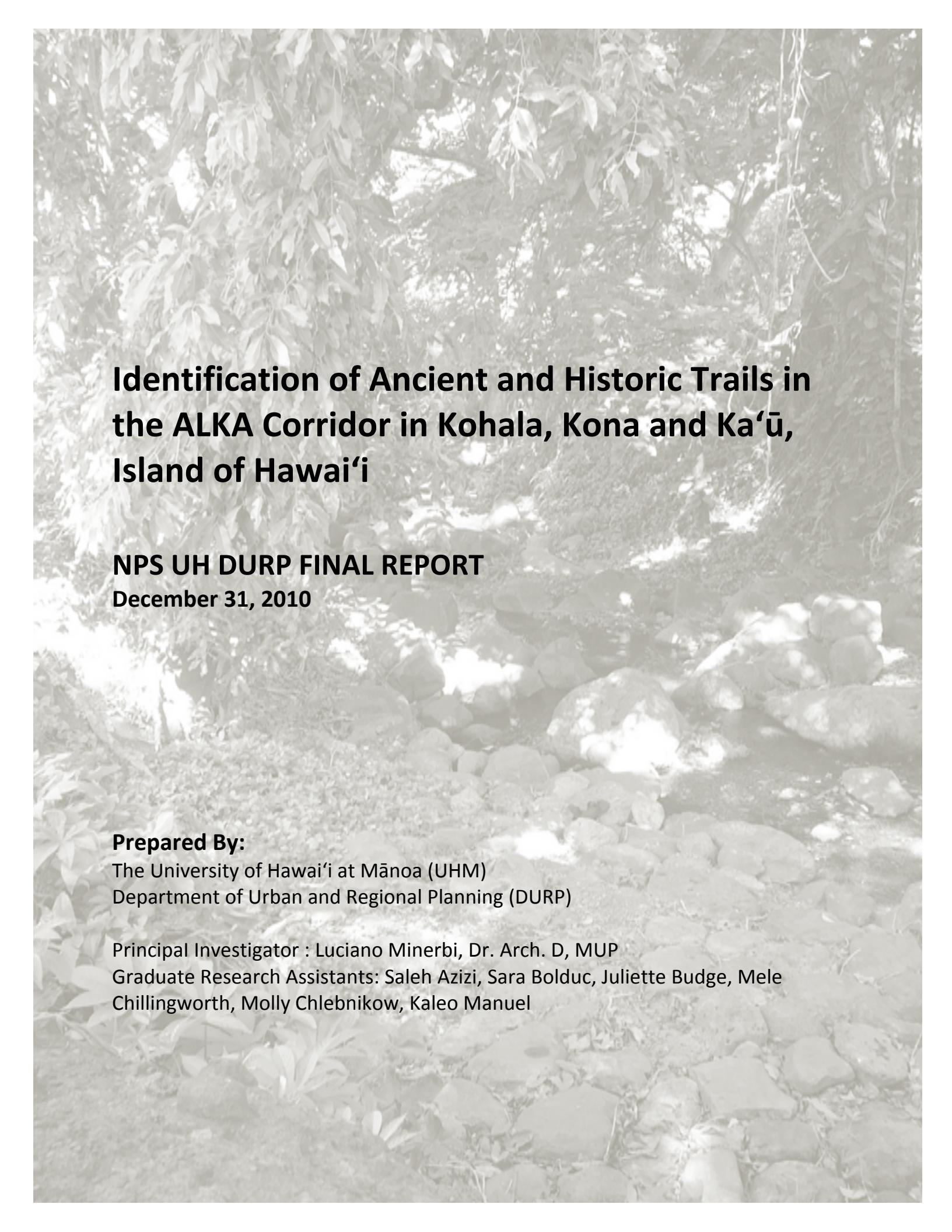




Identification of Ancient and Historic Trails in the ALKA Corridor in Kohala, Kona and Ka'ū, Island of Hawai'i

NPS UH DURP FINAL REPORT

December 31, 2010

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EXECUTIVE SUMMARY

December 31, 2010

This report was written by University of Hawaii at Mānoa Department of Urban and Regional Planning (UH DURP) Graduate Research Assistants Saleh Azizi (2010), Sara Bolduc (2007-2010), Juliette Budge (2009-2010), Mele Chillingworth (2007-2009), Molly Chlebnikow (2010), and Marvin Kaleo Manuel (2007-2009), under the supervision of Professor and Principal Investigator Luciano Minerbi, Dr. Arch. D, MUP, to meet the agreement terms between National Park Service (NPS) and the University of Hawai'i at Mānoa's (UHM) Department of Urban and Regional Planning (DURP) for the project entitled "*Identification of Ancient and Historic Trails in the Ala Kahakai Corridor in Kohala, Kona and Ka'u, Island of Hawaii*" 2008-2010.

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This document entitled "*Identification of Ancient and Historic Trails in the ALKA Corridor in Kohala, Kona and Ka'u, Island of Hawai'i -NPS UH DURP FINAL REPORT December 31, 2010*", serves as the final deliverable for the wrap up period which ends 12/31/2010 and in anticipation of Modification #4 (J8320060044) which will be delivered to the project ATR on March 31st 2011.

All DURP research (2008-2010) on the identification of ancient and historic trails for the Ala Kahakai National Historic Trail Corridor, in support of the Ala Kahakai National Historic Trails Comprehensive Management Plan can be found in this final report. The information is divided into three main sections, and meets the contract agreement in terms of identifying and studying ancient and historic trails on private, and public lands within the Ala Kahakai National Historic Trail corridor.

CHAPTER 1 TRAIL IDENTIFICATION

This section describes the framework which established the path that UHM followed to identify the ALKA corridor and distinguish which parcels needed to be included in the research. This chapter is outlined as follows:

- Geographic Information Systems (GIS) data that was created by DURP for NPS ALKA. The data created is explained in this chapter. This step involved the *georeferencing* of historical maps acquired from the Hawai'i State Survey Office. Once the maps were georeferenced, trails were digitized in GIS in order to locate historic trail alignments
- Land Commission Awards were also located on these maps and these were digitized as well in order to paint a historic landscape, and make use of ancient land tenure documents containing language correlating access, and trails.

- Narrowing the trail corridor identified is also part of this section, in the hopes of presenting a list of Tax Map Keys (TMK's) which are already either publicly owned (and therefore represent an inventory of public lands), as well as lands for which the title search process would be necessary in order for the NPS to claim in the future. This information is represented visually with GIS maps as well as process flow charts.

CHAPTER 2 TRAIL OWNERSHIP

Identifying Land Ownership for the entire 175 mile ALKA corridor has been an ongoing task which has involved multiple steps. This second part of the report focuses on parcels which are publicly owned, and for which access has not already been documented. This section focuses on the remaining 852 parcels identified in Chapter 1. This process is briefly outlined here and is described in detail in the body of this report.

- In the State Survey Office we examined the large format TMK maps. We located every TMK parcel in our list on these maps and recorded what was found there in the NPS.Trails_BOC_list Database Excel spreadsheet (and included in APPENDIX C of this report). This search signaled Civil Action Numbers and Grants and LCAs. Also noted on these maps are Copy of Survey Furnished (CSF)
- The search continued at the Bureau of Conveyances (BOC) for History Sheets and Deeds for all remaining TMKs. The Grantor Books in the BOC were also searched to track the chain of title on lands.
- This section also explains the Encumbrance Language by type and their possible legal implications.

CHAPTER 3 ADDITIONAL TRAIL DOCUMENTATION

Additional Trail documentation includes historic topographic maps, archaeological reports, State Archives road box documents, and aerial photographs were also obtained for NPS and included as part of this research. Below is a brief description of each of the listed trail documentation methods and means.

- Topographic maps identify natural features including topographical contours; and anthropogenic features such as structures, roads, secondary roads, railroads, and pedestrian trails. An index of the maps obtained was created to aid in locating relevant maps. The index document is named "DURP_Historical_Topographic_Maps_Index.doc" and was given to NPS in December 2008 as a deliverable.
- State Survey Office Field Books: As part of our research focuses on assessing ancient natural landscapes, surveyor's field notes of survey from the turn of the century were obtained in "books" at the Hawai'i State Survey Office.
- Archaeological Reports: 34 archaeological reports were gathered (not yet reviewed) for priority area (Kawaihae-Anaeho'omalu).

- State Archives: This is an excel document (NPS_Trails_(MC)_SA data info.xls) that contains information about Department of Interior documents that are were scanned at the Hawaii State Archives. Scanned Documents were selected based on the districts that are part of the Ala Kahakai trail corridor. The Database entitled *“NPS/ALKA Trails Database for Documents collected at the Hawaii State Archive”* was created in order to organize and utilize the documents (letters, petitions, reports, and maps).

TABLE OF CONTENTS

CHAPTER 1 TRAIL IDENTIFICATION	8
1.1 Establishing a Framework	8
1.2 GIS Data Created	11
1.2.1 Rectified Maps	11
1.2.3 Map Footprints	14
1.2.3 Trails	16
1.2.4 Land Commission Awards	19
1.3 List of TMK's for Title Search: Narrowing the Field and Prioritizing Parcels	21
CHAPTER 2 TRAIL OWNERSHIP	36
2.1 State Survey Office.....	38
2.1.1 Civil Action Numbers.....	38
2.1.2 Grants and LCAs	38
2.1.3 Copy of Survey Furnished (CSF)	39
2.2 Bureau of Conveyances.....	41
2.2.1 History Sheets	41
2.2.2 Deeds	42
2.2.3 Grantor Books	44
2.3 Results	45
CHAPTER 3 ADDITIONAL TRAIL DOCUMENTATION	52
3.1 Historical Topographic Maps	52
3.2 State Survey Office: Field Books	53
3.4 Archaeological Reports	53
3.5 State Archives: Document Scanning and Analysis	56
3.5.1 Appointments	56
3.5.2 Requesting a Box.....	56
3.5.3 Selecting a Folder	57
3.5.4 Note Taking	58
3.5.5 Creating Electronic Files.....	59
3.5.6 Taking Pictures in Addition to the Scans.....	60
3.5.7 Future Steps	62
3.5.8 Reference Books	62
3.5.9 NPS Trails Hawaii State Archive Road Box Documents Database	63
3.5.10 Trails Hawaii State Archive Database	64
3.6 Aerial Photos	65
APPENDICES	72
APPENDIX A Additional Land Tenure Documents.....	72
APPENDIX B LIST OF HAWAIIAN WORDS DESCRIBING ROAD/TRAIL CHARACTERISTICS..	84
APPENDIX C TMK DATABASE (NPS.TRAIL.BOC_TMK 12.2010)	86

LIST OF FIGURES

Figure 1 Trail Corridor Framework.....	9
Figure 2 Using Pu’u Ohau triangulation station to georeference RM 1281 onto a current USGS topographic map.....	12
Figure 3 Boundaries of Kaawaloa ahupuaa labeled “approximate” on USGS topographic map.....	13
Figure 4 Fourth control point to georeference.....	13
Figure 5 Map footprints	15
Figure 6 Legend of Map of Hawaii by Walter E. Wall, 1928.	17
Figure 7 Trail Data and Groundtruthing	18
Figure 8 Digitizing Land Commission Awards from RM 1796.....	20
Figure 9 TMK list reduction process	21
Figure 10 Trail Title Search Flow Chart	37
Figure 11 Sample of documentation of civil actions relating to trails	41
Figure 12 Encumbrance language in deed (doc # 2007-127930) for TMK 3-8-7-014-061	43
Figure 13 USGS Topographic map from 1930 depicting roads, secondary roads, railroads, and pedestrian trails in ALKA corridor	52
Figure 14 List of Surveyors.....	53
Figure 15 Records Request Form.....	57
Figure 16 Page from Research Aid Indices.....	58
Figure 17 Road Box Electronic File.....	59
Figure 18 Catalogue of Electronic Files of Folders Within the Specific Road Box	59
Figure 19 Catalogue of Each Document Scanned from a Specific Folder.....	60
Figure 20 Contents of a Specific Scanned Document Electronic File	60
Figure 21 MAGIS Aerial Photo Viewer with flight lines.	65
Figure 22 Aerial photo 344.tif. When viewing the image, it is very difficult to tell what area is depicted in the photo.	66
Figure 23 Sample data from “DURP_Aerial_Photo_Index.xls”	66
Figure 24 MAGIS aerial photo viewer showing location of image 5592.	67
Figure 25 Aerial photo image 5592 (low resolution).....	68
Figure 26 Aerial photo image 5592 (low resolution).....	68
Figure 27 1928 map of Hawaii by Walter Wall showing area covered by image 5592.....	69

LIST OF TABLES

Table 1. GIS data created by DURP for NPS ALKA.....	11
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LIST OF MAPS

Map 1 TMK Reduction Process Step 1	22
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Map 2 TMK Reduction Process Step 2	23
Map 3 TMK Reduction Process Step 3	24
Map 4 TMK Reduction Process Step 4	25
Map 5 TMK Reduction Process Step 5	26
Map 6 TMK Reduction Process Step 6	27
Map 7 TMK Reduction Process Step 7	28
Map 8 TMK Reduction Process Step 8	29
Map 9 TMK Reduction Process Step 8 North Kohala	30
Map 10 TMK Reduction Process Step 8 South Kohala	31
Map 11 TMK Reduction Process Step 8 North Kona	32
Map 12 TMK Reduction Process Step 8 South Kona	33
Map 13 TMK Reduction Process Step 8 Kau	34
Map 14 North Kohala	46
Map 15 South Kohala	47
Map 16 North Kona	48
Map 17 South Kona	49
Map 18 Kau	50

LIST OF PICTURES

Photo 1 Map in Grant document.	Photo 2 Portion of Grant document.	39
Photo 3 CSF identified on TMK map.		39
Photo 4CSF file.	Photo 5CSF document.	40
Photo 6 CSF map.		40
Photo 7 Searching by name to find claims on land.		43
Photo 8 Grantor books.....		44
Photo 9 Conveyance data in Grantor book.		44
Photo 10 Hawai'i State Archives: Honolulu		56
Photo 11 Example of a photograph		61

ABBREVIATIONS AND DEFINITIONS

- BOC:** Bureau of Conveyances. Located in Room 123 on the first floor of the Department of Land and Natural Resources (DLNR), Kalanimoku building, Punchbowl St, Honolulu. The BOC records conveyances, the transfer of land from one party to another.
- Carton:** When there is a subdivision of government lands the State Survey Division makes a map of each lot with meets and bounds. Easements may or may not be included on the maps. The maps of the lots are put together in a carton categorized by subdivision. The carton is stored in the vault at the Survey Division.
- Civil Action:** A court case relating to a parcel of land. The case may or may not relate to trails and access.
- CSF:** Copy of Survey Furnished. A government survey map created by government surveyors, usually affecting government land.
- Deed:** A signed and usually sealed legal instrument used to grant a right, such as ownership.
- FP:** File Plan. Detailed subdivision map which includes easements and meets and bounds for the subdivision as a whole. They are located at the State Survey Division.
- GR:** Land Patent (Grant) Public Works. Issued by the Department of Public Works between March 31, 1906 and April 26, 1910.
- Grant:** Deeds issued by the Hawaiian government, territory or State of Hawaii, for various purposes, e.g. homesteading.
- History Sheet:** A document for each parcel recording ownership and other information specifically associated with that parcel.
- Job:** A document internal to the State Survey Division. Any task that is requested by another government entity is assigned a job number at the Survey Division. If it is associated with a civil case, then the State Survey Office can not provide the document to the public. If the job is not associated with a civil case, then the public can view the job document.
- LP:** Land Patent. Same as a Royal Patent but issued after statehood. This document can be found in the BOC.

Māhele Award: Land awards issued to those Chiefs who participated in the Mahele of 1848, but who failed to receive a Land Commission Award before 1855 when the Land Commission dissolved.

TMK: Tax Map Key. TMK parcels are the divisions of land identified for taxation purposes. Current TMK maps can be found in digital format on the tax assessment website. Hard copies of TMK maps are located in all public libraries. Large format hard copy TMK maps are located at the State Survey Office. County of Hawaii TMK GIS data is available online from the State GIS data website.

SSA: Special Sales Agreement. See Land Division. This is not usually recorded in the survey office

CHAPTER 1 TRAIL IDENTIFICATION

To form the Ala Kahakai National Historic Trail (ALKA), the National Park Service must acquire rights to the land on which the trail runs. Important in this acquisition process is the Highways Act of 1892, which states that all rights of way created prior to 1892 are property of the government.

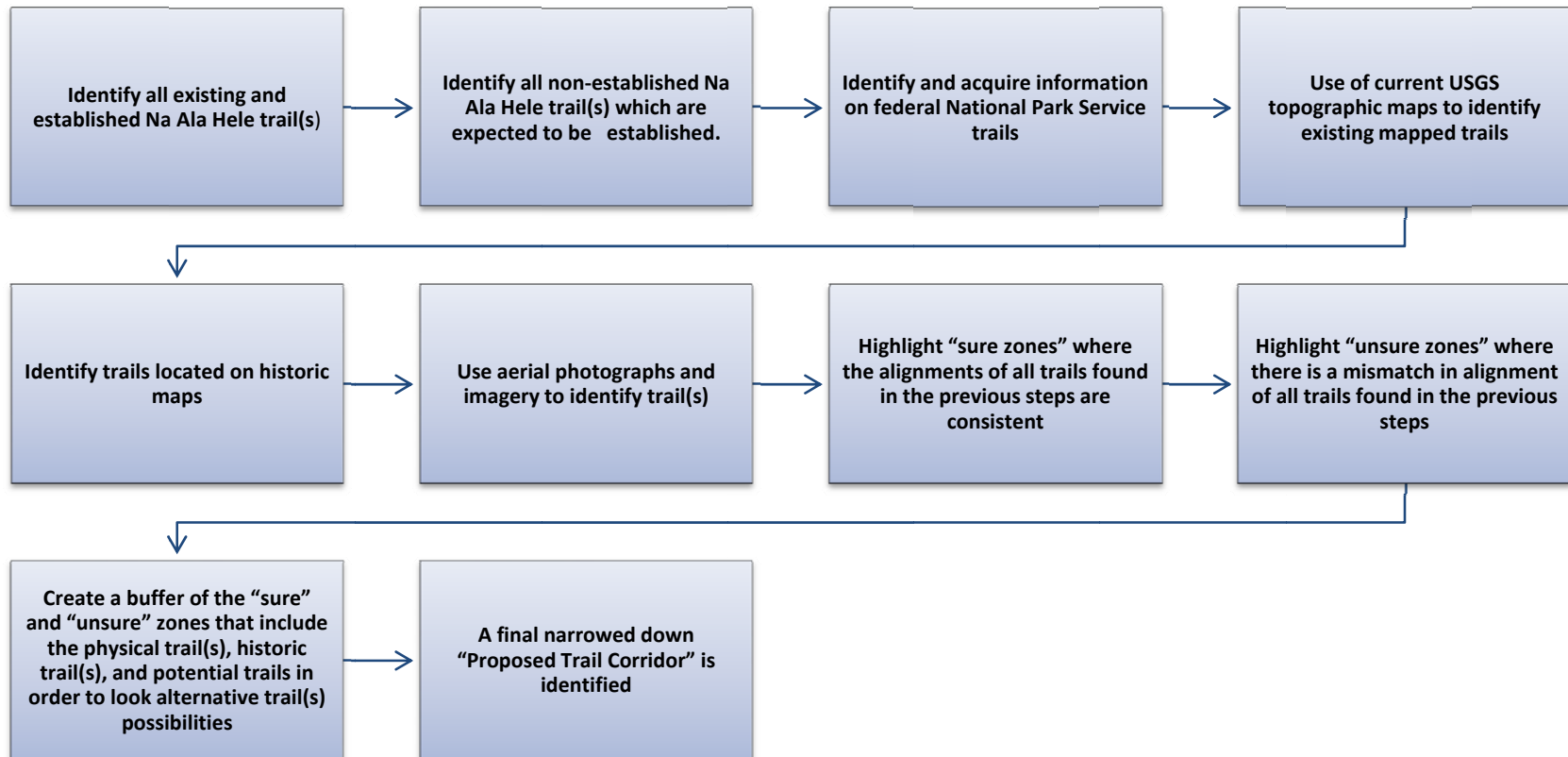
To assert the government's claim to land using the Highways Act of 1892, there must be documentation of the trail's existence prior to 1892. Such documentation most often come in the form of maps, particularly government survey maps. While government survey maps provide conclusive evidence of trails, the various scales and locations of the maps make compilation and comparison of trails difficult, especially so in the absence of topographic contour lines. It is also difficult to tell where a trail or other feature depicted on a historic map would lie on the ground, a step necessary for investigating land ownership. With these aspects of the land acquisition process in mind, GIS data were created to aid in the locating and documenting of trails and other natural and cultural features. The GIS data DURP has created will help to answer questions like these:

- Are the same trails found on multiple maps?
- Does the trail on one map connect to a trail on another map?
- In what regions do we have documentation of trails?
- In what regions are we lacking trail documentation?
- Where are these trails located in relation to entities on the ground today? For example, is the trail mauka or makai of Mamalahoa Highway?

1.1 Establishing a Framework

A proposed Trail Corridor Framework (Figure 1.1) was created in order to guide DURP's trail identification research for ALKA trail(s) within the larger proposed trail corridor. A total of more than 20,000 TMK parcels are located within the West Hawaii Coastal corridor. Attempting to devise a systematic way to assess the landscape was hence essential to ensure a consistent and efficient study. The framework begins with an ALKA corridor consisting of a 500 foot coastal buffer along the entire West Coast of the Island of Hawaii (from Upolu Point to Kau's Black Point), and guides the research on a step by step journey towards a narrower (and more specific) proposed trail corridor for NPS ALKA.

Figure 1 Trail Corridor Framework



STEP 1: Identifying all existing and established Na Ala Hele trail(s)

If these trails are already managed by the State of Hawai'i, then these trails should take priority over other trails that have not yet been established. Pertinent because the ownership of trail is known.

STEP 2: Identifying non-established Na Ala Hele trail(s) which are expected to be established.

These potential trails are those that fall within the proposed ALKA trail corridor and have been recognized by Na Ala Hele as being a segment expected to become open to the public in the near future. Ownership known.

STEP 3: Identifying and acquiring information on federal National Park Service trails

Pertinent because ownership of trail is known.

STEP 4: Using current USGS topographic maps to identify existing mapped trails

STEP 5: Identifying trails located on historic maps

If the trail(s) existed prior to 1892 the government can still claim ownership.

STEP 6: Using aerial photographs and imagery to identify trail(s)

This step may be useful as a support tool for areas with no referenced or mapped trail(s)

STEP 7: Highlighting “sure zones” where the alignments of all trails found in the previous steps are consistent

These “sure zones” can be used to identify those areas where the government will be able to claim the trail as public property because of the Highways act of 1892.

STEP 8: Highlight “unsure zones” where there is a mismatch in alignment of all trails found in the previous steps

Possible ground truthing research needs to be done with the community in order to determine what trails exist and are being utilized in these “unsure zones”.

STEP 9: Create a buffer of the “sure” and “unsure” zones that include the physical trail(s), historic trail(s), and potential trails in order to look alternative trail(s) possibilities

This step also produces a manageable list of TMK numbers that an abstractor can use for land title research.

STEP 10: A final narrowed down “Proposed Trail Corridor” is identified

1.2 GIS Data Created

This section summarizes the GIS data that was created by DURP for NPS ALKA. The data is explained in detail below.

Table 1. GIS data created by DURP for NPS ALKA

File Name or Group Files	Description	Question this Data Answers
Rectified maps (ex: RM 1745_Rec.tif)	32 Georeferences historic maps	Where is this map located on the ground ?
Map_Footprint.shp	Polygons of the area covered by each georeferenced maps	What area is covered by each map? Which maps cover a given area?
Trail_DURP.shp	Line features of trails digitized from georeferenced historic maps	Where do we have documentation of trails on historic maps?
LCA_DURP.shp	Polygons of Land Commission Awards (LCA) digitized from georeferenced historic maps	What area is covered by each LCA ?

1.2.1 Rectified Maps

Purpose

As all rights of way created prior to 1892 are property of the government, to assert the government's claim to land using the Highways Act of 1892, there must be documentation of the trail's existence prior to 1892. Such documentation most often comes in the form of maps, particularly government survey maps. While government survey maps provide conclusive evidence of trails, the various scales and locations of the maps make compilation and comparison of trails difficult, especially so in the absence of topographic contour lines. It is also difficult to tell where a trail depicted on a historic map would lie on the ground, a step necessary for investigating land ownership. With these aspects of the land acquisition process in mind, GIS data were created to aid in the locating and documenting of trails.

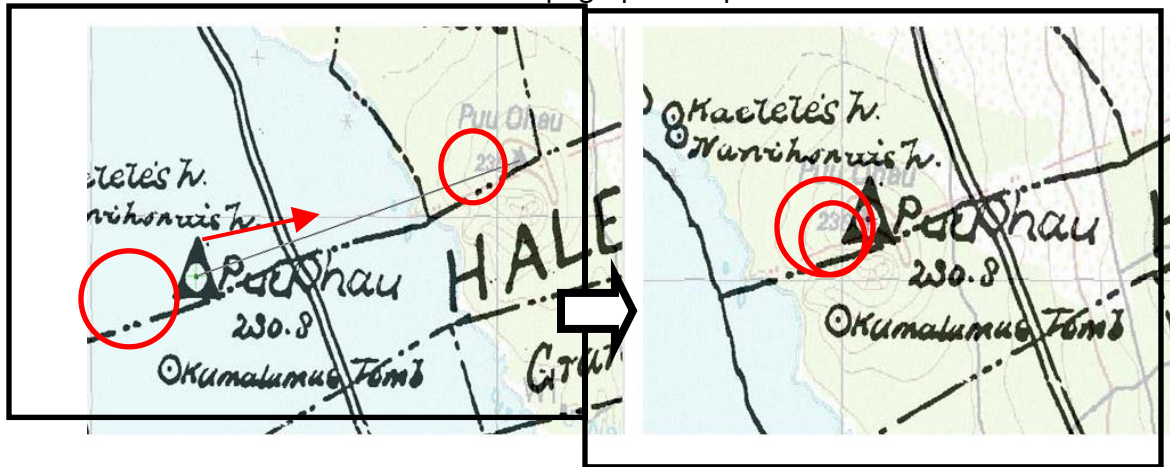
The first step in creating the GIS data is *georeferencing* (stretching) the historical maps from the State Survey Office. Georeferencing is a tool that projects a historical maps onto a current coordinate system, which enables us to see where geographical features on the historical maps would have been located on current maps.

Process

Each map tiff file was georeferenced onto NAD 83, UTM Zone 5N in ArcMap (Version 9.2). Georeferenced maps are saved in the “Georeferenced_Maps” folder as “MapNumber_Rec.tif” (e.g. RM1280_Rec.tif) because the ArcMap command to georeference is “Rectify”.

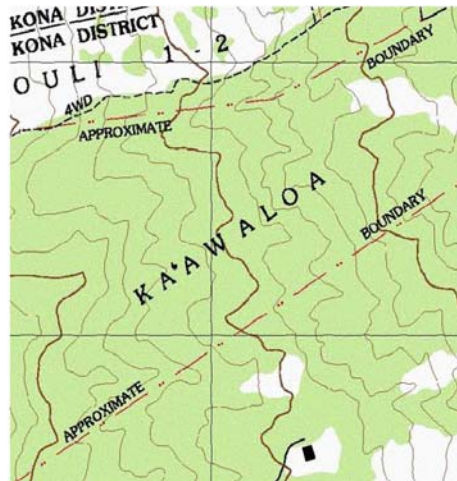
Historic maps are referenced onto a current coordinate system using a baseline reference map that shares common characteristics, also known as control points, such as triangulation stations, corners of parcels, or land features (Figure 1). Control points are stationary in time and visible on both the baseline map and the historical map that is being georeferenced. The most commonly used control points in this study are triangulation stations and places of worship such as churches and Heiau because they are reliably stationary in time. There should be at least four control points, one in each of the four different quadrants to stretch the map appropriately.

Figure 2 Using Pu’u Ohau triangulation station to georeference RM 1281 onto a current USGS topographic map.



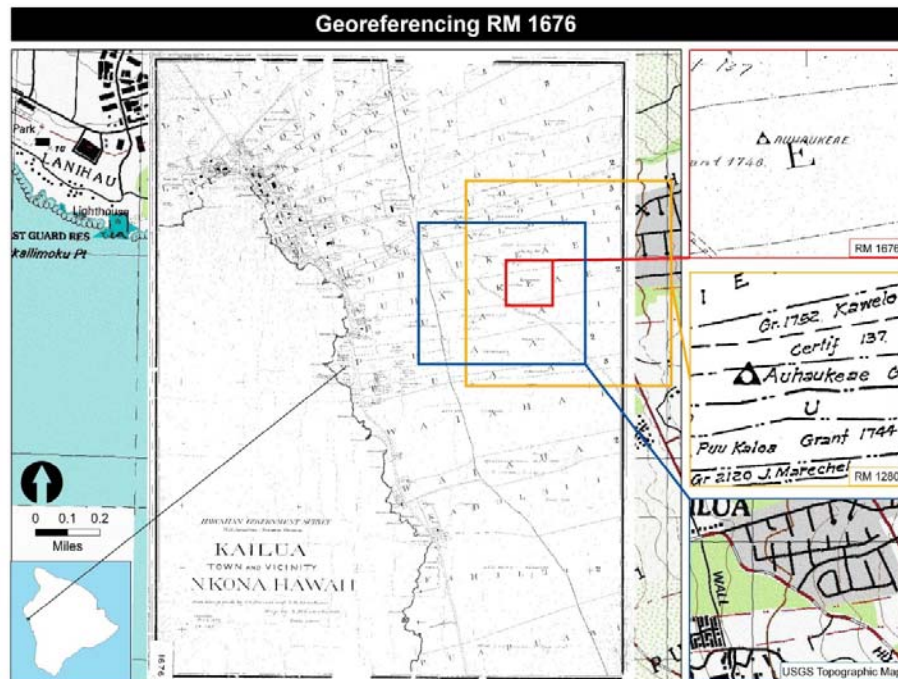
These details of the georeferencing process are made explicit here because not all of the maps obtained from the State Survey Office could be georeferenced. Of the 109 maps gathered and indexed, only 32 were georeferenced. Several of the maps do not have any triangulation stations on them, which renders them unable to be georeferenced because triangulation stations are the primary common feature shared by the historical maps and the current USGS topographic map (baseline). In some cases, the historical map had 3 reliable control points, and an ahupuaa boundary intersection was used as a fourth control point. Ahupuaa boundary intersections and vertices alone were not used as control points in the absence of triangulation stations because the current USGS topographic map identifies many ahupuaa boundaries as “approximate” (Figure 2).

Figure 3 Boundaries of Kaawaloa ahupuaa labeled “approximate” on USGS topographic map.



Several maps contain triangulation stations that do not appear on the current USGS topographic map. In the case of RM 1676, the triangulation station labeled Auhaukeae was not on the current USGS topographic map, but it was on RM 1280, which had already been georeferenced using other triangulation stations as control points. The Auhaukeae triangulation station on RM 1280 was then used as the fourth control point to georeference RM 1676 (Figure 4).

Figure 4 Fourth control point to georeference



Each map's control points are saved in a text file for reference (i.e. RM1280_ControlPoints.txt). The total RMS error is recorded in the map index. This error is discussed in detail below.

Analysis

Georeferencing assigns spatial information to the historical maps. There is error associated with the resulting georeferenced maps due to the historical maps themselves as well as error due to the georeferencing process.

The historical maps themselves may contribute error to the georeferencing due to their age and scale. Error due to age can be attributed to the surveying equipment used in the 1800s, coordinate systems, and human error. Scale contributes to error when a map covering a large area is georeferenced using a scale appropriate to a smaller area. For example, Walter Wall's 1928 Map of Hawaii covers the whole island, at a scale of 1: 240,000, but georeferencing usually occurs using a scale of 1:24,000 or finer.

Error accrued in the georeferencing process is measured by the RMS error, the residual error. This error is the difference between where a control point ends up and where it was supposed to go. The total error is computed by taking the root mean square (RMS) sum of all the residuals. This value describes how consistent the georeferenced map is between the control points.

RMS error can be reduced in the selection of control points. Some control points end up with more residual error than others. Adding and removing control points can minimize RMS error.

A low RMS error is not the only assessment of the accuracy of georeferencing. There could still be significant error even when the RMS error is low due to poorly entered control points or poor location of control points on the map. Similarly, a high RMS error may not mean that the georeferencing is terribly inaccurate. While RMS error of 5 is usually the limit for accuracy, greater RMS may still be considered accurate given the nature of the maps being georeferenced in this case.

1.2.3 Map Footprints

Purpose

32 historical maps were georeferenced to aid in locating and documenting trails for the ALKA corridor. The footprints of each of these georeferenced maps were digitized to visualize the area covered by each map. The map footprints answer the question, "Which maps cover each area?" For example, the map footprints indicate that Kealia 1 ahupuaa is covered by 3 georeferenced maps: RM 1745, RM 1796, and HW 1928.

Process

The footprint of each map is the digitized outline of the area depicted on the map, not the map page. All footprints are saved in a single polygon shapefile, Map_Footprint.shp. All individual footprints are also saved in individual polygon shapefiles (i.e. Footprint_RM1745.shp) for mapping purposes.

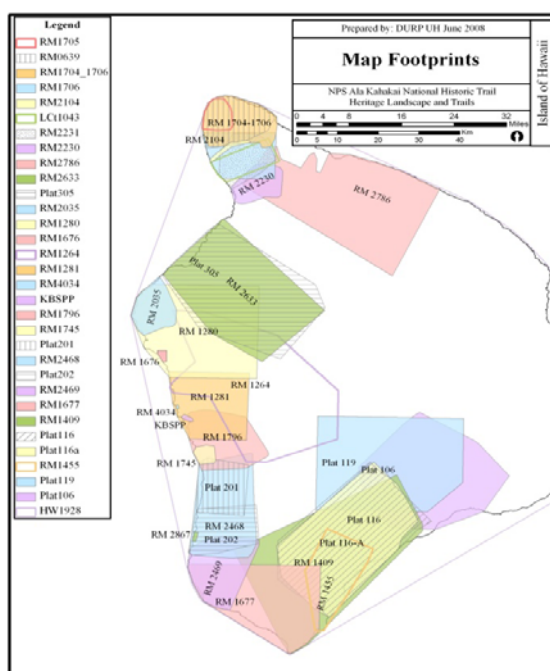
Analysis

The single map footprint layer, Map_Footprint.shp, is useful in ArcGIS for quickly identifying which maps cover a given area. One click of the mouse using the Identify tool will show that Kealia 1 ahupuaa is covered by 3 maps: RM 1745, RM 1796, and HW 1928.

The individual footprint layers are suited for making maps. To create a map showing the areas covered by the map footprints, the smaller footprint polygons must be able to be brought to the front so that they appear “above” the larger polygons. This cannot be done with features in a single polygon layer such as Map_Footprint.shp. The individual footprint layers, however, are suited for this task because each feature can then be moved in the drawing order as necessary (Figure 4).

Georeferenced maps cover the entire ALKA corridor. Most of the corridor is covered by multiple maps. However, a portion of Lalamilo ahupuaa is covered only by the Hawaii Wall 1928 map.

Figure 5 Map footprints



1.2.3 Trails

Purpose

While government survey maps provide conclusive evidence of trails, the various scales and locations of the maps make compilation and comparison of trails difficult, especially so in the absence of topographic contour lines. It is also difficult to tell where a trail or other feature depicted on a historic map would lie on the ground, a step necessary for investigating land ownership. With these aspects of the land acquisition process in mind, GIS data were created to aid in the locating and documenting of trails.

Process

Trails, roads, and other rights of way were digitized from the georeferenced historic maps. Attribute data associated with each trail feature include: Trail_Name, Source, Src_Yr, FCODE, and Pre1892.

“Trail_Name” is the name of the trail as it appears on the map. The title “Government Road” is treated as a trail name and is recorded in this field.

“Source” is the georeferenced historical map from which the trail feature was digitized. This field serves as a feature-level metadata, identifying which map to reference as documentation of the trail’s existence. It also allows for symbolizing trail features by their source to show differences in trail routes as they appear on different maps.

“Src_Yr” is the year the source map’s data originated. This date is explained in detail in the map section of this chapter, 2.2. The year the source map was documented is identified in this field for ease of use in relating the data to the Highways Act of 1892. With this field, trail features can be easily labeled or symbolized as documented prior to, or after, 1892.

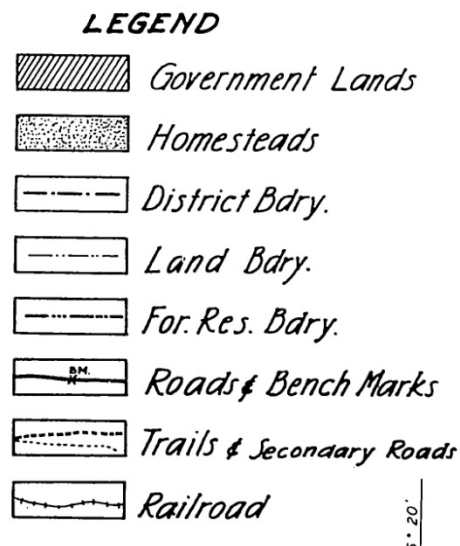
“FCODE” is the code identifying the trail feature type. It can be related to a table (F_CODE.txt) identifying each feature code’s associated feature type as symbolized and labeled on the historic maps. The F_CODE number, rather than the feature type (F_TYPE), is stored in the shapefile’s attribute table for database management purposes. Having only a single digit in the field requires much less memory than would the full text of the feature type.

“Pre1892” indicates whether or not the source map predates 1892. A “1” in this field indicates that the source map predates 1892. This field allows for mapping indicating which trails have been documented prior to 1892.

F_CODE	F_TYPE
1	trail
2	road
3	secondary road
4	railroad
5	old cart trail
6	private road

These feature types represent the types of roads and trails labeled on the historical maps from the State Survey Office. There is some interpretation involved because, except for Wall’s 1928 Map of Hawaii, none of the maps include a legend. The typology depicted in the 1928 Map of Hawaii by Walter E. Wall (Hawaii-Wall-1928.tif) (Figure 5) was used as a default trail typology. In this method, a trail is symbolized as a dashed line, road as a solid line, and secondary road as two parallel, dashed lines. In some cases, the maps labeled symbols differently, in which case that individual map’s typology was used.

Figure 6 Legend of Map of Hawaii by Walter E. Wall, 1928.



Analysis

Because these trail data are created from sources dating back to the 1800s, the data should not be used as definite, on-the-ground locations of trails. Rather, the data should be used as a reference indicating the documentation of trails. For example, in South Kona, there are three distinct trail features indicating a trail from Kiilae to Hookena. This does not mean that on the

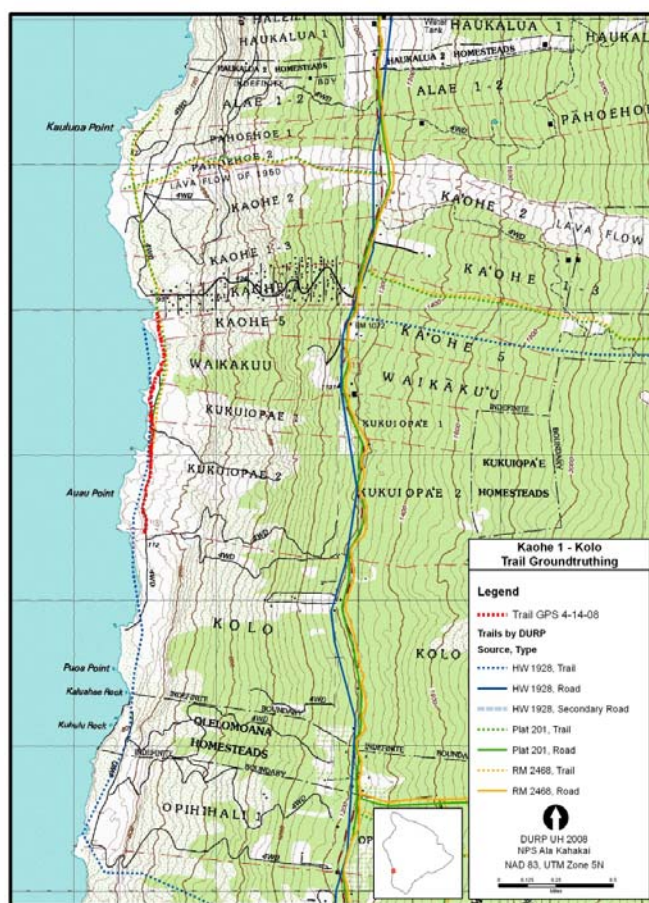
ground there are three trails from Kiilae to Hookena. It means that we have a trail from Kiilae to Hookena documented on three maps.

Variation between trails as documented on multiple maps can be attributed to a number of things. One explanation is error in the georeferencing process. The historical maps at various scales do not georeference perfectly. The 1928 Map of Hawaii by Walter Wall, for example, has a great deal of error associated with its georeferencing, which is no surprise given the map's age and scale.

Another explanation for trail variation is changing routes over time. Trails are dynamic features. The routes might change over time. These changes might be due to changes in settlement patterns or ground conditions as a result of lava flows or land slides.

Groundtruthing was used to compare trail data with a trail on the ground in South Kona. On April 14, 2008, the trail segment in Kaohe was measured carrying a Trimble GPS unit. The GPS data correlates fairly closely with the trail data from historical maps in this case (Figure 6).

Figure 7 Trail Data and Groundtruthing



1.2.4 Land Commission Awards¹

Purpose

Land Commission Awards (LCAs) serve as a record of land ownership essential in the title search process. LCA data obtained from the Waihona database are not explicitly spatial, that is, it is unclear where each LCA lies on the ground. Many of the historical maps from the State Survey Division that were georeferenced for this study's trail analysis also include information regarding LCAs. LCA parcels were digitized from the georeferenced maps to aid in the title search process for lands in the trail corridor.

Process

LCA parcels were digitized from georeferenced historical maps. Each map's LCAs are saved as a separate polygon shapefile (i.e. LCA_RM1745, LCA_RM1796, etc.). All LCA shapefiles were then merged to form a single LCA shapefile (LCA_DURP.shp). Attributes of each feature include: Label, Source, Ahupuaa, LCA, and Recipient.

"Label" records exactly what is written on the source map, including information other than LCA such as Boundary Certificates or Royal Patents. For example, RM 1796 identifies Kealia 2 ahupuaa as "Bdy. Cert. 97 L.C.A. 7716 Keelikolani" (Figure 7), and that text is recorded in the Label field.

"Source" identifies the map from which the data was digitized.

"Ahupuaa" identifies the ahupuaa in which the LCA is located.

"LCA" is the LCA number.

"Recipient" is the person to receive the LCA.

The data are segregated from the Label to the ahupuaa, LCA, and Recipient to allow for easy searching or mapping by those attributes.

There are no diacritical marks in the attribute data for two reasons. First, diacritical marks do not translate well between softwares. Second, no diacritical marks appear on the maps. Adding diacritical marks would adulterate the data.

¹ The search for the Land Commission Awards on Historic Maps is a task which is associated with the ownership of the Trail as opposed to the identification of the trail. However, since the GIS data generated by DURP is included in this section, it made sense to discuss it here. The rationale behind looking at ancient land tenure documents in order to attempt to explore its ownership will be explored in the following Chapter (Chapter 2).

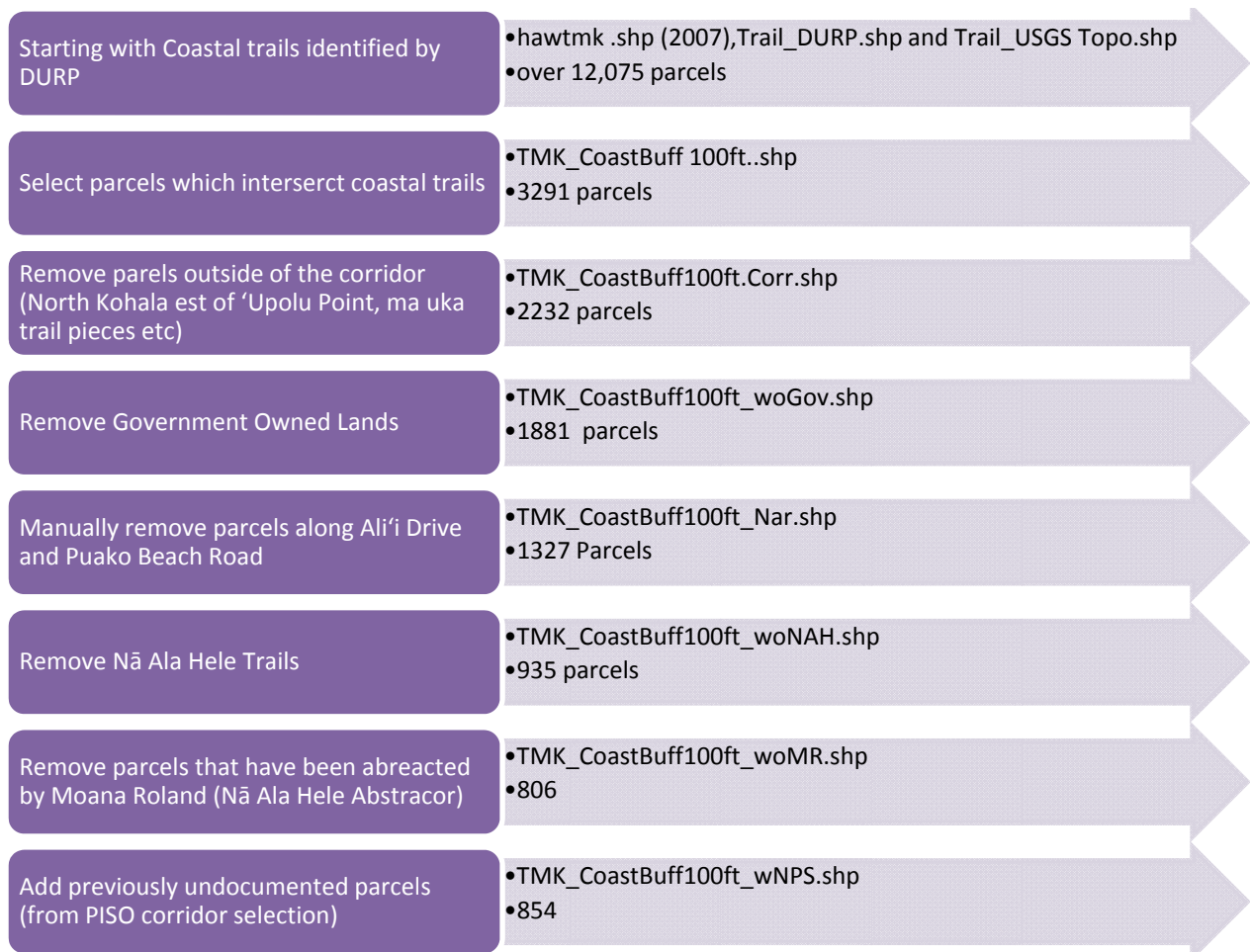
Attributes of LCA from RM1796							
FID	Shape ^	ID	LABEL	SOURCE	AHUPUAA	LCA	RECIPIENT
0	Polygon	0	L.C.A. 8521 B Hueu	RM 1796	Kiiaae	8521	B Hueu
1	Polygon	0	Bdy. Cert. 96 L.C.A. 5368 Akahi	RM 1796	Kealia 1	5368	Akahi
2	Polygon	0	L.C.A. 8559 C. Kanaina	RM 1796	Kalama Kumu	8559	Kanaina
3	Polygon	0	L.C.A. 8516 B. Kamaikai	RM 1796	Kalama 3	8516	Kamaikai
4	Polygon	0	Bdy. Cert. 107 L.C.A. 5524 L. Konia	RM 1796	Keel 1	5524	Konia
5	Polygon	0	Bdy. Cert. 108 L.C.A. 5368 Akahi	RM 1796	Keel 2	5368	Akahi
6	Polygon	0	Bdy. Cert. 109 L.C.A. 11216 Kekauonohi	RM 1796	Honaunau	11216	Kekauonohi
7	Polygon	0	Bdy. Cert. 110 L.C.A. 7712 M. Kekuanaoa	RM 1796	Keokea	7712	Kekuanaoa
8	Polygon	0	L.C.A. 7130 Kinimaka	RM 1796	Kalahiki	7130	Kinimaka
9	Polygon	0	Bdy. Cert. 97 L.C.A. 7716 Keelikolani	RM 1796	Kealia 2	7716	Keelikolani
10	Polygon	0	Bdy. Cert. 98 L.C.A. 9971 Keleiohoku	RM 1796	Hookena	9971	Keleiohoku



1.3 List of TMK's for Title Search: Narrowing the Field and Prioritizing Parcels

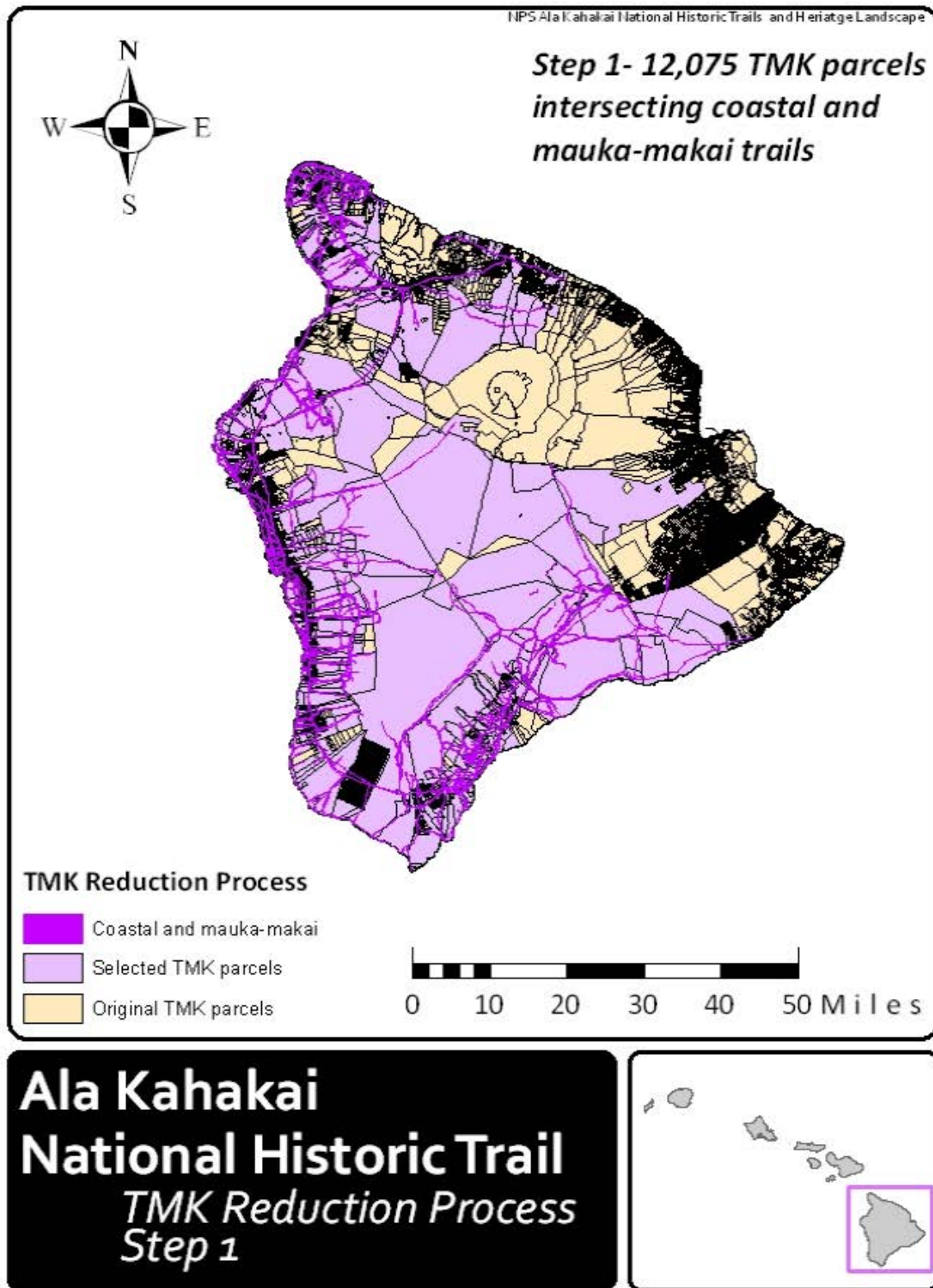
When we began the process, the initial goal became narrowing down the number of parcels which would need to be professionally abstracted. Using the rationale explained below, we attempted to exclude the largest number of parcels possible from the 12,075 TMK's selected as within the ALKA Corridor. Below is an explanation of the process of prioritizing the relevant parcels, and excluding those that were not necessary for our purposes.

Figure 9 TMK list reduction process

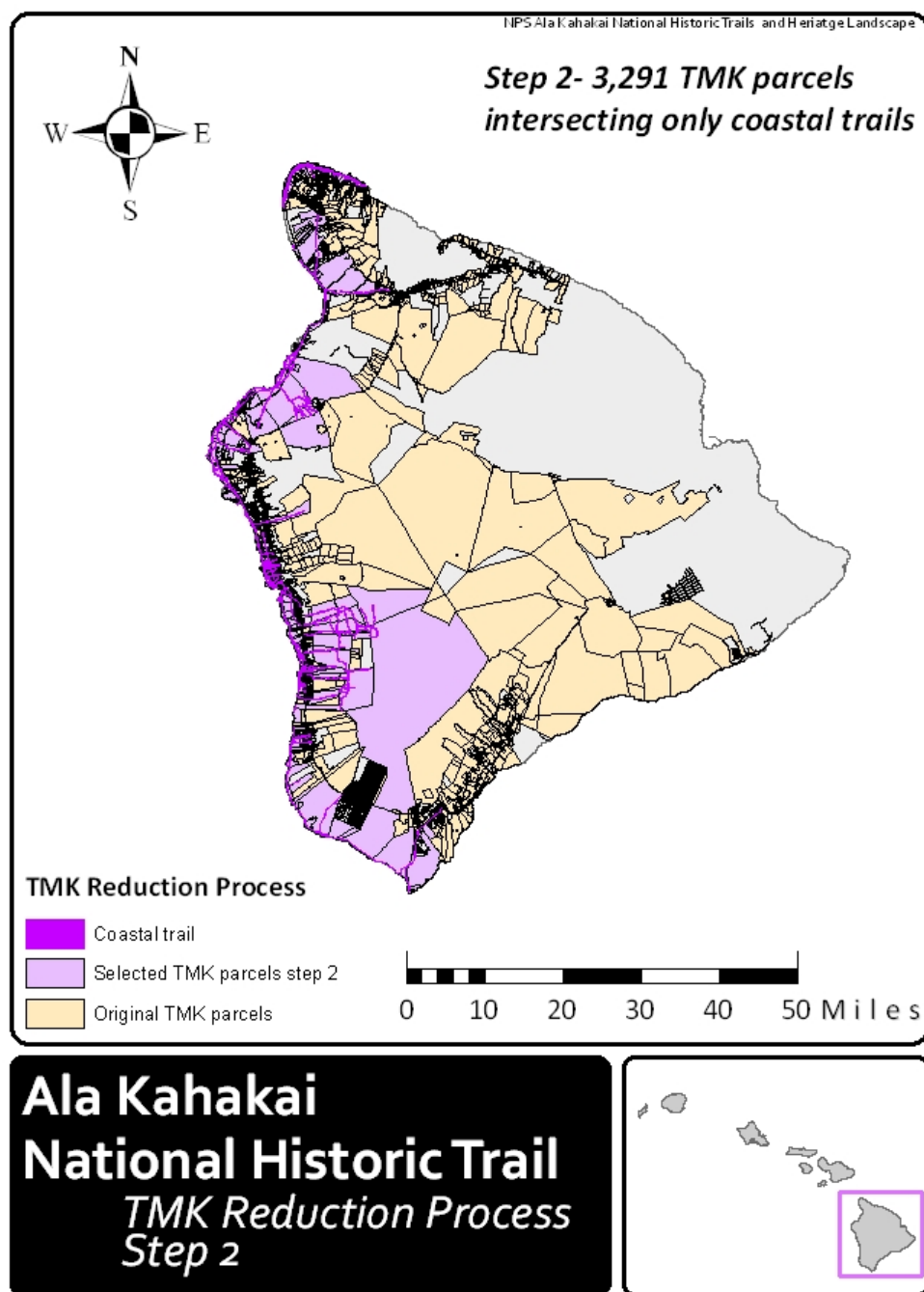


In Step 1, all parcels within a 100 foot buffer around all trails identified from Kohala to Kau yielded (a list of 12,075 TMK parcels to be abstracted). Many of these parcels were outside the original Ala Kahakai corridor because they were associated with mauka-makai trails. Since abstracting over 10,000 parcels in order to determine corridor ownership would not only be time consuming, it would prove unnecessary in many instances, a process of narrowing down and focusing on a more relevant list of parcels was created.

Map 1 TMK Reduction Process Step 1

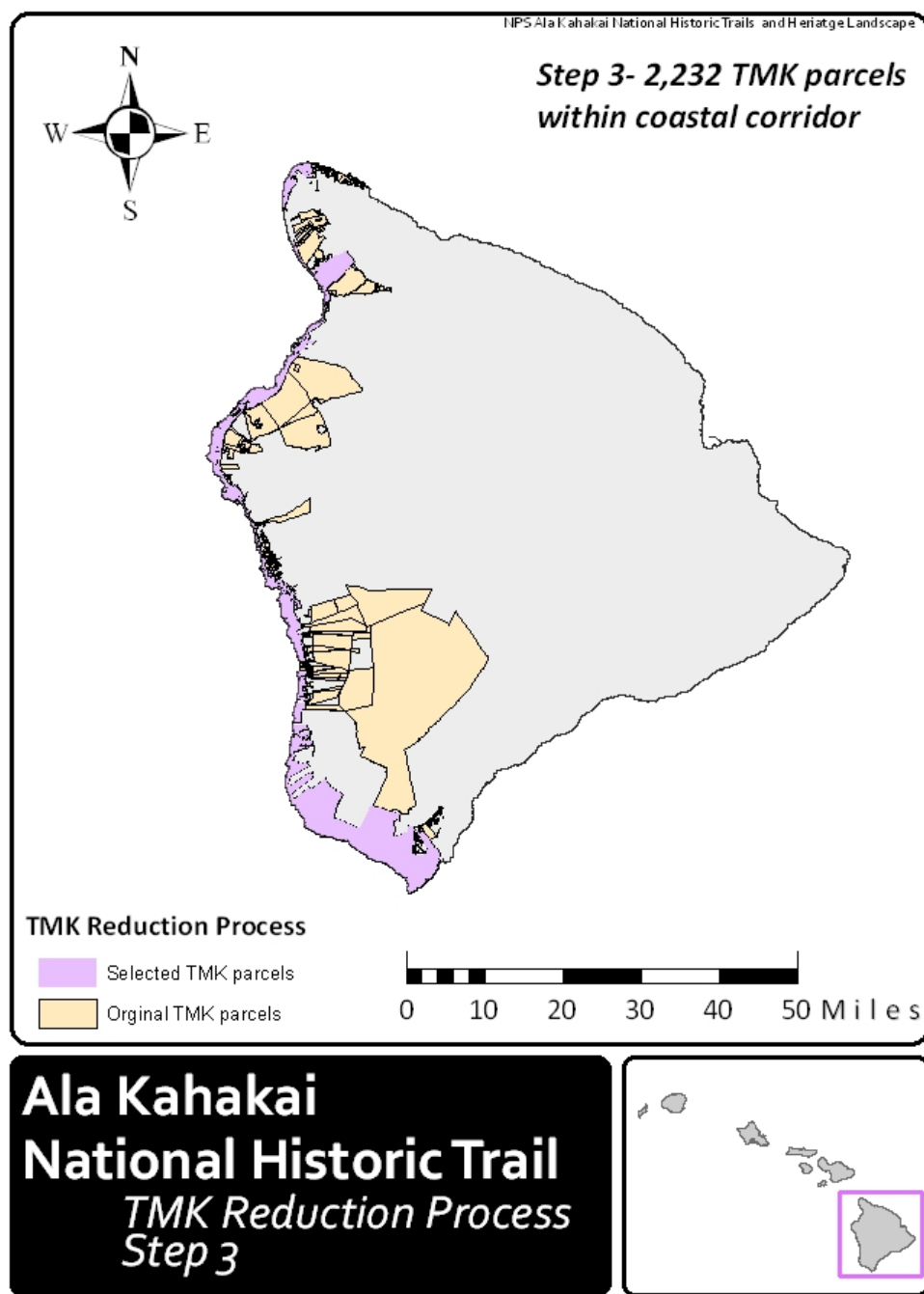


Map 2 TMK Reduction Process Step 2



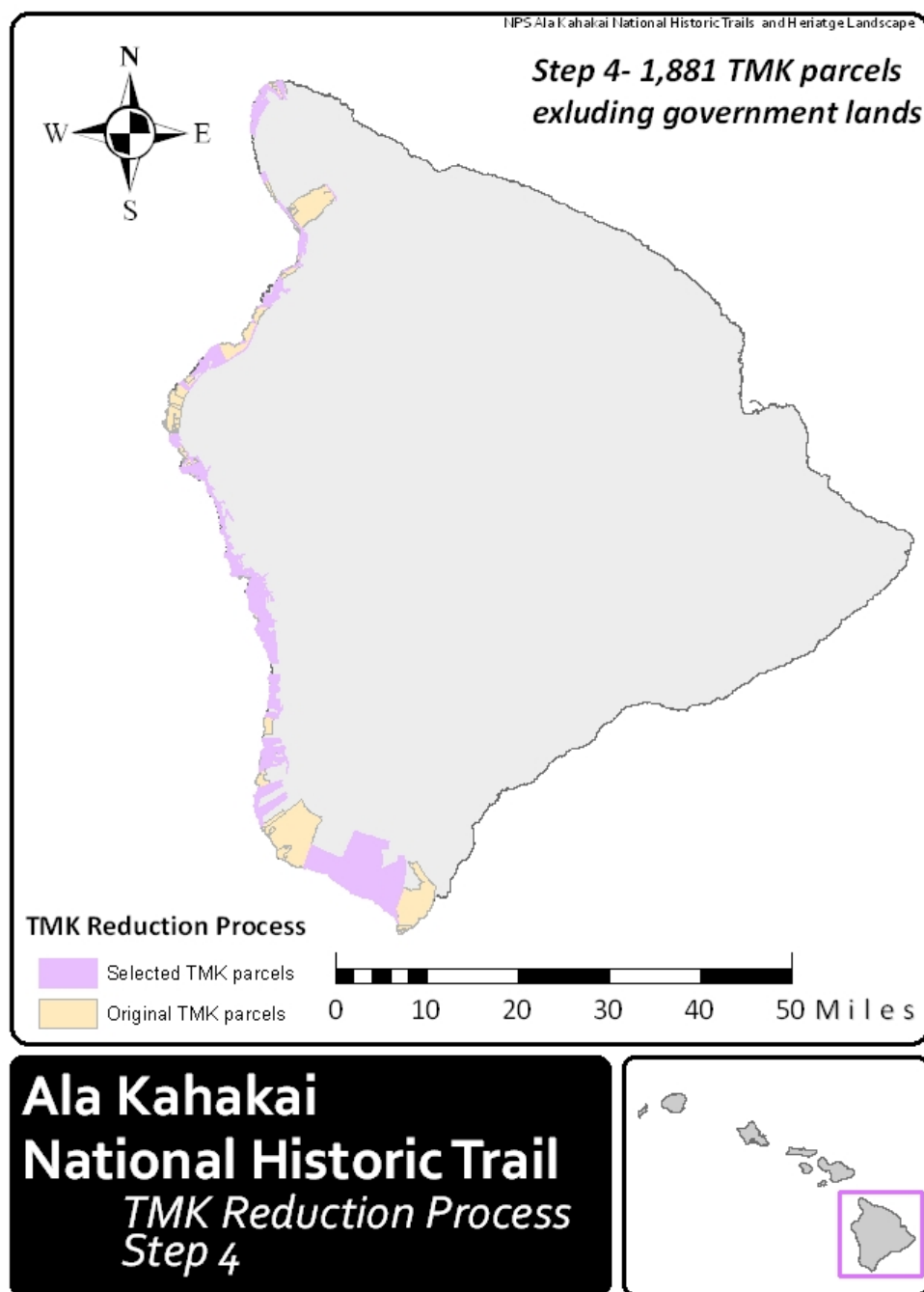
In Step 2, only coastal trails from historic map sources and current topographic maps were selected. All TMK parcels within 100 feet of these trails were selected, using the Select by Location tool in ArcMap, to create the initial TMK list. This list included parcels that were located outside the trail corridor because some of the trails extended from the corridor mauka or beyond the boundaries of the corridor.

Map 3 TMK Reduction Process Step 3



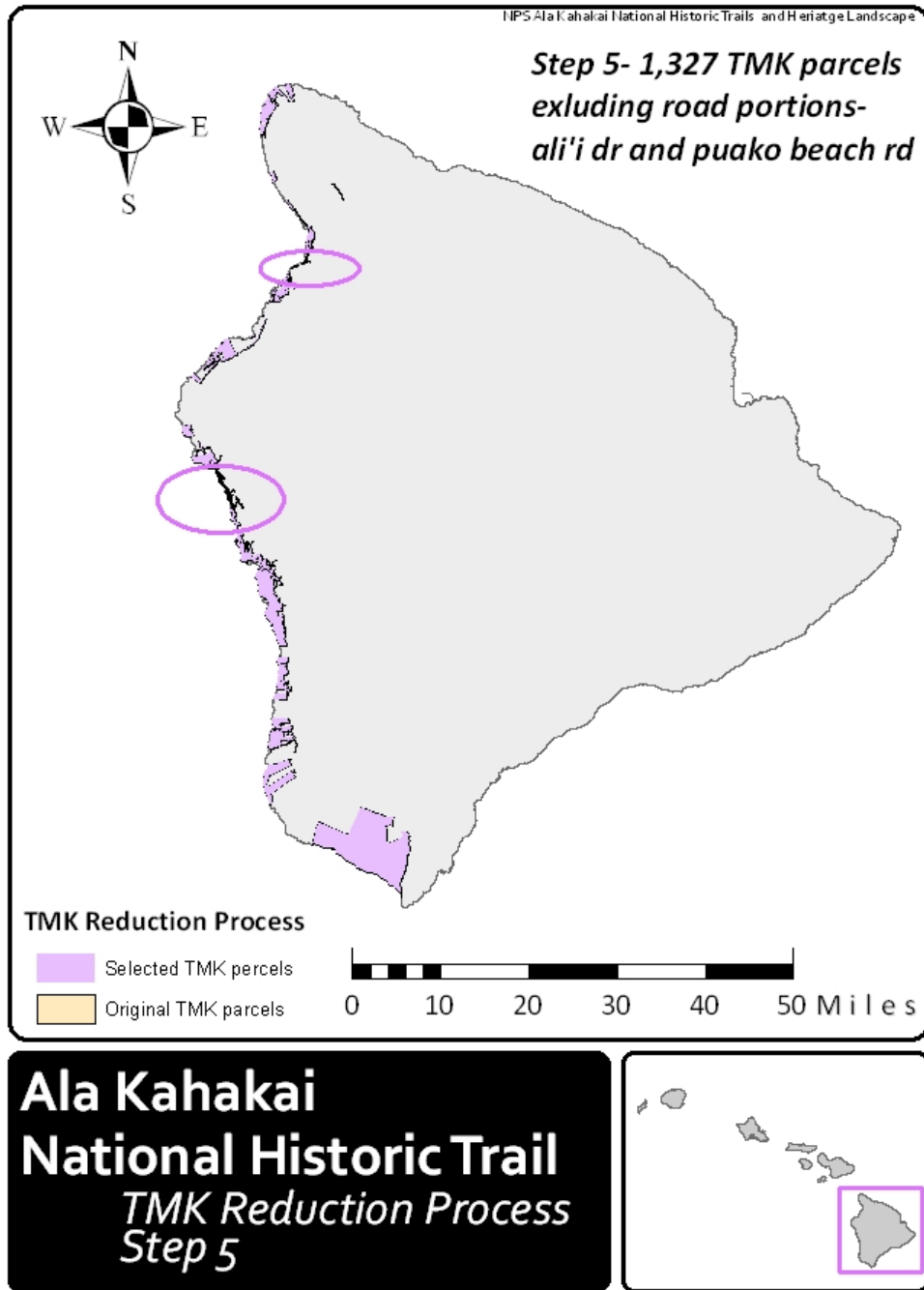
In Step 3, TMK parcels located outside the coastal corridor were removed from the list, such as North Kohala east of Upolu Point and mauka Puuanahulu and Puuwaawaa. The amount of TMK's was reduced to 2,232.

Map 4 TMK Reduction Process Step 4



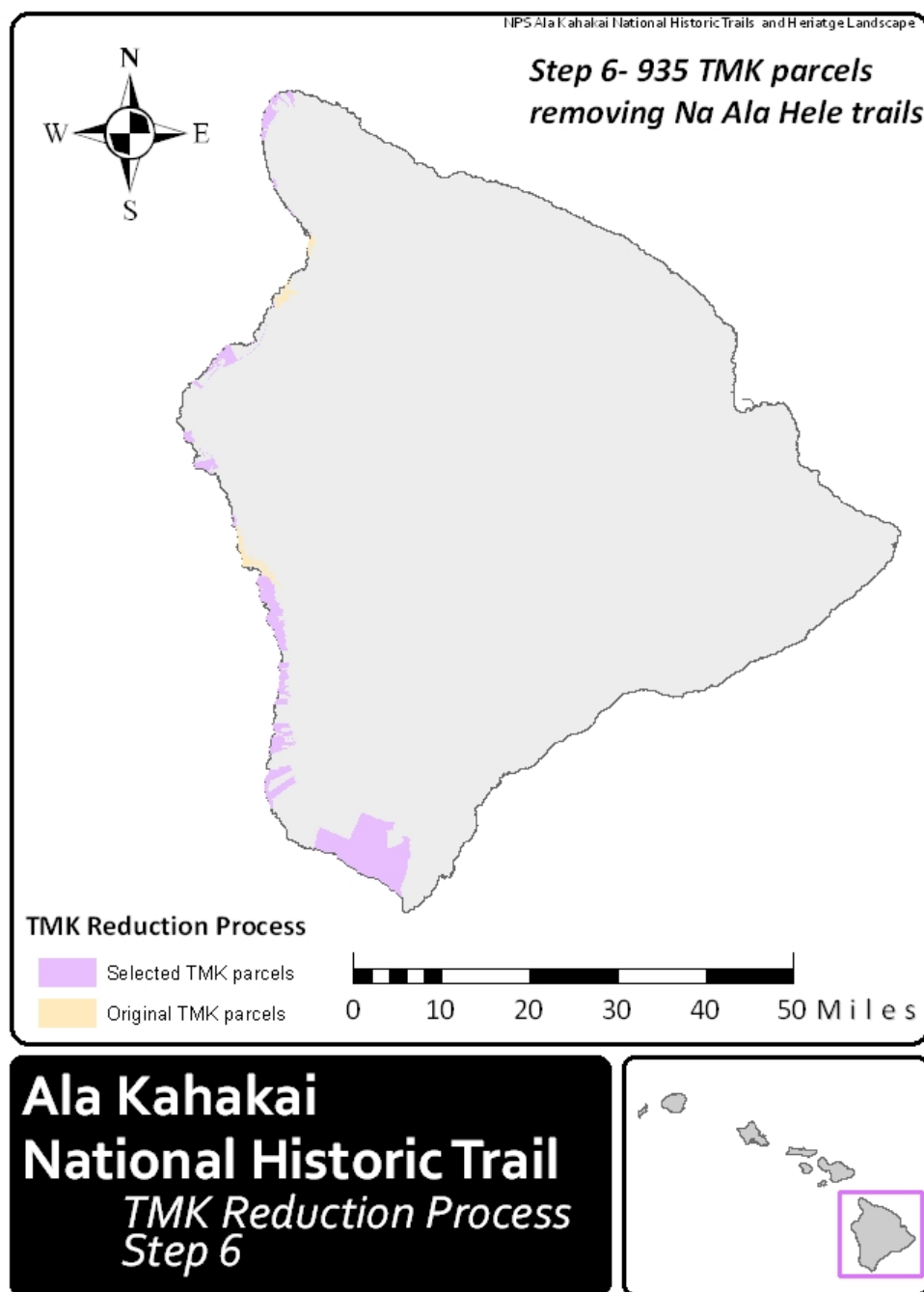
In Step 4, lands owned by the government (County, State, and Federal) were removed because their ownership is already known.

Map 5 TMK Reduction Process Step 5



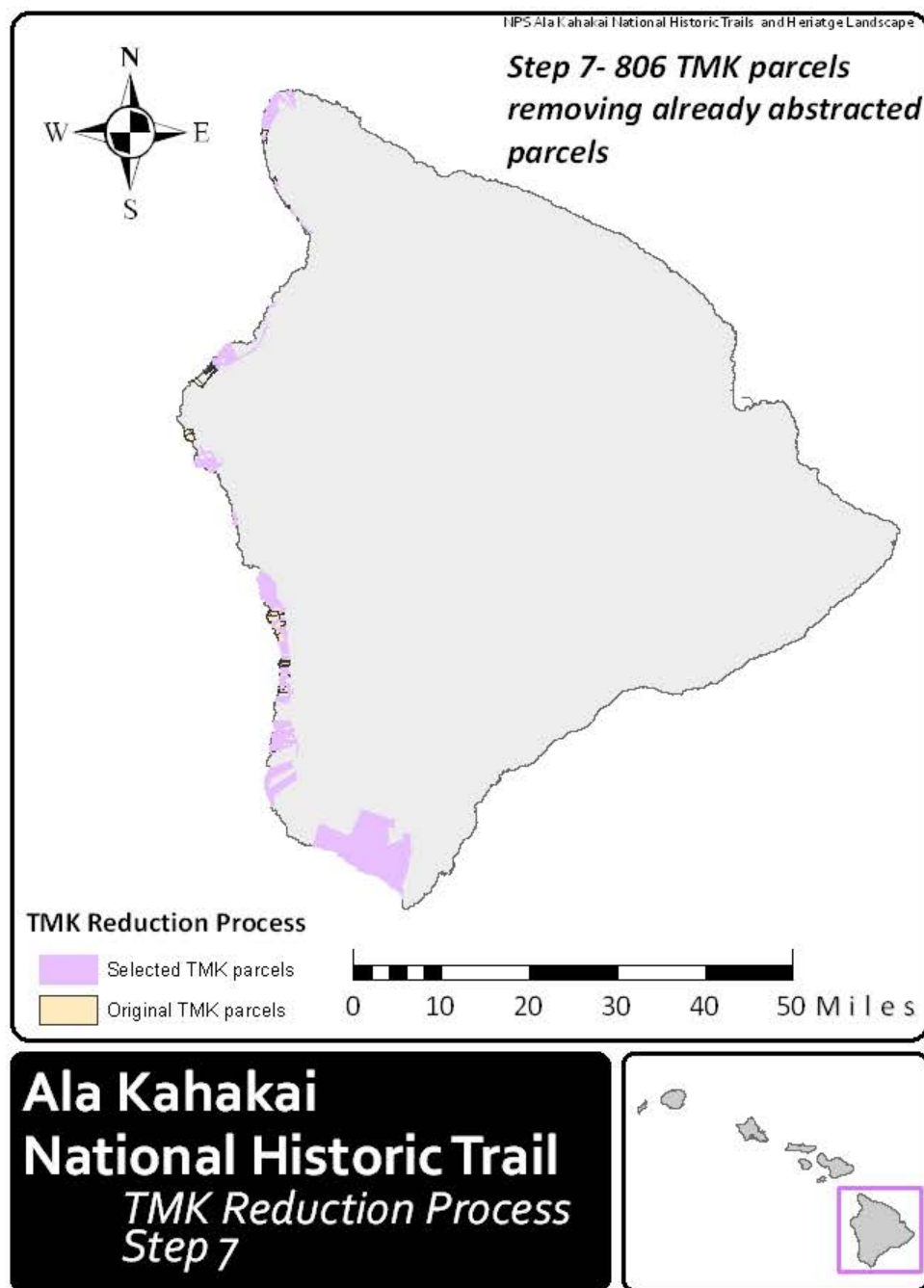
In Step 5, parcels along Puako Beach Road and Alii Drive were removed from the list because in these areas, the corridor will be the road itself, so no abstracting will be necessary.

Map 6 TMK Reduction Process Step 6



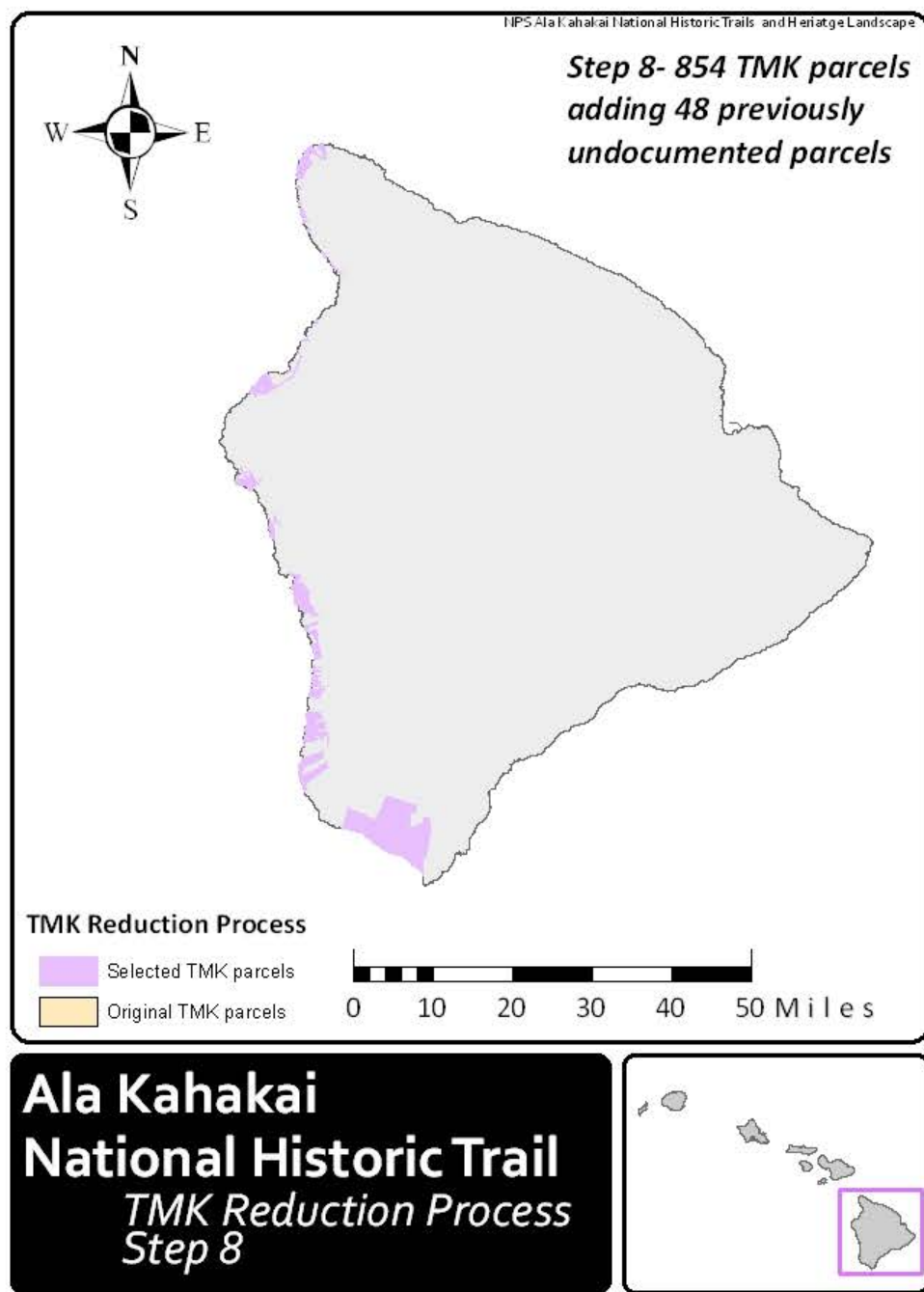
In Step 6, parcels containing Na Ala Hele (NAH) trails were removed from the list. These parcels do not need to be abstracted because the state already has access to the trail on them via NAH.

Map 7 TMK Reduction Process Step 7



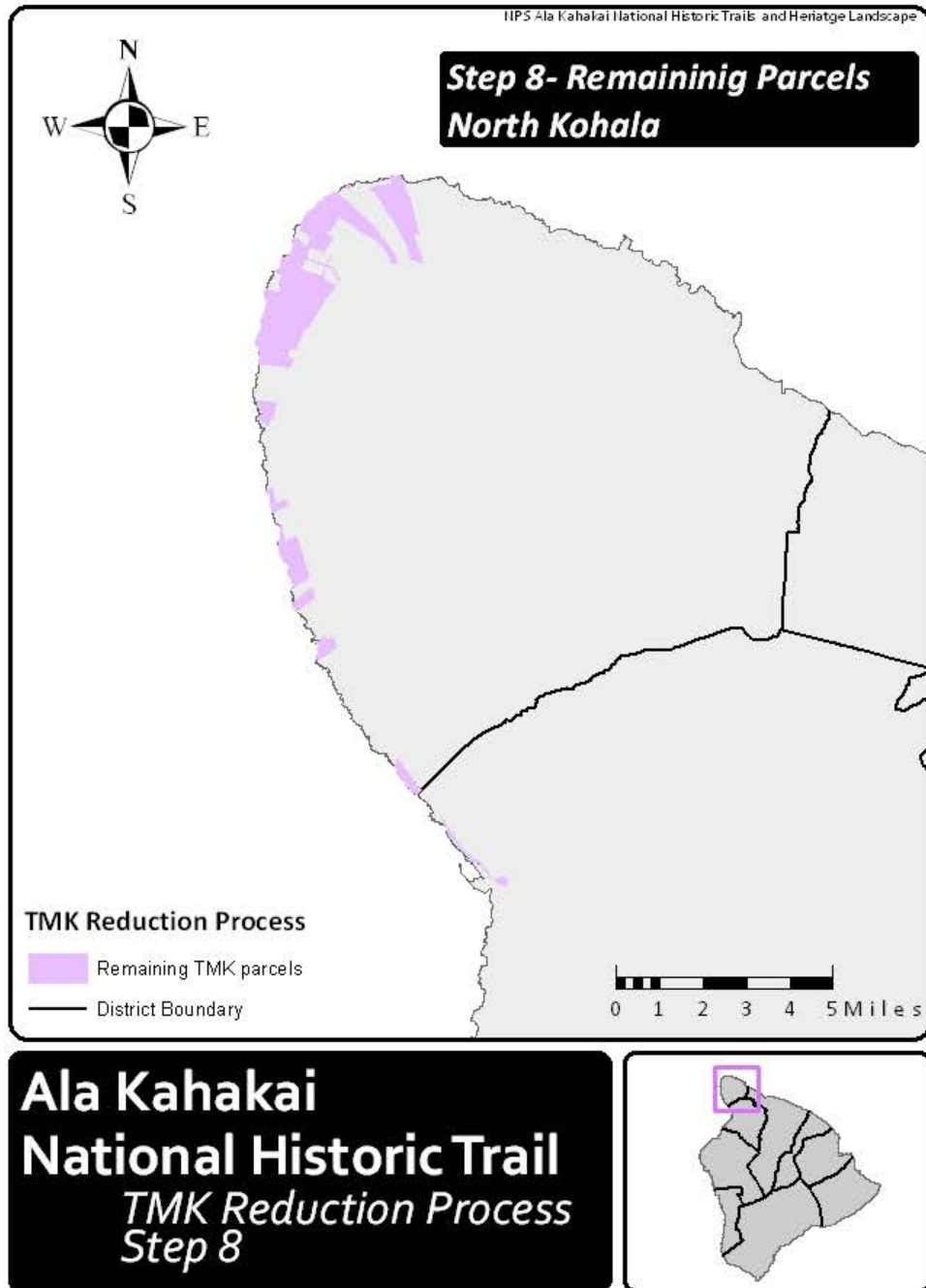
In Step 7, parcels that have already been abstracted or investigated by Moana Rowland, the State of Hawai'i Na Ala Hele abstractor, were removed. See Appendix C for complete narrowed down list of TMK's.

Map 8 TMK Reduction Process Step 8

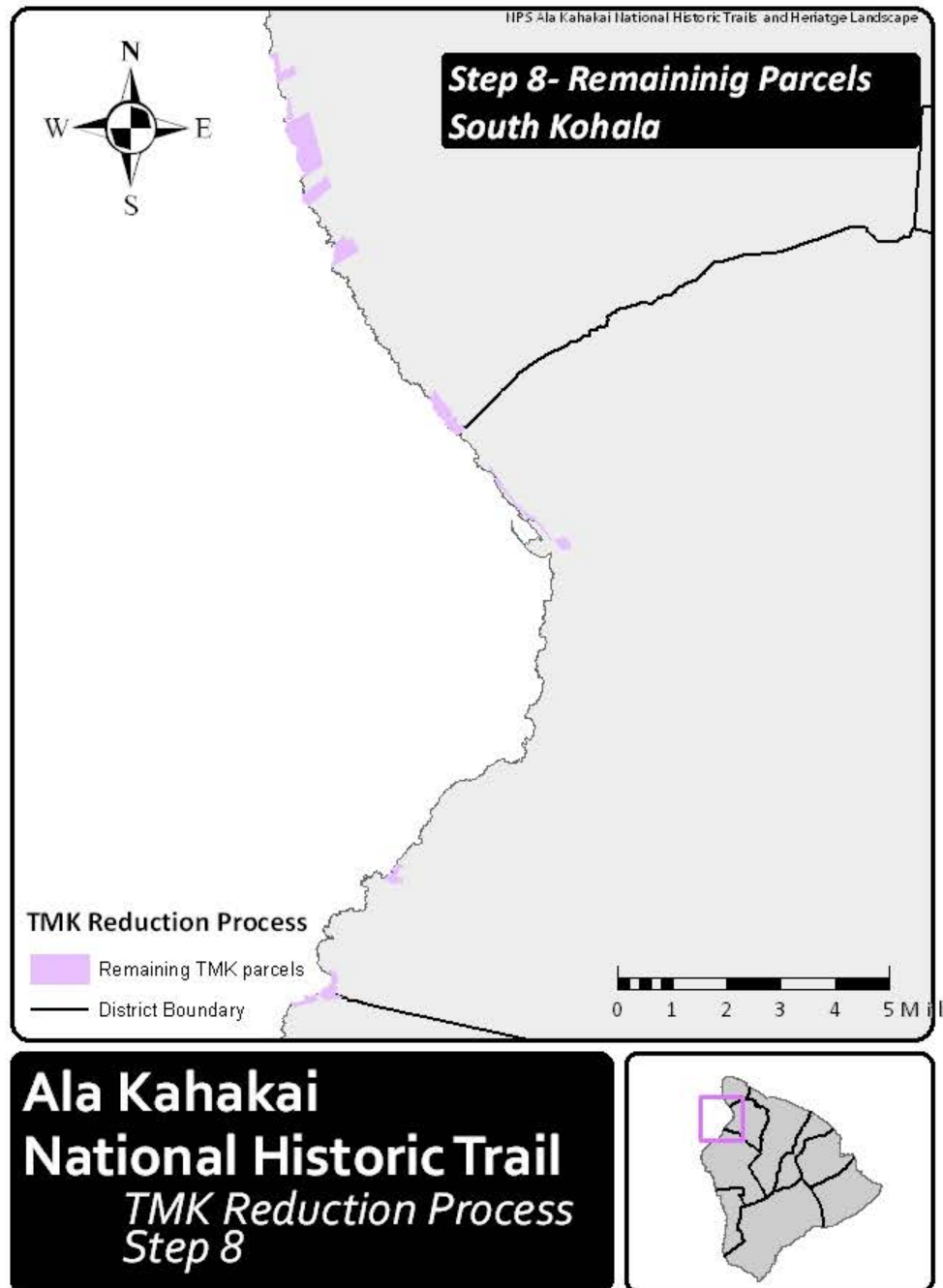


In Step 8, we added parcels which were not already on the list but were along the corridor, and were undocumented to the remaining parcels. Following are detailed maps that highlight where these parcels are located in each district: North Kohala, South Kohala, North Kona, South Kona, and Kau.

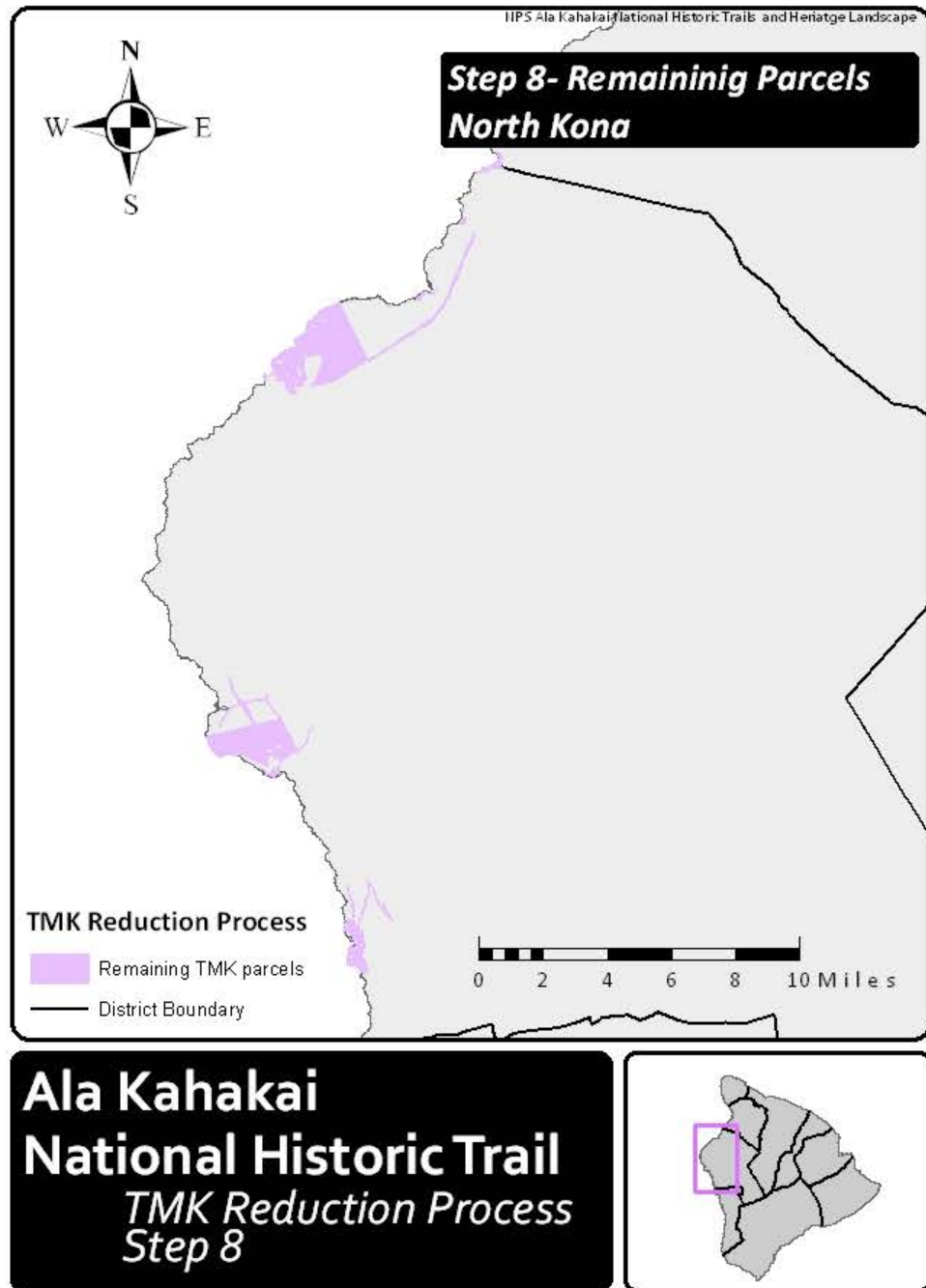
Map 9 TMK Reduction Process Step 8 North Kohala



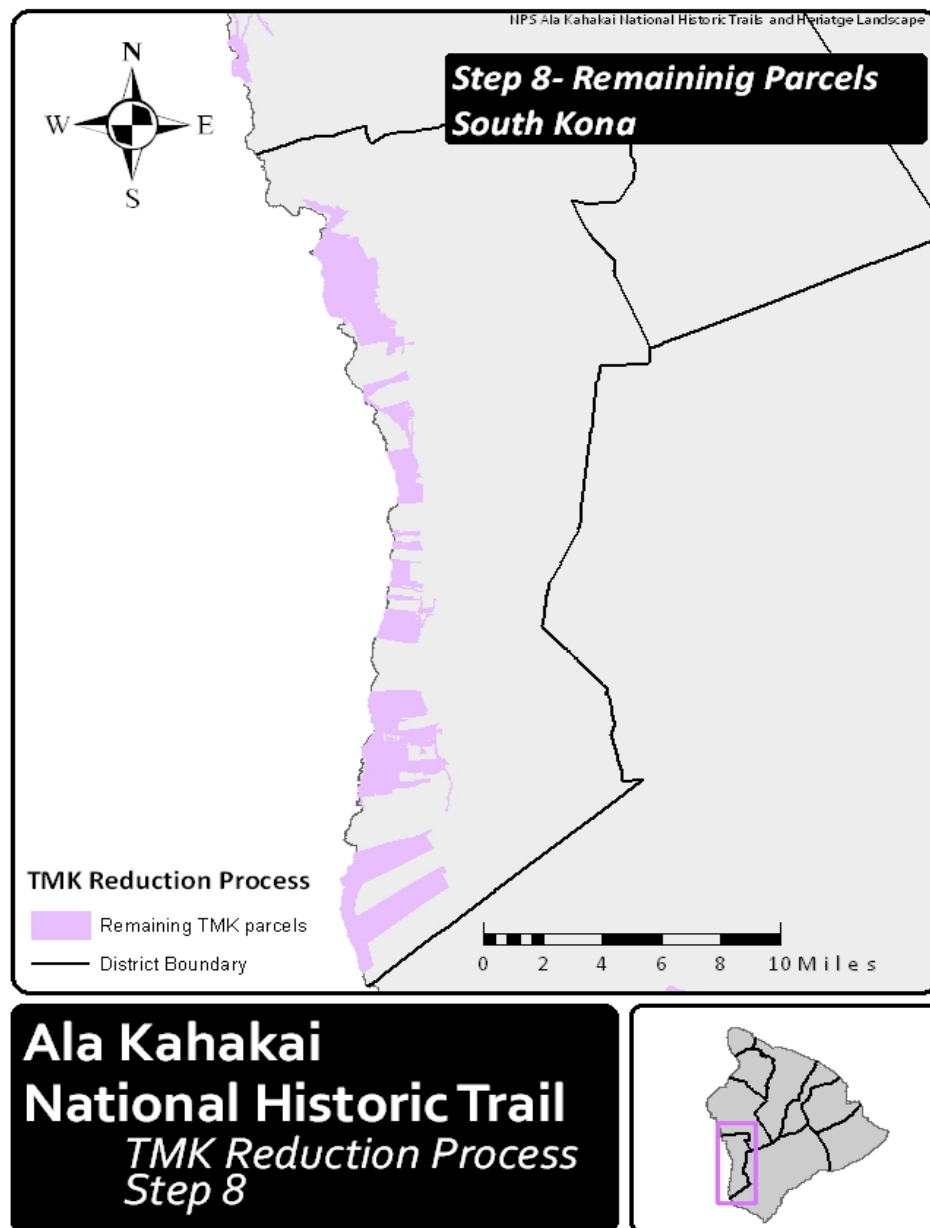
Map 10 TMK Reduction Process Step 8 South Kohala



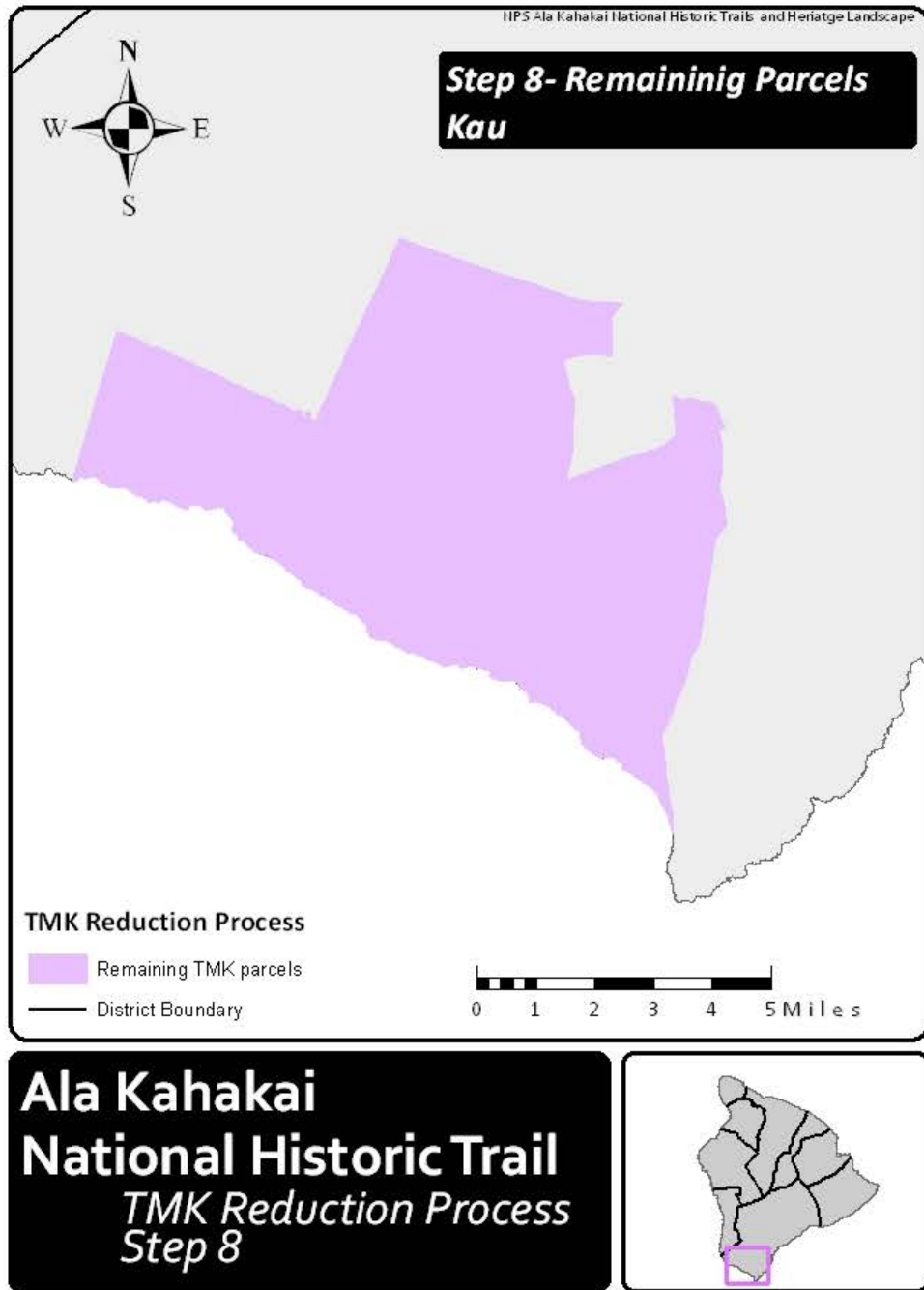
Map 11 TMK Reduction Process Step 8 North Kona



Map 12 TMK Reduction Process Step 8 South Kona



Map 13 TMK Reduction Process Step 8 Kau



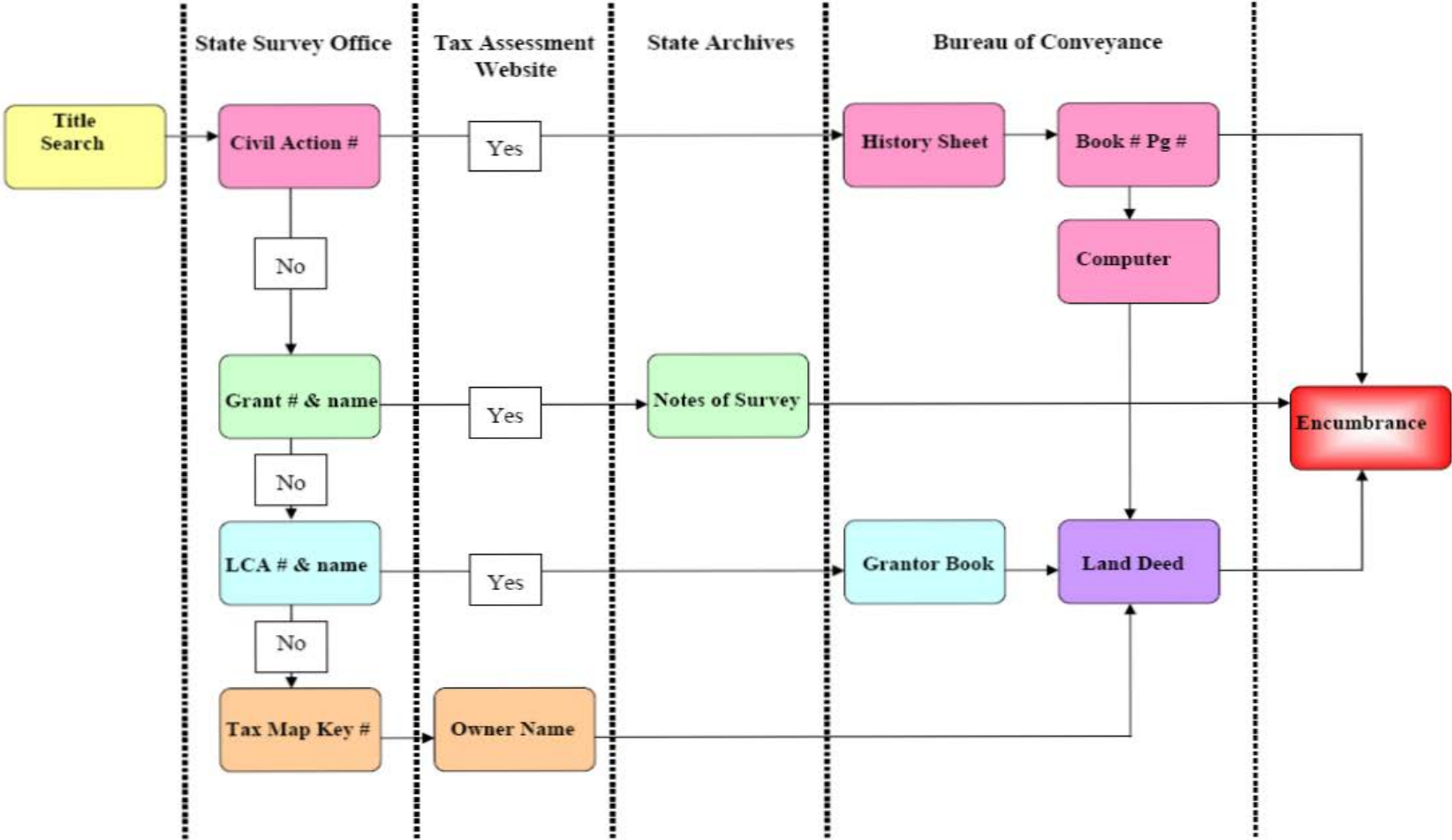
CHAPTER 2 TRAIL OWNERSHIP

The Highways Act was enacted by Queen Liliuokalani in 1892 prior to annexation. The act states that all trails, roads, and rights of way in existence at that time belong to the Kingdom of Hawaii, regardless of surrounding land tenure. This act applies today in HRS 264, which states that all trails, roads, or rights of way that existed in or prior to 1892 currently belong to the State of Hawaii, unless the State has explicitly gone through the legal process of giving up the rights to the trail in a quit claim. This means that if there is documentation of a trail on private property prior to 1892 (e.g. a government map dated 1885), the State can claim that trail today, even if it is no longer visible on the ground. The State also reserves access to trails in easements and other legal documents. If the State claims access to a trail based on the Highways Act, or if a legal document contains a clause reserving the State's rights to trails, then that parcel no longer requires a title search. This chapter describes the process for searching for such encumbrance language.

During our search process, we were guided by Moana Rowland, who is a professional abstractor and works for Na Ala Hele which is a division of the Department of Land and Natural Resources (DLNR). We went to her with only the parcels in the trail corridor which were private, had not been abstracted, were not part of the state trail system and were not a road. Each time we completed a segment of our search we would meet with Moana to determine the best way to proceed. In the pages that follow are descriptions of documents we sought out during our search and processes used to find them and interpret them.

Although there are legalities associated with the certification of an abstract of title for a particular parcel, we are confident that the ground work conducted by the research assistants will help speed up the entire process. In attempting to identify a buffer region for the trail corridor, as well as excluding parcels for which abstracts of titles had already been conducted, many hours of abstracting have been "cut" off the lengthy process. It is our belief that other "short cuts" (See Figure 10 below) could be used in order to avoid conducting abstracts of title on parcels which are not going to present any type of obstacle in the opening, operation, or maintenance of the ALKA trails.

Figure 10 Trail Title Search Flow Chart



2.1 State Survey Office

We began our search at the State Survey Office where we examined the large format TMK maps. We located every TMK parcel in our list on the large format TMK maps and record what was found there in the NPS.Trails_BOC_list 12-2010 Database Excel spreadsheet.

2.1.1 Civil Action Numbers

One short cut to the title search process identified by Moana Rowland was the Civil Action number which is associated with some parcels. A civil action case may result in public access to trails on that parcel. If there is a civil case relating to a parcel, it exists on the large format TMK maps in the State Survey Office. Trail encumbrance language can be found in the civil case's judgment documents, which are usually recorded on the parcel's history sheet at the Bureau of Conveyances.

When examining the large format TMK maps at the State Survey Office, civil action numbers were recorded in the NPS.Trails_BOC_list 12-2010 Database Excel spreadsheet. If there was a final judgment on the case, there would be a document number for that judgment recorded on the parcel's history sheet. One could use that number to find the document and check it for State interest in trails. Alternatively, one is able to get the names of the parties involved in the civil suit, and use those names to search the judicial website for the judgment. That information can be found in the civil case's judgment documents.

2.1.2 Grants and LCAs

Trail documentation can be found in Grants and LCAs, which are identified on the large TMK maps at the State Survey Division. If there is a Grant or LCA on a parcel, we would then look at that document's written description for existence of a trail (Sample images of Grants, Photos 2-3). We would check the notes of survey for the Grant or LCA. For LCA, the notes of survey are on the LCA document itself. To look at the notes of survey, one could find them at the State Archives. Alternatively, one could take the name and number to the Grantor Books at the BOC to follow chain of title there. Some grant documents were written in Hawaiian. A document was created with key Hawaiian words pertaining to roads and trails. This document was used to scan through grants written in the Hawaiian language and can be found in the Appendix of this report (Appendix B).

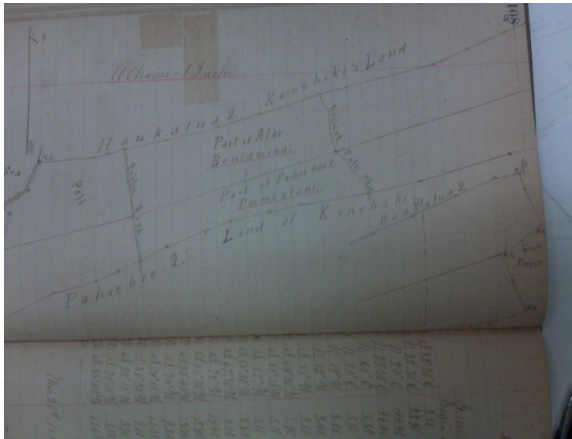


Photo 1 Map in Grant document.

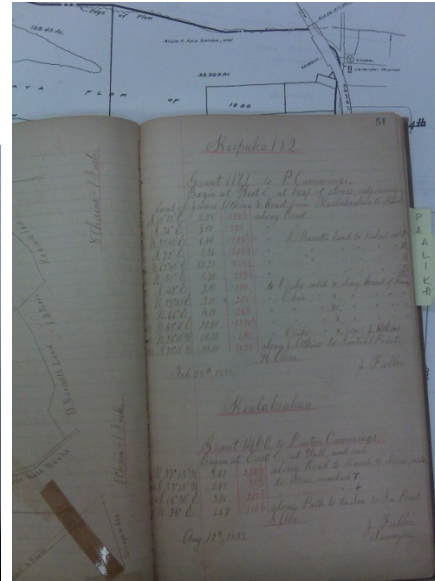


Photo 2 Portion of Grant document.

2.1.3 Copy of Survey Furnished (CSF)

The large TMK map may identify a CSF related to the parcel (Photo 4). CSF stands for Copy of Survey Furnished. This document is a government survey map, created by government surveyors, usually affecting government land. The staff is able to retrieve this document for inspection but one must submit a request as they keep them in back.

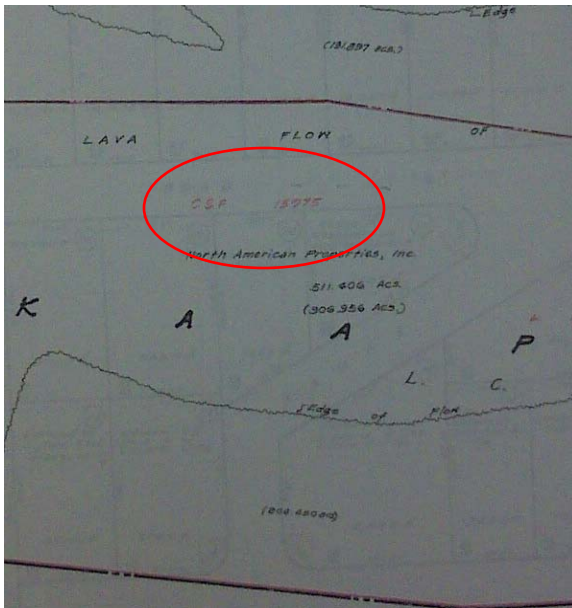


Photo 3 CSF identified on TMK map.

We would screen the CSF (Photo 5). These documents often described the land, listed Registered Maps that were relevant, and listed trails (Photo 6). An example of this is in Photo 7; looking at this CSF map one can note that it does not show a coastal trail however, there are grants and LCAs on parcels that are adjacent to the area covered by the CSF. We would then check those grants and LCA documents for coastal trails because if there are coastal trails on grants and LCAs on either side, then you might be able to connect the dots between them.



Photo 4CSF file.

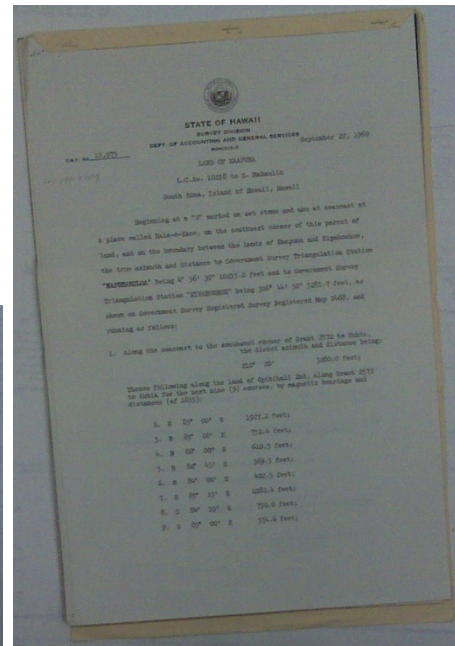


Photo 5CSF document.

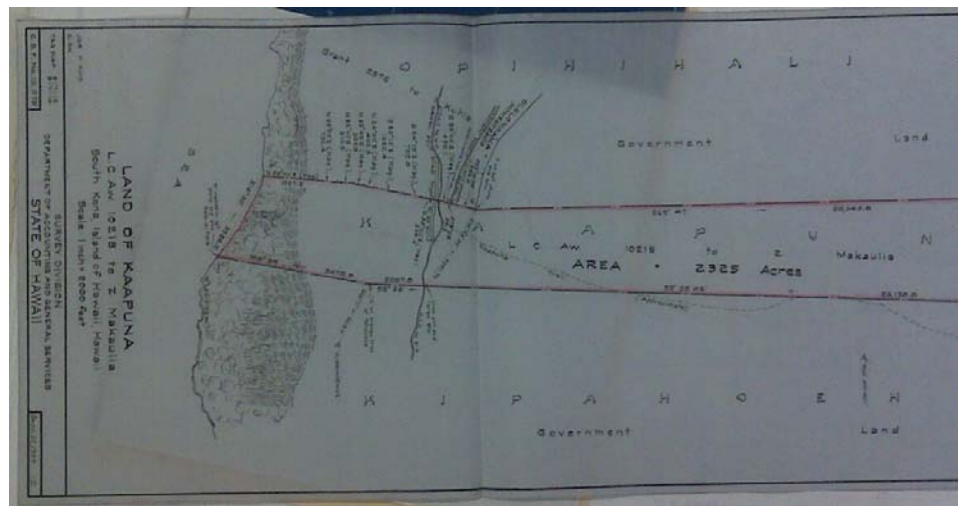


Photo 6 CSF map.

2.2 Bureau of Conveyances

We searched at the Bureau of Conveyances for History Sheets and Deeds to find all remaining TMKs. Each document we located was reviewed for relevant information. Any information we found was record in the NPS.Trails_BOC_list 12-2010 Database Excel spreadsheet.

2.2.1 History Sheets

History Sheets are found in the BOC and are recorded by island, then date, then TMK. To examine the History Sheet for a parcel, we had to look at two different sets of microfiche reels: the 1933-1958 reels and the 1959-1975 reels. Anything found on the History Sheets relating to the Civil Action was recorded in the NPS.Trails_BOC_list 12-2010 Database Excel spreadsheet (Figure 11.) If no information was found relating to the Civil Action, that was recorded as well.

Figure 11 Sample of documentation of civil actions relating to trails

	A	B	C	D	E	F	G	H	I
	TMK	Civil #	Owner	History Sheet Notes	Book	Page	Year	Names	Judgment Notes
2	387003012	5475	KAHOLO PALI LLC	12/21/85 Book 18635, pg. 189	18635	189	1985	Magoon B	State reserves eas
3	387009015	5474	VICTORINE, LERC	Book 20631, pg 751	20631	751			No easement : (
4	386007003	92-185K	Stack Elizabeth M	Not on 1933 roll or 1959 roll. Doc found online, jdgmt doc # 2006-220347			2006		Judgement doc for
5	386007008	88-143K, 92	Stack Elizabeth M	Not on 1933 roll or 1959 roll. Doc found online, jdgmt 2006-220347			2006		Judgement doc for
6	386013041	88-079	Bleher David	Not on 1933 roll or 1959 roll. Doc found online, jdgmt doc # 2006-220347					
7	357003010	5487	Kohala Preserve C	Not on 1933 roll or 1959 roll. Need to check online.					
8	389006005	6000	Child W D Jr	Not on 1933 roll or 1959 roll. Need to check online.					
9	387011006	6539	Mahi Bessie	Not on 1933 roll or 1959 roll. Need to check online.					

If the History Sheet identified the judgment document, we then located and examine that document. If the judgment document contained a clause reserving the State's rights to trails, that was recorded in the NPS.Trails_BOC_list 12-2010 Database Excel spreadsheet (Figure 11). It is possible that these parcels no longer require a title search. If the judgment document contained a clause reserving rights to trails, the document was printed.

We were unable to locate the judgment documents for a number of the Civil cases recorded because the civil case was not mentioned on the History Sheets in the BOC. This was most likely due to the fact that the civil case may have occurred after 1987, which was the end of History Sheet documentation at the BOC.

The BOC does not have TMK parcel History Sheets after 1987. Information after that date is available on the BOC's computer system, which can be searched by Name or Document

Number. When the only data we had was the civil action number, we could not use any of the search options available in the BOC. This left us with a few options for how to proceed with civil cases: 1) Find names to search by name; 2) find the judgment document number another way to search by document number; or 3) examine History Sheets at the County of Hawaii offices. Below is a details description of the options listed above.

1. Search by name. To search the BOC computer system by name, we need to find out the names of people involved in the civil case. This could theoretically be done in two ways:
 - a. Find out the parcel's current owner using the tax records online or the books available at the BOC and search that name, hoping the current owner was involved in the civil case. If the current owner doesn't work, try using the conveyance books to identify the previous owner, and search that name.
 - b. Find information relating to the case using the state judicial website, hoping to find a name that way.
2. Search by document number. Perhaps the state judicial website or judiciary system might yield information on the judgment document number by searching with the civil number.
3. Go to the County of Hawaii. The County of Hawaii Real Property Tax Division maintains current History Sheets for taxation purposes. The records can be faxed for a small fee.

2.2.2 Deeds

A parcel's deed is a formal document that transfers the rights to the parcel from one person to another, often accompanied by a metes and bounds survey. Many deeds have a section toward the end of the document reserving rights to other parties. For example, the State of Hawaii now reserves the rights to "all mineral and metallic mines" in deed documents. In this section, the State can also reserve rights to trails. If we find trail encumbrances in a parcel's deed, it is possible that this parcel will not need to be abstracted.

Deeds can be found at the BOC. To find the deed, we searched the computer database by name of current owner (which can be found using the books there at the BOC or on the tax assessment website). The computer will list all documents for that name. There is no way to tell whether that document relates to a particular TMK or even region without opening the document. Opening the documents is a slow process because the computers are slow. Some names have 100 documents, and some names have 3 documents. We had to look at all of the documents until we found the right the deed. It was a slow and tedious process.

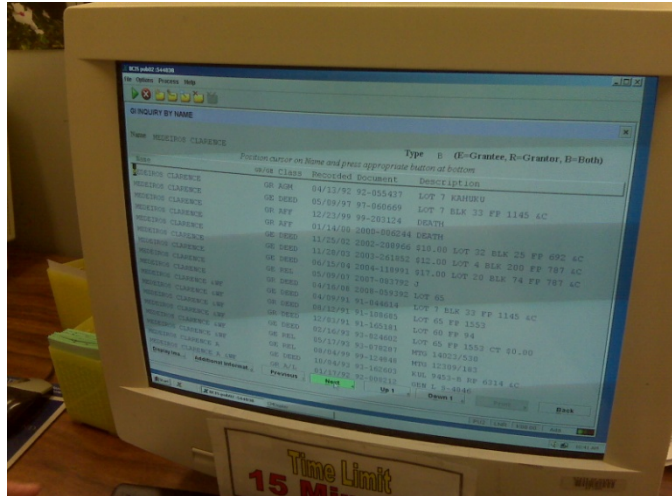


Photo 7 Searching by name to find claims on land.

When we found the deed, we would read it to look for encumbrances. A typical deed is divided into a number of sections. First, the transfer of the property and the parties involved are stated. This section is followed by pages of signatures of the parties. Next is usually “Exhibit A”, which describes exactly what is being transferred between the parties. Exhibit A sometimes includes a metes and bounds description of the parcel and any relevant LCA or Grant information. At the end of Exhibit A is a list of rights that are reserved, or not included, in the transfer of property. This section often begins with the phrase, “Subject, however, to:” Figure 12 and is followed by a list of encumbrances. This is where reservations for trails were most often found.

Some deeds were 2 pages long, and some were 50 pages long. Regardless of length, the presence or absence of encumbrances was recorded in the NPS.Trails_BOC_list 12-2010 Database Excel spreadsheet along with the deed document number and the page on which the encumbrance is located. The deeds were printed at the Will Call room down the hall for a fee. To have a document printed one would need to give them the document number, and they are able to print the document in its entirety. Printing single pages or a range of pages from the document is not possible. The document must be printed in its entirety.

Figure 12 Encumbrance language in deed (doc # 2007-127930) for TMK 3-8-7-014-061

SUBJECT, HOWEVER TO:

1. Title to all mineral and metallic mines reserved to the State of Hawaii.
2. And all existing roads, trails, easements and rights of way.

2.2.3 Grantor Books

Grantor Books track the chain of title on lands. They're organized by island, then by years, then alphabetically by Grantor name (Photo 8). If we had no other information, we would take the grant name and # to the Grantor book (Photos 9-10). Example: Kaiwi conveys to Rice, RP 353, Record book 5, pg 285. If one looks at this document they are able to see what was conveyed. We would then pull the book to see the deed, where the land was, and note another relevant information. Again, because the deed would be where encumbrances for trails would be found, we would follow the chain of title, i.e. from Kaiwi to Rice then from Rice to Kimo, to the most recent date possible, and pull that latest deed to look for encumbrances.



Photo 8 Grantor books

The image shows two pages from a Grantor book for the Island of Hawaii. The pages contain tables with columns for date, grantor, grantee, and other details. The left page is numbered 105 and the right page is numbered 106. The tables list various conveyances, including those from Kaiwi, Rice, and Kimo, with specific dates and land descriptions.

Photo 9 Conveyance data in Grantor book.

2.3 Results

An Excel Database has been created containing the remaining 854 Tax Map Key Parcels (TMKs) for which the process of abstracting may be necessary after conducting the reduction process (Chapter 1).

The documentation process we underwent at the Hawai'i State Archives, the Bureau of Conveyances, and the Hawai'i State Survey Office produced the first steps towards title searching on parcels which we identified as needing documentation with regards to easement ownership and access.

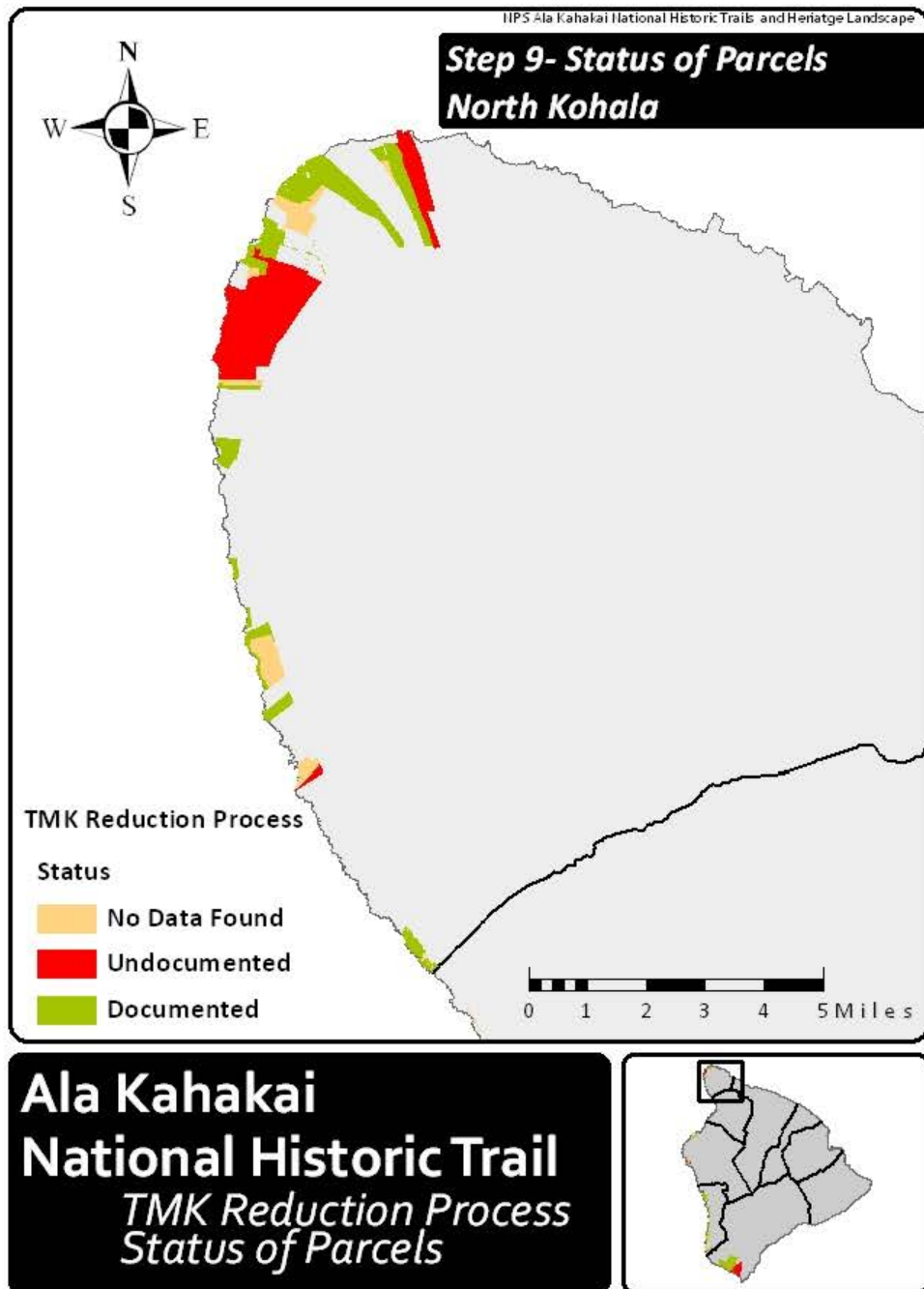
This process of analysis produced a significant amount of documentation with regards to trail language however, that information has not been fully analyzed. The analysis of this information is very important and probably best conducted by a professional abstractor who understands the nuances of various easements and access rights language.

The excel sheet NPS.Trails_BOC_list 12-2010 Database Excel spreadsheet presents the results from the document search. Documents are presented for each TMK in following categories: 1) Notes on Trail via visual Inspection at the State Survey Office, 2) Civil Judgment Notes, 3) Deed Doc Notes, 4) Grant Notes (RP, LG and Gr), 5) Notes of Copy of Survey Furnished (CSF), 6) LCA Notes, 7) Land Court Notes, 8) LF, 9) Job, 10) Māhele Award Notes, and 11) File Plan (FP).

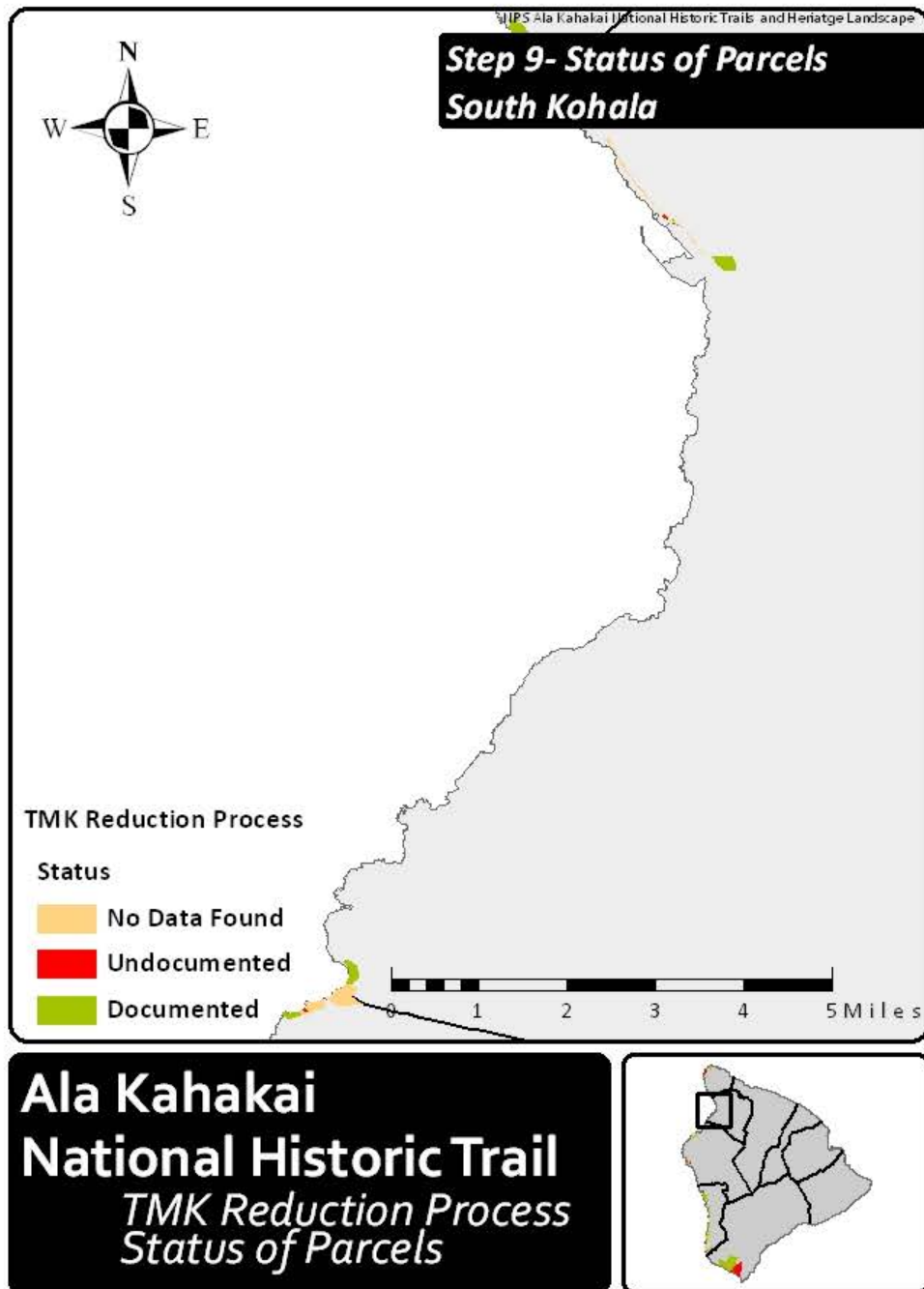
In processing these documents we looked for language pertaining to trails, roads, easement of trails, reserving native tenant rights, and other general trail language. Three categories were established to explain findings:

1. **Documented**— confirms that at least one of the category documents was found and that some general trail language was found. (Cells shaded GREEN)
2. **Undocumented**— confirms that at least one of the category documents was found, but no general trail language was found. (Cells shaded YELLOW)
3. **No Data Found**— states that no category documents were found pertaining to the particular TMK. (Cells shaded RED)

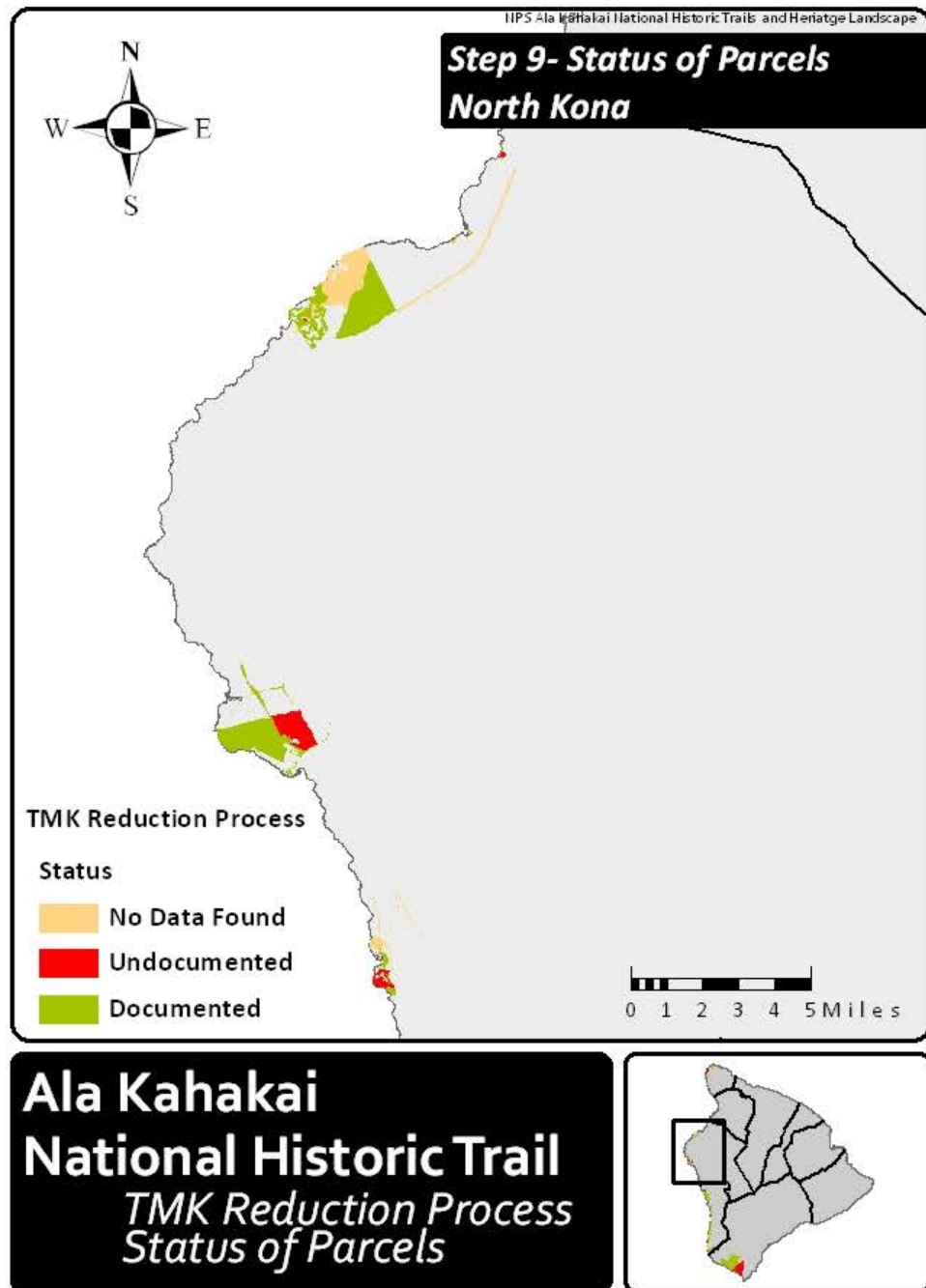
Map 14 North Kohala



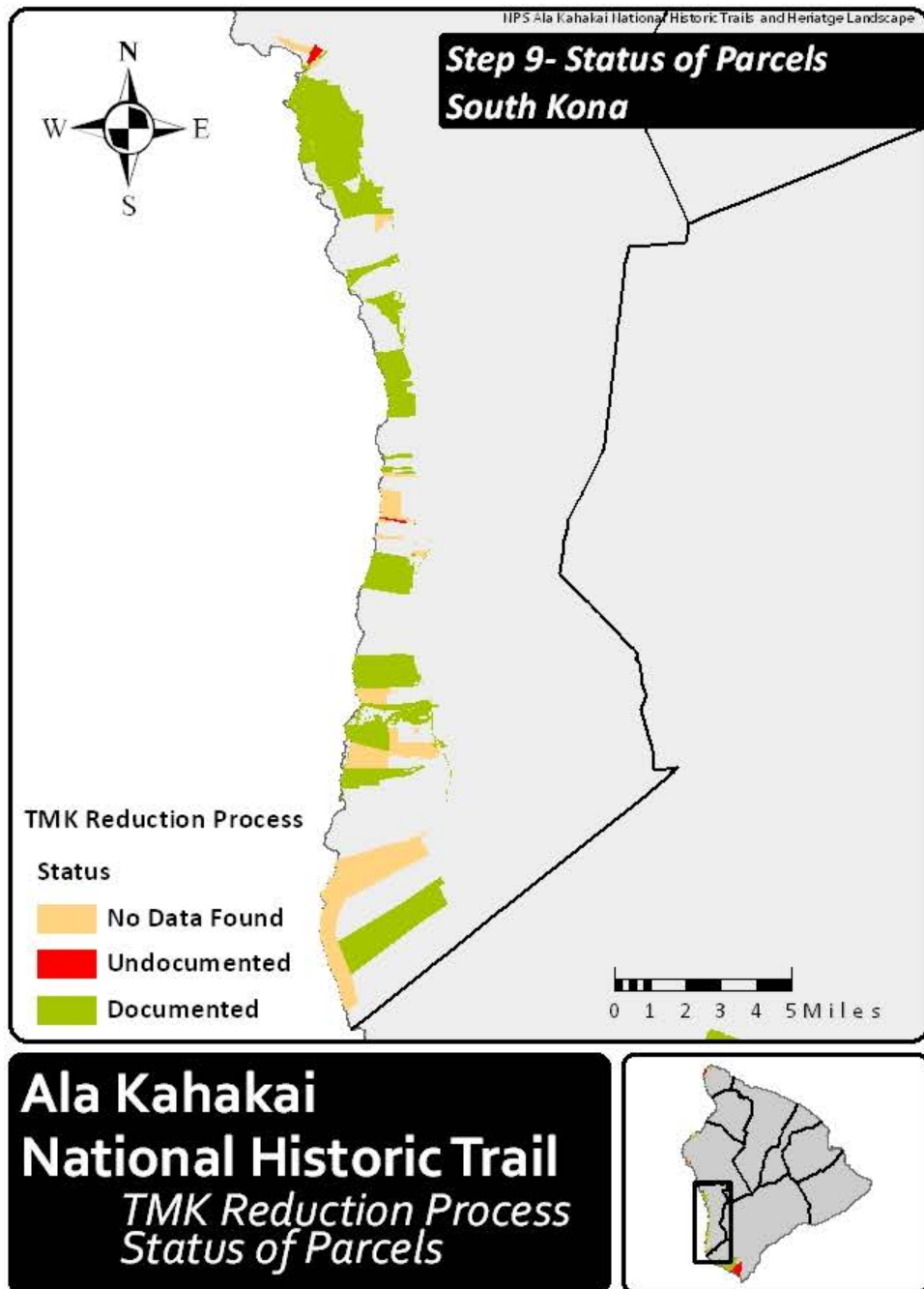
Map 15 South Kohala



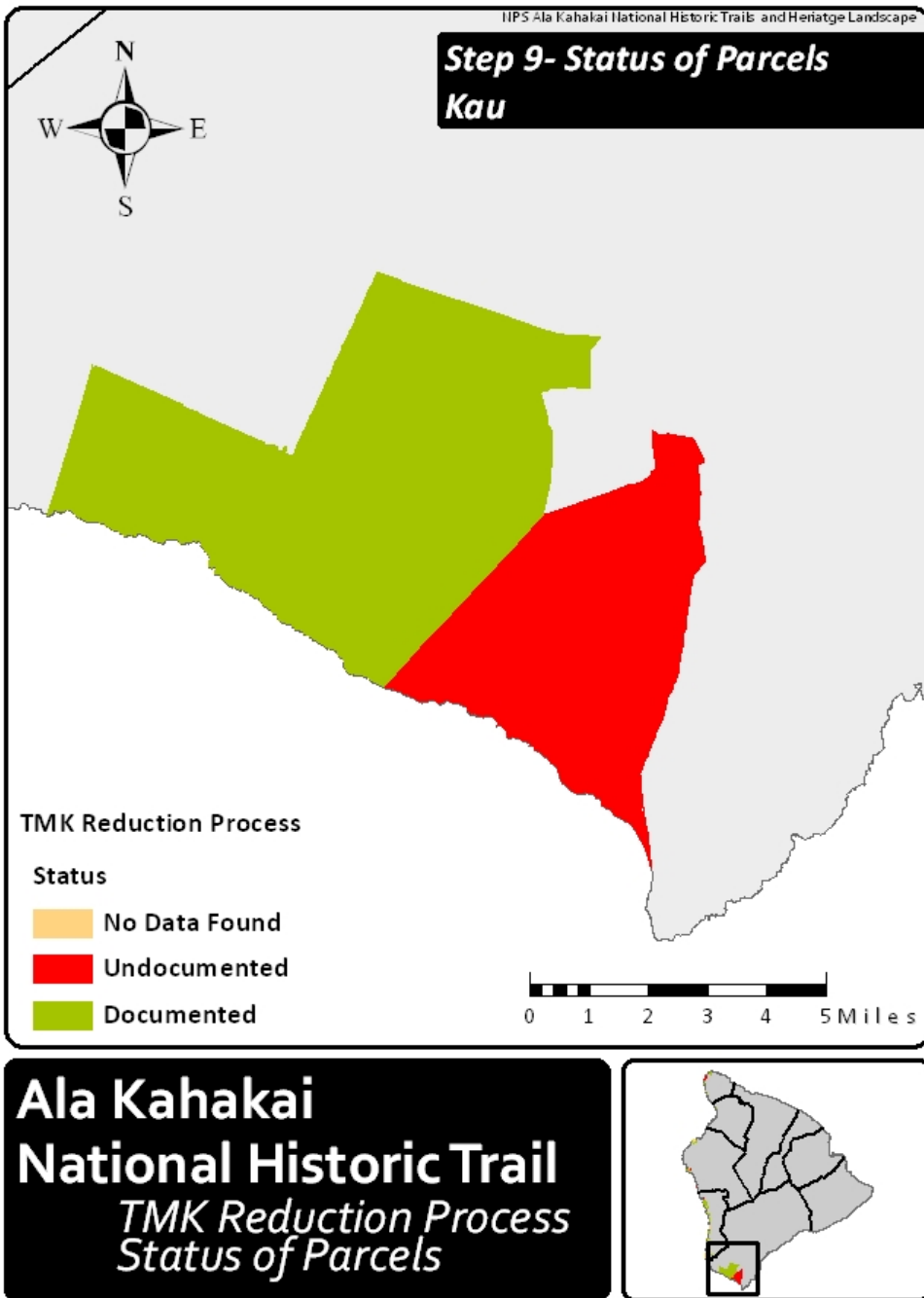
Map 16 North Kona



Map 17 South Kona



Map 18 Kau



CHAPTER 3 ADDITIONAL TRAIL DOCUMENTATION

3.1 Historical Topographic Maps

A set of 15 historical topographic maps and accompanying index are included as deliverables in this report to aid in the trail identification process. A historical set of USGS Topographical Quadrangle Maps at 1:31,650 scale from 1910 to 1933 were found and downloaded in geotiff format from the MAGIS website, <http://magis.manoa.hawaii.edu/maps/digital/quads.html>.

The maps identify natural features including topographical contours; and anthropogenic features such as structures, roads, secondary roads, railroads, and pedestrian trails (Figure 13).

An index of the maps obtained was created to aid in locating relevant maps. The index document is named "DURP_Historical_Topographic_Maps_Index.doc" and was given to NPS in December 2008 as a deliverable.

Figure 13 USGS Topographic map from 1930 depicting roads, secondary roads, railroads, and pedestrian trails in ALKA corridor



3.2 State Survey Office: Field Books

Various surveyors conducted land surveys throughout the Hawaiian archipelago during the mid 1800's into the early 20th century as they continue to do today. As part of our research focuses on assessing ancient natural landscapes, we decided to seek out surveyor's field notes of survey from the turn of the century. The surveyors' original survey field notes can be found in "books" at the Hawai'i State Survey Office.

As part of the general cultural heritage landscape assessment, a *list* of surveyors each with their own set of field books pertinent to West Hawai'i was created. As shown below (Figure 14), the list (in Excel format) is headed by the name of the surveyor. If an assistant surveyor was discovered, his name was placed in the column marked as *Name 2*. The *book number*, *volume number*, *cover title* and *year* are then identified. The column titled *Images* serves to identify books which were determined to contain noteworthy sketch drawings of the region's landscape. The last column is used for basic research *notes* such as "book missing".

Figure 14 List of Surveyors

Name	Name 2	Book	Vol.	Cover Title	Year	Images	Notes
Alexander WD		102		Hawaii Primary Triangulation	1872-1873	none	

Each surveyor had his own methodology and recording technique when conducting surveys. Some surveyors only recorded topographic coordinates for use in the creation of maps, others spent time describing the landscape including trails and vegetation, and some have intricate sketches of vantage points and view sheds of the terrain. As much as possible, these details were noted in our review of the surveyor field books. These books and particularly the sketches contained within them, should be digitally scanned in the future as they offer great pictures of ancient landscapes around the turn of the century.

Whereas some book titles indicate the area being surveyed, others are not so specific, so a quick review of the information contained within each book was conducted to determine the general area being surveyed. This information is noted in parenthesis in the *cover title* column.

3.4 Archaeological Reports

In addition to those archaeological reports reviewed in the previous phase of the project, 34 more archaeological reports were gathered (not yet reviewed) for the newest priority area (Kawaihae-Anaeho'omalu). A list of these newly obtained reports can be found in the excel document "Archaeological Report Review Table" under the tab "2nd batch". These reports were

given as part of the December 2008 deliverables to NPS and can be found in digital form, titled as follows: “District, Ahupua`a, Author(s), Year”.

Analysis

Although the database was created for efficiency and use for personal inquiries, there are some initial interpretations that can be made about the information found within the archaeological reports.

- There are various archaeologists and authors of archaeological reports. Therefore, each report has its unique format and is inclusive of varying information. Some authors focus more on specific site information and archaeological findings while others have cultural history in addition to the archaeological findings. On the other hand, most of the archaeological reports are inclusive of an introduction, a site map, archaeological site findings and details, and a recommendation.
- Each archaeological report has different objectives which usually determines the methods used in their research. Most archaeological reports are done to satisfy the requirements of the State of Hawai'i Historic Preservation Division in response to project development and permitting, which means they are reactive to development. Most methods include mitigation and salvation measures, reconnaissance surveys, data collection, field surveys, test excavations, intensive archaeological surveys, literature reviews, field mapping, and ethnographic work.
- Archaeological reports document areas that vary in size. Some reports are conducted on a parcel of land, a development area, a road corridor, or an entire ahupua`a.
- Trails that are identified in archaeological maps are usually found in a written description and are not always identified on maps. This is useful in determining the existence of a trail, but may be difficult in locating the exact geographical reference of the trail's location.
- Place names are significant in archaeological reports. Almost all reports had some significant place names in their historical review, maps, tables, and site descriptions. Place names can be useful in understanding the cultural landscape, but more importantly the significance of sites and places located in that region.
- All archaeological reports have a findings section. This section highlights the total number of sites found (inclusive of sites previously identified in prior archaeological reports), the name(s) of these sites (if applicable), and the State Historic Preservation Department Site number associated with that site. In addition, there is usually information on any significant features associated with the sites that were identified.

- All archaeological reports end with a recommendation on behalf of the archaeologist. These recommendations usually determine the significance of those archaeological sites identified and are expressed in these general forms:
 - *No significance* – usually results in the continued development without preservation or protection of sites
 - *Significant for Data collection* – more information needs to be collected (usually in salvage excavations) from the site before it can be leveled for development to continue
 - *Significant for Preservation* – specific sites are recommended to be preserved which results in preservation, management, interpretation, cultural, and mitigation plans to be developed before the development

Although these are the general forms of recommendation, there are other versions (more/less specific) that can be found.

Other comments and suggestions include:

- Enforcement— although recommendations are given by archaeologists, and the report is approved by the SHPD in the form of a Letter of Determination (LOD), who actually enforces these guidelines and requirements? For example, Site 50 was recommended for preservation near a hotel development in Kona, Hawai'i in 1980 and its preservation plan is approved by SHPD. The hotel has been built, but is there any follow up investigation to ensure that the site is still preserved?
- Perspective— the significance of sites is determined from the perspective of an individual archaeologist. Although each archaeologist, in essence, is thoroughly trained in the field of archaeology, it is difficult to rest the significance of a site solely on one individual's perspective especially in the shadow of development.
- Reactive Reporting— most archaeological reports were triggered by development or a permit application on behalf of a proposed project. These archaeological reports are then primarily reactionary. Why aren't archaeological reports done proactively? If the State of Hawai'i could develop an inventory of archaeological and historic sites for their lands prior to development, this could result in adequate documentation and preservation of important sites.
- Timing of Report— because archaeological reports are reactionary to project development, and seem to be a "little too late", NPS should keep track of current and proposed development by staying updated on Coastal Zone District Use Application Permits, the environmental updates posted by the Office of Environment and Quality Control. This will be a proactive attempt to preserve portions of the trail and the natural and cultural resources that exist there.

3.5 State Archives: Document Scanning and Analysis²

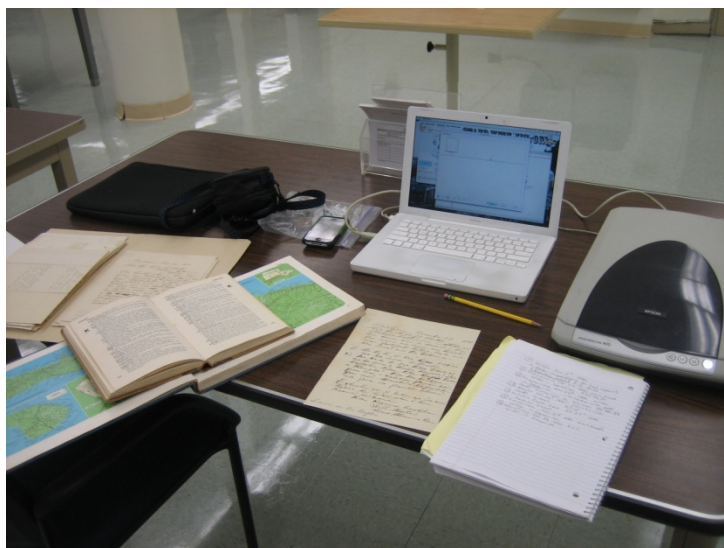


Photo 10 Hawai'i State Archives: Honolulu

3.5.1 Appointments

In order to scan documents at the State Archives (SA) one must first make an appointment with the reference desk. The appointments are made in two-hour increments and if there are two people signed up for an appointment to scan then one must make an appointment for another time. Every week the reference desk asks that the researchers sign a proper protocol. This is to ensure that all participants are aware of how to correctly handle the documents.

3.5.2 Requesting a Box

The first step in requesting a box is to refer to the archives indexes, also called the finding aids. From here one can gather the right information in order to fill out the form to request a specific box and folder within that box. The request forms are found in the plastic container on each table in the main library of the Archives. Once one fills out the form an archive employee will take the slip from the Front Desk and go into the vault and retrieve the specific box requested. An employee will bring the entire box to the front and then from here pull out the folder requested. When the Front Desk is done retrieving the requested box one must wait for it. The Front Desk calls ones name once they have the folder requested. There is a bit of a wait for them to find a box. Once a box is pulled from the vault and is in at the front desk there is no

² These documents (database) are included as part of this document as a stand-alone electronic file. "Road Box Database"

wait in requesting another folder from that same box. Furthermore, through communicating with the Front Desk they are able to keep the box available for several days at a time as one goes thoroughly through a single box. Therefore, for sessions where one does not have to request a box there is no wait for the folder they have requested.

Figure 15 Records Request Form

HAWAII STATE ARCHIVES RECORDS REQUEST			
IMPORTANT: Keep papers in same order and replace in same folders or boxes in which they were when received. Handle all material carefully. Do not trace or write upon material, fold in a different manner or mistreat in any way. YOU ARE RESPONSIBLE FOR MATERIALS RETRIEVED FOR USE UNTIL THEY ARE RETURNED TO ARCHIVES STAFF.			
NAME (print):		DATE:	
Signature:		TELEPHONE:	
MATERIAL REQUESTED:		STAFF USE ONLY:	
Collection # / Call #	Description	Location	RETURNED
AH-11 (rev. 10/97)		MAIL ☐ PHONE ☐	

3.5.3 Selecting a Folder

After referring to the index list of various boxes one will write on the SA request form the proper information (**Error! Reference source not found.**). This includes the subject of the box, the box number along with a description, and fill in the personal information, which includes printed name, signature, date and telephone number. Example for the road boxes would be: Interior Department, Subject: Road Box 38 1879-1885, folder 1879.

One will look for the Island of Hawaii and years prior to 1892 and for the subject of the box to be "Roads". This includes Boxes 37, 38, 39 and 40. One road box may have several folders to navigate through or there may be just one folder. For example the inventory for Road Box 37 had one folder, which included inventory of documents on roads from the year 1855-1878. Whereas Road Box 38 contained the inventory for years 1879-1855 but contained several folders. The folders might include documents from an entire year or the year could be broken up into segments by months, in which one year might have up to three folders.

For example Road Box 38 includes years 1879-1855. The year 1879 has its own folder. The year 1881 has three folders: January-May, June-August, and September-December. One will go

through each folder from start to finish. The documents are in order by date within the folder and the folders are kept in order by date as well.

Figure 16 Page from Research Aid Indices

Copied at Hawaii State Archives

INTERIOR DEPT., SUBJECT

BOX 35	PRIVATE WAYS & WATER RIGHTS, COMMISSIONERS OF: ☒ Hawaii, 1888-1900 ☐ Kauai (1886-1899) ☐ Maui, 1857-1899 ☐ Molokai (1878-1889) ☐ Oahu, 1856-1895 RAILROADS & RAILWAYS: Dillingham Colonization, 1888 Hawaiian Tramways Co., Ltd., 1888-1900 Honolulu Rapid Transit Co. (1894-1900)
BOX 36	RAILROADS & RAILWAYS: Marine Railways (1857-1883) Oahu Railway & Land Co., 1888-1900 Railways (1877-1899) ROAD DAMAGES - Vouchers: Hawaii Honolulu Kauai, Maui, Molokai, Oahu (Ewa)
BOX 37	ROADS: Hawaii, 1855-1878
BOX 38	ROADS: ☒ Hawaii, 1879-1885
BOX 39	ROADS: ☒ Hawaii, 1886-July, 1889
BOX 40	ROADS: Hawaii, Aug. 1889-1892
BOX 41	ROADS: Hawaii, 1893-1895
BOX 42	ROADS: Hawaii, 1896-1900 Kauai, 1854-1884
BOX 43	ROADS: Kauai, 1885-1900 Maui, 1851-1866
BOX 44	ROADS: Maui, 1867-1883
BOX 45	ROADS: Maui, 1884-1895
BOX 46	ROADS: Maui, 1896-1900 Molokai & Lanai, 1856-1899 Oahu: Honolulu - 1852-1882
BOX 47	ROADS: Oahu: Honolulu - 1883-1900 Alakea Street, 1878-1890 Alapai Street (1890-1900)

3.5.4 Note Taking

While one is scanning documents it is important to keep detailed notes of the documents and how they are being stored. These notes consisted of first labeling the folder of the scans by the date and box of the folder and numbering the document starting with 1 through however many documents were scanned in that folder. (Usually there were around 20 or so documents of importance from each folder). Within a folder there are letters from all the districts of Hawaii. One will look for language in the document that noted a place from the Ala Kahakai National Historic Trail Corridor. This includes the districts North and South Kohala, North and South

Kona, and Ka'u. There were a number of documents from the districts of Hilo, Hamakua, and Puna which would not apply to the trail corridor.

Once the document is scanned one will give the scanned document a specific number based on its order in the folder and record this number in the notes. When the scanned document is identified by its chronological number one will record the place name, which is usually the place of where the document was written, the specific date, whether it was written in Hawaiian, and any specific information that might be pertinent. For example it is important to note that the place name might be Hilo but the document might contain information for roads in Ka'u. Also, one should include the corresponding numbers for the scans. One document could have any number of pages and therefore any number of scans. Instead of labeling every scan a specific name one would label each folder in accordance with the box and date that the folder comes from and then the scans would be numbered in sequence as the scans are made. For example Road Box 38 Folder 1881 Jan-May document 1 contains scans #1 and #2 for (two scans) and document 2 contains scans #3, #4, #5 (three scans).

3.5.5 Creating Electronic Files

Once all the documents from a specific folder are scanned, one can go back to the office and go through the notes in order to create specific files for each scanned document on the computer. The electronic files consist first of the road box number and then within that electronic file there will be an electronic file for each year. Within the electronic files for each year if there is more than one folder than there is an electronic file created for each folder. Inside this electronic file are the individual electronic files for each scanned document. These electronic files are labeled with corresponding numbers (Figure 17, Figure 17, Figure 18, and Figure 19).

Figure 17 Road Box Electronic File

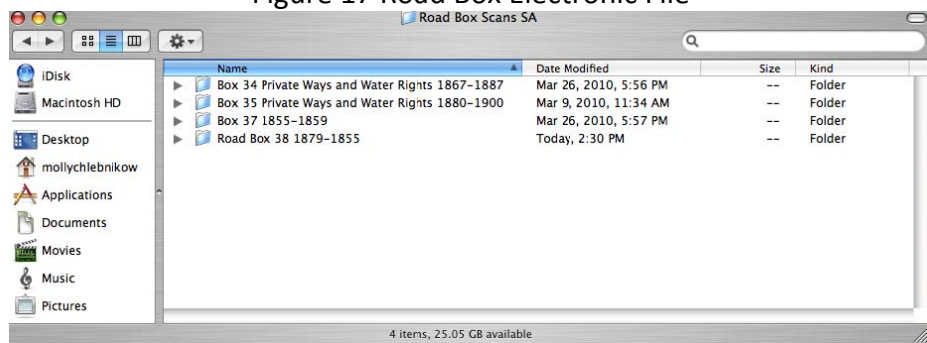


Figure 18 Catalogue of Electronic Files of Folders Within the Specific Road Box

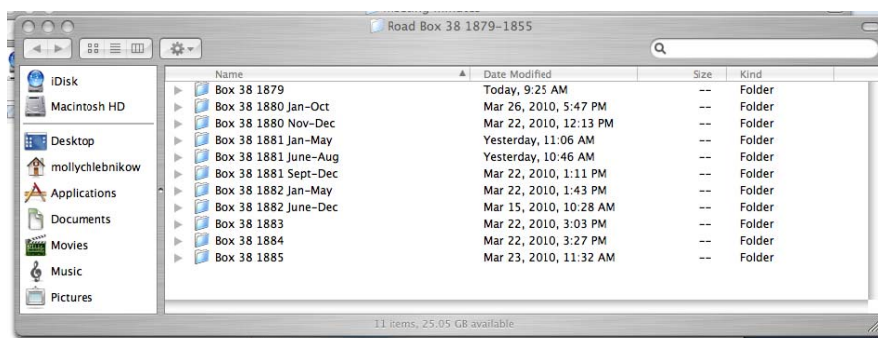


Figure 19 Catalogue of Each Document Scanned from a Specific Folder

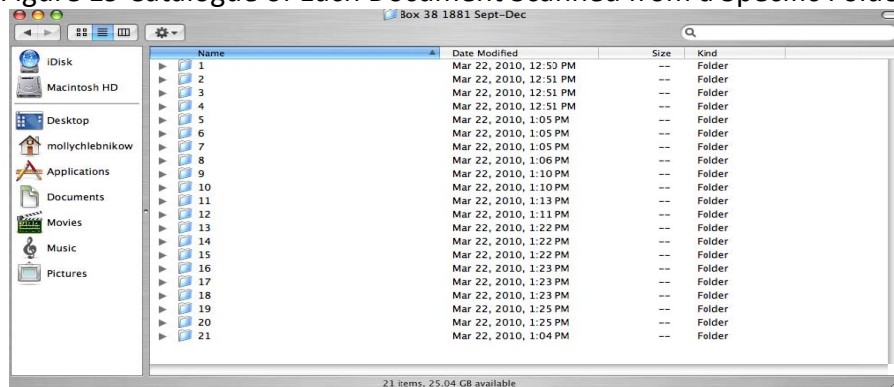
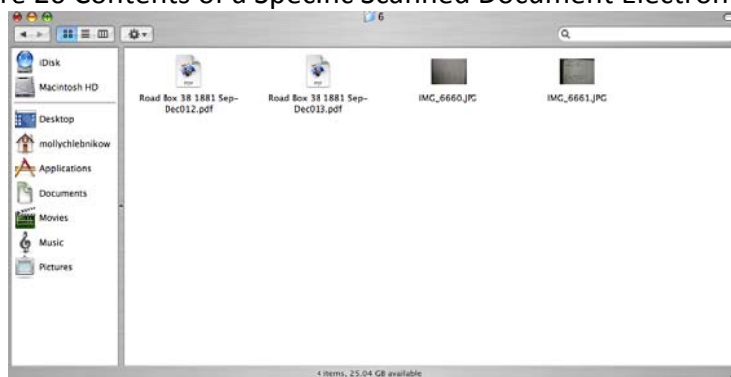


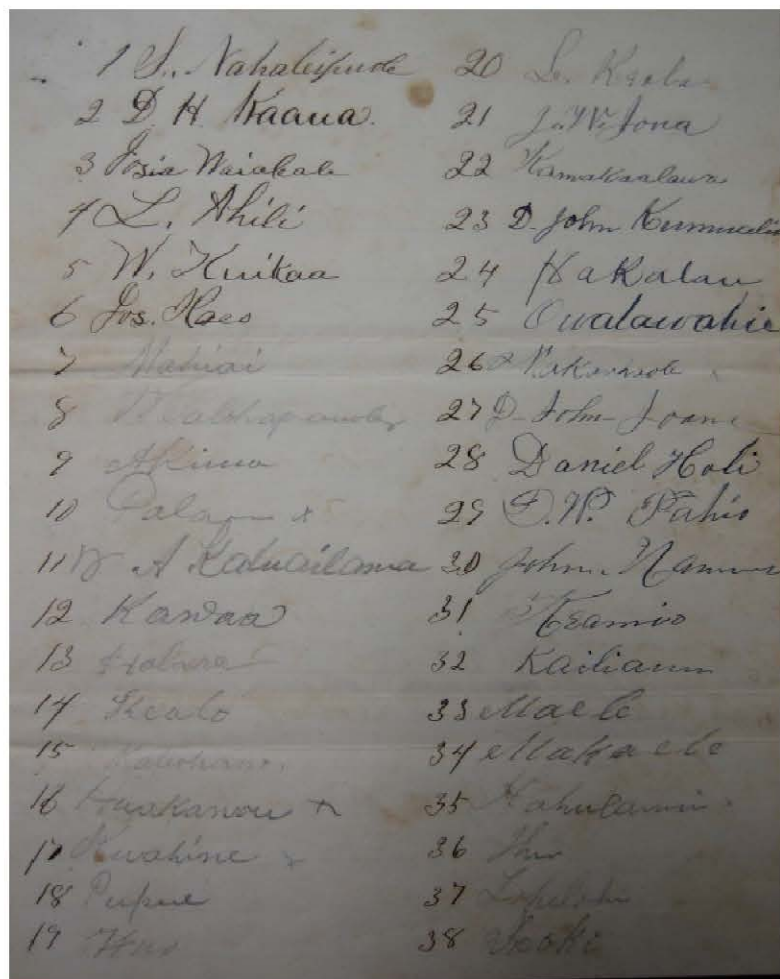
Figure 20 Contents of a Specific Scanned Document Electronic File



3.5.6 Taking Pictures in Addition to the Scans

For several of the documents one will have to take pictures in addition to the scans. This ensures that all of the documents are readable, as some of the documents do not scan as well as others. Once the individual computer files have been created for each document one can store the pictures in their corresponding computer file.

Photo 11 Example of a photograph



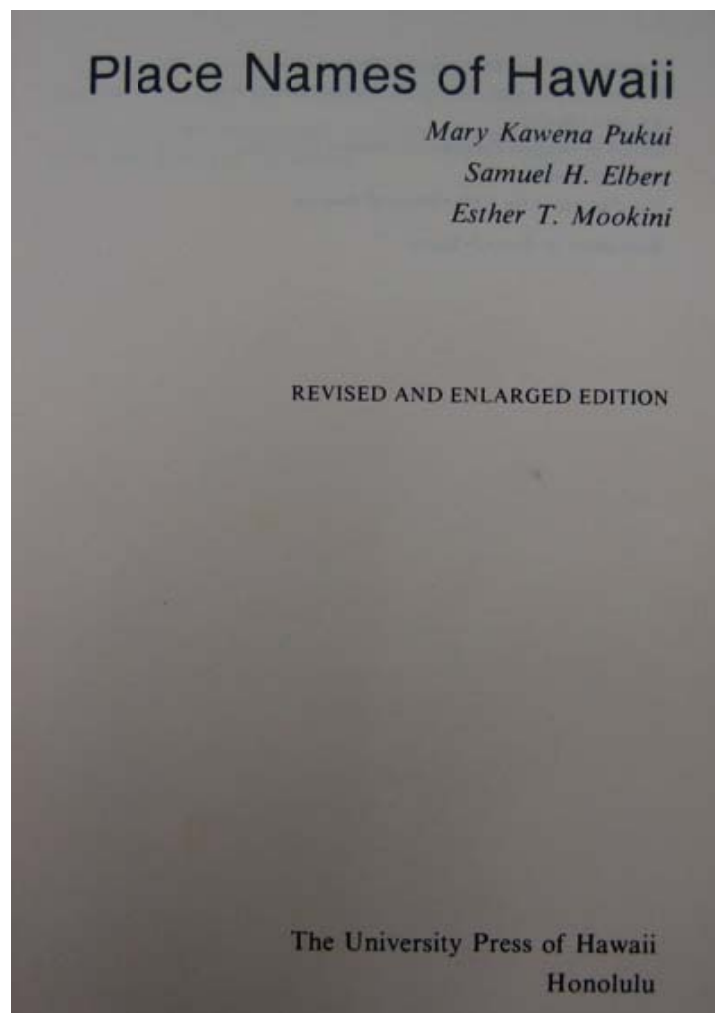
3.5.7 Future Steps

Once each document is in its own file with both pictures and scans then from there one can begin to organize the computer files based on different typologies and also re-label documents depending on how one organizes the information.

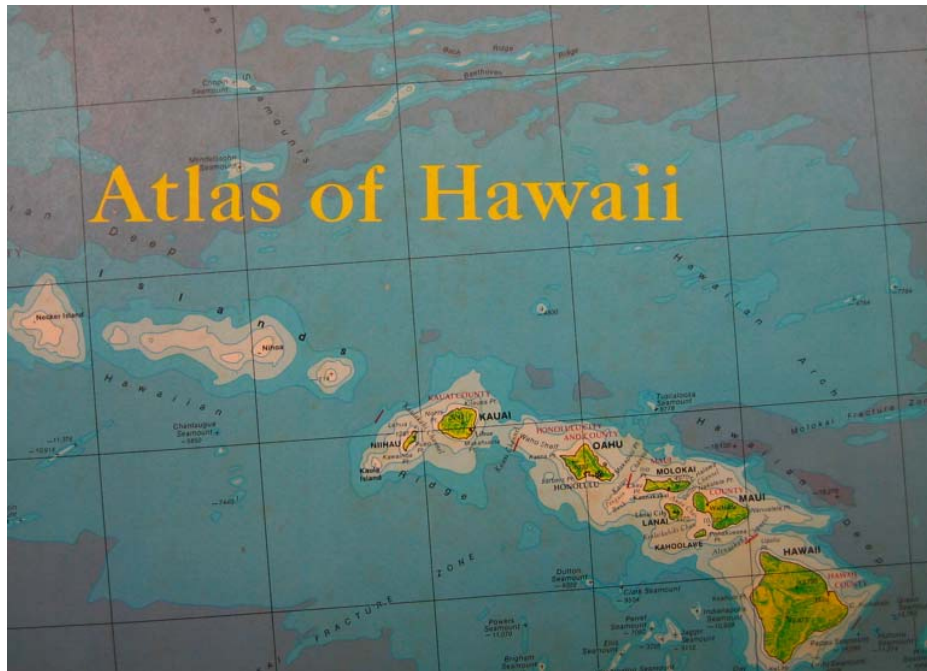
3.5.8 Reference Books

When in the State Archives one cannot bring outside books other than the notebook for recording notes. There are reference books in the public section of the State Archives, on the shelves alongside the research aids. Two books in particular are helpful in identifying appropriate place names.

1. Pukui, Elbert & Mookini. *Place Names of Hawaii*. Ref. H 499.43, P97P, 1974



2. *Atlas of Hawaii*. Ref. G. 1543.20, 1973



3.5.9 NPS Trails Hawaii State Archive Road Box Documents Database

This is an excel document (NPS_Trails_(MC)_SA data info.xls) that contains information about the Department of Interior documents that are being scanned at the Hawaii State Archives. Scanned documents are selected based on the districts that are part of the Ala Kahakai trail corridor. This searchable database will eventually contain ten tabs, one for each of the Department of Interior boxes located at the State Archives that was searched and which documents were scanned. There are currently two tabs: 1. Road Box 37, 2. Road Box 38. Below you will find a short description of what the information within each tab contains. We are constantly working on this document and updating the information it contains.

- A. Number: This refers to the internal number used to label the specific document for the documents specific folder. Folders are in chronological order within each road box.
- B. Year: Year the document was written
- C. Month: Month the document was written
- D. Day: Day the document was written
- E. Place Name: The specific place name in which the document refers to. Not all documents are labeled with a specific place name.
- F. Ahupuaa: If it is possible to find the specific ahupuaa for the document we will label it. Since the documents are not labeled by ahupuaa we will research and label these findings in the near future.

- G. District: the specific district where the document was written identifies most documents.
- H. Findings: any pertinent information from the document and how the document was internally labeled when received by the Department of Interior.
- I. Hawaiian: The document will be labeled “Yes” if the document or parts of the document were written in Hawaiian
- J. English: The document will be labeled “Yes” if the document or parts of the document were written in English
- K. Prisoners: The document will be labeled “Yes” if the document mentions prisoners
- L. Jury: The document will be labeled “Yes” if the document mentions a jury or jury members
- M. Judge: The document will be labeled “Yes” if the document mentions a judge
- N. Appointment: The document will be labeled “Yes” if the document mentions a Road Supervisor appointment
- O. Resignation: The document will be labeled “Yes” if the document mentions a Road Supervisor resignation
- P. Petition: The document will be labeled “Yes” if the document is a petition or mentions a petition
- Q. Labor: The document will be labeled “Yes” if the document mentions labor or paying for labor

3.5.10 Trails Hawaii State Archive Database

The Database entitled “*NPS/ALKA Trails Database for Documents collected at the Hawaii State Archive*” is being created in order to organize and utilize the documents (letters, petitions, reports, and maps), mostly communications between the Hawaii Kingdom Department of Interior and Road District Supervisors that are being scanned at the State Archives.

Each document refers to a specific district or place-name. Therefore, in addition to the date of the documents and the findings from each document the place name, ahupua’a, and the district will all be identified whenever possible in order to label the document within the searchable database. Each document should be connected to a geographic area, which should be incorporated within a GIS.

This work just started. There are ten boxes from Department of Interior to go through. There are six road boxes, from 1855 to 1900. There are four other types of Department of Interior boxes to go through in addition to the road boxes, Box 4: Boundary Commission, Box 11: Fences Commission, Box 34: Prisons and Commissioners of Private Ways and Water Rights. Two boxes have been partially processed and its relevant content is populated in the Excel Spreadsheet in question.

Eventually a numbering system for each document (that can run several digitized pages and or pictures) will be created so that each document has its own unique label. For now each document can be identified by the assigned number along with its date (Month, Day, Year).

3.6 Aerial Photos

Purpose

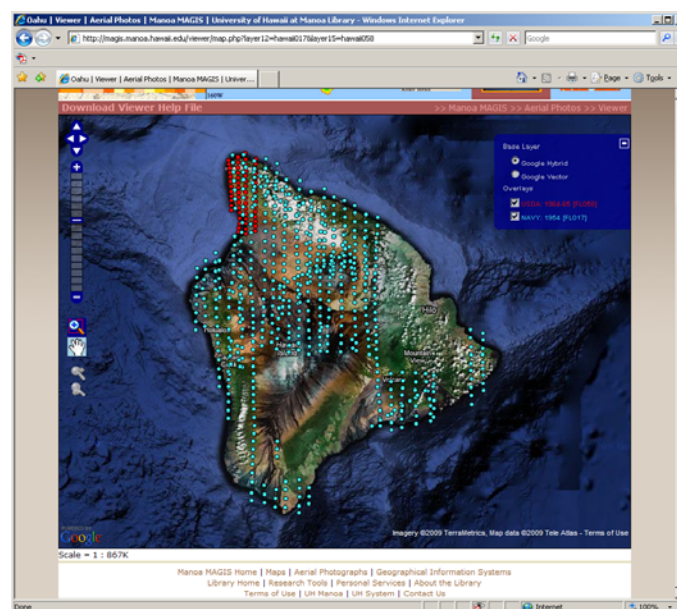
A set of 140 aerial photos and accompanying index are included as deliverables in this report because the National Park Service expressed interest in obtaining the photos to have them available for future analysis or research.

Process

Identifying photos covering the trail corridor. Aerial Photos of Hawai'i Island, as early as 1954, were identified from the UH Manoa Maps, Aerials, and GIS (MAGIS) Center website at <http://magis.manoa.hawaii.edu/remotesensing/aerials/index.html>.

On the website, the user selects flight lines to view on a map in the viewer. In the viewer, each flight line appears as a series of points (Figure 21). Each point represents the location of an aerial photo (where the plane was located when the photo was taken). Photos covering the coast and the ALKA trail corridor were viewed, indexed, and downloaded in low resolution format (300 dpi). High resolution copies of the photo image files were requested and purchased from the MAGIS Center.

Figure 21 MAGIS Aerial Photo Viewer with flight lines.



Index of Images. An index of the aerial photos was created to allow for searching for photos based on year or location. Without this index, the photos are difficult to use because the file name is only a number (e.g. 1234.tiff) (Figure 22). Many of the photos are in black and white, and most were taken prior to the developments that mark the landscape today. Thus, opening a file called 1234.tiff and seeing a black and white image of lava rock and ocean would make it nearly impossible to identify the location shown in the image, rendering it useless.

Figure 22 Aerial photo 344.tif. When viewing the image, it is very difficult to tell what area is depicted in the photo.



The index document is named “DURP_Aerial_Photo_Index.xls”. Fields in the index include: Image ID, Flight Line #, Agency, Year, Latitude, Longitude, and Area Depicted (Figure 23).

Figure 23 Sample data from “DURP_Aerial_Photo_Index.xls”

Microsoft Excel - DURP_Aerial_Photo_Index									
Type a question for help									
J105									
	A	B	C	D	E	F	G	H	I
1	Image ID	Flight Line #	Agency	Year	Lat	Long	Lat DMS	Long DMS	Area Depicted
105	5590	076	USDA	1965	19.1967466382366	-155.899795719763	19°11'48.29"N	155°53'59.26"S	Anapuka, Hoopuloa, Milolii, Omokaa, Kaliki
106	5591	076	USDA	1965	19.17891711481	-155.899623453836	19°10'44.1"N	155°53'58.64"S	Hoopuloa, Milolii, Omokaa, Kaliki, Honomalino, Okoe
107	5592	076	USDA	1965	19.1616905221273	-155.900312517544	19°9'42.09"N	155°54'1.13"S	Milolii, Omokaa, Kaliki, Honomalino, Okoe, Kapua
108	5593	076	USDA	1965	19.1442055305543	-155.900829315324	19°8'39.14"N	155°54'2.99"S	Honomalino, Okoe, Kapua

Image ID identifies the number of the image, which is its file name (e.g. 5590.tif).

Flight Line # identifies the number of the flight line from which the photo was taken.

Agency identifies which agency took the photo. Agencies responsible for the photos obtained include NOAA, USGS, USDA, and Navy.

Year identifies the year in which the photo was taken. Years range from 1954 to 2000.

Latitude and **Longitude** identify the coordinates of the airplane location when the photo was taken.

Area Depicted identifies the geographic area shown in the photo. Ahupuaa were identified to the extent possible by comparing 3 images: 1) the aerial photo (low resolution); 2) the MAGIS aerial photo viewer map showing image location as a point on a Google Earth image; 3) the 1928 map of Hawaii by Walter Wall, which identifies ahupuaa, and 4) a current topographic map. For example, the three sources for identifying the area depicted in photo 5592 are shown below (Figures 14, 15, 16, and 17). Topographic and coastal features were compared in the four images to identify which ahupuaa are depicted in the photo.

Figure 24 MAGIS aerial photo viewer showing location of image 5592.

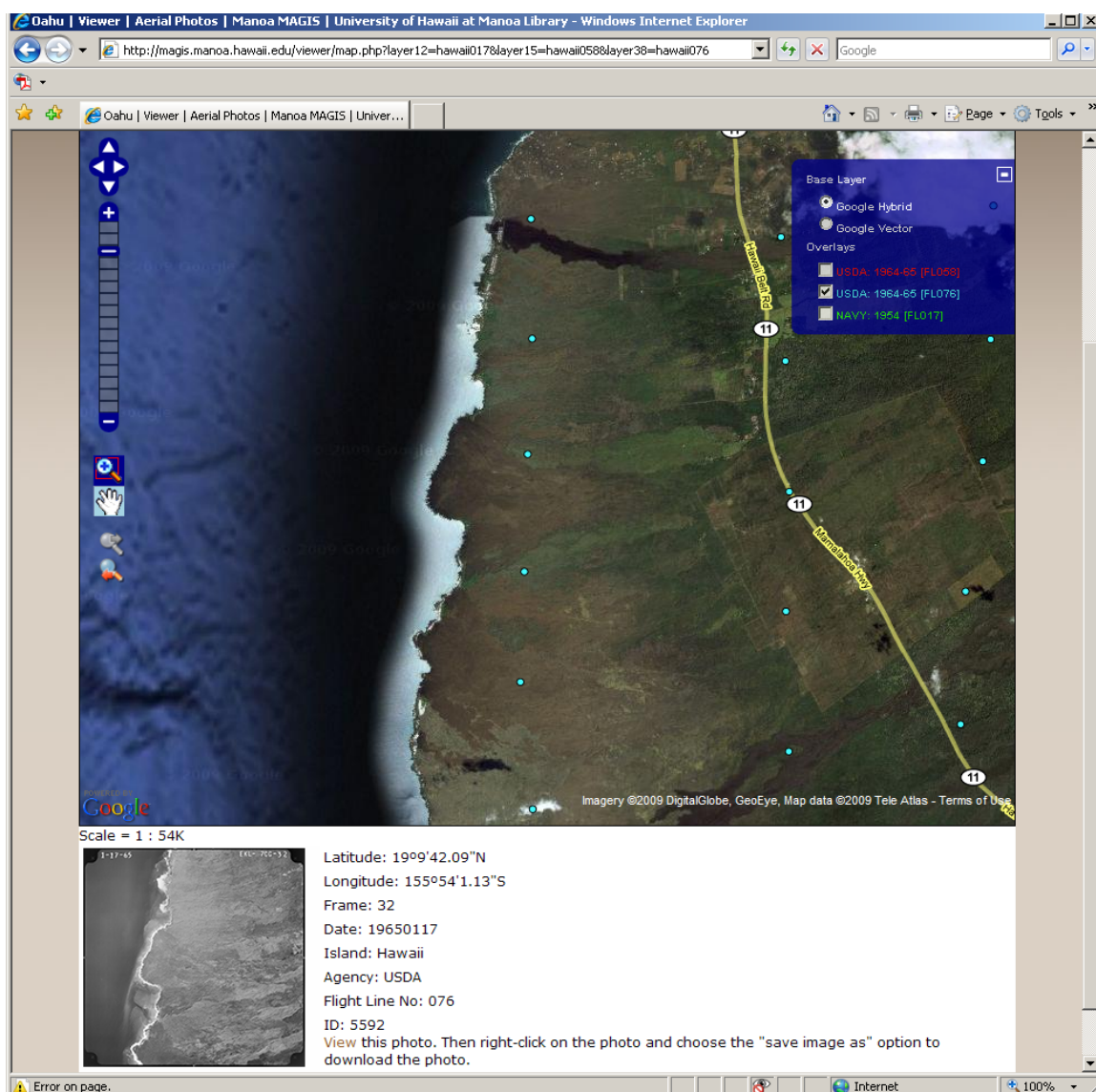


Figure 25 Aerial photo image 5592 (low resolution).

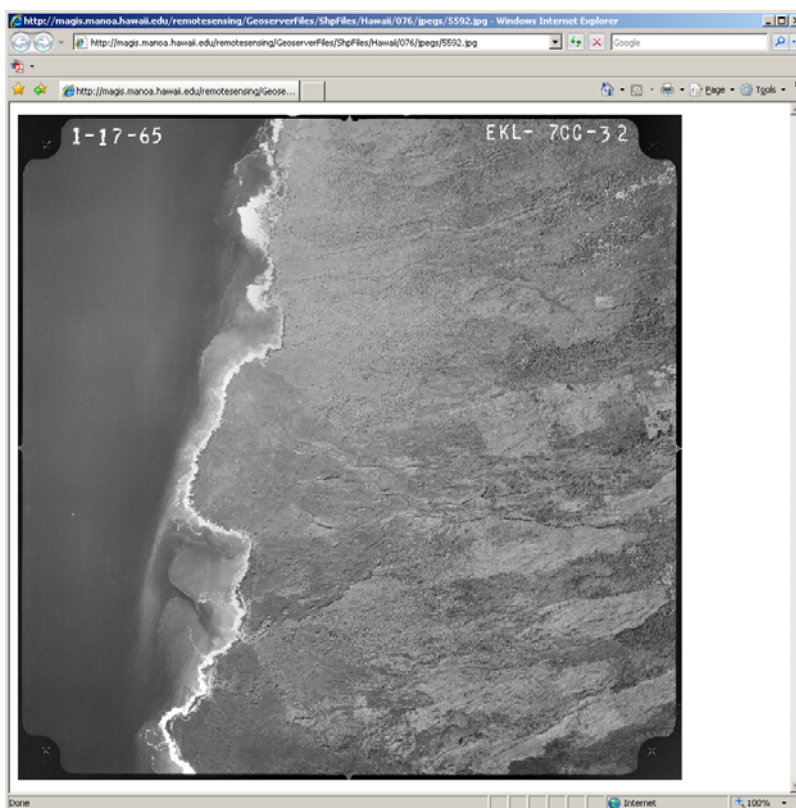


Figure 26 Aerial photo image 5592 (low resolution).

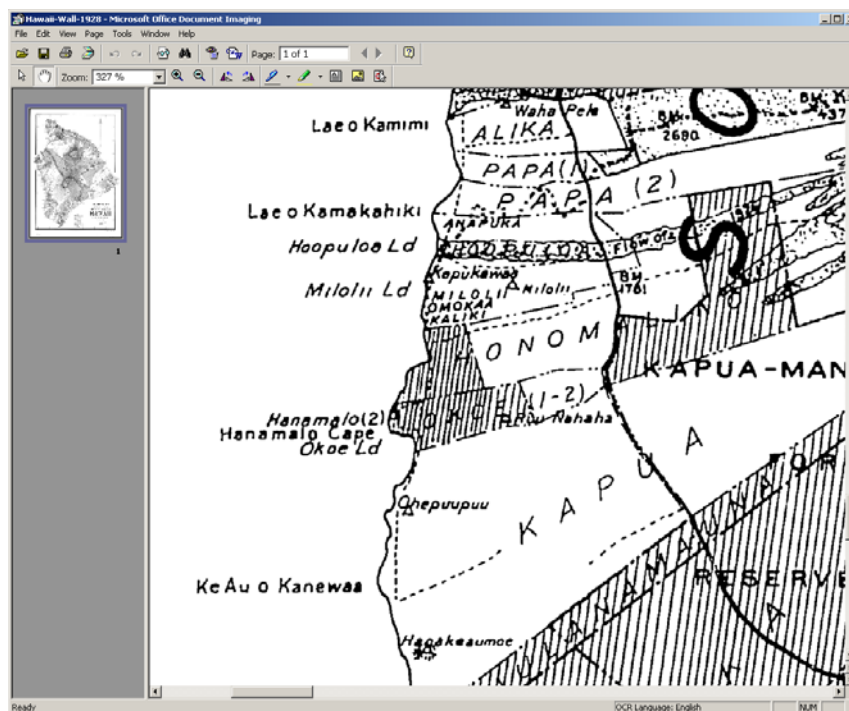
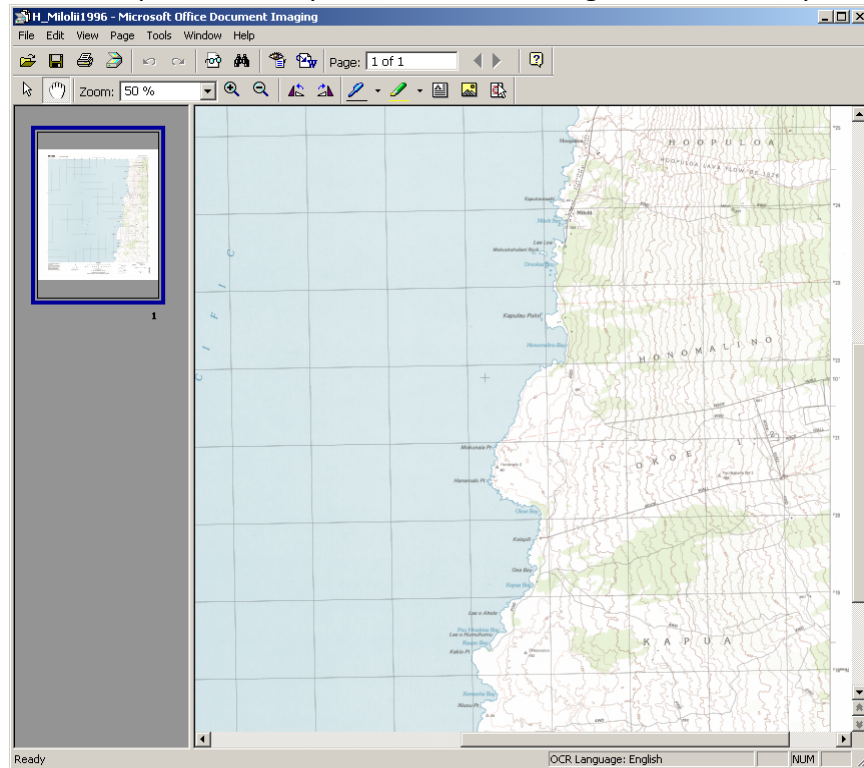


Figure 27 1928 map of Hawaii by Walter Wall showing area covered by image 5592.

*Aerial photo specifics (from MAGIS)*

NOAA Images

Dots Per Square Inch (DPI) = 500

Print size is approximately 9 inches by 9 inches

Image Mode: RGB color, 8 bits

USGS Images

Dots Per Square Inch (DPI) = 1209

Print size is approximately 9 inches by 9 inches

Image Mode: Grey Scale, 8 bits

USDA Images

Dots Per Square Inch (DPI) = 507

Print size is approximately 9 inches by 9 inches

Image Mode: Grey Scale, 8 bits

High resolution images were scanned by the issuing government agency at different dpi. NOAA (2000) and USDA (1960s) images were scanned at 500 dpi. USGS (1970s) and NAVY (1954) were scanned at 1000 dpi.

Features depicted. The aerial photos identify: natural features such as coastal topographic features, lava flows, vegetation, and ponds; and anthropogenic features such as roads, jeep

trails, trails, and structures. On some images, pedestrian trails are not clearly visible, but roads and jeep trails are easy to identify. Portions of some photos are obstructed by clouds. More recent photos (i.e. USGS 2000 flightline) include date, time, latitude, longitude, and elevation on the photo image itself.

APPENDICES

APPENDIX A Additional Land Tenure Documents

Number: 09944 Claim Number: 09944

Claimant: Nalima

Other claimant:

Other name: Lima

Island: Hawaii

District: Kona, North

Ahupuaa: Kahului 1

Ili: Kukuipulua 1

Apana: 1

Awarded: 1

Miscellaneous: A kihapai at the highway and anotyher in the apa`a zone

No. 9944, Nalima, See L, Kahului 1, Kailua, Hawaii, January 25, 1848

N.R. 472v8

Greetings to the Land Commissioners: A kihapai at Kealaloo* is 8 on the east, 20 on the west, and 300 on the north and south sides. A kihapai in apaa** is 8 on the east, 13 on the west, and 130 on the north and south sides.

NALIMA

/*Kealaloo means the highway/

/**See Translators Notes re Kona land zones./ [See Schilt et al. 1984:1-15 or Kelly 1983:43-63]

N.T. 517v4

No. 9944, Nalima, (See Lima), December 22, 1848

Ipunui (konohiki), sworn, He has seen in Nuikini ili of Kahului I ahupuaa, 2 land sections at Kukuipulua I. He does not know clearly the distance nor the width in fathoms. The land surveyor will establish the boundaries of Nalima's land upon his arrival here. Nalima had received this land at the time Kuakini had the land now Nalima has it from Opunui, no one had ever objected to him (Nalima).

[Award 9944; R.P. 6278; Kahului 1 N. Kona; 1 ap.; 1.9 Acs]

Number: 10876 Claim Number: 10876

Claimant: Pahao

Other claimant:

Other name: Paahao

Island: Hawaii

District: Kau

Ahupuaa: Keaiwa, Pukou, Wailoa

Ili:

Apana: 3
 Awarded: 1
 Miscellaneous: Awarded 1 apana
 No. 10876, Pahao, Hilea, Kau, January 26, 1848
 N.R. 665v8
 Hear ye, ye Land Commissioners at Honolulu, Island of Oahu: Here is my message to you about quiet title to my land in Kau. There is 1 mo`o in Keaiwa. 6 kihapai are at Keaiwa and 1 is at Pukou.
 PAHAO
 N.T. 371v8
 No. 10876, Paahao, October 29 [1849]
 Palikoolau, sworn, he has seen Paahao's 3 land sections.
 Section 1 - Moo of Mahimaluakua in Keaiwa.
 Section 2 - Keaiwa.
 Section 3 - Wailoa.
 Sections 1 and 2 are from Kaonohi in 1840. Section 3 is from Pio in 1839. Life have been there continously. No oppositions and konohiki land surrounds the entire land of 3 sections.
 [Award 10876; N.R. 6591; Keaiwa Kau; 1 ap.; 6.33 Acs]

Number: 10904 Claim Number: 10904

Claimant: Manuia
 Other claimant:
 Other name:
 Island: Hawaii
 District: Kona, North
 Ahupuaa: Kawaihae
 Ili:
 Apana:
 Awarded: 0
 Miscellaneous: "No claim in this place, It was conveyed to Kalaimoku," see 10903 for N.R. & N.T. documents
 No. 10904, Manuia, D., September 11, 1848
 N.T. 7v4
 See No. 10903, Puna
 [No. 10904 not awarded; See No. 10903 for Native Register and Native Testimony documents; also not awarded]

Number: 11000 Claim Number: 11000

Claimant: Wahahee, Iosepa
 Other claimant:
 Other name:
 Island: Hawaii
 District: Hamakua

Ahupuaa: Kaunamano

Ili: Kahapopolo

Apana: 8

Awarded: 1

Miscellaneous: Awarded 1 apana, 1 house

No. 11000, I. Wahahee, Kaunamano, Hamakua, January 24, 1848

N.R. 376v8

Greetings to the Land Commissioners: I hereby state my claim for land. Keaweahawaii, the wahine of Kaleiopuu and Manona, gave it to Namoku, and the land was inherited by his keiki, Keliikanakole, who gave it to me. Kaunamano is the name of this land which extends from the sea to the mountain. Kaumoali is on the east and Heneheneula is on the west.

IOSEPA WAHAHEE X

N.T. 346v4

No. 11000, Wahahee, Hamakua, October 27, 1848

Maliu, sworn, He has seen in the ili land at Kahapopolo of Kaunamano ahupuaa, 8 sections.

Section 1: Town

All konohiki boundaries, partially enclosed, 1 house for Wahahee.

Section 2: Bounded by idle land, 1 cultivated coffee field.

Section 3: Vacant land all around, 1 cultivated taro kihapai.

Section 4: Vacant land all around, 1 cultivated taro kihapai.

Section 5: Vacant land all around, 1 cultivated taro kihapai.

Section 6: All konohiki boundaries, 1 cultivated banana field.

Section 7: Idle land all around, 1 cultivated coffee kihapai.

Section 8: All konohiki boundaries, 1 orange tree

Old land since Kalaiope's time to his /Wahahee/ time now; no one has objected.

Ou, sworn, He has known exactly as Maliu had related here.

[Award 11000; R.P. 4965; Kaunamano Hamakua; 1 ap.; 6.4 Acs]

Number: 09513

Claim Number: 09513

Claimant: Kapalapala

Other claimant:

Other name:

Island: Hawaii

District: Kona, South

Ahupuaa: Kahauloa 1

Ili: Waipio, Kamuku, Keanawai

Apana: 3

Awarded: 1

Other Mammals: No Miscellaneous: Awarded 1 apana

No. 9513, Kapalapala

N.R. 561v8

Here is my claim for kihapais at Waipio, under Kanuku: 2 kihapai of taro and 1 kihapai of sweet potatoes at Keanawai.

KAPALAPALA

N.T. 607v8

No. 9513, Kapalapala

Kekuapuhi and Maikawai, sworn, they have seen claimant's land.

Section 1 - Taro and potato kihapai in Waipio, Kahauloa 1.

Section 2 - 3 taro and potato kihapai in Kamuku, Kahauloa 1.

Section 3 - Taro hiapai in Keanawai, Kahauloa.

From Both Kekoanui and Kamuku in 1847. No dispute.

[Award 9513; Kahauloa 1 N. Kona; 1 ap. 2.5 Acs]

Number: 09875

Claim Number: 09875

Claimant: Palu

Other claimant:

Other name:

Island: Hawaii

District: Kona, South

Ahupuaa: Kukuiopae

Ili:

Apana: 1

Awarded: 0

No. 9875, Palu, Island of Hawaii, District 3

N.R. 575v8

Kukuiopae ahupua`a: the kihapais are: 3 mala of taro, 2 of sweet potatoes. 1 house lot.

PALU

[No. 9875 not awarded]

Number: 09943

Claim Number: 09943

Claimant: Loe

Other claimant:

Other name:

Island: Hawaii

District: Kona, North

Ahupuaa: Keei

Ili:

Apana: 1

Awarded: 0

Other Mammals: NoMiscellaneous: See also 9652 for N.T. document, also not awarded

No. 9943, Loe

N.R. 581v8

1 house lot for Loe in Keei, District 3, South Kona, Island of Hawaii, 1, 225 feet in circumference. (See the diagram in the original letter).

LOE

Makaiakai

A house lot for Makaiakai in Keei, District 3, South Kona, Island of Hawaii, 2,220 feet in circumference.

MAKAIKAI, School Teacher

[No. 9943 not awarded; See Award 9652]

Number: 09988

Claim Number: 09988

Claimant: Lio

Other claimant:

Other name:

Island: Molokai

District: Kona

Ahupuaa: Kawela

Ili: Ohuapuaa, Ihuapuaa, Nukuapuaa

Apana: 1

Awarded: 1

Other Mammals: NoMiscellaneous:

No. 9988, Lio

N.R. 283v7

To the Land Commissinoers: I hereby state my claim for my `ili in the Ahupua`a of Kaweo on the Island of Molokai. The name of this `ili is Ihuapuaa. That is my claim. Aloha nui to you, the Esteemed Commissioners.

LIO X

Kawela, Molokai, January 13, 1848

F.T. 148-149v6 also pages 69-70

No. 9988, Lio

Ehu hoohikiia [scribe note: hoohiki ia]. Ma ka il o Nukuapuaa ma Kawela. He aina hooilina mai na makua mai. Ua noho me ke keakea oleia.

F.T. 39v6

9988, Lio

Lio's claim is for ili Nukuapuaa. This land inherited / others are ili surrounded.

F.T. 234v15

No. 9988, Lio, Kumueli, Oct. 20, 1853

Nalaaulaau, hoohikiia. Ua ike au i kona apana aina kula ma ka ili "Ohuapuaa", Kawela.

Mauka, aina o konohiki

Kamalo, aina o Maunaloa

Makai, he kahakai

Kalamaula, aina o konohiki.

Ua loa ia ia keia apana aina no kona mau makua mai i ka wa o Kamehameha I, a ua noho oluolu a hiki i keia wa, aole mea keakea.

Kahoananui, hoohikiia. Ua oiaio na olelo a pau maluna, pela no ko`u ike. ua noho oia ma ka aina kalo malalo o konohiki.

F.T. 234v15 Translation

No. 9988, Lio, Kumueli, October 20, 1853

Nalaalaau, sworn, I know his parcel of kula land in the 'Ili of "Ohuapuaa," Kawela.

Mauka, land of Konohiki

Kamalo, land of Maunaloa, a sea-shore

Kalamaula, land of Konohiki.

He received this apana from his parents and it has been held in quiet and undisputed possession since the time of Kamehameha I.

Kaheananui, sworn, All the foregoing testimony is true; my knowledge of it is the same. He possesses the taro land under the Konohiki.

N.T. 148-149v6 [also pages 69-70]

No. 9988, Lio

Ehu, sworn, Lio's land in the ili of Nukuapuaa in Kawela was from his parents by inheritance. He has lived without oppositions.

[Award 9988; R.P. 3721; Kawela Kona; 1 ap.; 4.39 Acs]

Royal Patent Number(RP)7715 LCA Number:09971*H

Patentee: Leleiohoku, William Pitt

Book::29

IslandHawaii

Page57

District:Hilo

TMK

Ahupua'aKikala

Miscellaneous

Ili

No. 7715, Lunalilo, William C., Kikala Ahupuaa, District of Hilo, Island of Hawaii, Volume 29, pps. 57-59 [RP Reel 15, 465-467.tif]

No. 7715

Royal Patent Upon Confirmation by the Land Commission

Whereas, the Board of Commissioners to quiet Land Titles have by their decision awarded unto William Pitt Lunalilo, L.C. Award 9971, Apana 15.

An estate of Freehold less than Allodial, in and to the land hereafter described, and whereas proper application having been made by Honorable Charles R. Bishop to the Minister of Interior, for a Royal Patent for the within described land, a certificate defining the boundaries of the same having been filed and the Government commutation thereon being relinquished by order of the Privy Council.

Therefore, Kalakaua, by the Grace of God, King of the Hawaiian Islands, by this Royal Patent, makes known to all men, that he has, for himself and for his successors in office, this day granted and given absolutely, in Fee Simple, unto William Pitt Lunailo all that certain piece of land situate at Ahupuaa Kikala, Hilo, in the Island of Hawaii, and described as follows:

Commencing at the makai corner of where the Kaiwiki gulch and Honolii stream meet, and running thence along Kaiwiki gulch, general courses and distances as follows:

South 21° West 1.50 chains; Thence
 North 86° West 4.20 chains; Thence
 North 60 1/2° West along Maumau gulch 9.50 chains;
 South 20° West 2.40 chains [page 77]; Thence
 North 74 1/2° West 11.00 chains; Thence
 South 80° West 18.47 chains; Thence
 North 46 1/2° West 7.55 chains; Thence
 South 46 2/3° West 284 chains; Thence
 North 67° West 4.28 chains; Thence
 South 70 1/2° West 7.00 chains; Thence
 South 77 1/4° West 8.83 chains; Thence
 South 39 1/4° West 8.58 chains; Thence
 South 71° West 7.70 chains; Thence
 North 89° West 8.00 chains; Thence
 South 75 2/3° West 18.80 chains; Thence
 North 65 1/2° West 15.48 chains; Thence
 North 71° West 1210 chains; Thence
 South 84° West 11.22 chains; Thence
 South 70° West 20.00 chains; Thence
 North 76 3/4° West to kukui tree marked L 7.00 chains; Thence
 South 82° West 11.00 chains; Thence
 North 74 1/2° West 24.00 chains; Thence
 South 80 1/2° West 13.20 chains; Thence
 South 60 1/2° West to ohia tree marked II at head of gulch, 13.70 chains; Thence
 North 75 1/2° West along Kaiwiki boundary (a road) 2.40 chains; Thence
 South 82 3/4° West to Nahuina 5.20 chains; Thence
 South 61 1/2° West 6.65 chains; Thence
 South 86 3/4° West to tree marked K 6.24 chains; Thence
 South 89° West 6.20 chains; Thence
 North 80 1/2° West to tree marked X 8.56 chains; Thence
 South 84 3/4° West to Kauluau 10.90 chains; Thence
 North 85 1/2° West to tree marked H 7.50 [page 58] [chains]; Thence
 North 83° West to tree marked A 15.60 chains; Thence
 North 56 3/4° West 5.86 chains; Thence
 North 77 1/2° West to Hikipuaa 9.84 chains; Thence
 South 83 1/4° West to tree marked N 7.10 chains; Thence
 North 71 1/4° West 4.64 chains; Thence
 North 88° West 23.50 chains to ohia tree marked T; Thence

North $63 \frac{1}{2}^{\circ}$ West 1.85 chains; Thence
 South $88 \frac{1}{2}^{\circ}$ West 7.50 chains to koa tree marked L; Thence
 South $88 \frac{1}{3}^{\circ}$ West 3.35 chains;
 South $70 \frac{1}{2}^{\circ}$ west 3.68 chains to ohia tree marked M;
 South $58 \frac{1}{4}^{\circ}$ West 5.30 chains to ohia tree marked P;
 South $69 \frac{3}{4}^{\circ}$ West 10.65 chains;
 North $68 \frac{1}{4}^{\circ}$ West 5.30 chains to ohia tree marked +;
 North 77° West 5.10 chains to koa tree marked V; west 1.58 chains to Wainahehe to tree
 marked F;
 North 79° West 6.17 chains;
 North 51° West 3.04 chains to koa tree marked W;
 North $49 \frac{1}{4}^{\circ}$ West 4.26 chains;
 North 80° West 3.92 chains;
 South 79° West 4.30 chains still along boundary of Kaiwiki;
 North $71 \frac{1}{4}^{\circ}$ West 3.42 chains to koa tree marked Z;
 North 70° West 9.45 chains;
 South $64 \frac{1}{4}^{\circ}$ West 1.40 chains;
 South 77° West 4.16 chains;
 North $73 \frac{1}{2}^{\circ}$ West 3.35 chains to koa tree marked O;
 North 65° West 3.40 chains to X marked on pahoehoe in a small gulch;
 South $69 \frac{3}{4}^{\circ}$ West 11.10 chains along gulch to D marked on pahoehoe;
 South 80° West 9.90 chains along gulch to 4. on pahoehoe;
 North $81 \frac{1}{2}^{\circ}$ West 10.40 chains along gulch to O.U. on pahoehoe;
 North 57° West 0.62 chain to koa tree marked I at Laeokalooa;
 North $2 \frac{1}{2}^{\circ}$ West 2.00 chains to Honolii gulch; the boundary between this land and Paukaa;
 Thence along the Honolii gulch to place of commencement. General courses and distances as
 follows:

South $89 \frac{1}{4}^{\circ}$ East 40.00 chains;
 North $86 \frac{3}{4}^{\circ}$ East 132.40 chains;
 North 84° East 109.50 chains;
 North $79 \frac{1}{4}$ East 79.60 chains;
 North 1° East 2.00 chains;
 North $86 \frac{1}{2}^{\circ}$ East 38.50 chains;
 South $57 \frac{3}{4}^{\circ}$ East 14.50 chains;
 North $73 \frac{3}{4}^{\circ}$ East 9.80 chains;
 South $46 \frac{1}{2}^{\circ}$ East 10.30 chains;
 South $74 \frac{1}{4}^{\circ}$ East 33.75 chains;
 South 16° West 4.00 chains;
 South $68 \frac{1}{4}^{\circ}$ East 21.30 chains; to place of commencement.
 Area 640 acres, more or less.

[page 59]

Containing 640 Acres, more or less, excepting and reserving to the Hawaiian Government all mineral or metallic mines of every description.

To Have and to Hold the above granted Land in Fee Simple, unto the said William Pitt Lunalilo, his Heirs and Assigns forever, subject to taxes to be from time to time imposed by the Legislative Council, equally upon all Landed Property held in Fee Simple.

In Witness whereof, I have hereunto set my hand, and caused the Great Seal of the Hawaiian Islands to be affixed, this 22nd day of February, 1884.

/Signed/ Kalakaua R [Rex]

By the King

The Minister of Interior

/signed/ Ch. T. Gulick

[Royal Land Patent No. 7715, Lunalilo, William C., Kikala Ahupuaa, District of Hilo, Island of Hawaii, 640 Acres, 1884]

Grant Number(LG)00666 Source Book:2

Grantee: Keau

Acreage::4 Acs

Ahupua`aMahukona

Year

District:Kohala, North

CancelledFalse

IslandHawaii

TMK 3-5-7-03

Miscellaneous

No. 666, Keau, Mahukona Ahupuaa, District of North Kohala, Island of Hawaii, Vol. 4, p. 133 [LG Reel 2, 00174-00175.tif]

Helu 666

Palapala Sila Nui

Ma keia palapala sila nui ke hoike aku nei o Kamehameha III, ke Alii nui a ke Akua i kona lokomaikai i hoono ai maluna o ko Hawaii Pae Aina, i na kanaka a pau, i keia la, nona iho, a no kona mau hope alii, ua haawi lilo loa aku oia ma ko ano alodio ia Keau i kona wahi kanaka i manao pono ia ia i kela apana aina a pau e waiho la ma Mahukona, Kohala ma ka Mokupuni o Hawaii, a penei hoi ka waiho ana o na Mokuna.

E hoomaka ana ma ke kihi Hikina Hema, oia ke kihi o ka pahale o Kaheana a moe aku

Akau 22° Komohana 4 3/4 Kaulahao i ka pohaku e waiho ana malaila alaila e moe ana

Hema 70° Komohana 6 3/4 Kaulahao i ke kai maloo alaila e holo ana me kahakai a hiki i ke kihi Komohana Hema o ko Kaheana pahale, alaila moe

Akau 13° Komohana 2 1/2 Kaulahao e pili ana me ko Kaheana pa a hiki i ke kihi Komohana Akau o uapa nei. alaila moe hou aku i elua kaulahao

Akau 70° Hikina i kahi i hoomakaiai [sic]

Koe ke kuleana o na kanaka i noho nei

[Insert]

Treasury Office, 30th of Oct. 1851

Received of Keau the sum of Four Dollars for land as per Patent, No. 666 and four dollars, the fees of patenting.

For Minister of Finance, J. P Judd

[End of Insert]

a maloko o ia Apana 4 eka a oi iki aku, emi iki mai paha.

Eia ke kumu o ka lilo ana; ua haawi mai oia iloko o ka waihona waiwai o ke Aupuni i Eha Dala.

Aka, ua koe i ke Aupuni na mine minerala a me na mine metala a pau.

No Keau, ua aina la i haawiia, no na mau loa aku no, ma ke ano alodio, a no ko na mau hooilina, a me ko na waihona, ua pili nae ka auhau a ka Poe Ahaolelo e kau like ai ma na aina alodio a pau i kela manawa i keia manawa.

A i mea e ikeai ua kau wau i ko'u inoa, a me ka sila nui o ko Hawaii Pae Aina ma Honolulu i keia la 2 o Augate, 1851.

(Inoa) Kamehameha

(Inoa) Keoni Ana

[Land Patent Grant No. 666, Keau, Mahukona Ahupuaa, District of North Kohala, Island of Hawaii, 4 Acres, 1851]

Grant Number(LG)3405 Source Book:16

Grantee: James Woods Estate, Trustees

Acreage::280 Acs

Ahupua`aKou & Paopao

Year

District:Kohala, North

CancelledFalse

IslandHawaii

TMK

Miscellaneous

No. 3405, James Woods Estate, Trustees, Kou & Paopao Ahupuaa, District of North Kohala, Island of Hawaii, Vol. 16 pps. 17-18 [LG Reel 5, 01312-01313]

No. 3405

ROYAL PATENT

(GRANT)

Kalakaua, By the Grace of God, King of the Hawaiian Islands, by this His Royal Patent, makes known unto all men, that he hath, for himself, his heirs and successors, this day granted and given, unto T.H. Davies, Godfrey Brown, John McGuire and J.R. Walker, Executors and Trustees of the Estate of James Woods for the consideration of Four Hundred and thirty Dollars paid into the Royal Exchequer all that piece of Land situated at Kou and Paopao, North Kohala, in the Island of Hawaii, and described as follows:

Beginning at a long sea stone marked [triangle] in centre of a pile of stones on old Heiau, on high ground mauka of railroad cut, from which point the Azimuth of Puu o Nale is 261° 02' and of Puu Mano 250° 15' thence the boundary certificate to Southeast corner of Grant 2765, at a pile of stones and rock marked T about 100 feet makai of road.

North 3° 00' West true 1013 feet along Grant 2765 to large pile of stones 10 feet high, about 800 feet makai of Mahukona road.

South 81° 30' West true 9910 feet along Kapaanui, to a large pile of stones on ridge overlooking sea shore.

South 86° 38' West true 1160 feet to Old Heiau on wall of rocks on Sea. T cut on solid rock.

From the Initial point again, the boundary runs

South 80° West down bluff to Sea Shore, thence along shore to the East mentioned Mark T on solid rock, a direct distance of about 1300 feet.

Area 280 Acres.

[Page 18 blank page]

[Page 19]

Containing 280 Acres, more or less; excepting and reserving to the Hawaiian Government, all mineral or metallic Mines of every description.

To Have and to Hold the above granted Land in Fee Simple, unto the said T.H. Davies, Godfrey Brown, John McGuire, and J.R. Walker, Executors and Trustees of the Estate of James Woods, their Heirs and Assigns forever.

Witness Ourself at Honolulu this 12th day of May 1887, in the fourteenth year of Our Reign.

By the King, (signed) Kalakaua Rex

The Minister of the Interior (signed) L. Aholo

[Land Patent Grant No. 3405, James Woods Estate, Trustees, Kou & Paopao Ahupuaa, District of North Kohala, Island of Hawaii, 280 Acres, 1887]

Grant Number(LG)03428 Source Book:16

Grantee: Nahinu, D.H.

Acreage::0.8 Ac.

Ahupua`aKauhako

Year1888

District:Kona, South

CancelledFalse

IslandHawaii

TMK

Miscellaneous

No. 3428, Nahinu, D.H., Kauhako Ahupuaa, District of South Kona, Island of Hawaii, Vol. 16, pps. 109-111 [LG Reel 5, 01410-01412.tif]

No. 3428
Royal Patent (Grant)

Kalakaua, By the Grace of God, King of the Hawaiian Islands, by this, His Royal Patent, makes known, unto all men, that he has for himself, his heirs and successors, this day granted and given unto D.H. Nahinu for the consideration of One hundred and Thirty Dollars, paid into the Royal Exchequer, all that piece of Land situate at Kauhako, South Kona in the Island of Hawaii and described as follows:

Beginning at the North West corner of Land Commission Award 7574 Holi, Lot 1 at the corner of Stone wall on mauka side of Government road. At a point from which the Paliauihi Triangle Station bears
South 70° East true 354 feet, and running
North 16° 15' West true 218 feet along stone wall by Government

road
 North 61° 0' East true 96 feet along stone wall by Land Commission Award 9971
 Leleiohoku and Land Commission Award 7506 Kuponu Lot West on the boundry of Hookeua
 and Kauhako to the top of the pali
 South 27° 50' East true 95 feet along edge of the pali by
 Land Commission Award 9971, Thence along the edge of the Pali by Grant 1454 Wm Johnson to
 a point which is
 South 44° 15' East true 240 feet from last station, and from which the
 Paliauihi Triangle Station is
 South 39° 10' East true 156 feet:
 South 64° 30' West true
 144 feet down the pali and along a stone wall to the South East corner of Land Commission
 Award 7574 Holi Lot 1
 North 22° 0' West true 103 feet along said lot
 South 60° 0' West
 true 72 feet along stone wall by said lot to the initial point and including an area of 8/10
 acre.
 [Page 110]
 [Left Blank]
 [Page 111]
 Containing 0.8 Acres,
 more or less; excepting and reserving to the Hawaiian Government, all mineral or metallic
 mines of every description.
 To have and to hold the above granted Land in Fee Simple,
 unto the said D.H. Nahinu his Heirs and Assigns forever.
 Witness Ourself, at Honolulu,
 this Twenty third day of March, 1888, in the Fifteenth year of Our Reign.
 By the
 King
 /Signed/ Kalakaua Rex
 The Minister of Interior
 /Signed/ A.O.
 Thurston
 [Land Patent Grant No. 3428, Nahinu, D.H., Kauhako Ahupuaa, District of
 South Kona, Island of Hawaii, 0.8 Acres, 1888]

APPENDIX B LIST OF HAWAIIAN WORDS DESCRIBING ROAD/TRAIL CHARACTERISTICS

Native Hawaiian Words describing Road/Trail Characteristics

Translated from Pukui/ Elbret *Hawaiian Dictionary*

Bridges	Uapo, Pao, Hulili, Ala holo papa, Alahaka, Kaulanahaka
Easements or Lien	Palapala ho'o malu
Government ownership	No Aupuni ka mea
Native tenants access rights	Native. Kama aina, maoli, 'oiwi, kupa, keiki papa. Tentant. Hoa'aina, mea ho'olimalima. Access. Ala e hiki ai, komo'ana. Rights.
Repair (of road)	Repair. Pahonohono, pahono, kapili, hana hou
Reservation (of native tenant rights)	Reserve. Ho'oka'awale, ho'opa'a, malama, kauoha, ho'okoe, pahuku
Resting place on the road	Pu'u ho'omaha' o'i'o'ina
Right of Way	Pono ala hele, mana ma ka hele 'ana
Right of Way of Access	Kuleana ala hele e hiki aku ai
Road	Road. Ala, alanui, ala hele, mo'o hele, kuamo'o, kumeheu. Cleared road. Ala waele. Road cut. Ala 'oki. Belt road. Alaloa. Dead-end road. Ala muku. Long road. Ala loa
Stony roadway	Alanui a'a
Thread of trail	Wahi alanui makoli iki
Trails	Ala, ala hele, mo'o hele, meheu, kumeheu, kuamo'o, maka ala, makala, kaolo

APPENDIX C TMK DATABASE (NPS.TRAIL.BOC_TMK 12.2010)

Versus Undocumented or No Data Found	TMK	NOTES ON TRAIL via visual Inspection at	Civil #	Civil Judgment Notes	Deed Doc Number	Deed Notes	Grants (RP, LG and Gr)	Grants Notes	Copy of Survey Furnished (CSF)	CSF Notes	LCA	LCA Notes	Land Court	Land Court Notes	LF	Job	Māhele Award	Māhele Notes	File Plan (FP)	File Plan Notes
No Data Found	355005003	X																		
Documented	355005004	Shoreline cert. 596-B	00-1-0474	?			2508	Koe no na Kuleana o Kanaka,												
Documented	355005005	Not found					2508,2534	Kuleana o Kanaka... 2534: no trail language found	18513 & 18282	Found no reservations			1120	enclosed map. No no easements for access but interesting Hawaii						
Documented	355005009	LOD S-26984 & LOD S- 26983							18425 & 18424 &18535	from Kohala Corp to the State of Hawai'i, and 18424 is a gift	5368 A5	distant roadway from the interior of Kohala to Mahukona.								
Documented	355005010	LOD S-26984 & LOD S- 26983					7730	No trail Language Found	18425 &18424 & 18535	from Kohala Corp to the State of Hawai'i, and 18424 is a gift	5368 A5	distant roadway from the interior of Kohala to Mahukona.								
No Data Found	355005014	X																		
Documented	355005017	X					2534	<u>Ua Koe nae ke</u> <u>Kuleana o Kanaka.</u>												
No Data Found	355005032	Not found																		
Documented	355006009	X											1120	enclosed map. No no easements for access but interesting Hawaii						
Documented	355006010	adjacent CSF on 12 (8381) mauka-makai government road											1120	enclosed map. No no easements for access but interesting Hawaii						
No Data Found	355006032	X																		
Undocumented	355007002	Shoreline cert. 596-B					8464	No trail Language Found			8515B	No trail Language Found								
Documented	356001013	CSF 16601 (located inland)					2397(mauka of parcel	<u>koe ke kuleana ona kanaka.</u>												
No Data Found	356001016	X																		
No Data Found	356001018	X																		
No Data Found	356001026	X																		
No Data Found	356001027	X																		
No Data Found	356001028	X																		
No Data Found	356001029	within parcel (34) civil number 5468.					5089	not found												
No Data Found	356001042	X																		
No Data Found	356001045	X																		
No Data Found	356001049	X																		

No Data Found	355005003	X																		
Documented	356001074	Shorline cert 3/18/81 596K									10154	3, Pohakuloa III...Makai by <u>street</u>								
Undocumented	356001090	Possibly part of Puakea Subdivision - Not Found	6870	No Trail Langague Found																
Undocumented	356001091	Possibly part of Puakea Subdivision - Not Found	6870	No Trail Langague Found																
Undocumented	356001093	Possibly part of Puakea Subdivision - Not Found	6870	No Trail Langague Found																
Undocumented	356001094	Possibly part of Puakea Subdivision - Not Found	6870	No Trail Langague Found																
Undocumented	356001095	Possibly part of Puakea Subdivision - Not Found	6870	No Trail Langague Found																
Undocumented	356001096	Possibly part of Puakea Subdivision - Not Found	6870	No Trail Langague Found																
Undocumented	356001097	Possibly part of Puakea Subdivision - Not Found	6870	No Trail Langague Found																
Undocumented	356001098	Possibly part of Puakea Subdivision - Not Found	6870	No Trail Langague Found																
Undocumented	356001099	Possibly part of Puakea Subdivision - Not Found	6870	No Trail Langague Found																
Undocumented	356001100	Possibly part of Puakea Subdivision - Not Found	6870	No Trail Langague Found																
Undocumented	356001101	Possibly part of Puakea Subdivision - Not Found	6870	No Trail Langague Found																
Undocumented	356001102	Possibly part of Puakea Subdivision - Not Found	6870	No Trail Langague Found																
Undocumented	356001103	Possibly part of Puakea Subdivision - Not Found	6870	No Trail Langague Found																
Undocumented	356001105	Possibly part of Puakea Subdivision - Not Found	6870	No Trail Langague Found																
Documented	356001108	Possibly part of Puakea Subdivision - Not Found	6870	releasing and expunging part of an easement in a	2004-210755	deed pg 30 of 37. Trails, roads, or rights of way pg. 34.														
Documented	356001109	Possibly part of Puakea Subdivision - Not Found	6870	No Trail Langague Found	2005-159582	Declaration of public easement 2002- 082864 p 17														
Undocumented	356001110	Possibly part of Puakea Subdivision - Not Found	6870	No Trail Langague Found	2004-210755	deed not found on its own														
Undocumented	356001111	Possibly part of Puakea Subdivision - Not Found	6870	No Trail Langague Found	2007-214346	Limited warranty deed not sure														
Undocumented	356001112	Possibly part of Puakea Subdivision - Not Found	6870	No Trail Langague Found	2005-118572	Quitclaim deed re easement no mention of trails														
Documented	356002015	Contains Access and Equestrian Easements																		
Documented	356002016	Contains Access and Equestrian Easements																		

No Data Found	355005003	X																	
Documented	356002017	Contains Access and Equestrian Easements																	
Documented	356002018	Contains Access and Equestrian Easements																	
Documented	356002019	Contains Access and Equestrian Easements																	
Documented	356002020	Contains Access and Equestrian Easements																	
Documented	356002021	Contains Access and Equestrian Easements																	
Documented	356002022	Contains Access and Equestrian Easements																	
Documented	356002023	Contains Access and Equestrian Easements																	
Documented	356002024	Contains Access and Equestrian Easements																	
Documented	356002041						744	Koe ke kuleana o na Kanaka											
Documented	356002042	Contains Access and Equestrian Easements																	
Documented	356002043	Road																	
Documented	357001005						1997	Koe ke kuleana o na Kanaka											
No Data Found	357001010	mauka of highway							3560,15787	?									
Documented	357001011						1998	Koe ke Kuleana o na Kanaka											
Documented	357002010						1992	237 Kaulahao alaila ma ko ke Aupuni e oki Kapakahi ana i ke								Keekiolani	N/A		
Documented	357002011						3405	mauka of railroad cut...and rock marked T about 100											
Documented	357002036						1992	237 Kaulahao alaila ma ko ke Aupuni e oki Kapakahi ana i ke											
Documented	357003002						1992	237 Kaulahao alaila ma ko ke Aupuni e oki Kapakahi ana i ke											
Documented	357003003	jeep trail	5467				5703, 666	666: i ke kai maloo alaila e holo ana me kahakai a hiki i ke			7715 Ap 7, 10129	No trail Language Found, not found			5921 (e)		Keelikolani	N/A	
Documented	357003010	Jeep Trail on Parcel	5467		2005-267290	specific easements or access rights. Subject to "Rights of	5703	not found			7715 A7	No trail Language Found			5921e				
No Data Found	358001008	X																	
Documented	358001008										9971 Ap 20	site - i have seen this tailor shop and land in Keopu of Kona,							

No Data Found	355005003	X																		
Documented	358001009	jeep trail								8559-B Ap. 4	No trail Language Found									
Documented	358001010	jeep trail					1595,7019,7844,3680	#####	17844	reserving to the State of Hawai'i the Jeep trail over and across	7715 Ap. 9	No trail Language Found								
Documented	358001011	jeep trail															5 & 38	N/A		
Documented	358001014	LOD S-24277									9971 Ap 20	Lot 37 - Tailor shop site - I have seen this tailor shop and land in Keopu of Kona, Hawaii.								
No Data Found	358001015	X							15190		S-14716	not found								
Documented	358001015								15190	found, however a Jeep road trail is meandering through	S-14716	not found								
No Data Found	358001019	could not find parcel, possible subdivision not reflected on map																		
No Data Found	358001020	could not find parcel, possible subdivision not reflected on map																		
No Data Found	358001021	could not find parcel, possible subdivision not reflected on map																		
No Data Found	358001022	could not find parcel, possible subdivision not reflected on map																		
No Data Found	358001023	could not find parcel, possible subdivision not reflected on map																		
No Data Found	359001008	mahukona-kawaihai trail (jeep trail) Ala Loa																		
Undocumented	359003003	Shoreline cert 11/15/79 596-H (6) recert 6/3/80 596-H							adjacent on parcel 16 17235 & 17236	found.General Lease S-4247. See also CSF 15792 and Certificate	8519-b:2	No trail Language Found								
No Data Found	359016007	X																		
No Data Found	359016008	X																		
No Data Found	359016009	X																		
Documented	359016010	Public Access Easement																		
Documented	359016011	Public Access Easement																		
Documented	359016013	Public Access Easement																		
Documented	359016014	OFF MAIN TRAIL - OMIT																		
Documented	359016015	OFF MAIN TRAIL - OMIT																		
Documented	359016016	OFF MAIN TRAIL - OMIT																		

No Data Found	355005003	X																		
Documented	359016017	OFF MAIN TRAIL - OMIT																		
Documented	359016018	OFF MAIN TRAIL - OMIT																		
Documented	359016019	OFF MAIN TRAIL - OMIT																		
Documented	359016020	Public Access Easement																		
Documented	359016021	Public Access Easement																		
Documented	359016022	Public Access Easement																		
Documented	359016023	Public Access Easement																		
Documented	359016024	Public Access Easement																		
Documented	359016025	OFF MAIN TRAIL - OMIT																		
Documented	359016026	OFF MAIN TRAIL - OMIT																		
Documented	359016027	Public Access Easement																		
Documented	359016028	Public Access Easement																		
Documented	359016030	Public Access Easement																		
Documented	359016031	Public Access Easement																		
Documented	359016032	OFF MAIN TRAIL - OMIT																		
Documented	359016033	OFF MAIN TRAIL - OMIT																		
Documented	359016036	OFF MAIN TRAIL - OMIT																		
Documented	359016037	OFF MAIN TRAIL - OMIT																		
Documented	359016038	OFF MAIN TRAIL - OMIT																		
Documented	359016039	OFF MAIN TRAIL - OMIT																		
Documented	359016040	OFF MAIN TRAIL - OMIT																		
Documented	359016048	OFF MAIN TRAIL - OMIT																		

No Data Found	355005003	X																	
Documented	359016049	OFF MAIN TRAIL - OMIT																	
Documented	359016050	OFF MAIN TRAIL - OMIT																	
No Data Found	359016053	Not found																	
Documented	359017001	Pulic Pedestrian Access Easement																	
Documented	359017002	Pulic Pedestrian Access Easement																	
Documented	359017003	Pulic Pedestrian Access Easement																	
Documented	359017004	Pulic Pedestrian Access Easement																	
Documented	359017005	Pulic Pedestrian Access Easement																	
Documented	359017006	Pulic Pedestrian Access Easement																	
Documented	359017007	Pulic Pedestrian Access Easement																	
No Data Found	361002085	X																	
No Data Found	361002999	X																	
Documented	361003002	X							5827	CSF 5831, 7046, 9846. "On the North side of the	9977	not found							
Undocumented	361003004	X					69	No trail Language Found	13154	found. Deed 16272, Land Office Deed 15956-7 ans CSF	4884,3969,4094	No trail Language Found							
Undocumented	361003008	X					5233,69	No trail Language Found	12567	No reservations found also see CSF 9562	4094, 4884	No trail Language Found							
Undocumented	361003009	X					5233,69	No trail Language Found	12568	No reservations found also see CSF 9562	4094, 4884	No trail Language Found							
No Data Found	361003999	X																	
No Data Found	361004999	X																	
No Data Found	361005999	X																	
Documented	362001064	near LCA 4522 & 4523					1666	Koe ke Kuleana o na Kanaka	12580	easement in favor of the State of Hawai'i for a pipeline Right	8515	No trail Language Found							
Documented	369007011	On water with 3 easements							22117, 21792	found. Non exclusive mooring easements. Offshore- Easements									
No Data Found	369007015	X																	

No Data Found	355005003	X																	
Documented	371002003								166-72, 5029	No reservations but map shows trails. Also see CSF 5029.	9943	No trail Language Found							
Documented	371002004						6748, 6498	not found	16667, 16666	found. Map is for both 16666, and 16667 and shows	10432	not found							
No Data Found	371002005	not found																	
Documented	371002006								8117	No eservations found but map shows trails.	11661	not found							
Undocumented	371002007						6748	not found	8022	No reservations found	10431	not found							
Documented	371002012								5030, 16671	16671 and 23110. No reservations found. s16671: No	9944	No trail Language Found							
No Data Found	371002014	not found																	
No Data Found	371002999	Road?																	
Undocumented	371003003								4447, 4446, 5786	No reservations found	9071, 9073, 9988	9071, 9073: not found 9988: No Trail Language							
Documented	371003004						S-13804	#####											
No Data Found	371003005	X																	
Undocumented	371003006								5028		9513	No trail Language Found							
Documented	371003009	line under parcel number indicates this)							8024, 23937	found- 23937 also see csf 24067,24274,HSS	10433	not found							
No Data Found	371003010										13586	not found							
No Data Found	371003011	X																	
No Data Found	371003012								5047										
Undocumented	371003013								4447, 5046	5046 No reservations found	9875	No trail Language Found							
Documented	372003014	new tmks but there are recognized trail easements.																	
Documented	372010001	60' Roadway easement																	
Documented	372010005	adjacent to road																	
Documented	372010007	cancelled																	
Documented	372010008	trail easement																	

No Data Found	355005003	X																		
Documented	372010009	road																		
Documented	372010010	trail easement									7715 A10	No trail Language Found								
No Data Found	372010022	not found																		
No Data Found	372010023	not found																		
No Data Found	372010024	not found																		
No Data Found	372010025	not found																		
No Data Found	372010027	not found																		
Undocumented	372012001																		2222	no easements for access
Documented	372012012	Access Easement "12" 12 FT. wide. Trail Easement "11"																		
Documented	372012013	Public Pedestrian Access Easement "12" 12 FT. wide																		
No Data Found	372012027	X																		
Documented	372012028	Road																		
No Data Found	372012029	X																		
No Data Found	372013008	no plat 13																		
No Data Found	372013009	no plat 13																		
No Data Found	372013011	no plat 13																		
No Data Found	372013012	no plat 13																		
No Data Found	372013020	no plat 13																		
No Data Found	372016001	no plat 16																		
No Data Found	372016003	could not find parcel, section not in TMK maps																		
No Data Found	372016777	could not find parcel, section not in TMK maps																		
No Data Found	372017022	no plat 17																		

No Data Found	355005003	X																		
No Data Found	372017023	no plat 17																		
No Data Found	372017024	no plat 17																		
No Data Found	372017026	no plat 17																		
No Data Found	372017027	no plat 17																		
No Data Found	372017029	could not find parcel, section not in TMK maps																		
No Data Found	372017030	no plat 17																		
No Data Found	372017032	no plat 17																		
No Data Found	372021008	no 7-2- plats above 12																		
No Data Found	372021009	no 7-2- plats above 12																		
No Data Found	372021010	no 7-2- plats above 12																		
No Data Found	372021011	no 7-2- plats above 12																		
No Data Found	372021013	no 7-2- plats above 12																		
No Data Found	372031001	no 7-2- plats above 12																		
No Data Found	372031002	no 7-2- plats above 12																		
No Data Found	372031003	no 7-2- plats above 12																		
No Data Found	372031004	no 7-2- plats above 12																		
No Data Found	372031005	no 7-2- plats above 12																		
No Data Found	372031006	no 7-2- plats above 12																		
No Data Found	372031007	no 7-2- plats above 12																		
No Data Found	372031008	no 7-2- plats above 12																		
No Data Found	372031009	no 7-2- plats above 12																		
No Data Found	372031010	no 7-2- plats above 12																		

No Data Found	355005003	X																	
No Data Found	372031031	no 7-2- plats above 12																	
No Data Found	372032012	no 7-2- plats above 12																	
Documented	373009003						3086, 2942	#####											
No Data Found	373009004						4536	not found											
Documented	374008002	access road and kings trails	92-0295 60				6851	#####	22978, 23626	portion of remnant of Māmalahoa trail (Portion of Old	8452 A12	is bounded: Makai by the sea shore.... and on the other side by.							
No Data Found	374008999	Road?																	
Documented	374015013	near road, Industrial subdivision, FP 1321, 1527																	
Documented	374015014	near road, Industrial subdivision, FP 1321, 1527																	
Documented	374015015	near road, Industrial subdivision, FP 1321, 1527																1617	no easements for access
No Data Found	374015018	not found																	
No Data Found	374015020	not found																	
No Data Found	374015021	not found																	
No Data Found	374015022	not found																	
Documented	374015999	Road																	
Documented	374020009	X On or along Queen K																	
Undocumented	374020010																	2164	no easements for access.
Undocumented	374020011																	2144	Easement and 60 foot wide roadway easement, neither
Documented	374020014	X Along Queen K																	
Documented	374020015	Makala Blvd (road)																	
Undocumented	374020022	X Along Queen K																2041	no easements for access
Documented	374020999	Road																	
Documented	374020999	Road																	

No Data Found	355005003	X																		
Documented	375005001	Private Access, utilites and landsaping access.																		
Documented	375005002	Road																		
Documented	375005011	(not needed as trail will follow the existing road)																		
No Data Found	375005011	X																		
Documented	375005012										7969	No trail Language Found	1319	Old Trail by Kailua Lighthouse Lot on Map 2,4						
Documented	375005014	Public Beach Access																		
Documented	375005015	Public Beach Access																		
Documented	375005016	Public Beach Access																		
Documented	375005017	Public Beach Access																		
Documented	375005018	Public Beach Access																		
Documented	375005019	Public Beach Access																		
Documented	375005020	Public Beach Access																		
Documented	375005021	Public Beach Access																		
Documented	375005022	Public Beach Access																		
Documented	375005023	Public Beach Access																		
Documented	375005024	Public Beach Access																		
Documented	375005047	Mauka of PBA - OMIT																		
Documented	375005048	Mauka of PBA - OMIT																		
Documented	375005049	Mauka of PBA - OMIT																		
Documented	375005050	Mauka of PBA - OMIT																		
Documented	375005051	Mauka of PBA - OMIT																		
No Data Found	375005062	X																		

No Data Found	355005003	X																		
Documented	375005063												1319	Old Trail by Kailua Lighthouse Lot on Map 2,4						
Documented	375005064	(not needed as trail will follow the existing road)																		
Documented	375005068	Public Shoreline Easement Access "1"																		
No Data Found	375005084	X																		
Documented	375005086	Utility and Access Easement																		
Documented	375005087	Utility and Access Easement																		
Documented	375005092	Access Easement "12", Easement "11" (2 FT.) Walkway and																		
No Data Found	375005093	X																		
Documented	375005094	Public Shoreline Easement Access "1"																		
Documented	375005095	Public Shoreline Easement Access "1"																		
Documented	375005096	Public Shoreline Easement Access "1"																		
Documented	375006021												1702	Government Road						
Documented	375006024												420	Government Road						
Documented	375006032	Easement "C" (for the beach)											420	Government Road						
Undocumented	378010001	Shoreline cert12/10/85 596-P 4/17/90									5561-D:2	No trail Language Found								
No Data Found	378010003	X																		
Documented	378010032	Sewer Easement																		
Undocumented	378010034										7715 Ap.12	No trail Language Found							1684	no easements for access
Documented	378010039	claimed to BS on 10/2/69 6755/49 and LOC S-24954							15372	Map 6446 shows trails and access- old Beach Road	7715 Ap.12,7319,1063, 7365, 5561-d ap 2	No trail Language Found								
Documented	378010044	X							15372	Map 6446 shows trails and access- old Beach Road										
No Data Found	378010052	X																		
Documented	378010053	X					found in vicinity: 7019,7757,6816,784 4	#####	15370	found however map shows government road. Warranty	vicinity:10734,7319, 9698,5785,5561-h, 7715 'āpana 12)									

No Data Found	355005003	X																		
Documented	378010055	Storm Drain and Sewer Easement																		
Undocumented	378010055										7715 Ap.12	No trail Language Found								
Undocumented	378010058										7715 Ap.12	No trail Language Found								
Undocumented	378010065	Shoreline cert 5/8/01 596-Z (12) (1) 7/24/06 596-Z (18)									7715 Ap.12 5561 D:2	No trail Language Found								
Documented	378010066	Kealakekua Bay (12 FT. wide) Quitclaim Deed= State of																		
No Data Found	378010068	X																		
No Data Found	378010095	possibly a new subdivision not reflected on TMK																		
No Data Found	378010096	Not found																		
No Data Found	378010999																			
Documented	378012027	on road and beach																		
Documented	378012031	Access Easement									9946 A1	No trail Language Found								
No Data Found	378012032	X																		
No Data Found	378012048	Beach																		
Undocumented	378012050	X									7738 A2	No trail Language Found								
No Data Found	378012054	X									near 7738:2 9946:1	?								
Documented	378012058	Access Easement "1" Shoreline cert 3/27/03 596-Z (13)									7715 Ap.12	No trail Language Found								
Documented	378012076	Along Roadway																		
Documented	378012077	Along Roadway																		
Documented	378012078	Along Roadway																		
Documented	378012079	Along Roadway																		
Documented	378012082	Along Roadway																		
Documented	378012083	Along Roadway																		

No Data Found	355005003	X																		
Documented	378012085	Along Roadway																		
Documented	378012086	Along Roadway																		
Documented	378012101	an easement along parcel 48 next to beach and roadway																		
No Data Found	378012105	X																		
Documented	378012999	Road																		
Documented	378020001	Along Roadway									7713 A7	No trail Language Found								
Documented	378020002	Along Roadway									7713 A7	No trail Language Found								
Documented	378020003	Along Roadway									7713 A7	No trail Language Found								
Documented	378020004	Along Roadway									7713 A7	No trail Language Found								
Documented	378020005	Along Roadway									7713 A7	No trail Language Found								
Documented	378020024	Along Roadway																		
Documented	378020025	Along Roadway																		
Documented	378020026	Along Roadway																		
Documented	378020999	Road																		
Documented	381007054	Old Cart Road					2862	42.00 Kaulahao ma ka palena kahiko o Kaawaloa o ke												
No Data Found	381010004	parcel, possible subdivision not reflected in TMK																		
No Data Found	381010005	parcel, possible subdivision not reflected in TMK																		
Undocumented	382003002										9453 F Ap.2	No trail Language Found								
Documented	382003011	Adjacent to Government Road																		
Documented	382003029	Adjacent to Lower (Old) Government Main Road					867	3.20 Chains to where the line crosses the lower cart												
No Data Found	382003030	x																		
Documented	382003032	Adjacent to Lower (Old) Government Main Road					867	3.20 Chains to where the line crosses the lower cart												

No Data Found	355005003	X																		
Documented	382003033	Adjacent to Government Road																		
No Data Found	382003034	x																		
No Data Found	382003035	x																		
No Data Found	382003036	x																		
Documented	382004003	Adjacent to road to South Kona Belt Road									9745	No trail Language Found								
Documented	382004004	Adjacent to road to South Kona Belt Road	91-201K		2005-181461	no access provisions found, deed quite short					7003, 9789	No trail Language Found				H-350 (91)				
Documented	382004005	Adjacent to Beach Road					867	3.20 Chains to where the line crosses the lower cart												
Documented	382004006	Adjacent to Beach Road									11175	No trail Language Found								
Documented	382004007	Adjacent to Beach Road																		
Documented	382004011	Adjacent to Beach Road							17905	No reservations found				424	Road to Kealakekua Beach					
Documented	382004012	Adjacent to Beach Road					6345	not found												
Documented	382004013	Adjacent to Beach Road					867	3.20 Chains to where the line crosses the lower cart												
Documented	382004014	Adjacent to Beach Road					4578	No trail Language Found												
Documented	382004016	Adjacent to Beach Road																		
No Data Found	382004017	X																		
No Data Found	382004018	X																		
Documented	382004019	Adjacent to road to South Kona Belt Road																		
Documented	382004020	Adjacent to Beach Road					867	3.20 Chains to where the line crosses the lower cart												
Documented	382004021	Adjacent to road to South Kona Belt Road																		
Documented	382004999	Road																		
Documented	382005002	Beach Road																		
Undocumented	382005003		91-251K								9677	No trail Language Found				H-393 (91)				

No Data Found	355005003	X																		
Undocumented	382005005										226-B Ap.2	No trail Language Found								
Undocumented	382005006										226-B Ap.2	No trail Language Found								
Documented	382005008	Right of way, adjacent to Beach Road									7016-B A2	No trail Language Found								
Documented	382005009	Adjacent to Beach Road									11230	Not found								
Documented	382005010	Adjacent to Beach Road																		
Documented	382005011	Adjacent to Beach Road									101-G, 9694-F A2	No trail Language Found								
Documented	382005012	Adjacent to Beach Road									212-B	No trail Language Found								
Documented	382005013												421	Government Road						
Documented	382005014	Adjacent to Government Road									9453-F Ap.1	No trail Language Found								
Documented	382005015	Adjacent to Government Road					867	3.20 Chains to where the line crosses the lower cart.												
Documented	382005016	Adjacent to Beach Road																		
Documented	382005017	Adjacent to Beach Road					867	3.20 Chains to where the line crosses the lower cart.												
Documented	382005018	Adjacent to Beach Road																		
Documented	382005019	Adjacent to Government Road									8559	Hawaii...Makai by the public road, On Keauhou side by a								
Undocumented	382005020										8516-B Ap.2	No trail Language Found								
Documented	382005021	Adjacent to Beach Road					3596	not found												
Documented	382005022	Adjacent to Beach Road									9787	No trail Language Found								
Documented	382005023	Adjacent to Beach Road					1612	kīhi Hema ma ke alanui Aupuni, a e holo ana... Akau 12"												
Documented	382005024	Adjacent to Beach Road									8197-D	No trail Language Found								
Documented	382005025	Adjacent to Beach Road									9784	No trail Language Found								
Documented	382005026	Adjacent to Beach Road																		
Documented	382005027	Adjacent to Beach Road									7283-D	No trail Language Found								

No Data Found	355005003	X																		
Documented	382005028	Adjacent to Beach Road																		
Documented	382005029	Adjacent to Government Road									8559	Hawaii...Makai by the public road, On Keauhou side by a								
Documented	382005030	Adjacent to Beach Road									11760	?								
Documented	382005031	Adjacent to Beach Road											421	Government Road						
Documented	382005032	Adjacent to Government Road																		
Documented	382005033						867	3.20 Chains to where the line crosses the lower cart.												
Documented	382005034	Adjacent to Government Road																		
Documented	382006001	Adjacent to Puuhonua Road									13272	not found								
Documented	382006002	Adjacent to Puuhonua Road									12591	not found								
Documented	382006003	Adjacent to Puuhonua Road									12647	not found								
Undocumented	382006004										12618	not found								
Undocumented	382006005										12617	not found								
Undocumented	382006006										12620	not found								
Undocumented	382006007										12619	not found								
Documented	382006008	Adjacent to Puuhonua Road					5599	not found												
Documented	382006009	Adjacent to Puuhonua Road											425	trail walled in. Also says trail and shows Government Beach						
Undocumented	382006011										8538	No trail Language Found								
No Data Found	382006012						7771	not found												
Documented	382006013						1614	Akau 52 1/2" Hikina 3.16 Kaulahao ma ke alanui.												
Documented	382006014		01-1-0153K H-03 (02)				3150	North East corner of Maeikawa's kuleana at corner of wall on			8531	No trail Language Found								
Undocumented	382006015										9507 Ap 2	No trail Language Found								
No Data Found	382006016										10608	not found								

No Data Found	355005003	X																	
No Data Found	382006017										12559	not found							
No Data Found	382006018										10905	not found							
Undocumented	382006020										206-B	No trail Language Found							
No Data Found	382006021										10309	not found							
Documented	382006032	Adjacent to Manini Road					1614	Akau 52 1/2* Hikina 3.16 Kaulahao ma ke alanui.											
Undocumented	382006034										10904	No trail Language Found							
No Data Found	382006035										10309	not found							
Documented	382006999	Road																	
No Data Found	382007003						5983	not found											
Documented	382007004	Beach Road, next to trail in use									7292 A2	No trail Language Found	423	no accesses					
Documented	382007005	Next to in use trail									7292 A2	No trail Language Found							
No Data Found	382007010	Not found																	
No Data Found	382007011	Not found																	
Documented	382007999	Road																	
Documented	383004001	Adjacent to Puuhonua Road, trail									5368 (:) 4 & 5524:5	distant roadway from the interior of Kohala to Mahukona.							
Documented	383004002		169	?			1863	corner of this lot, a heap of stones on mauka side of Public									32	no trail language found	
Documented	383004004	on main road easement access																	
Documented	383004007	Adjacent to Puuhonua Road									5368 A4	distant roadway from the interior of Kohala to Mahukona.							
Documented	383004009	Mauka Makai Trail									5524 Ap 5	No trail Language Found							
Documented	383004011	county of Hawaii easement									5368 Ap 4	distant roadway from the interior of Kohala to Mahukona.							
Documented	383005001	makai end, Keel Beach Rd passes through it, Puuhonua															32	no trail language found	
Documented	383005003	Old Trail															32	no trail language found	

No Data Found	355005003	X																		
Documented	383005005	Old Trail															32	no trail language found		
Documented	383005006	Old Trail															32	no trail language found		
Undocumented	383005007										8231-C	No trail Language Found					32	no trail language found		
Undocumented	383005008										204 Ap B	No trail Language Found					32	no trail language found		
Undocumented	383005009										9504	No trail Language Found					32	no trail language found		
Undocumented	383005010										207-B	No trail Language Found					32	no trail language found		
Undocumented	383005011																32	no trail language found		
Undocumented	383005012																32	no trail language found		
Documented	383005013	Old Trail															32	no trail language found		
Documented	383005014	Old Trail															32	no trail language found		
Undocumented	383005015																32	no trail language found		
Undocumented	383005016																32	no trail language found		
Undocumented	383005017																32	no trail language found		
Undocumented	383005018																32	no trail language found		
Undocumented	383005019																32	no trail language found		
Documented	383005020	adjacent to Keei Beach Rd.									5368:4 & 5524:5	distant roadway from the interior of Kohala to Mahukona.					32	no trail language found		
Documented	383005999	Road																		
Documented	383006001	adjacent to trail									7009	No trail Language Found								
Undocumented	383006002										11251	No trail Language Found								
Documented	383006003	on trail									7011 A1	No trail Language Found								
Documented	383006004	adjacent to trail									7012 A1	No trail Language Found								
Documented	383006007	adjacent to trail									10376, 10210 A2	No trail Language Found								

No Data Found	355005003	X																		
Documented	383006008	adjacent to trail									8578	No trail Language Found								
Undocumented	383006009	adjacent to trail	6911		93-023918	only mineral and metallic rights					7202 A1	No trail Language Found			5921(-P)	H-181(81)				
Documented	383006011	trail									10989	No trail Language Found								
Documented	383006012	trail									7213 A1	No trail Language Found								
Documented	383006013	near trail									10988	No trail Language Found								
Documented	383006014	near trail									10987 A1	No trail Language Found								
Documented	383006015	near trail											1682	Government Road and Old Mountain Trail						
Documented	383006016	near trail																		
Documented	383006017	near trail									7055B	No trail Language Found								
Documented	383006018	near trail, Keei Beach Lots									7218 A1	No trail Language Found								
Documented	383006019	near trail, Keei Beach Lots									5368:4 & 5524:5	distant roadway from the interior of Kohala to Mahukona.								
Documented	383006020	near trail, Keei Beach Lots									5368:4 & 5524:5	distant roadway from the interior of Kohala to Mahukona.								
Documented	383006021	near trail, Keei Beach Lots									5368:4 & 5524:5	distant roadway from the interior of Kohala to Mahukona.								
Documented	383006022	near trail, Keei Beach Lots									5368:4 & 5524:5	distant roadway from the interior of Kohala to Mahukona.								
Documented	383006023	near trail, Keei Beach Lots									5368:4 & 5524:5	distant roadway from the interior of Kohala to Mahukona.								
Documented	383006025	near trail, Keei Beach Lots									5368:4 & 5524:5	distant roadway from the interior of Kohala to Mahukona.								
Documented	383006027	near trail, Keei Beach Lots									5368:4 & 5524:5	distant roadway from the interior of Kohala to Mahukona.								
Documented	383006028	near trail, Keei Beach Lots									5368:4 & 5524:5	distant roadway from the interior of Kohala to Mahukona.								
Documented	383006029	near trail, Keei Beach Lots									5368:4 & 5524:5	distant roadway from the interior of Kohala to Mahukona.								
Documented	383006030	near trail									5368:4 & 5524:5	distant roadway from the interior of Kohala to Mahukona.								
Documented	383006032	near trail	6911 near parcel								5368:4 & 5524:5	distant roadway from the interior of Kohala to Mahukona.			5921 (p)	H-181 (81)				
Documented	383006033	near trail									5368:4 & 5524:5	distant roadway from the interior of Kohala to Mahukona.								

No Data Found	355005003	X																		
Documented	383006034	near trail									5368:4 & 5524:5	distant roadway, from the interior of Kohala to Mahukona.								
Documented	383006037	near trail									9783 A1	No trail Language Found								
Documented	383006038	near trail									10376 & 10210 A2	No trail Language Found								
Documented	384011004	adjacent to City of Refuge road.									7712 Ap 1	No trail Language Found								
Documented	384011005	, trail running throughHonaunau Beach Road adjacent									11216 A34, 539, 8507	No trail Language Found								
Documented	384011013	mauka makai trial passes through the middle									11216 Ap 34	No trail Language Found								
Undocumented	384011014										11216 Ap 34	No trail Language Found								
Documented	384011999	Road																		
Undocumented	384012002										11216 Ap 34 and 7099	No trail Language Found								
Documented	384012004	Honaunau Beach Road									5144 A1, 1938-B A1, 9769-E A2	No trail Language Found								
Documented	384012005	Honaunau Beach Road									11216 Ap 34	No trail Language Found								
No Data Found	384012006										11216 Ap 34 and 6941 Ap 1	?								
Documented	384012007	Honaunau Beach Road									11216 Ap 34	No trail Language Found								
Documented	384012008	Honaunau Beach Road									11216 Ap 34 and 7001 Ap D	No trail Language Found								
Documented	384012009	Honaunau Beach Road									11217 Ap 34	No trail Language Found								
Undocumented	384012010										11218 Ap 34	No trail Language Found								
Documented	384012011	Honaunau Beach Road trail passes through									11219 Ap 34	No trail Language Found								
Documented	384012012	Road and utility easement									6993 A1	No trail Language Found								
Undocumented	384012014										11220 Ap 34	No trail Language Found								
Undocumented	384012015										11221 Ap 34	No trail Language Found								
Documented	384012016	Honaunau Beach Road									9464D A2	No trail Language Found								
Documented	384012017	Honaunau Beach Road									RP 3308 7104:1, 11223 Ap 34 6993	?								

No Data Found	355005003	X																		
Documented	384012999	Road																		
Documented	384013014	Honaunau Beach Road																		
Documented	384013015	Honaunau Beach Road Shoreline crt. 6/3/86 596-Q									4089 A1	No trail Language Found								
Undocumented	384013016										9769-B	No trail Language Found								
Undocumented	384013017										7284 Ap 1	No trail Language Found								
Documented	384013018	Honaunau Beach Road Shoreline crt. 6/3/86 596-Q									1938E A7	No trail Language Found								
Undocumented	384013020										7296	No trail Language Found								
Undocumented	384013021										7295, 6979-B Ap 2	No trail Language Found								
Undocumented	384013022										7296	No trail Language Found								
Documented	384013028	access to beach on roadway									11216 Ap 34	No trail Language Found								
Documented	384013999	Road																		
Documented	384014002	Highway, trail easement																		
Documented	384014003	Highway, trail easement																		
Documented	384014024	30' roadway far away from shore																		
Documented	385001999	road																		
No Data Found	385005029	cancelled?																		
Documented	386007003	map points to border between parcels 8 and 3	88-143K and 92-185k	both Stack parcels, pg 25-27 has trails reserved. Doc #							7713 Ap 9	No trail Language Found								
Documented	386007008	map points to border between parcels 8 and 3	88-143K and 92-185k	both Stack parcels, pg 25-27 has trails reserved. Doc #							7713 Ap 9	No trail Language Found								
Documented	386007031	South Kona Belt Road																		
Documented	386008001	between Govt Road and South Kona Belt Road					1586	#####												
Documented	386008999	Road																		
Documented	386011001	Adjacent to Govt Road									7027 A2, 7303 A2, 9747-C A2, 7802-B A2 9746-C:2 7130:3	No trail Language Found								

No Data Found	355005003	X																		
Documented	386011002	trail, govt road, School Grant 7:8					1454, 1466	#####			A6, 7550 A3, 10389, 7702 A1, 9971 A29, 7574-B, 7130 A3	No trail Language Found								
Documented	386011012	adjacent to roadway																		
Documented	386011999	Road																		
Documented	386012007	road									10442 A1	N/A								
Undocumented	386012011										10220 A1	No trail Language Found								
Documented	386012012	near road																		
Documented	386012013	near road									1938-D	No trail Language Found								
Documented	386013001	roadway																		
Documented	386013002	roadway									10295 A1	No trail Language Found								
Documented	386013003	roadway									9971 A29	Lot 37 - Tailor shop site - I have seen this tailor shop and land in Keopu of Kona, Hawaii.								
Undocumented	386013006										7037 A1	No trail Language Found								
Documented	386013007	next to road																		
Undocumented	386013008										7498 A1	No trail Language Found								
Documented	386013009						58538	Must be misspelled and actually be Royal Patent Grant S-8558	13308		9971 A29	site - I have seen this tailor shop and land in Keopu of Kona,								
Documented	386013010	next to road																		
Documented	386013011	road and utility easement									7066 A1	No trail Language Found								
Undocumented	386013012										7006 A1	No trail Language Found								
No Data Found	386013014	X																		
Undocumented	386013015										10384 A1	No trail Language Found								
Undocumented	386013016										10384 A1	No trail Language Found								
Documented	386013017	Govt Beach Road									7027-B A1	No trail Language Found								
No Data Found	386013018	X																		

No Data Found	355005003	X																	
No Data Found	386013019	X																	
Documented	386013026	roadway					4288	not found											
Documented	386013027	roadway									7601 A1	No trail Language Found							
No Data Found	386013032	X																	
Documented	386013033	roadway									7574 A1	No trail Language Found							
Documented	386013034	roadway					3428	not found											
Documented	386013035	roadway									7506 A2	No trail Language Found							
Documented	386013036	roadway																	
Documented	386013038	Govt Main Road																	
Documented	386013040	school grant 7 A8							12401	No reservations found. Beach road is shown on map	9971	Lot 37 - Tailor shop site - I have seen this tailor shop and land in Keopu of Kona, Hawaii.							
Documented	386013041		88-079		92-165198	"Rights of Native Tenants" but no other access											H-157(88)		
Documented	386013042	roadway					3189 A2	Hikina 1.47 kaulahao ma ke Alanui, Akau 41 1/2" Komohana											
Undocumented	386013043										10381 A1	No trail Language Found							
No Data Found	386013044	X																	
Documented	386013045	roadway					3428	Government road...218 feet along stone wall by											
Documented	386013049	roadway									7034 A1	No trail Language Found							
Documented	386013050										9971 A29	site - I have seen this tailor shop and land in Keopu of Kona,							
Documented	387003001						1971	840 Kaulahao hiki ma ka aoao mauka o <u>Alanui</u> .											
Documented	387003002						1974	840 Kaulahao hiki i ka ahu pohaku mauka o ke alanui.											
Documented	387003012		5475	State reserves easement for "Old Kings Highway"	2002-177906	State reserves rights to trails, roads, etc. Yahtzee!	1974	840 Kaulahao hiki i ka ahu pohaku mauka o ke alanui.											
Documented	387005002	Trail from south passing through parcel					2036	3.50 Kaulahao hiki i ke alanui <u>makai</u> ma ka palena o											
Documented	387005004	Adjacent to Mamalahoa Hwy					1970	900 257 Kaulahao hiki i ka Ahu pohaku ma ke alanui <u>Aupuni</u> .											

No Data Found	355005003	X																	
Documented	387009002						2368	kihi Hema ma ke Alanui makai...Akau 34° 15' Komohana											
Documented	387009015	Third party complaint, road and utility easement	5474	No easement	98-024242	rights, but mention of "Old Hawaiian Road". Exhibit A and					91948	N/A				180(86)			
No Data Found	387011002	cancelled?																	
Documented	387011003	trail	6539		92-011072	to Kings Trail pg 7-8, map pg 11, reserve portion of	3166	No trail Language Found								H-348(81)			
Documented	387011006	trail	6539		2008-065675	Kepano, 2008, no reservations for anything. 3 pages	3166	No trail Language Found								H348(81)			
No Data Found	387013013						3396	not found											
Undocumented	387013014										11000	No trail Language Found							
No Data Found	387013018	Green, meaning it's govt?, carton 32									S-13978	not found							
No Data Found	387013063	on shoreline 11/19/90 FLD596					2571	Not found											
No Data Found	387013081						2571	Not found											
Documented	387014001	intersect Mamalahoa Hwy					S-8558	#####	15975	Kaapuna trail is shown on map (as well as other	10218	No trail Language Found							
Documented	387014002	Lava Extension, S.O.H. owner					2572	Not found											
Documented	387014006	Easement (Es't 15 ft wide)					2572	Not found											
Documented	387014007	Access easement, adjacent to Mamalahoa Hwy																	
No Data Found	387014053	not found																	
No Data Found	387014054	not found																	
No Data Found	387014057	not found																	
No Data Found	387014058	not found																	
No Data Found	387014059	not found																	
No Data Found	387014060	not found																	
No Data Found	387014061	not found																	
Documented	387014999	Road																	

No Data Found	355005003	X																		
Documented	387019029	Adjacent to Kaohe Park																		
Documented	387019030	Adjacent to Kaohe Park																		
Documented	387019031	Adjacent to Kaohe Park																		
Documented	387019032	Adjacent to Kaohe Park																		
Documented	387019035	Next to Kaohe Rd																		
Documented	387019036	Next to Kaohe Rd																		
Documented	387019041	Next to Kaohe Rd																		
Documented	387019055	Beach Park, Section Map 8-7 shows coastal trail							DEED IS RIGHT PARCEL WITH THIS INFO								25			
Documented	387019056	road																		
Documented	388001007	State Land																		
No Data Found	388002003	X																		
Documented	388002007						3153	Chains to Government Road and rock marked												
Documented	388002008						3153	Chains to Government Road and rock marked			8948 A2	No trail Language Found								
Documented	388002013						3153	Chains to Government Road and rock marked												
Documented	388002014						3153	Chains to Government Road and rock marked												
Documented	388002017						3153	Chains to Government Road and rock marked												
Documented	388002022						3153	Chains to Government Road and rock marked												
Documented	388003001	adjacent to Mamalahoa Hwy																		
No Data Found	388003005	X																		
No Data Found	388003015	X																		
Documented	388003999	Road																		
Documented	388005021	Near Auau Ave.																		

No Data Found	355005003	X																		
Documented	388005022	Near Auau Ave.																		
Documented	388005023	Near Auau Ave.																		
Documented	388005113	Parcel is a road (Kai Ave)																		
Documented	388005113	Road																		
Documented	388006023	Adjacent to roadway																		
Documented	388006024	Adjacent to roadway																		
Documented	388006025	Adjacent to roadway																		
Documented	388006061	Adjacent to roadway																		
Documented	388006062	Adjacent to roadway																		
Documented	388006063	Adjacent to roadway																		
Documented	388006064	Adjacent to roadway																		
Documented	388006065	Adjacent to roadway																		
Documented	388006066	Adjacent to roadway																		
Documented	388006067	Adjacent to roadway																		
Documented	388006081	Adjacent to roadway																		
Documented	388006082	Adjacent to roadway																		
Documented	388006083	Adjacent to roadway																		
Documented	388006087	Adjacent to roadway																		
Documented	388006088	Adjacent to roadway																		
Documented	388006089	Adjacent to roadway																		
Documented	388006090	Adjacent to roadway																		
Documented	388006091	Adjacent to roadway																		

No Data Found	355005003	X																		
Documented	388006092	Adjacent to roadway																		
Documented	388006093	Adjacent to roadway																		
Documented	388006094	Adjacent to roadway																		
Documented	388006096	Adjacent to roadway																		
Documented	388006097	Adjacent to roadway																		
Documented	388006098	Adjacent to roadway																		
Documented	388006099	Adjacent to roadway																		
Documented	388006100	Adjacent to roadway																		
Documented	388006101	Adjacent to roadway																		
Documented	388006102	Adjacent to roadway																		
Documented	388006103	Adjacent to roadway																		
Documented	388006104	Road																		
Documented	388007007	Adjacent to roadway																		
Documented	388007008	Adjacent to roadway																		
Documented	388007009	Adjacent to roadway																		
Documented	388007010	Adjacent to roadway																		
Documented	388007011	Adjacent to roadway																		
Documented	388007012	Adjacent to roadway																		
Documented	388007013	Adjacent to roadway																		
Documented	388007014	Adjacent to roadway																		
Documented	388007015	Adjacent to roadway																		
Documented	388007016	Adjacent to roadway																		

No Data Found	355005003	X																		
Documented	388007017	Adjacent to roadway																		
Documented	388007018	Adjacent to roadway																		
Documented	388007019	Adjacent to roadway																		
Documented	388007032	Adjacent to roadway																		
Documented	388007033	Adjacent to roadway																		
Documented	388007034	Adjacent to roadway																		
Documented	388007035	Adjacent to roadway																		
Documented	388007036	Adjacent to roadway																		
Documented	388007037	Adjacent to roadway																		
Documented	388007038	Adjacent to roadway																		
Documented	388007039	Adjacent to roadway																		
Documented	388007040	Adjacent to roadway																		
Documented	388007041	Adjacent to roadway																		
Documented	388007042	Adjacent to roadway																		
Documented	388007043	Adjacent to roadway																		
Documented	388007044	Adjacent to roadway																		
Documented	388007053	Adjacent to roadway																		
Documented	388007054	Adjacent to roadway																		
Documented	388007055	Adjacent to roadway																		
Documented	388007056	Adjacent to roadway																		
Documented	388007057	Adjacent to roadway																		
Documented	388007058	Adjacent to roadway																		

No Data Found	355005003	X																		
Documented	388008016	Adjacent to roadway																		
Documented	388008017	Adjacent to roadway																		
Documented	388008018	Adjacent to roadway																		
Documented	388008019	Adjacent to roadway																		
Documented	388008020	Adjacent to roadway																		
Documented	388008021	Adjacent to roadway																		
Documented	388008022	Adjacent to roadway																		
Documented	388008023	Adjacent to roadway																		
Documented	388008024	Adjacent to roadway																		
Documented	388008025	Adjacent to roadway																		
Documented	388008106	Road (cul de sac)																		
Documented	388009010	Adjacent to roadway																		
Documented	388009011	Adjacent to roadway																		
Documented	388009012	Adjacent to roadway																		
Documented	388009013	Adjacent to roadway																		
Documented	388009014	Adjacent to roadway																		
Documented	388009015	Adjacent to roadway																		
Documented	388009016	Adjacent to roadway																		
Documented	388009017	Adjacent to roadway																		
Documented	388009018	Adjacent to roadway																		
Documented	388009019	Adjacent to roadway																		
Documented	388009020	Adjacent to roadway																		

No Data Found	355005003	X																		
Documented	388009021	Adjacent to roadway																		
Documented	388009022	Adjacent to roadway																		
Documented	388009125	On coastline																		
Documented	388009126	On coastline																		
Documented	388009127	On coastline																		
Documented	388009128	On coastline																		
Documented	388009129	Adjacent to roadway																		
Documented	388009130	Adjacent to roadway																		
Documented	388009141	"(Park Site)" owned by Milolii Beach Club Association																		
Documented	388011001	Adjacent to road																		
Documented	388011002	Adjacent to road																		
Documented	388011003	Adjacent to road																		
Documented	388011004	Adjacent to road																		
Documented	388011005	Adjacent to road																		
Documented	388011006	Adjacent to road																		
Documented	388011007	Adjacent to road																		
Documented	388011008	Adjacent to road																		
Documented	388011009	Adjacent to road																		
Documented	388011010	Adjacent to road																		
Documented	388011011	Adjacent to road																		
Documented	388011012	Adjacent to road																		
Documented	388011013	Adjacent to road																		

No Data Found	355005003	X																		
Documented	388011014	Adjacent to road																		
Documented	388011015	Adjacent to road																		
Documented	388011016	Adjacent to road																		
Documented	388011017	Adjacent to road																		
Documented	388011018	Adjacent to road																		
Documented	388011019	Adjacent to road																		
Documented	388011020	Adjacent to road																		
Documented	388011021	Adjacent to road																		
Documented	388011038	Adjacent to road																		
Documented	388011054	Adjacent to road																		
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Documented	388011059	Adjacent to road																		
Documented	388011060	Adjacent to road																		
Documented	388011062	Adjacent to road																		
Documented	388011073	Milolii Road																		
Documented	388012001	Adjacent to road (subdivision)																		
Documented	388012002	Adjacent to road (subdivision)																		
Documented	388012003	Adjacent to road (subdivision)																		
Documented	388012004	Adjacent to road (subdivision)																		

No Data Found	355005003	X																		
Documented	388012005	Adjacent to road (subdivision)																		
Documented	388012006	Adjacent to road (subdivision)																		
Documented	388012007	Adjacent to road (subdivision)																		
Documented	388012008	Adjacent to road (subdivision)																		
Documented	388012009	Adjacent to road (subdivision)																		
Documented	388012010	Adjacent to road (subdivision)																		
Documented	388012011	Adjacent to road (subdivision)																		
Documented	388012012	Adjacent to road (subdivision)																		
Documented	388012013	Adjacent to road (subdivision)																		
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Documented	388012016	Adjacent to road (subdivision)																		
Documented	388012017	Adjacent to road (subdivision)																		
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Documented	388012019	Adjacent to road (subdivision)																		
Documented	388012020	Adjacent to road (subdivision)																		
Documented	388012021	Adjacent to road (subdivision)																		
Documented	388012022	Adjacent to road (subdivision)																		
Documented	388012050	Adjacent to road (subdivision)																		
Documented	388012051	Adjacent to road (subdivision)																		
Documented	388012052	Adjacent to road (subdivision)																		
Documented	388012053	Adjacent to road (subdivision)																		

No Data Found	355005003	X																		
Documented	388012054	Adjacent to road (subdivision)																		
Documented	388012055	Adjacent to road (subdivision)																		
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Documented	388012057	Adjacent to road (subdivision)																		
Documented	388012058	Adjacent to road (subdivision)																		
Documented	388012066	Puhala Ave																		
Documented	388012067	Pikake Ave																		
Documented	388012068	Milolii Road																		
Documented	388013001	Adjacent to road (subdivision)																		
Documented	388013002	Adjacent to road (subdivision)																		
Documented	388013003	Adjacent to road (subdivision)																		
Documented	388013004	Adjacent to road (subdivision)																		
Documented	388013005	Adjacent to road (subdivision)																		
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Documented	388013010	Adjacent to road (subdivision)																		
Documented	388013011	Adjacent to road (subdivision)																		
Documented	388013012	Adjacent to road (subdivision)																		
Documented	388013013	Adjacent to road (subdivision)																		
Documented	388013014	Adjacent to road (subdivision)																		

No Data Found	355005003	X																	
Documented	388013037	Adjacent to road (subdivision)																	
Documented	388013038	Adjacent to road (subdivision)																	
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Documented	388013041	Adjacent to road (subdivision)																	
Documented	388013042	Adjacent to road (subdivision)																	
Documented	388013043	Awapuhi Ave																	
Documented	388014001	Adjacent to road (subdivision)																	
Documented	388014002	Adjacent to road (subdivision)																	
Documented	388014003	Adjacent to road (subdivision)																	
Documented	388014010	Adjacent to road (subdivision)																	
Documented	388014011	Adjacent to road (subdivision)																	
Documented	388014012	Adjacent to road (subdivision)																	
Documented	388014013	Adjacent to road (subdivision)																	
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Documented	388014020	Adjacent to road (subdivision)																	
Documented	388014021	Adjacent to road (subdivision)																	
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Documented	388014023	Adjacent to road (subdivision)																	
Documented	388014024	Adjacent to road (subdivision)																	
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Documented	388014037	Adjacent to road (subdivision)																	

No Data Found	355005003	X																		
Documented	388014038	Adjacent to road (subdivision)																		
Documented	388014039	Adjacent to road (subdivision)																		
Documented	388014040	Adjacent to road (subdivision)																		
Documented	388014041	Awapuhi Place																		
Documented	388014042	Lehua Ave																		
Documented	388014043	Lehua Ave																		
Documented	388014044	Milolii Road																		
Documented	388015001	Adjacent to road (subdivision)																		
Documented	388015002	Adjacent to road (subdivision)																		
Documented	388015003	Adjacent to road (subdivision)																		
Documented	388015004	Adjacent to road (subdivision)																		
Documented	388015005	Adjacent to road (subdivision)																		
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Documented	388015009	Adjacent to road (subdivision)																		
Documented	388015014	Adjacent to road (subdivision)																		
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No Data Found	355005003	X																	
Documented	388015020	Adjacent to road (subdivision)																	
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Documented	388015058	Adjacent to road (subdivision)																	
Documented	388015059	Adjacent to road (subdivision)																	
Documented	388015063	Lani Ave																	
Documented	388015999	Road?																	

No Data Found	355005003	X																		
Documented	388016003	potential trail																		
Documented	388016005	Adjacent to road (subdivision)																		
Documented	388016006	Adjacent to road (subdivision)																		
Documented	388016008	near trail																		
Documented	388016009	Adjacent to road (subdivision)																		
Documented	388016010	Adjacent to road (subdivision)																		
Documented	388016011	Adjacent to road (subdivision)																		
Documented	388016012	Adjacent to road (subdivision)																		
Documented	388016014	Road easement																		
Documented	388016015	Adjacent to road (subdivision)																		
Documented	388016016	Adjacent to road (subdivision)																		
Documented	388016017	Adjacent to road (subdivision)																		
Documented	388016018	Adjacent to road (subdivision)																		
Documented	388016019	Adjacent to road (subdivision)																		
Documented	388016020	Adjacent to road (subdivision)																		
Documented	388016021	Adjacent to road (subdivision)																		
Documented	388016025	Adjacent to road (subdivision)																		
Documented	388016026	Adjacent to road (subdivision)																		
Documented	388016027	Adjacent to road (subdivision)																		
Documented	388016028	Adjacent to road (subdivision)																		
Documented	388016029	potential trail																		
Documented	388016030	potential trail																		

No Data Found	355005003	X																		
Documented	388016031	Adjacent to road (subdivision)																		
Documented	388016032	Adjacent to road (subdivision)																		
Documented	388016033	Adjacent to road (subdivision)																		
Documented	388016034	Adjacent to road (subdivision)																		
Documented	388016036	Adjacent to road (subdivision)																		
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Documented	388016042	Adjacent to road (subdivision)																		
Documented	388016043	Adjacent to road (subdivision)																		
Documented	388016999	Road?																		
Documented	388019043	Adjacent to road (subdivision)																		
Documented	388019045	Adjacent to road (subdivision)																		
Documented	388019046	Road easement, telephone easement																		
Documented	389001031	Utility easement access adjacent																		
Documented	389001999	Road?																		
Documented	389003002	Directly along trail																		
Documented	389003006	trail goes through					3079	Koe nae ke kuleana o Kanaka												
Documented	389003010	coast, trail					1585	alanui makai i ke kihi Komohana_Hema 5"												
Documented	389003085	coast, trail																		

No Data Found	355005003	X																	
Documented	389004002	adjacent to road																	
Documented	389004003	adjacent to road																	
Documented	389004004	adjacent to road									8119 A1	No trail Language Found							
Documented	389004006	adjacent to road						5816	No Reservations Found. Map shows Government Road		11250	not found							
Undocumented	389004009										8045 A1	No trail Language Found							
Documented	389004012	adjacent to road					1581	Akau 84 3/4" Hikina 1.42 Kaulahao ma ke alanui											
Documented	389004018	adjacent to road																	
Documented	389004023		93-108K		99-160367	the Easterly side of Government Road and on the Westerly					10134 A1	No trail Language Found							
Undocumented	389004024		93-108K			not found. Name has other deeds on other parcels, but					8540 A1	No trail Language Found							
Undocumented	389004777	not found																	
Documented	389004999	Road?																	
Documented	389005003	adjacent to trail									8566 A1	No trail Language Found							
Documented	389005005	adjacent to trail									8560 A1	No trail Language Found							
Documented	389005007	near trail									10876	No trail Language Found							
Documented	389005008	near trail											1566	Beach Road and Government Road					
Documented	389005009	near trail											1566	Beach Road and Government Road					
Documented	389005010	near trail											1566	Beach Road and Government Road					
Documented	389005011	near trail											1566	Beach Road and Government Road					
Documented	389005012	near trail											1566	Beach Road and Government Road					
Documented	389005014	near trail																	
No Data Found	389005015	X																	
Documented	389005016												1566	Beach Road and Government Road					

No Data Found	355005003	X																	
Documented	389005017												1566	Beach Road and Government Road					
No Data Found	389006003	9971 Ap 30																	
Undocumented	389006003	coast														H-21(89) (Trails)			
Undocumented	389006005	coast	6000			deed for this parcel not found			592(1K)		10527 A1	No trail Language Found							
Documented	389006028	Road and utility easments																	
No Data Found	389006034	X																	
Documented	389007043	adjacent to road																	
Documented	389010003	Honomalino Trail goes through (on parcel 04: Deed 2008	86-411		2006-225671	reserve right to public makai trail pg 11 of 12	3037, 1467 A2	#####								H-238			
Documented	389010004	Milolii to Honomalino Trail goes through					3037	Chains to a pile of rocks on makai of Government road.								H-238			
Documented	389010005	Milolii to Honomalino Trail goes through	86-411		2006-014125	reserve Milolii- Honomalino Trail, pg 8 and 16 of 16	1467 A2, 1573 A2	#####								H-238			
No Data Found	389013020	X																	
No Data Found	389013021	X																	
No Data Found	389013022	X																	
No Data Found	389013028	X																	
No Data Found	389013030	X																	
No Data Found	389013031	X																	
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No Data Found	389013037	X																	

No Data Found	355005003	X																		
No Data Found	389013038	X																		
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No Data Found	389013041	X																		
No Data Found	389013042	X																		
No Data Found	389013043	X																		
No Data Found	389013044	X																		
No Data Found	389013045	X																		
No Data Found	389013071	X																		
No Data Found	389013072	X																		
Documented	389013079	Trail 10 ft wide/Government Road (40 ft wide)																		
Documented	389013080	near road																		
Documented	389013081	not found																		
Documented	389013999	Road?																		
Documented	389014999	Road?																		
Documented	392001070						2791	Reserved the rights of Native tenants.												
Documented	392001072						2791	Reserved the rights of Native tenants.												
Documented	392001075						2791	Reserved the rights of Native tenants.												
Documented	392001076						2791	Reserved the rights of Native tenants.												
Undocumented	393001006										7713 Ap 10, 8559-B Ap 12	No trail Language Found								