



NFIP

Hawaii - National Flood Insurance Program
Flood Hazard Assessment Tool



Hawaii GIS Flood Hazard Assessment Tool

2017 Esri User Conference
July 13, 2017

Christine Chaplin, GISP
The Onyx Group
Honolulu, Hawaii



Project Background

- FHAT created to assist State in administration of National Flood Insurance Program (NFIP)
- NFIP is Federal program to allow property owners access to flood insurance
- NFIP is administered through FEMA and state coordinators
- Mature system – initially online in January 2008



NFIP

Hawaii - National Flood Insurance Program
Flood Hazard Assessment Tool



Initial Development Objectives

- Interactive GIS web application to access flood info for parcel or location
- Utilizes Federal, State, and County data
- Accessibility to LOMCs, NGS Datasheets for Benchmark, and Flood Insurance Studies



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Hawaii - National Flood Insurance Program
Flood Hazard Assessment Tool



Data Utilized

- Datasets by County
 - High Resolution Imagery
 - TMK Parcel Data
 - DFIRM Panels
 - DFIRM Flood Zones
- All Vector: Kauai, Honolulu, Maui counties
- Vector/Raster: Hawaii County



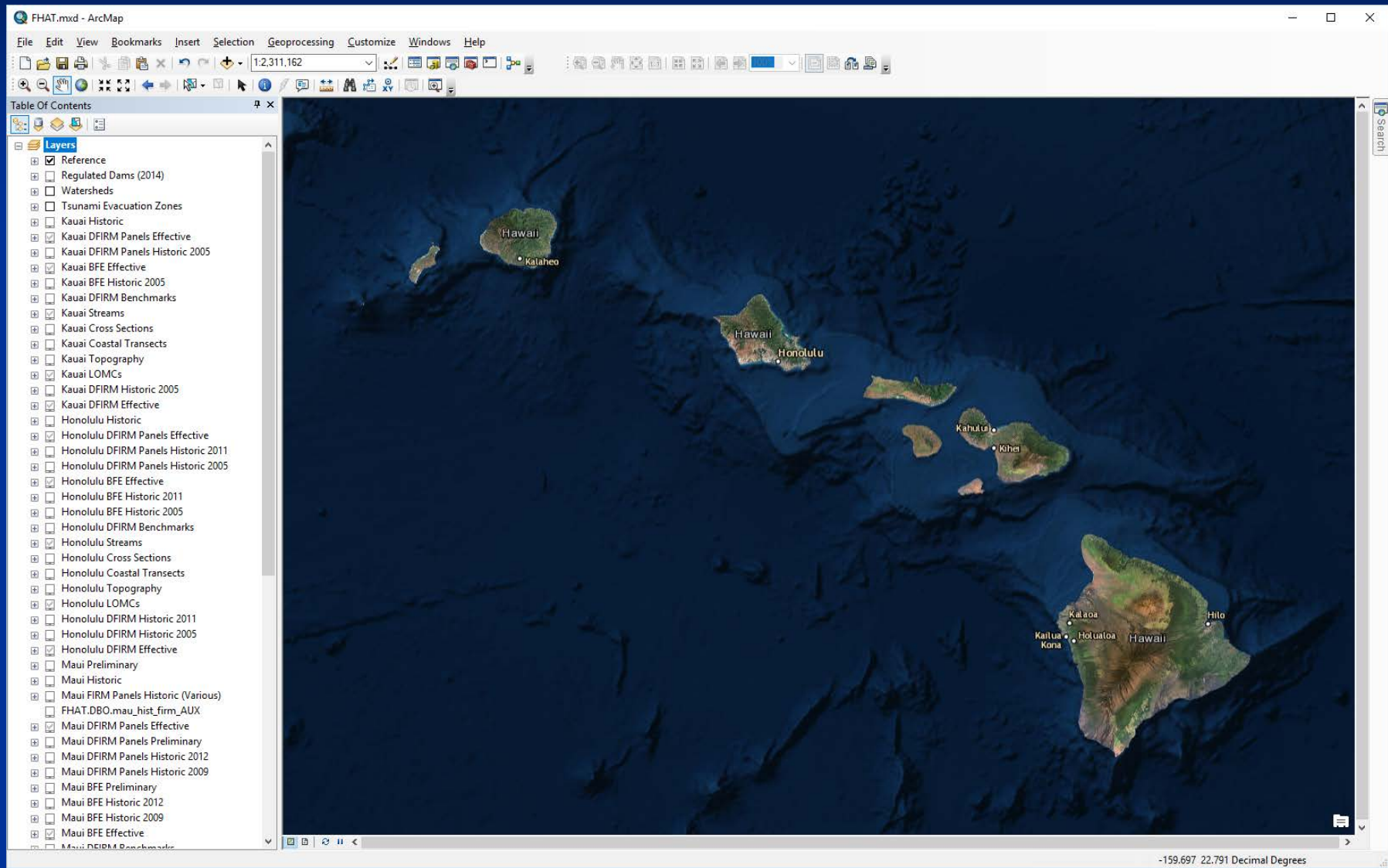
NFIP

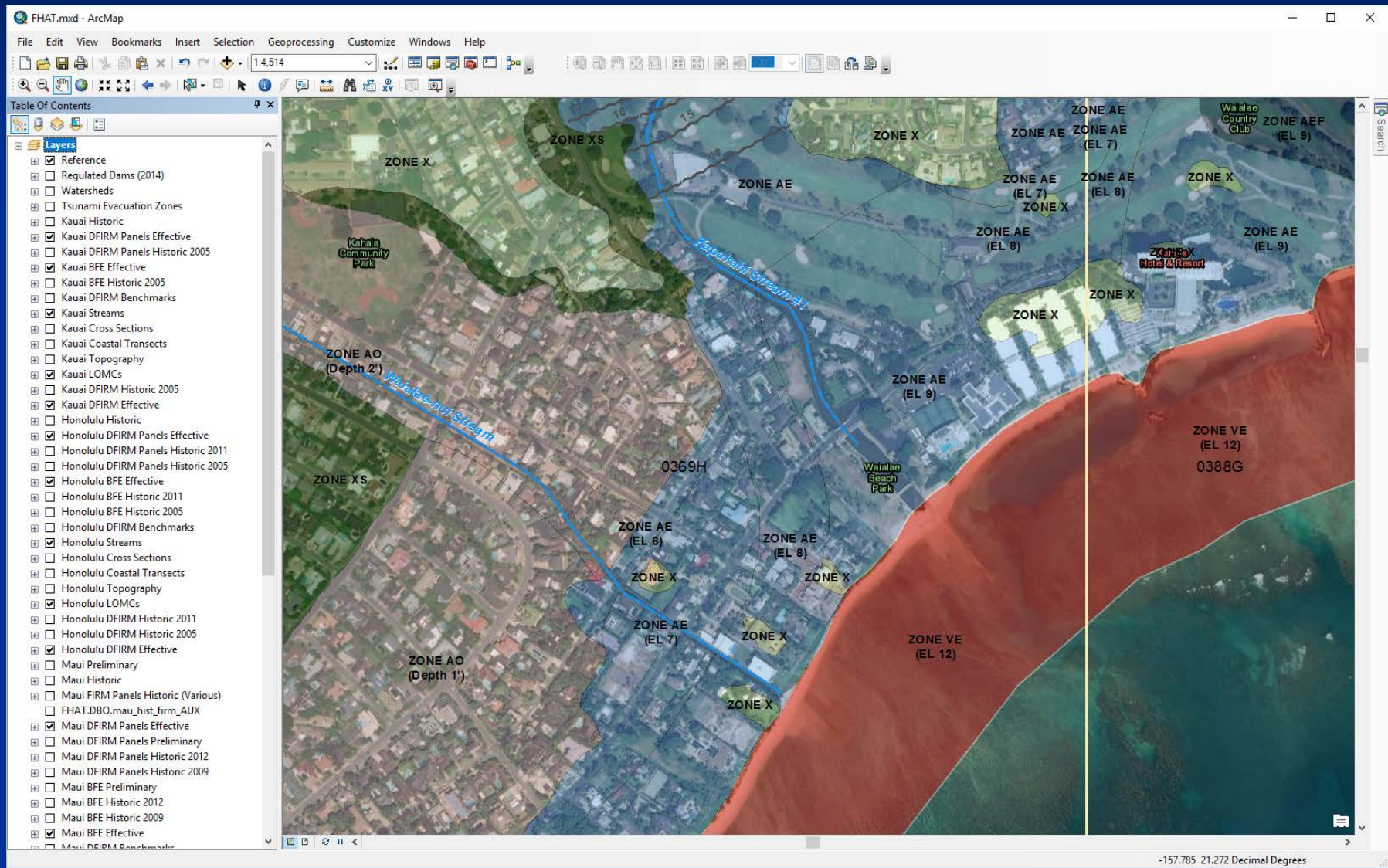
Hawaii - National Flood Insurance Program
Flood Hazard Assessment Tool

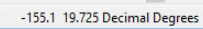


Technology Utilized

- ArcGIS Server 10.4
 - Dynamic services
 - Tiled services
- SQL Server Enterprise Geodatabase 10.4
- ArcGIS Javascript API 3.20
- MVC Architecture
- DevExpress third-party controls









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Hawaii - National Flood Insurance Program
Flood Hazard Assessment Tool



Key Functionality

- Search for Parcels by Address or Tax Map Key
- Output to PDF report
- Links to Additional Resources
- Markup Tools
- Elevation Certificate Initiation
- View Preliminary DFIRM

Home Page

Flood Hazard Assessment Tool

gis.hawaiiinfip.org/FHAT/

Search

☆ 📄 🔔 ⬇️ 🏠 ☰

State of Hawaii, Department of Land and Natural Resources

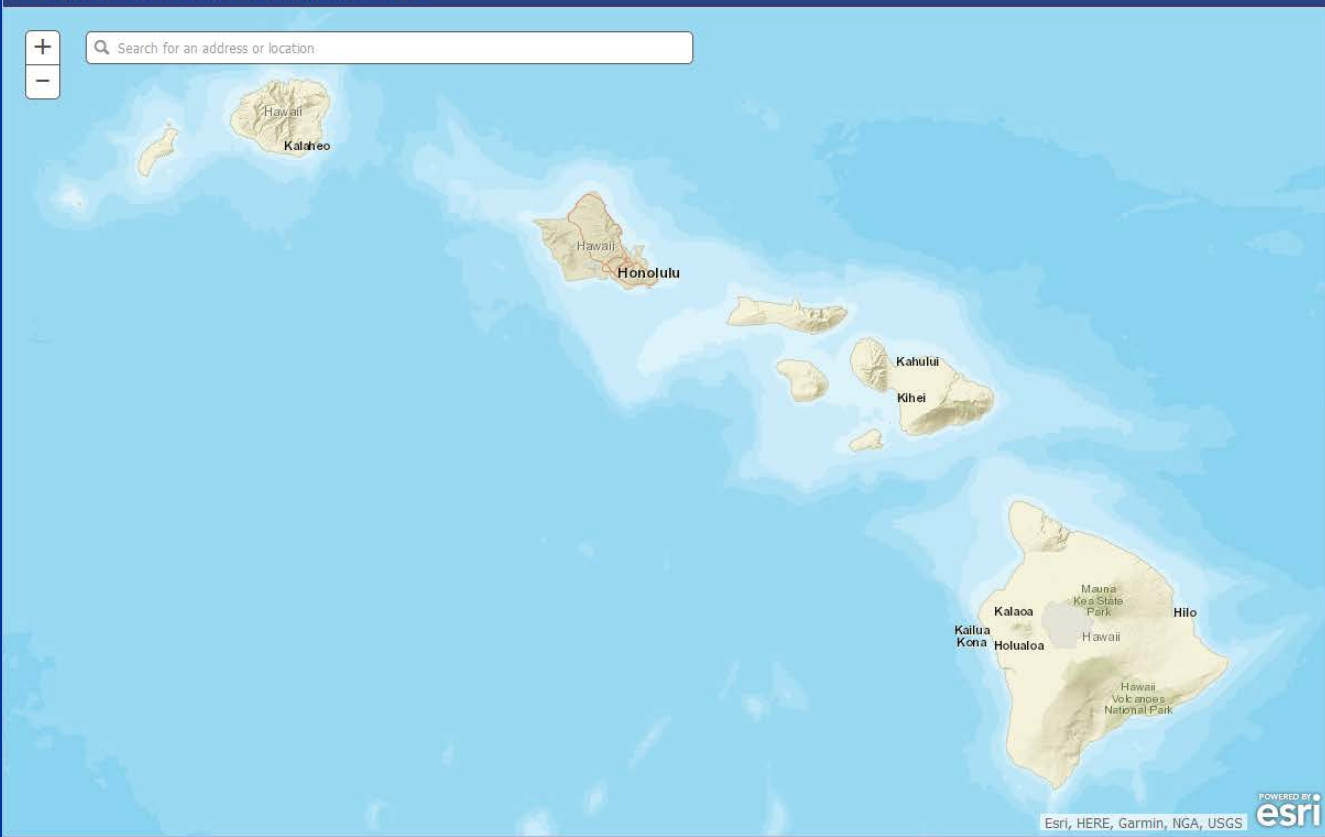
Flood Hazard Assessment Tool

[Print Report](#) | [Home](#)

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-

Search for an address or location



POWERED BY
Esri, HERE, Garmin, NGM, USGS

Map Layers

TMK Search

Panel Search

Stream/Watershed Search

Letter of Map Change (LOMC)

Elevation Certificate Generator

Drawing Tools

Measure Tools

NGS Datasheet Tool

Flood Insurance Studies (FIS)

Map Legend

Help

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0 20 40mi

-156.900464, 22.552859

**NFIP**

Hawaii - National Flood Insurance Program Flood Hazard Assessment Tool



Parcel Search

Flood Hazard Assessment Tool

gis.hawaiiinfip.org/FHAT/

State of Hawaii, Department of Land and Natural Resources
Flood Hazard Assessment Tool

+

-

Kahala Hotel

Click on the structure or parcel of interest

Map Layers

Effective FIRM/DFIRM

☒ Honolulu County

☒ Maui County

☒ Hawaii County

☒ Kauai County

DFIRM Base Layers

☐ Stream Cross Sections

☒ LOMCs

☐ Benchmarks

☐ Coastal Transect Lines

Preliminary DFIRM

☐ Hawaii County

Historic DFIRM/FIRM

☐ Honolulu County DFIRM (1/19/2011)

☐ Honolulu County DFIRM (6/2/2005)

☐ Maui County DFIRM (9/19/2012)

☐ Maui County DFIRM (9/25/2009)

☐ Maui County FIRM (various)

☐ Kauai County DFIRM (9/16/2005)

Other Layers

☒ County Parcels (TMKs)

☐ Coastal Topography (south shore only)

☐ State Regulated Dams

View flood map as: FHAT

Basemap: FIRM Basemap

Set flood map layers transparency:

0 10 20 30 40 50 60 70 80 90 100

0 200 400ft

157.771250, 21.272911

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Parcel Identify

Flood Hazard Assessment Tool

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State of Hawaii, Department of Land and Natural Resources

Flood Hazard Assessment Tool

Print Report | Home

Kahala Hotel

Parcel Detail

Property Details

TMK: (1) 3-5-023:039

County: Honolulu

Watershed: Wailupe

Tsunami Evacuation Zone: Yes

Dam Evacuation Zone: No

Customize and Print FHAT Report

Edit the property address if required:

5000 Kahala Ave

Honolulu, HI 96816

Enter a report title (25 character max):

Report Title (optional)

Click to Download Report

Additional Resources

[Street View](#)

[Real Property Tax Information](#)

[FEMA Flood Insurance Study](#)

[Flood Insurance Information](#)

[Floodplain Management Regulations](#)

FIRM Map Panel(s)

Click on Panel No. to create FIRMette

15003C0369H 11/05/2014

15003C0388G 01/19/2011

Letter of Map Change(s)

Case No.	Type	Effective Date	Panel	Flood Source	Project	Download
No data to display						

Close

Map Layers

Effective FIRM/DFIRM

☒ Honolulu County

☒ Maui County

☒ Hawaii County

☒ Kauai County

FIRM Base Layers

☒ Stream Cross Sections

☒ LOMCs

☐ Benchmarks

☐ Coastal Transect Lines

Eliminary DFIRM

☐ Hawaii County

Historic DFIRM/FIRM

☐ Honolulu County DFIRM (1/19/2011)

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☐ Kauai County DFIRM (9/16/2005)

Other Layers

☒ County Parcels (TMKs)

☐ Coastal Topography (south shore only)

☐ State Regulated Dams

new flood map as: FHAT

semmap: FIRM Basemap

Set flood map layers transparency:

0 10 20 30 40 50 60 70 80 90 100

0 200 400ft

POWERED BY DigitalGlobe, GeoEye esri

-157.767667, 21.270002



Flood Hazard Assessment Tool

gis.hawaiiinfip.org/FHAT/

Print Report | Home

FHAT_Report.pdf - Adobe Acrobat Pro

File Edit View Window Help

This file includes fillable form fields.
You can print the completed form and save it to your device or Acrobat.com.

Highlight Existing Fields

Flood Hazard Assessment Report

PROPERTY INFORMATION
COUNTY: HONOLULU
TAXID: 23-1-1-01000
WATERGATED: MAUI LIFE
PARCELS ADDRESS: 300 MAUI AVE
HONOLULU, HI 96813

Flood Hazard Information
FIRM REVISION DATE: NOVEMBER 02, 2014
LETTER OF MAP CHANGES: NONE
FIRM FIRM PANEL: EFFECTIVE DATE: FEBRUARY 2008; NOVEMBER 02, 2014
NOVEMBER 02, 2014

THE PROPERTY IS WITHIN A TUNAWAY DRAINAGE ZONE: YES
FOR MORE INFO, VISIT: http://www.hawaiiinfip.org/
THE PROPERTY IS WITHIN A COASTAL PROTECTION ZONE: NO
FOR MORE INFO, VISIT: http://www.hawaiiinfip.org/

Map Layers
Effective FIRM/DFIRM
☒ Honolulu County
☒ Maui County
☒ Hawaii County
☒ Kauai County
FIRM Base Layers
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☐ Maui County DFIRM (9/25/2009)
☐ Maui County FIRM (various)
☐ Kauai County DFIRM (9/16/2005)
Other Layers
☒ County Parcels (TMKs)
☐ Coastal Topography (south shore only)
☐ State Regulated Dams

Download

Set flood map layers transparency:

DigitalGlobe, GeoEye, ESRI

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Parcel Report

Flood Hazard Assessment Tool

gis.hawaiiinfip.org/FHAT/

Search

FHAT_Report.pdf - Adobe Acrobat Pro

File Edit View Window Help

Open Create 125% Tools Fill & Sign Comment

This file includes fillable form fields. You can print the completed form and save it to your device or Acrobat.com.

Flood Hazard Assessment Report
www.hawaiiinfip.org

Property Information

COUNTY: HONOLULU
TMK NO: (1) 3-5-023:039
WATERSHED: WAILUPE
PARCEL ADDRESS: 5000 KAHALA AVE
HONOLULU, HI 96816

Flood Hazard Information

FIRM INDEX DATE: NOVEMBER 05, 2014
LETTER OF MAP CHANGE(S): NONE
FEMA FIRM PANEL - EFFECTIVE DATE: 15003C0369H - NOVEMBER 05, 2014
15003C0388G - JANUARY 19, 2011

THIS PROPERTY IS WITHIN A TSUNAMI EVACUATION ZONE: YES
FOR MORE INFO, VISIT: <http://www.scd.hawaii.gov/>
THIS PROPERTY IS WITHIN A DAM EVACUATION ZONE: NO
FOR MORE INFO, VISIT: <http://dlnreng.hawaii.gov/dam/>

FLOOD HAZARD (Note: k)

SPECIAL FLOOD HAZARD (The 1% ANNUAL CHANCE FLOOD, also known as the 100-year flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The elevation of the 1% annual chance flood is shown on the map. The elevation of the 1% annual chance flood is shown on the map. The elevation of the 1% annual chance flood is shown on the map.)

Zone A: No
Zone AE: BFE
Zone AH: Flood Hazard
Zone AO: Flood Hazard
Zone V: Flood Hazard
Zone VE: Flood Hazard
Zone AEF: Flood Hazard
Zone XS: Flood Hazard
Zone X: Flood Hazard

Print Report | Home

Map Layers

Effective FIRM/DFIRM

☒ Honolulu County
☒ Maui County
☒ Hawaii County
☒ Kauai County

FIRM Base Layers

☒ Stream Cross Sections
☒ LOMCs
☐ Benchmarks
☐ Coastal Transect Lines

Eliminary DFIRM

☐ Hawaii County

Historic DFIRM/FIRM

☐ Honolulu County DFIRM (1/19/2011)
☐ Honolulu County DFIRM (6/2/2005)
☐ Maui County DFIRM (9/19/2012)
☐ Maui County DFIRM (9/25/2009)
☐ Maui County FIRM (various)
☐ Kauai County DFIRM (9/16/2005)

Other Layers

☒ County Parcels (TMKs)
☐ Coastal Topography (south shore only)
☐ State Regulated Dams

Download

Set flood map as: FHAT

Set flood map layers transparency:

8.50 x 11.00 in

-157.767667, 21.270002



Flood Hazard Assessment Tool

http://qpublic9.qpublic.net/ | Search

qpublic9.qpublic.net/hi_honolulu_display.php?county=hi_honolulu&KEY=350230390000

CITY AND COUNTY OF
HONOLULU
DEPARTMENT OF BUDGET AND FISCAL SERVICES
REAL PROPERTY ASSESSMENT DIVISION

[Previous Parcel](#)

[Next Parcel](#)

[Return to Main Search Page](#)

[Honolulu Home](#)

[Real Property Home](#)

Owner and Parcel Information [Print Owner Info](#)

Parcel Number	350230390000	Data current as of	May 1, 2017
Owner Name	B P BISHOP TRUST ESTATE Fee Owner RESORTTRUST HAWAII LLC Lessee	Project Name	KAHALA HOTEL & RESORT
Location Address	5000 KAHALA AVE	Plat Map	Plat Map PDF
Property Class	HOTEL AND RESORT	Parcel Map	GIS Parcel Map
Land Area (approximate sq ft)	282,487	Legal Information	LOT 228 MAP 21 LCAPP 828 6.485 AC TOG/R-O-W FOR ALL PURP
Land Area (acres)	6.485		

Assessment Information [Show Historical Assessments](#) [Print Assessment Info](#)

Assessment Year	Property Class	Assessed Land Value	Dedicated Use Value	Land Exemption	Net Taxable Land Value	Assessed Building Value	Building Exemption	Net Taxable Building Value	Total Property Assessed Value	Total Property Exemption	Total Net Taxable Value
2017	HOTEL AND RESORT	\$ 185,301,400	\$ 0	\$ 0	\$ 185,301,400	\$ 80,908,400	\$ 0	\$ 80,908,400	\$ 266,209,800	\$ 0	\$ 266,209,800

Appeal Information [Print Appeal Info](#)

Year	Appeal Type Value	Scheduled Hearing Date <i>subject to change</i>	Status
2009	TAX APPEAL COURT	NA	Closed
2008	BOARD OF REVIEW	12/15/2009	Closed
2007	BOARD OF REVIEW	12/15/2009	Closed
2006	BOARD OF REVIEW	12/15/2009	Closed
2005	BOARD OF REVIEW	12/15/2009	Closed
2003	BOARD OF REVIEW	12/17/2003	Closed
2002	BOARD OF REVIEW	07/30/2002	Closed

Land Information [Department of Planning and Permitting \(DPP\)](#) [Print Land](#)

Property Class	Square Footage	Acreage	Agricultural Use Indicator
HOTEL AND RESORT	274,490	6.3014	
HOTEL AND RESORT	7,997	0.1836	

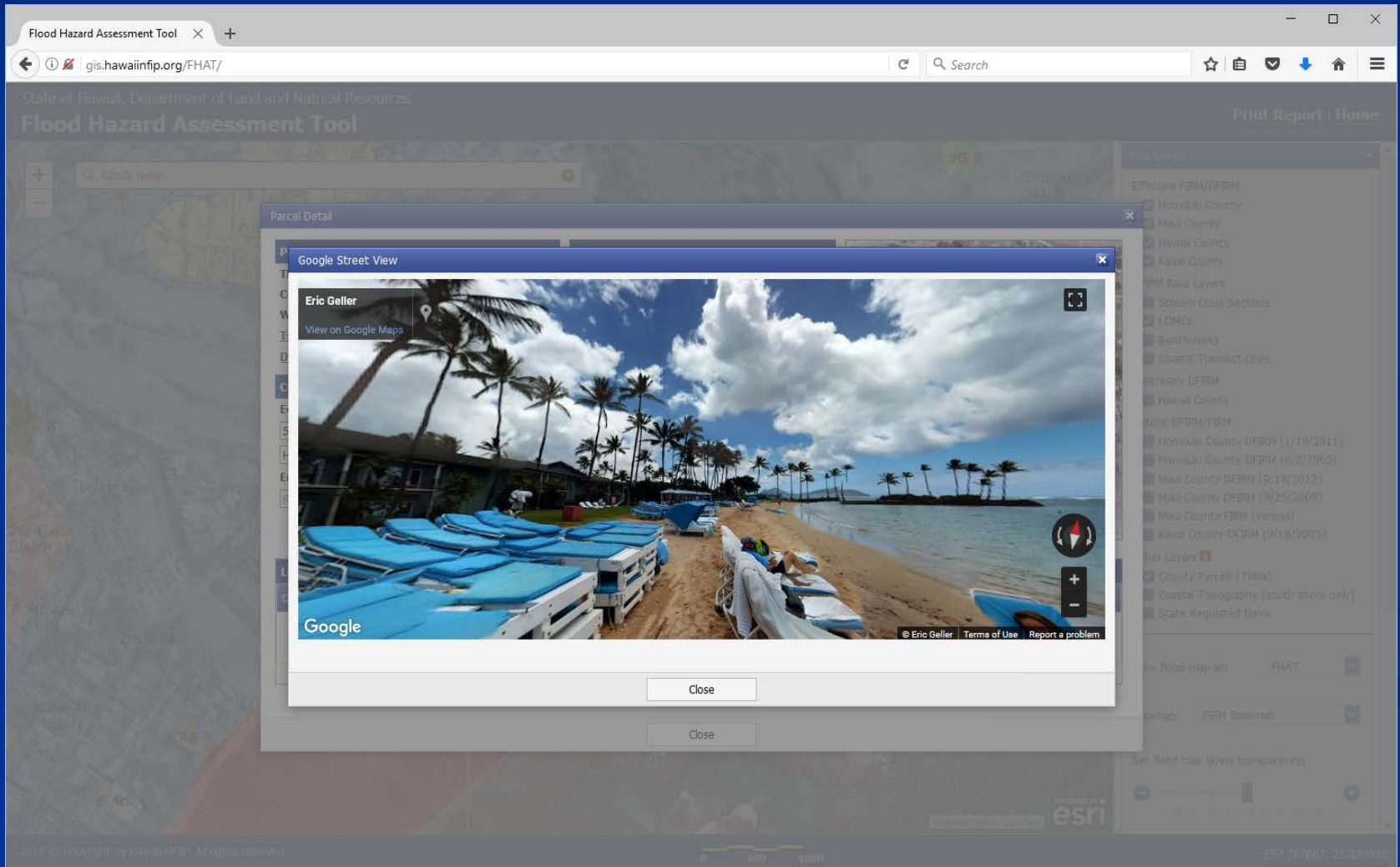
Commercial Improvement Information

Property Class	Building Card	Building Number	Improvement Name	Identical Units	Units	Structure Type	Year Built	Effective Year Built	Gross Building Description	Sketch
	1	0001	KAHALA MANDARIN ORIENTAL	1	365	HOTEL C-6	1963	1989	LAGOON	NA

Commercial Building Sections

Card	Section	Level From	Level To	Area	Perimeter	Usage	Wall Height	Exterior Wall	Frame Type
------	---------	------------	----------	------	-----------	-------	-------------	---------------	------------

Additional Resources



Flood Hazard Assessment Tool

gis.hawaiiinfip.org/FHAT/

State of Hawaii, Department of Land and Natural Resources
Flood Hazard Assessment Tool

Print Report | Home

Parcel Detail

Google Street View

Eric Geller
View on Google Maps

Google

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Close

Close

Effective FIRM/DFIRM

- ☐ Honolulu County
- ☐ Maui County
- ☐ Hawaii County
- ☐ Kauai County

FIRM Base Layer

- ☐ Stream Cross Sections
- ☐ LOMs
- ☐ Beachridges
- ☐ Coastal Truncation Lines

Boundary DFIRM

- ☐ Hawaii County

Base FIRM/FIRM

- ☐ Honolulu County DFIRM (1/19/2011)
- ☐ Honolulu County DFIRM (6/2/2005)
- ☐ Maui County DFIRM (9/18/2012)
- ☐ Maui County DFIRM (3/25/2009)
- ☐ Maui County FIRM (various)
- ☐ Kauai County DFIRM (9/16/2005)

Other Layers

- ☐ County Parcel (TMRS)
- ☐ Coastal Topography (south shore only)
- ☐ State Regulated Bars

Map Tools

Zoom In

Zoom Out

Full Screen

Print

Home

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157.76767, 21.270002



Links to LOMCs

Flood Hazard Assessment Tool

gis.hawaiiinfp.org/FHAT/

State of Hawaii, Department of Land and Natural Resources
Flood Hazard Assessment Tool

Kahala Hotel

Letter of Map Changes for Honolulu County

Case No.	Type	Effective Date	Panel	Flood Source	Project	Zoom	Download
17-09-0541A	LOMA	1/11/2017	0244G	Aiea Stream	Lot 59, Aiea Heights Subdivision No. 2, 99-325A Uwau Drive, TMK (1) 9-9-025:038	Zoom	Download
16-09-3024A	LOMA	12/30/2016	0387G	Kuapa Pond; Pacific Ocean	Lot 20, Kala-Kai Marina, Unit 1-D, 330 Awini Place, TMK (1) 3-9-034:022	Zoom	Download
16-09-2626A	LOMA	8/30/2016	0391G	Kuapa Pond; Pacific Ocean	Lot 50, Hahaione Marina, Unit 2-C, 652 Kumukahi Place TMK (1) 3-9-052:050	Zoom	Download
16-09-1998A	LOMR-FW	8/1/2016	0352F	Kalihi Stream	Lot 48, Mountain View Tract, 3023 Numana Road, TMK (1) 1-4-024:016	Zoom	Download
16-09-2191A	LOMA-OAS	7/14/2016	0155G	Pacific Ocean	Lot 18, Punaluu, 53-216 J&J1 Kamehameha Hwy, TMK (1) 5-3-002:065	Zoom	Download
16-09-0963A	LOMR-FW	5/3/2016	0270J	Kawa Stream	Lot 199 Pikoia Tract, 45-242 Nukumomi Place, TMK (1) 4-5-067:016	Zoom	Download
16-09-1521A	LOMA	4/29/2016	0386G	Waiupe Stream	Lot 353, 5233 Waihou Street, TMK (1) 3-6-012:027	Zoom	Download
16-09-1448A	LOMR-FW	4/25/2016	0270J	Heeia Stream	Lot 1673, 46-290 Nahewai Street, TMK (1) 4-6-036:011	Zoom	Download
16-09-1231A	LOMA	2/23/2016	0030G	Pacific Ocean	Buildings 15, 16, and 17 Kulima Estates West 57-101 Kulima Drive, TMK (1) 5-7-001:029	Zoom	Download
16-09-0459A	LOMA	12/30/2015	0388G	Pacific Ocean	Lot 8-A, 390 Waiupe Circle, TMK (1) 3-6-001:008	Zoom	Download

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Map Layers
TMK Search
Panel Search
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Letter of Map Change (LOMC)
Active LOMCs
Honolulu County
Maui County
Hawaii County
Kauai County
Status of Map Change Revisions
Flood Hazard Determination Notices
Flood Insurance Certificate Generator
Mapping Tools
Insurance Tools
DataSheet Tool
Flood Insurance Studies (FIS)
Legend

0 200 400ft

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Flood Hazard Assessment Tool**

Links to LOMCs

17-09-0541A-150001.pdf - Adobe Acrobat Pro

File Edit View Window Help

Open Create Print Mail Comment Tools Fill & Sign

1 / 2 70.1%

Page 1 of 2

Federal Emergency Management Agency
Washington, D.C. 20472

**LETTER OF MAP AMENDMENT
DETERMINATION DOCUMENT (REMOVAL)**

COMMUNITY AND MAP PANEL INFORMATION				LEGAL PROPERTY DESCRIPTION				
COMMUNITY	CITY AND COUNTY* OF HONOLULU, HONOLULU COUNTY, HAWAII			Lot 59, Alea Heights Subdivision No. 2, as described in the Warranty Deed recorded as Document No. A-52400238, in the Office of the Bureau of Conveyances, Honolulu County, Hawaii				
	COMMUNITY NO.: 150001							
	NUMBER: 15003C0244G							
AFFECTED MAP PANEL	DATE: 1/19/2011							
FLOODING SOURCE: AIEA STREAM				APPROXIMATE LATITUDE & LONGITUDE OF PROPERTY: 21.380982, -157.925166 SOURCE OF LAT & LONG: LOMA LOGIC DATUM: NAD 83				
DETERMINATION								
LOT	BLOCK/SECTION	SUBDIVISION	STREET	OUTCOME WHAT IS REMOVED FROM THE SFHA	FLOOD ZONE	1% ANNUAL CHANCE FLOOD ELEVATION (LTD)	LOWEST ADJACENT GRADE ELEVATION (LTD)	LOWEST LOT ELEVATION (LTD)
59	-	Alea Heights No. 2	99-325A Uwau Drive	Structure (Residence)	X (unshaded)	-	125.1 feet	-
Special Flood Hazard Area (SFHA) - The SFHA is an area that would be inundated by the flood having a 1-percent chance of being equalled or exceeded in any given year (base flood).								
ADDITIONAL CONSIDERATIONS (Please refer to the appropriate section on Attachment 1 for the additional considerations listed below.)								
PORTIONS REMAIN IN THE FLOODWAY								
<p>This document provides the Federal Emergency Management Agency's determination regarding a request for a Letter of Map Amendment for the property described above. Using the information submitted and the effective National Flood Insurance Program (NFIP) map, we have determined that the structure(s) on the property(ies) is/are not located in the SFHA, an area inundated by the flood having a 1-percent chance of being equalled or exceeded in any given year (base flood). This document amends the effective NFIP map to remove the subject property from the SFHA located on the effective NFIP map; therefore, the Federal mandatory flood insurance requirement does not apply. However, the lender has the option to continue the flood insurance requirement to protect its financial risk on the loan. A Preferred Risk Policy (PRP) is available for buildings located outside the SFHA. Information about the PRP and how one can apply is enclosed.</p> <p>This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at (877) 336-2627 (877-FEMA MAP) or by letter addressed to the Federal Emergency Management Agency, LOMA Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605.</p>								

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Search

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Map Layers

TMK Search

Panel Search

Watershed Search

Map Change (LOMC)

Active LOMCs

Honolulu County

Kauai County

Hawaii County

Maui County

Status of Map Change Revisions

Flood Hazard Determination Notices

Certificate Generator

Tools

Tools

Datasheet Tool

Insurance Studies (FIS)

Legend

Page size: 50

0 200 400ft

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Elevation Certificate Initiation

Map Layers	▼
TMK Search	▼
Panel Search	▼
Stream/Watershed Search	▼
Letter of Map Change (LOMC)	▼
Elevation Certificate Generator	▲

An Elevation Certificate (EC) can be initiated from this panel by following the steps below. Before starting, ensure an imagery base map is selected using the MAP LAYERS panel above.

1. Click on the compass icon below, then click in the map on the center of the front of the desired building in the image.

 Latitude: 21.277825
Longitude: -157.709159

2. Verify the property address below and revise as necessary.

Active Parcel TMK: (1) 3-9-002:002

251 Portlock Rd		
Honolulu	HI	96825

3. Click **Download EC** to download the initiated Elevation Certificate.

[Download EC](#)

The Elevation Certificate Tool allows user to download a fillable PDF of the current EC form with FIRM panel information, Lat/Long, and site address populated into the form. The form can then be edited as needed to complete.

Elevation Certificate Initiation

Flood Hazard Assessment Tool

gis.hawaiiinfip.org/FHAT/

State of Hawaii, Department of Land and Natural Resources
Flood Hazard Assessment Tool

+

-

Search for an address or location

ZONE VE (EL 12)

0393G

ZONE AE (EL 9)

ZONE AE (EL 8)

USGS

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0 20 40ft

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Map Layers

TMK Search

Panel Search

Stream/Watershed Search

Letter of Map Change (LOMC)

Elevation Certificate Generator

An Elevation Certificate (EC) can be initiated from this panel by following the steps below. Before starting, ensure an imagery base map is selected using the MAP LAYERS panel above.

1. Click on the compass icon below, then click in the map on the center of the front of the desired building in the image.

Latitude: 21.277825
Longitude: -157.709159

2. Verify the property address below and revise as necessary.

Active Parcel TMK: (1) 3-9-002:002
251 Portlock Rd
Honolulu HI 96825

3. Click **Download EC** to download the initiated Elevation Certificate.

Download EC

Drawing Tools

Measure Tools

NGS Datasheet Tool

Flood Insurance Studies (FIS)

-157.708923, 21.278007



Elevation Certificate Initiation

Flood Hazard Assessment Tool

FF086-0-33_Dec2016_v2.pdf - Adobe Acrobat Pro

File Edit View Window Help

Open Create

88%

Tools Fill & Sign Comment

Please fill out the following form.

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
251 PORTLOCK RD

Company NAIC Number:

City
HONOLULU

State
Hawaii

ZIP Code
96825

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
(1) 3-9-002:002

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)

A5. Latitude/Longitude: Lat. 21.277825 Long. -157.709159 Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number

A8. For a building with a crawlspace or enclosure(s):
a) Square footage of crawlspace or enclosure(s) sq ft
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade
c) Total net area of flood openings in A8.b sq in
d) Engineered flood openings? ☐ Yes ☐ No

A9. For a building with an attached garage:
a) Square footage of attached garage sq ft
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade
c) Total net area of flood openings in A9.b sq in
d) Engineered flood openings? ☐ Yes ☐ No

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number
HONOLULU, CITY AND COUNTY OF - 150001

B2. County Name
HONOLULU COUNTY

B3. State
Hawaii

B4. Map/Panel Number
15003C0393

B5. Suffix
G

B6. FIRM Index Date
11/05/2014

B7. FIRM Panel Effective/ Revised Date
01/19/2011

B8. Flood Zone(s)

B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth)

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:

Print Report Home

Map Layers

TMK Search

Panel Search

Stream/Watershed Search

Letter of Map Change (LOMC)

Elevation Certificate Generator

An Elevation Certificate (EC) can be initiated from this panel by following the steps below. Before starting, ensure an imagery base map is selected using the MAP LAYERS panel above.

1. Click on the compass icon below, then click in the map on the center of the front of the desired building in the image.

Latitude:
Longitude:

2. Verify the property address below and revise as necessary.

Active Parcel TMK:

Download EC

3. Click **Download EC** to download the initiated Elevation Certificate.

Drawing Tools

Measure Tools

NGS Datasheet Tool

Flood Insurance Studies (FIS)

ZONE AE (EL 9)

AE (9)

POWERED BY
USGS esri

0 20 40ft

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-157.709874, 21.277308



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Drawing Tools

Flood Hazard Assessment Tool

gis.hawaiiinfp.org/FHAT/

State of Hawaii, Department of Land and Natural Resources
Flood Hazard Assessment Tool

Print Report | Home

+

-

Search for an address or location

USGS esri

Map Layers

TMK Search

Panel Search

Stream/Watershed Search

Letter of Map Change (LOMC)

Elevation Certificate Generator

Drawing Tools

Place Text:

T

Erase Elements

Exit Drawing Tools

Measure Tools

NGS Datasheet Tool

Flood Insurance Studies (FIS)

Map Legend

Help

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0 50 100ft

-157.707493, 21.279257



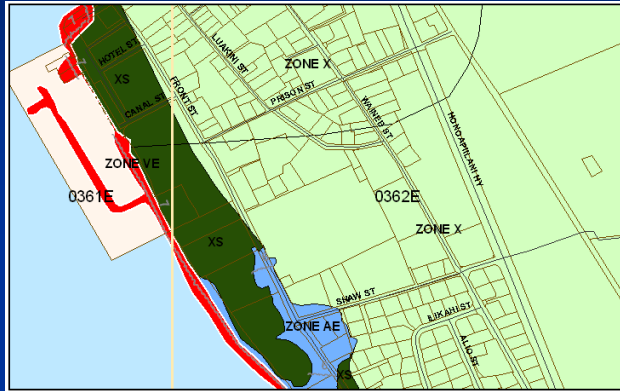
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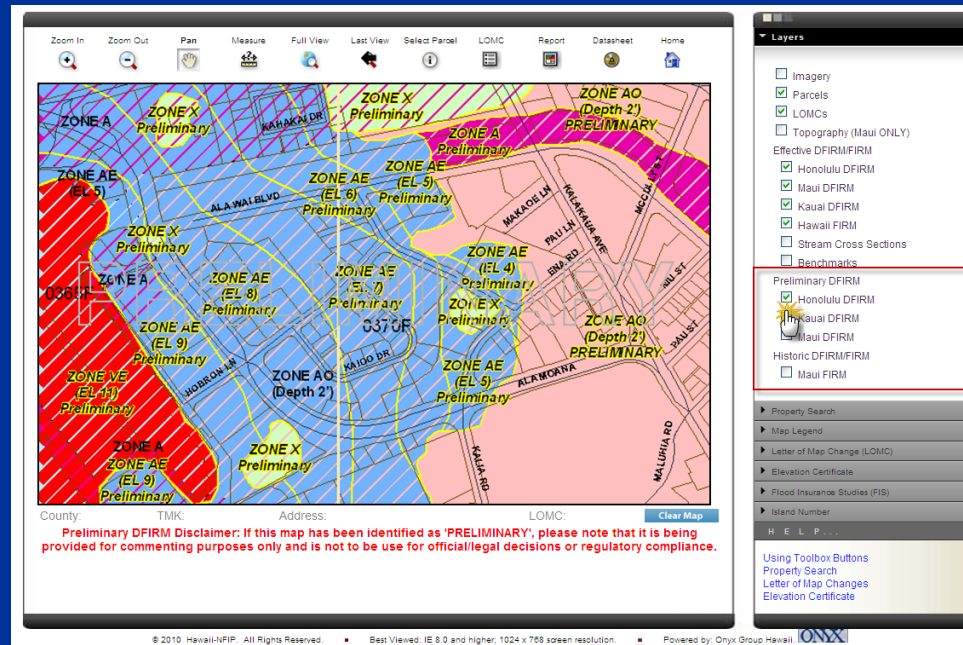
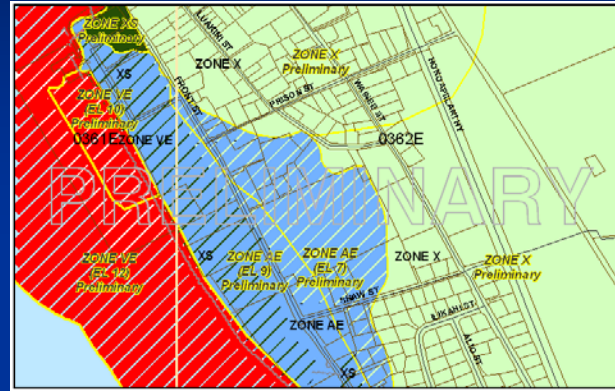


View Preliminary DFIRM

Effective
DFIRM



Preliminary
DFIRM





Interesting Facts

- Web Site Statistics
 - Average ~225 visitors per day
 - 1,200 reports generated per month
 - 150 Elevation Certificates per month
- Outreach
 - Esri ArcNews article
 - NOAA Coastal Services Magazine
- Recognition
 - ESRI Special Achievement in GIS



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Mahalo !!!

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