupied with the public review of draft alternatives (accomplished) and revision of these draft alternatives (in process). An impacts analysis to be conducted in 2012 will be included in a Draft EIS.

In addition to the ATMP, it is important to review references to noise in the Hawai‘i County General Plan and Puna Community Development Plan (PCDP). In Section 4, Environmental Quality, the General Plan states that:

“Loud noises are known to have adverse physiological and psychological effects on people. Noise that is loud or out of character, especially from low flying aircraft, is critically disturbing to residents.”

Both the General Plan and the PCDP are silent on the issue of helicopters per se, but the General Plan notes in Environmental Standards 4.4(a) in a reference to pollution that may be broadly construed to include noise pollution that:

“Pollution shall be prevented, abated, and controlled at levels that will protect and preserve the public health and well being, through the enforcement of appropriate Federal, State and County standards.”

In the PCDP, it is stated in Goal 2.1.1, related to Historic, Cultural and Scenic resources, that:

“Tourism in Puna is compatible with historic and natural resources and not intrusive into the area’s communities.”

Impacts of Proposed Action

It is clear that despite the benefits helicopter tours provide for visitors and the local economy, many residents and land managers view them as annoying and perhaps even unhealthful and damaging to the tranquility of the area. However, a helicopter stop at Mr. Thompson’s home, if permitted by the Hawai‘i County Planning Commission, would be part of an overall volcano tour with a route that essentially does not differ substantially from any other eruption tour that the company conducts, which already overfly Royal Gardens. The only difference involves a landing at the residence of Mr. Thompson using flight paths that do not affect any additional residences. Because of the time spent on the ground, Paradise Helicopters would actually conduct one fewer tour per day.

Paradise Helicopters has stated that it makes every attempt to “fly friendly” and avoid undue impacts to Park visitors, residents, or on-ground resources. Recognizing that the only way to avoid impacts altogether is to cease operations, there are still a number of practices that mitigate impacts, including observing minimum altitudes and flying as appropriate and reasonable over unpopulated areas and/or urban areas with existing high levels of noise.
In the future, the number, type, routes and hours of operations of tour helicopters visiting the Kilauea East Rift eruption area will be dictated by the final alternative decided upon in the ATMP, which should be completed within the next two years. Some alternatives would prevent use of this airspace by tour helicopters, because the site is within ½ mile of the National Park, and the tour would not be permissible. Others would allow it, in some cases with route modifications, pilot/visitor education, quieter aircraft, and/or other modifications.

Paradise Helicopters understands the jurisdiction of the ATMP and if future rules prohibit air tours to overfly the area, the company will forego the privileges for landing that might be granted as part of the Special Permit process.

The effect of helicopter noise on wildlife is discussed in Section 3.1.3, above.

3.2 Socioeconomic and Cultural

3.2.1 Socioeconomic Characteristics and Recreation

Royal Gardens and all surrounding areas have been almost completely abandoned because of the ongoing lava flow. Other than the issue of helicopter noise discussed above, there are few potential socioeconomic impacts associated with the proposed action.

In a November 21, 2011 letter in response to early consultation (see Appendix 1a), Hawai‘i Volcanoes National Park expressed, among other issues, concerns regarding potential entry into the National Park by the tour visitors:

“If clients on the helicopter tour would be entering the park from this property on foot, it would be considered a commercial use and Paradise Helicopters would be required to apply for a Commercial Use Authorization from the park. Section 418 of the National Parks Omnibus Management Act of 1998, Public Law 105-391 (Section 418), authorizes the National Park Service (NPS) to issue commercial use authorizations (CUAs) to persons (referring to individuals, corporations, and other entities) to provide commercial services to park area visitors in limited circumstances. The CUA is used to provide for incidental use of park area resources by operators who provide commercial services originating and terminating outside of the park area. The permit system applies to all companies providing commercial visitor services to units of the National Park System.”

Other residents and agency officials also commented to the EA author in person that they believe visitors to Mr. Thompson’s residence have trespassed on private property in order to view active or cooled lava, which they believe to be a severe violation of the rights of the unfortunate owners of these properties who cannot be present to exclude such unauthorized visitation.

Paradise Helicopters has stated that it is not necessary for the success of the tours for visitors to enter the National Park (entry is actually difficult due to brush) or to enter private property. They are
willing to have a condition placed on the Special Permit that would require the tour operators to prevent such incursions.

The National Park also made the following statement:

“Socioeconomics/environmental justice should also be an impact topic considered in the development of your EA. During our ATMP EIS public meetings, we have received extensive feedback from the public regarding the potential socioeconomic impacts and consideration of environmental justice as related to low-flying aircraft.”

This analysis conflates the applicant's request to descend for a landing from an already utilized flight route on an existing tour and ascend back to that route with the larger issue of air tours in Puna. The lack of any homes within three miles of the landing site would prevent additional socioeconomic impacts related to noise, including those on low-income and minority populations addressed in environmental justice.

### 3.2.2 Cultural and Historic Resources

**Background**

The cultural value of the project site was assessed by discussing its current resources and historical uses and context, and then determining whether it supports any traditional gathering uses, is vital for access to traditional cultural sites, or has other important symbolic associations for native Hawaiians or other cultural groups.

The project site is located in an upland area of the Puna District, which is one of the six major traditional districts on the island that remain intact today. This division of districts (and likely of all of the smaller land divisions) extends back in time to at least A.D. 1475, in the time of Chief Liloa. The districts were brought together under a single ruler when ‘Umi a Liloa came to power in about A.D. 1525 (Maly 1999). Barrere (1959) summarized the Precontact politics of the Puna District as follows:

“Puna, as a political unit, played an insignificant part in shaping the course of history of Hawai‘i Island. Unlike the other districts of Hawai‘i, no great family arose whose support one or another of the chiefs seeking power had to depend for his success. Puna lands were desirable, and were eagerly sought, but their control did not rest upon conquering Puna itself, but rather upon control of the adjacent districts, Ka‘u and Hilo.”

The first people probably began utilizing the agricultural resources of upland Puna District during the early expansion period of Hawai‘i Island ca. 600-1,100 A.D. (Burtchard and Moblo 1994). As populations increased in more desirable locations political competition would have pressured people to settle the upland and more marginally agricultural areas of the Puna District.
The entire district of Puna has always been dominated by the activities of Kilauea Volcano. A great lava flow covered much of this part of Puna in the era prior to western contact. Termed by geologists the ‘Aila’au flow, it occurred 260-450 years before the present. There appears to be no specific legend concerning the flow that has survived to the present, but based on specific ethnographic analogy (with historic lava flows in Kona and Ka’u) it is likely that this flow was a storied event with cosmologic and mythical associations.

The Puna District generally remained under the control of outside chiefs until the time of Kalaniʻōpuʻu’s reign in the 18th century. Shortly before his death in 1782, Kalaniʻōpuʻu’s dominion over Puna and portion of Kaʻu was challenged by the Puna chief ‘Imakakoloa. Kalaniʻōpuʻu resolved the unrest, but following his death the disposition of Puna once again became an issue until Kamehameha I successfully brought the entire island under his control in 1773.

Much of the Lower Puna area, well-populated by Hawaiians before 1800, was nearly abandoned in the 19th century, with the notable exception of Kalapana and few other coastal areas. Cattle raising and agriculture dominated land use in Puna in the late 1800s. Despite such economic ventures, the population in Puna remained the lowest of any district on the island, reaching a nadir of 834 in 1890. The advent of plantation sugar in Puna in about 1900, and for a relatively short period of time, timber production, brought with it villages of immigrant laborers, and Puna’s population began to slowly grow. Growth has accelerated since 1970 as a result of the creation and occupancy of tens of thousands of residential agricultural lots in substandard subdivisions. The low costs and relaxed standards have drawn thousands of residences, including retirees, commuters to Hilo, and individuals and families relying on transfer payments for income. Many native Hawaiians have come to occupy the variety of communities that make up Puna and have thus spurred an interest in the perpetuation and revival of cultural practices.

In general the mid-elevation parts of Puna possess a variety of floral and lithic resources that have documented cultural uses, primarily the gathering of plants for medicinal and ceremonial purposes (Burtchard and Moblo 1994; Maly 1999). Traditional gathering practices in Puna are being perpetuated and revived.

**History of the Kalapana Area**

An oral history project carried out by the Department of Anthropology at the University of Hawai‘i at Hilo in the late 1980s resulted in a document entitled *The People of Kalapana, 1823-1950* (Langlas 1989). Most of the material in this section is abstracted from this comprehensive report. The study included all the *ahupua‘a* in the Kalapana area from Kikala to Apua, including the Pulama and Poupou Ahupua‘a in which the Royal Gardens subdivision was developed.

Hawaiian settlement of the area began many centuries ago, as attested by oral traditions, and was focused mostly on the shoreline. Archaeological work cited in Langlas indicates that prior to Western contact, Hawaiians had residences both on the coastal flat and a few miles inland, at least in nearby Kamoamoa. It is not clear whether they resided their permanently or just temporarily in association with farming. The most important reason that settlement in the Kalapana area was on the coast was
the availability of fresh food from the sea. Fishing was on the shore, which also hosted gathering of shellfish, crabs and limu, and from canoes. Because of the rough, rocky shores, the inhabitants used canoe “ladders” made of ‘ōhi‘a poles that required great skill and experience to safely launch and land canoes. Taro and breadfruit were major crops of the better watered coastal areas in the east but especially in the forested uplands. Bananas, sugar cane, and ‘awa were also grown in the uplands.

Written knowledge of the area begins with the account by Reverend William Ellis of his 1823 tour around Hawai‘i Island. He reports having preached on a Sunday three times in Kealakomo (to the southwest of the project site), which he described as populous, but desolate, and occupied with fish drying (Langlas 1989:189-190). He passed through and mentioned Wahaula luakini heiau and Kalapana, but did not mention Pulama.

Chester Lyman provided a description of Kealakomo some twenty years later in 1846:

“We passed a potato patch in the broken lava which exceeded anything I had seen. Not a particle of soil was anywhere to be seen, and the holes dug among the stones to receive the potatoes were some of them six feet in depth—thus securing a degree of moisture and shelter from the sun—though no more soil than at the surface

“There are but few people in this region. They are miserably poor, & for some time past have been almost in a state of famine. They get their living by fishing, making salt, & getting fern roots & a few potatoes in the mountains. Their salt works are on the naked lava near the sea, the water of which is evaporated in little cups or vessels made of the Ki leaf & holding of course but a minute quantity of water. These are laid in parallel rows over several acres, & the water poured into them a little at a time from Calabashes. The process is an extremely slow one, tho’ the salt is said to be excellent for the table. It is sold at the exceedingly low prices of 25 cts a bag, which will contain I sh’d judge ½ a bushel or more” (Lyman 1924:103).

A total of seven grants were awarded between 1854 and 1892, with Grants 1000 and 1872 extending into the lower Royal Gardens area that contains the project site. This indicates that the land near the project site may have had utility for farming. Grant 1872 was owned by the Ka‘awaloa family and used to farm taro (Langlas n.d. 25). While sweet potato could be grown near the coast, taro had to be grown up high. As late as the 1920s, oral histories indicate that most families in the Kalapana area had a taro patch “up in the hills” (Langlas 1989: 26).

Langlas analyzed tax records and determined that population in the Kalapana area declined from as much as 3,000 in 1823 to only about 100 in 1971. A big factor in the shrinking of the population in the western portion was the giant earthquake, with an associated subsidence of four to seven feet, and the tidal wave that struck the area in on April 2, 1968. Many of the coastal villages in southwest Puna were destroyed. Apua was abandoned, and Kealakomo was decimated. By 1891, there were only perhaps two families west of Pulama. Remarkably, less than 5 percent of the Kalapana area population at that time was non-Hawaiian. The entire Kalapana area had about 300 residents in 1910, with a few still present in the western portion from Apua to Kamoamoa. After this date, records do
not indicate the geographic breakdown, but by 1971 there were only 100 total, with the western area totally abandoned (and incorporated into the Hawai‘i Volcanoes National Park).

Contemporary oral histories indicate that around 1900 there were permanent residences inland, where soil was better. The diverse native species of upland areas would certainly have provided gathering materials. The land also had modern economic value for harvesting pu‘ulu, the hairy orange fibers at the base of tree ferns used for stuffing mattresses and pillows, and raising livestock such as goats and cattle for sale. Most Hawaiians later moved to the coast except for a few spots in Kikala and Keokeo, east of Kalapana and well away from the project site. But even as late as the mid-20th century there was cultivation of taro in the upland forests:

“Small trees were cut down or barked so that they would die and lose their leaves. Large tree were left in place. The dried brush was not burned. (James Ahia said that if they had burned the cleared patch, the whole forest would have caught fire.) Then the taro huli [the tops above the edible corms] were planted by making a hole with the digging stick (‘o’o), putting in the huli and firming the soil around it. After that it was just a matter of weeding a couple of times until the leaves shaded the ground enough to discourage weeds, and waiting for the corms to get big enough to harvest. On the deep soil parcels like Kalewa, the trees were mostly introduced types, such as guava and kukui. But on the rocky state land at Kaola, the native forest was less disturbed and consisted mostly of ohi‘a. There, a site for a new taro patch was picked where the ‘ie‘ie ...vines grew thick in the trees...” (Langlas 1989: 26).

During the same era that population left the drier western areas and the uplands became less used, Hawai‘i Volcanoes National Park began expanding, acquiring property gradually from all the western ahupua‘a and coastal Pulama and Poupou between 1911 and 1953. After 1900, the inhabitants lived in the eastern ahupua‘a but used the western area for fishing, gathering salt, and other resources. The population remained almost entirely Hawaiian until the 1950s, isolated from the rest of the island at the end of a rural road. Local families intermarried and had their own churches and a grade school in Kalapana. The population steadily dwindled but the Hawaiian community remained intact. Changes occurred when the Park built Chain of Craters Road in 1965, bringing a flood of tourist activity. This same year the grade school was closed. In the 1970s land speculators built infrastructure-deficient subdivisions including Kalapana Gardens, Royal Gardens, Black Sands Subdivision, Kalapana Shores, and Pacific Paradise. Royal Gardens Subdivision was created in March 1973 by Norman Inaba and consisted of 1,425 1-acre lots (Community Management Associates 1992:15). By the 1980s, outsiders outnumbered the local population in Kalapana. The somewhat sparse and neat vegetation grazed by loosely roaming stock was replaced by lush vegetation from the landscaped yards. Even the shoreline changed through gradual subsidence, punctuated by a dramatic three-foot drop associated with a 7.2-magnitude earthquake in 1975, eroding Kaimu Black Sands Beach.

The 1980s and 1990s saw most of the land from Kalapana westward engulfed by lava. The historic features of the western lands, which were concentrated on the coast and included Punalu‘u (or Queen’s Bath) and the old canoe-landing site at Ki, have all disappeared. Royal Gardens has been largely destroyed, separating Mr. Thompson’s house by a three-hour hike from the nearest road.

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According to the National Park:

“The Southeast Rift Zone is associated with the birth and creation of Hawaiian culture, as the sites of new lava flows are felt to be some of the most sacred places. The Kupuna group, an informal group of Hawaiian elders, has stated that they feel the sight and presence of these low-flying aircraft to be culturally inappropriate.”

In response to early consultation, the National Park stated:

“The area within the park that borders your project is a section of 42,000 acres of parklands known as the Kalapana Extension. This section of the park is governed by specific 1938 legislation regarding its use by Native Hawaiians for fishing and homesteading. We encourage you to consult with the Kalapana Fishing Ohana regarding any potential for cultural impacts” (see letter in Appendix 1a).

Accordingly, project planners obtained contact information from the National Park for members of the Ohana and other Kalapana cultural and community organizations, including members of the families whose ancestors may have utilized the Royal Gardens area. On December 5, 2011, a letter was mailed to 14 individuals and phone messages were left with several individuals as well. One letter was returned, and it is presumed that the other letters were received by the intended recipients. As of January 10, 2012, one response was received (from Andrea Kaawaloa-Okita), which is included in Appendix 1a in full and excerpted below:

“On behalf of the Kalapana Fishing Council, a grassroots organization formed in September of 2000 to facilitate a longstanding partnership between Hawai‘i Volcanoes National Park and the Kalapana Community, we express concern about the precedence of permitting a remote helipad. The Island of Hawaii has been excessively exploited for tour related activities. The island does not need to further exploit remote and inaccessible areas for use by tourist clientele. The approval of remote helipad sites for the purpose of servicing the needs of residents is an acceptable uses. The establishment of a helipad for tour activities would create an unnecessary and adverse impact to any pristine and remote area of the island.”

Archaeological Resources

In response to early consultation, the National Park stated:

“The proposed landing site is located adjacent to the Puna-Ka‘ū Historic District of the park, which is on the National Register of Historic Places. We recommend that you conduct an archeological survey of the site prior to ground disturbance, or locate the landing site on already disturbed land” (see letter in Appendix 1a).

In response to a request for a determination of no-effect, Hawaii Island archaeologist Theresa Donham visited the 100 by 100-foot site on November 15, 2011, and determined that the
emplacement and construction of the landing area would have no effect on historic properties, because none are present (see letter in Appendix 1a).

However, as a further precaution, in the unlikely event that human skeletal remains, undocumented archaeological resources, or cultural or traditional remains are encountered during clearing of the 100 by 100-foot area or emplacement of the helicopter landing platform, work in the immediate area of the discovery shall be halted and SHPD contacted as outlined in Hawai‘i Administrative Rules 13§13-275-12.

_Cultural Resources and Traditional and Customary Practices_

The project site itself, a fraction of an acre in the yard of Jack Thompson, the last inhabitant of Royal Gardens, does not reflect the cultural history of the area. Some common native plants that were used for gathering can be found amid the landscaping and invasive species, but no archaeological features or evidence of the cultivation of taro, breadfruit, bananas, sugar cane, and ‘awa are present. No potentially significant natural features such as pu‘u, springs, or cave are present. As part of the early consultation process, the Office of Hawaiian Affairs and the State Historic Preservation Division were contacted in an effort to obtain information about any potential traditional cultural properties that might be present at the project site. Neither agency has supplied any information relative to the existence of traditional cultural properties in the immediate vicinity of the project site, nor did they provide any information indicating current use of these sites for traditional and customary practices. No specific valuable natural, cultural or historical resources have been documented to be present.

However, it is also true that both the National Park, which is entrusted with caring for natural and cultural resources over a very large area directly adjacent to the property, and a representative of the Kalapana Fishing Council, a grass-roots organization with deep ties to the cultural resources of the region, have misgivings about the general idea of helicopter landings in the area. Although there may be little in the way of additional measurable effects on cultural resources or practitioner use involved with brief stopovers in this an area that, although remote, is already flown over by these and other helicopter, there is a sense that landing here creates intangible cultural effects. As such, it is currently difficult to assess whether mitigation in the form of a maximum number of flights, hour restrictions, or other measures could effectively reduce impacts.

The National Park, the Kalapana Fishing Council, and the Office of Hawaiian Affairs were supplied a copy of the Draft EA in order to solicit comments that might provide additional insight into potential effects and mitigation.

3.3 Utilities and Public Infrastructure and Services

No roads, public utilities, public infrastructure or public services are available at the isolated lot.

The single-family residence on the site is serviced by a catchment system. Water is not required for the proposed landing area. Bottled water is available for the visitors at the airport in Hilo and there is no requirement for water use on the site.
There is no public sewer in this rural area. While the single-family residence is served by a cesspool system, there will be no restroom facilities offered to the helicopter crew or passengers, as is typical on a brief helicopter tour.

Police and fire services are available at the Pahoa Police and Fire Stations, approximately 12 miles northeast of the subject property. However given the remoteness of the site and inaccessibility via roadways, no fire or police service can be provided. It is not anticipated these services would normally be needed for the proposed use. Just as with all helicopter tours or work operations in isolated areas, which occur thousands of times per day all over the Hawaiian Islands, rescue in the event of a medical emergency or crash would not be possible via roadways.

3.4 Secondary and Cumulative Impacts

The project will not lead to any secondary effects. Other than the issue of noise, the cumulative effects of which are dealt with in Section 3.1.5 above, there are essentially no adverse effects of the project to accumulate with those of other projects in the area, of which there are also none.

3.5 Required Permits and Approvals

It currently appears that because of the size and nature of the portable helicopter landing platform, no Plan Approval or building permits are necessary. A Special Permit from the County of Hawai‘i, Planning Commission is required.

According to an email from Gordon Wong of the Federal Aviation Administration (see Appendix 1a):

“If a permanent heliport site will be established, under FAR Part 157, the proponent must notify the FAA through submittal of FAA Form 7480-1 Notice of Landing Area Proposal. The FAA will conduct an airspace study to determine the efficient use of airspace.”

Calvin Dorn, President of Paradise Helicopters, stated that the site is temporary and will thus not require submittal of a Notice of Landing Area Proposal, but he is currently investigating the issue.

3.6 Consistency With Government Plans and Policies

3.6.1 Hawai‘i State Plan

Adopted in 1978 and last revised in 1991 (Hawai‘i Revised Statutes, Chapter 226, as amended), the Plan establishes a set of themes, goals, objectives and policies that are meant to guide the State’s long-run growth and development activities. The three themes that express the basic purpose of the Hawai‘i State Plan are individual and family self-sufficiency, social and economic mobility and community or social well-being. The proposed project would promote these goals by enhancing a business that supports 35 employees on the Island of Hawai‘i, thereby enhancing quality-of-life and
community and social well-being. No direct, measurable adverse effects to community well-being would occur, but many in the community express opposition to tour helicopter operations in general.

3.6.2 Hawai‘i State Land Use Law

All land in the State of Hawai‘i is classified into one of four land use categories – Urban, Rural, Agricultural, or Conservation – by the State Land Use Commission, pursuant to Chapter 205, HRS. The property is in the State Land Use Agricultural District, but Conservation District land is adjacent to the west. The rules that administer Hawaii’s EIS law state in §11-200-6(b)(1)(G) that actions that involve “… construction of new, or the expansion or modification of existing helicopter facilities within the State which by way of their activities may affect any land classified as conservation district by the state land use commission…” may be subject to an EA or EIS. As part of its review of the Special Permit application, the Hawai‘i County Planning Department determined that the project required an EA because it is a helicopter facility that could potentially affect Conservation District Land, which lies to the west and is under the control of the National Park. No structures or surface use of the Conservation District land is proposed, and there is no requirement for a Conservation District Use Permit. The stop at Jack Thompson’s house will be part of an already existing tour that already overflies Conservation District land. Aside from noise impacts, which discussed above in Section 3.1.5, there will be no impacts on land in the Conservation District, as confirmed by the memo from the Department of Land and Natural Resources in Appendix 1a.

The use requires a Special Permit from the Windward Planning Commission of the State of Hawai‘i. A summary of the applicant’s discussion of the relationship of the project to Special Permit criteria contained in the Special Permit application is provided below.

Land Use Objectives

The State Land Use Law and Regulations are intended to preserve, protect, and encourage the development of lands in the State for those uses which they are best suited in the interest of public health and welfare.

In recognizing that lands within the Agricultural District might not be best suited for agricultural activities and yet classified as such, and that certain types of uses might not be strictly agricultural in nature, yet reasonable is this district, the legislature has provided for the Special Permit process to allow certain unusual and reasonable uses within the agricultural district.

In this situation, the project site is rocky and does not have soil characteristics that are considered important from an agricultural resources perspective. The remoteness and inaccessibility makes the site infeasible for agricultural purposes. There are no surrounding agricultural uses that could be affected by the proposed use of this 1.003-acre lot. As such, the proposed use would not be detrimental to the agricultural resources of the County of Hawai‘i or the State of Hawai‘i. Therefore, the removal of a small portion of a 1.003-acre agriculturally zoned property for occasional helicopter landings will neither deplete nor diminish the County of Hawai‘i’s agricultural resources.
In addition, the loss of 0.2 acres of agricultural district land isolated from roadway access will not obviate or be in conflict with the agricultural goals and policies of the General Plan nor remove any active or potentially active agricultural lands from the County’s agricultural land inventory.

**Impacts to Surrounding Area and Character**

The proposed use would not adversely affect surrounding property. The area is abandoned because of lava inundation to the subdivision and roadway access points. There are no other residences within two miles of the subject property. Should the eruption activity cease in the future and subdivision roadways are cleared so that residents could again inhabit this subdivision, the Planning Commission could reconsider the impacts of this activity on this parcel. The nature of the proposed use is such that no vehicular traffic will be generated.

**Burdens Upon Public Agencies**

The use would not unreasonably burden public agencies to provide roads and streets, sewers, water, drainage, school improvements, police or fire protection.

Water is provided to the site by rainfall and the use of catchment for the residence. No water service is required or requested for the Special Permit operation. No utilities are required for the helicopter landing area. No sewer or drainage improvements are required by the proposed use. The area is not affected by drainageways or floodplains as designated on the Flood Insurance Rate Map (FIRM).

No vehicular traffic is associated with the proposed use. There will be no increase in population that would impact school services or operations. The proposed use will not generate the need for additional police, fire or other public agency services.

**Unusual Conditions, Trends, and Needs**

Unusual conditions, trends, and needs have occurred since the district boundaries and regulations were established. While the subject property is located within the agricultural district, the site has been isolated by volcanic eruptions that have inundated the subdivision and blocked traditional vehicular access to the site.

Unusual conditions have arisen in this particular area of Puna. With the eruption of Pu‘u O‘o there is an opportunity for tourism that did not previously exist. The applicants recognize there are unique opportunities presented by this volcanic activity. This area can help sustain tourism in Puna which can benefit this local helicopter company and its 35 employees on the Big Island. This use was not anticipated at the time the property was placed in the Agricultural District.

**Suitability of Proposed Use**

The land upon which the proposed use is sought is unsuited for the uses permitted within the district. The isolation of the area caused by the lava inundation prevents traditional access to the site and
limits its potential for traditional agricultural activities. The proposed use provides the landowner with a reasonable method of access to his property that previously did not exist.

Altered or Changing the Essential Character

The proposed use will not substantially alter or change the essential character of the land and the present use. The land has been and will continue to be used for residential purposes and a rural lifestyle. The use of a 15 by 15-foot area for a helicopter landing area within a 100 by 100-foot clearing will not alter the land or its basic function and use. Should the eruption stop and the subdivision again obtain road access, the landing platform can be removed with no permanent impact to the agricultural potential of the site or surrounding area.

3.6.3 Hawai‘i County Zoning, LUPAG and Special Management Area

Hawai‘i County General Plan Land Use Pattern Allocation Guide (LUPAG). The LUPAG map component of the General Plan is a graphic representation of the Plan’s goals, policies, and standards as well as of the physical relationship between land uses. It also establishes the basic urban and non-urban form for areas within the planned public and cultural facilities, public utilities and safety features, and transportation corridors.

The General Plan Land Use Pattern Allocation guide map designates this area as “extensive agriculture”. With issuance of a Special Permit, the proposed use would not be incompatible with this designation.

The County zoning for the subject area is Agriculture 1-acre (A-1a). Again, with issuance of a Special Permit, the proposed use would not be incompatible with this designation.

The project site is situated outside the County’s Special Management Area (SMA), about two miles from the shoreline.

3.6.3 Hawai‘i County General Plan and Puna Community Development Plan

The General Plan for the County of Hawai‘i is a policy document expressing the broad goals and policies for the long-range development of the Island of Hawai‘i. The plan was adopted by ordinance in 1989 and revised in 2005 (Hawai‘i County Department of Planning). The General Plan itself is organized into thirteen elements, with policies, objectives, standards, and principles for each. There are also discussions of the specific applicability of each element to the nine judicial districts comprising the County of Hawai‘i. The Puna Community Development Plan (CDP) encompasses the judicial district of Puna, and was developed under the framework of the February 2005 County of Hawai‘i General Plan. Community Development Plans are intended to translate broad General Plan Goals, Policies, and Standards into implementation actions as they apply to specific geographical regions around the County. CDPs are also intended to serve as a forum for community input into land-use, delivery of government services and any other matters relating to the planning area.
The request will not be contrary to the General Plan and the Puna Community Development Plan.

The County General Plan ECONOMIC element, goals and polices state the following:

**ECONOMIC GOALS**
- Provide residents with opportunities to improve their quality of life.
- Economic development and improvement shall be in balance with the physical and social environments of the island of Hawaii.
- The County of Hawaii shall strive for diversity and stability in its economic system.
- The County shall provide an economic environment which allows new, expanded, or improved economic opportunities that are compatible with the County’s natural and social environment.

**POLICIES**
- The County of Hawaii shall strive for an economic climate which provides its residents an opportunity for choice of occupation.
- The County of Hawaii shall strive for diversification of its economy by strengthening existing industries and attracting new endeavors.

Discussion: The proposed uses provide an economic opportunity for the owner of this agricultural land. In addition it provides opportunities for the owners of the helicopter company to support the tourism activities associated with the volcanic eruption in East Hawai‘i. While others in this subdivision have had to abandon their properties, this owner has a unique opportunity to benefit from being one of the few remaining areas where visitors can witness the power and creation of volcanic activity.

Consistency with elements of the General Plan and Puna Community Development Plan related to Noise and Scenic Resources are discussed in other sections of this EA.

**PART 4: DETERMINATION**

The applicant has determined in consultation with the Hawai‘i County Planning Department that the proposed helicopter land area would not significantly alter the environment, as impacts would be minimal, and the agency may to issue a Finding of No Significant Impact (FONSI). This determination will be reviewed based on comments to the Draft EA, and the Final EA will present the final determination.

**PART 5: FINDINGS AND REASONS**

Chapter 11-200-12, Hawai‘i Administrative Rules, outlines those factors agencies must consider when determining whether an Action has significant effects:
1. The proposed project will not involve an irrevocable commitment or loss or destruction of any natural or cultural resources. No valuable natural or cultural resources would be committed or lost.

2. The proposed project will not curtail the range of beneficial uses of the environment. The proposed project expands and in no way curtails beneficial uses of the environment, by providing an economic opportunity with minimal additional impact.

3. The proposed project will not conflict with the State’s long-term environmental policies. The State’s long-term environmental policies are set forth in Chapter 344, HRS. The broad goals of this policy are to conserve natural resources and enhance the quality of life. The project is not major and fulfills aspects of these policies calling for maintaining environmental quality while allowing economic opportunities.

4. The proposed project will not substantially affect the economic or social welfare of the community or State. The project will not impose any additional impacts on social welfare.

5. The proposed project does not substantially affect public health in any detrimental way. The proposed project involves an addition to an already existing tour that will not pose any additional noise impacts or other public health concerns.

6. The proposed project will not involve substantial secondary impacts, such as population changes or effects on public facilities. No adverse secondary effects are expected to result from the proposed action.

7. The proposed project will not involve a substantial degradation of environmental quality. The project will not degrade the environment in any substantial way.

8. The proposed project will not substantially affect any rare, threatened or endangered species of flora or fauna or habitat. No endangered species of flora or fauna are present on the project site or would be affected in any way by the project.

9. The proposed project is not one which is individually limited but cumulatively may have considerable effect upon the environment or involves a commitment for larger actions. The project is not related to additional activities in the region in such a way as to produce adverse cumulative effects or involve a commitment for larger actions.

10. The proposed project will not detrimentally affect air or water quality or ambient noise levels. The proposed project involves an addition to an already existing tour that will not pose any additional noise impacts.

11. The project does not affect nor would it likely to be damaged as a result of being located in environmentally sensitive area such as a flood plain, tsunami zone, erosion-prone area, geologically hazardous land, estuary, fresh water, or coastal area. Although the project is located in an area with volcanic and seismic risk, the entire Island of Hawai‘i shares this risk, and the project is not imprudent to implement.

12. The project will not substantially affect scenic vistas and viewplanes identified in county or state plans or studies. No scenic vistas and viewplanes identified in the Hawai‘i County General Plan will be adversely affected by the project.

13. The project will not require substantial energy consumption. The project involves more energy use because of an additional landing and takeoff on an existing tour that consumes additional fuel, but in the context of visitor tours, the use is not significant.
REFERENCES


Hawai‘i County Planning Department. 2005. The General Plan, County of Hawai‘i. Hilo.


ENVIRONMENTAL ASSESSMENT

Helicopter Landing Area at Royal Gardens

APPENDIX 1a

Comments in Response to Early Consultation and Correspondence with State Historic Preservation Division
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October 14, 2011

Mr. Ron Terry  
Principal  
Geometrician Associates  
P. O. Box 396  
Hilo, Hawai‘i 96721

Dear Mr. Terry:

SUBJECT: EARLY CONSULTATION FOR ENVIRONMENTAL ASSESSMENT FOR SPECIAL PERMIT FOR HELICOPTER LANDING AREA; TAX MAP KEY: (3)1-1-114:0422, ROYAL GARDENS SUBDIVISION, PUNA DISTRICT, ISLAND OF HAWAI‘I

Staff, upon reviewing your letter of October 6, 2011, does not anticipate any significant impact to traffic and/or public safety concerns.

Thank you for allowing us the opportunity to comment.

If there are any questions regarding this matter, please contact Captain Samuel Jelsma, Puna District Patrol Commander, at 965-2716.

Sincerely,

[Signature]

HENRY C. TAVARES, JR.  
ASSISTANT POLICE CHIEF  
AREA 1 OPERATIONS

SJ:ll
110682

“Hawai‘i County is an Equal Opportunity Provider and Employer”
Mr. Ron Terry, Principal
Geometrician Associates
P.O. Box 396
Hilo, Hawaii 96721

Dear Mr. Terry:

SUBJECT: Early Consultation for Environmental Assessment for Special Permit for Helicopter Landing Area, Royal Gardens Subdivision, Puna District, Island of Hawaii
TMK: (3) 1-1-114:022

Thank you for allowing us to review and comment on the subject document. The document was routed to the various branches of the Environmental Health Administration. We have no comments at this time, but reserve the right to future comments. We strongly recommend that you review all of the Standard Comments on our website: www.hawaii.gov/health/environmental/env-planning/landuse/landuse.html. Any comments specifically applicable to this application should be adhered to.

The same website also features a Healthy Community Design Smart Growth Checklist (Checklist). The Hawaii State Department of Health, Built Environment Working Group, recommends that State and county planning departments, developers, planners, engineers and other interested parties apply the healthy built environment principles in the Checklist whenever they plan or review new developments or redevelopments projects. We also ask you to share this list with others to increase community awareness on healthy community design.

If there are any questions about these comments please contact the Environmental Planning Office at 586-4337.

Sincerely,

GENEVIEVE SALMONSON, Acting Manager
Environmental Planning Office
October 19, 2011

Mr. Ron Terry  
Geometrician Associates  
PO Box 396  
Hilo, HI 96721

SUBJECT: EARLY CONSULTATION FOR ENVIRONMENTAL ASSESSMENT  
FOR SPECIAL PERMIT FOR HELICOPTER LANDING AREA  
TMK: (3) 1-1-114:022, ROYAL GARDENS SUBDIVISION

We have no comments to offer at this time in reference to the above-mentioned Early Consultation for Environmental Assessment. No final EA in necessary upon its completion.

DARREN J. ROSARIO  
Fire Chief

KT:lpc
Aloha Ron,

The area indicated is perpetually under threat from lava inundation as long as the eruption on the southeast flank of Kilauea volcano continues. However, we do not consider it such a significant risk to recommend prohibiting the landing area. We just want it on record that we notified you of the risk.

Thanks,

Quince Mento
Hawai‘i County Civil Defense
MEMORANDUM

TO: DLNR Agencies:
   ___ Div. of Aquatic Resources
   ___ Div. of Boating & Ocean Recreation
   X Engineering Division
   X Div. of Forestry & Wildlife
   X Div. of State Parks
   X Commission on Water Resource Management
   X Office of Conservation & Coastal Lands
   X Land Division – Hawaii District
   X Historic Preservation

FROM: Russell Y. Tsuji, Land Administrator

SUBJECT: Early Consultation for Environmental Assessment for Special Permit for Helicopter Landing Area

LOCATION: Royal Gardens Subdivision, Puna District, Hawaii; TMK: (3) 1-1-114:022
APPLICANT: Geometrician Associates, LLC on behalf of Paradise Helicopters

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by November 18, 2011.

If no response is received by this date, we will assume your agency has no comments. If you have any questions about this request, please contact Darlene Nakamura at 587-0417. Thank you.

Attachments

( ) We have no objections.
( ) We have no comments.*
( ) Comments are attached.

Signed __________________
Date: 11/21/2011

cc: Central Files

* No proposed land use in the Conservation District
-----Original Message-----
From: Gordon.Wong@faa.gov [mailto:Gordon.Wong@faa.gov]
Sent: Monday, November 14, 2011 8:50 AM
To: Ron Terry
Cc: Charles.Cantu@faa.gov; Debbie.Saito@faa.gov; Keith.Lusk@faa.gov; Larry.Tonish@faa.gov; Robert.Rabideau@faa.gov; Ron.V.Simpson@faa.gov; W.Kawehi.Lum@faa.gov; Barry.Brayer@faa.gov; henry.p.bruckner@hawaii.gov; chauncey.wongyuen@hawaii.gov; steven.j.santiago@hawaii.gov; Kandyce.Watanabe@faa.gov; Tyson.Price@faa.gov; Lloyd.E.Lewis@faa.gov; Steve.Wong@faa.gov
Subject: Re: Fw: Early consultation letter for Paradise Helicopters - FAR Part 157 Notice of Landing Area Proposal

Mr. Terry.

If a permanent heliport site will be established, under FAR Part 157, the proponent must notify the FAA through submittal of FAA Form 7480-1 Notice of Landing Area Proposal. The FAA will conduct an airspace study to determine the efficient use of airspace.

If this will be a private facility, the FAA does not have a requirement to review any environmental documentation; however, the State and/or City/County may have a requirement.

Please contact me if you have any questions regarding the Form.

Gordon Wong
FAA Honolulu Airports District Office
T: 808-541-3565
F: 808-541-3566
E: gordon.wong@faa.gov

(See attached file: FAA 7480-1.pdf)
Date: 11/16/11

Mr. Ron Terry
Principal
Geometrician Associates
PO Box 396
Hilo, HI 96721
cmail: rterry@hawaii.rr.com

Dear Mr. Terry:

It was brought to my attention that you are preparing an Environmental Assessment (EA) concerning a Helicopter Landing Area in the Royal Gardens Subdivision. On behalf of the Kalapana Fishing Council, a grassroots organization formed in September of 2000 to facilitate a longstanding partnership between Hawai‘i Volcanoes National Park and the Kalapana Community, we express concern about the precedence of permitting a remote helipad. The Island of Hawaii has been excessively exploited for tour related activities. The island does not need to further exploit remote and inaccessible areas for use by tourist clientele. The approval of remote helipad sites strictly for the purpose of servicing the needs of residents is an acceptable use. The establishment of a helipad for tour activities would create an unnecessary and adverse impact to any pristine and remote area of the island.

Please keep us updated as to the progress of this pursuit and we would kindly appreciate a copy of the EA upon completion.

Sincerely,

Andrea Kaawaloa-Okita
Chairman
Kalapana Fishing Council
November 21, 2011

Mr. Ron Terry
Geometrician Associates, LLC
P.O. Box 396
Hilo, HI 96721

Dear Mr. Terry,

Thank you for the electronic transmittal on November 9, 2011 regarding your request for information on the preparation notice for an Environmental Assessment (EA) related to a proposed helicopter landing site on a property directly adjacent to the park.

Hawaii Volcanoes National Park is designated a National Park and World Heritage Site/Biosphere Reserve due to its volcanic, ecological and cultural significance. Visitors come to their national parks to experience the natural quiet and solitude. Park managers are charged with protecting critically endangered species, designated wilderness and park soundscapes as well as limiting activities that cause unnecessary noise or threaten the natural quiet. The proposed landing site/helipad adjacent to the park boundary will potentially have direct impacts to the national park’s resources and visitors. Please specify in the EA the quantity of use that is expected at this site (daily, weekly, time of day). This information will relate directly to the level of impact anticipated to occur due to this action.

Since 2000, the National Park Service (NPS) has been working with the FAA to develop an Air Tour Management Plan and environmental impact statement (ATMP/EIS) for commercial air tour activities within the airspace of Hawaii Volcanoes National Park for 5,000’ agl and below including a ½ mile buffer zone beyond park boundaries, in order to mitigate or prevent the significant impacts of commercial air tour operations over the park. Congressional and NPS concerns regarding the impacts of over flights on the national parks led to passage of the National Parks Air Tour Management Act (NPATMA) in 2000. Our concerns for flights over the park include potential impacts to park soundscapes, threatened and endangered species, resources of cultural importance to Native Hawaiians, volcanic hazards, data collection and monitoring, wilderness qualities, and the ground visitor experience. We recently completed public review of preliminary alternatives for the ATMP EIS, including a public meeting in the Puna District.

The final flight routes adopted in the ATMP/EIS will specify routes for commercial air tour travel over park lands including the park’s ½ mile buffer. Information on the Air Tour Management Plan process and public meeting comments are available on-line at http://www.nps.gov/havo/parkmgmt/havo_planning_atmp2011.htm
If clients on the helicopter tour would be entering the park from this property on foot, it would be considered a commercial use and Paradise Helicopters would be required to apply for a Commercial Use Authorization from the park. Section 418 of the National Parks Omnibus Management Act of 1998, Public Law 105-391 (Section 418), authorizes the National Park Service (NPS) to issue commercial use authorizations (CUAs) to persons (referring to individuals, corporations, and other entities) to provide commercial services to park area visitors in limited circumstances. The CUA is used to provide for incidental use of park area resources by operators who provide commercial services originating and terminating outside of the park area. The permit system applies to all companies providing commercial visitor services to units of the National Park System.

In addition, the park currently has four fixed wing and ten helicopter air tour companies that have been granted legal operating authority by the FAA to fly over Hawai‘i Volcanoes National Park, referred to as an Interim Operating Authority (IOA).

At this time, no other air tour companies are authorized to fly below 5,000’ agl over our park and ½ mile buffer of air space beyond the boundary. The CUA permit is not the same as the Interim Operating Authority (IOA) that Paradise Helicopters currently operates under and would be required in addition to the IOA.

There may also be impacts to adjacent park resources from the noise and rotor wash associated with repeated landing and take-off’s in a relic forested area. The relic forested areas in this part of the park, harbor bird species such as the federally endangered I‘o (Hawaiian Hawk). In addition, any clearing that may occur should consider surveys to ensure no impacts to the federally endangered hoary bat that may be roosting in trees, particularly during the reproductive period. Consultation with US Fish and Wildlife Service is suggested to determine if there are significant floral or faunal resources in the area to be impacted.

The park’s acoustic data for soundscapes in this area of new lava flows and relic forests, directly adjacent to the park boundary, is known to be an area trafficked by day-time air tours. Noise from landings will increase the existing ambient noise levels. The natural soundscapes in this area, without the presence of air tours, are known to have very low levels of natural ambient sounds such as wind and insects and have been measured at 10-35 decibels.

The proposed landing site is located adjacent to the Puna-Ka‘ū Historic District of the park, which is on the National Register of Historic Places. We recommend that you conduct an archaeological survey of the site prior to ground disturbance, or locate the landing site on already disturbed land. The Southeast Rift Zone is associated with the birth and creation of Hawaiian culture, as the sites of new lava flows are felt to be some of the most sacred places. The Kupuna group, an informal group of Hawaiian elders, has stated that they feel the sight and presence of these low-flying aircraft to be culturally inappropriate.

The area within the park that borders your project is a section of 42,000 acres of parklands known as the Kalapana Extension. This section of the park is governed by specific1938 legislation regarding its use by Native Hawaiians for fishing and homesteading. We encourage you to consult with the Kalapana Fishing Ohana regarding any potential for cultural impacts.

Socioeconomics/environmental justice should also be an impact topic considered in the development of your EA. During our ATMP EIS public meetings, we have received extensive feedback from the public regarding the potential socioeconomic impacts and consideration of environmental justice as related to low-flying aircraft.
If you have any questions regarding data needs or background resources that would help to inform the EA process, please call Danielle Foster, the park’s Environmental Protection Specialist at 808-985-6073. Please make sure we are notified of all future actions related to the proposal, including receiving a copy of the EA during the comment period.

Sincerely,

Cynthia L. Orlando
Superintendent

cc:
County of Hawaii Planning Department, Bobby Jean Leithead-Todd
State Historic Preservation Division, William J. Aila, Jr.
State Historic Preservation Division, Theresa K. Donham
December 12, 2011

Mr. Gregory Mooers
Mooers Enterprises, LLC
P. O. Box 1101
Kamuela, Hawaii 96743
(gmoers@hawaii.rr.com)

Dear Mr. Mooers:

Subject: Chapter 6E-42 Historic Preservation Review – Special Permit Application and Draft Environmental Assessment Preparation Notice For Periodic Helicopter Landings on Private Property, Royal Gardens Subdivision Pulama Ahupua’a, Puna District, Island of Hawai‘i

TMK: (3) 1-1-114:022

Thank you for requesting our review of this proposed project, which would involve placement of a 225 square foot landing platform in the southwest corner of the c. one acre parcel. We received your letter October 27, 2011.

We have no records of known historic properties, or previous archaeological work within the subject 1.0-acre parcel. The property is adjacent to the east boundary of the Puna-Ka‘ū Historic District (SIHP 50-10-62-5503) which was listed in the National Register of Historic Places in 1974. The proposed landing platform location is approximately 320 feet east of this district boundary.

A site visit and inspection of the project area was conducted November 15, 2011 by SHPD staff, Dr. Robert Rechtman and Ron Terry in connection with EA preparation. The property is currently surrounded on all sides by the current lava flow (less than 10 years old), and is in a kipuka that is not accessible by wheeled vehicles. An archaeological inspection of the proposed landing platform location was conducted by SHPD staff archaeologist Theresa Donham and Dr. Rechtman during the November 15 site visit. An area approximately 100 by 100 feet was examined and found to be previously disturbed by bulldozing and boulder stockpiling. Disturbance was apparent based on the presence of piled machinery-scarred boulders along the sloped area. The flat portion of the area examined was cleared of large vegetation and has been previously leveled by machinery.

Based on the findings of the November 15 site inspection, we believe that no historic properties will be directly affected by the proposed landing platform. There may be a potential for indirect effects, such as visual or noise impacts, to the Puna-Ka‘ū Historic District if low-flying helicopter traffic traverses portions of the District that contain intact historic properties. We recommend that the applicant work with the Hawai‘i Volcanoes National Park to ensure that the potential for any indirect effects is mitigated. If you have any questions at this time, please contact Theresa Donham at (808) 933-7653 or Theresa.K.Donham@hawaii.gov.

Aloha,

Theresa K. Donham
Acting Archaeology Branch Chief
Historic Preservation Division

cc: Ron Terry (rterry@hawaii.rr.com)
Laura Schuster (Laura.C.Schuster@nps.gov)