

KENAI PENINSULA BOROUGH, AK

Flood Map Update

- Kenai Peninsula Borough – Planning Commission Meeting – June 12, 2023
- Kenai Peninsula Borough – Assembly Meeting – June 20, 2023

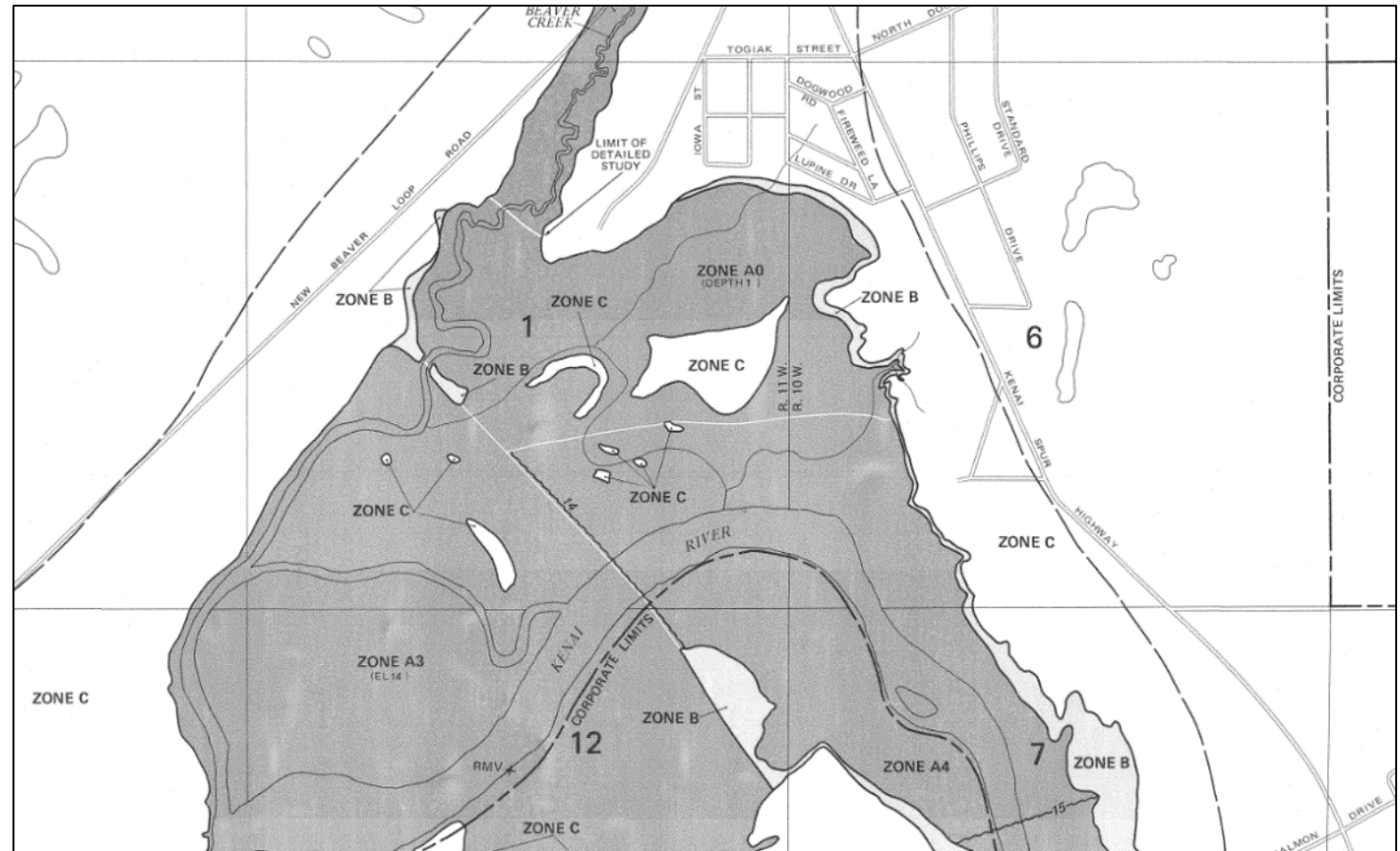


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WHY ARE THE FLOOD MAPS CHANGING?

Flooding is the most costly and deadly natural hazard in the U.S.

- 1 Flood risk changes over time.
- 2 New data is released and technology improves.
- 3 Policies and national priorities are updated.



(sample) Kenai Peninsula Borough Paper Flood Insurance Rate Map, developed in 1981



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THIS MAPPING UPDATE

- Four index pages.
- Total of 20 Flood Insurance Rate Map (FIRM) panels.
- Two volumes of the Updated Flood Insurance Study (FIS).

FLOOD INSURANCE STUDY FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 1 OF 2



KENAI PENINSULA BOROUGH, ALASKA AND INCORPORATED AREAS

COMMUNITY NAME	COMMUNITY NUMBER
HOMER, CITY OF	020107
KACHEMAK, CITY OF*	020109
KENAI, CITY OF	020114
KENAI PENINSULA BOROUGH†	020012
SELDOVA, CITY OF	020120
SEWARD, CITY OF	020113
SOLDOTNA, CITY OF	020014

*Is Special Flood Hazard Areas identified



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PRELIMINARY
January 31, 2023

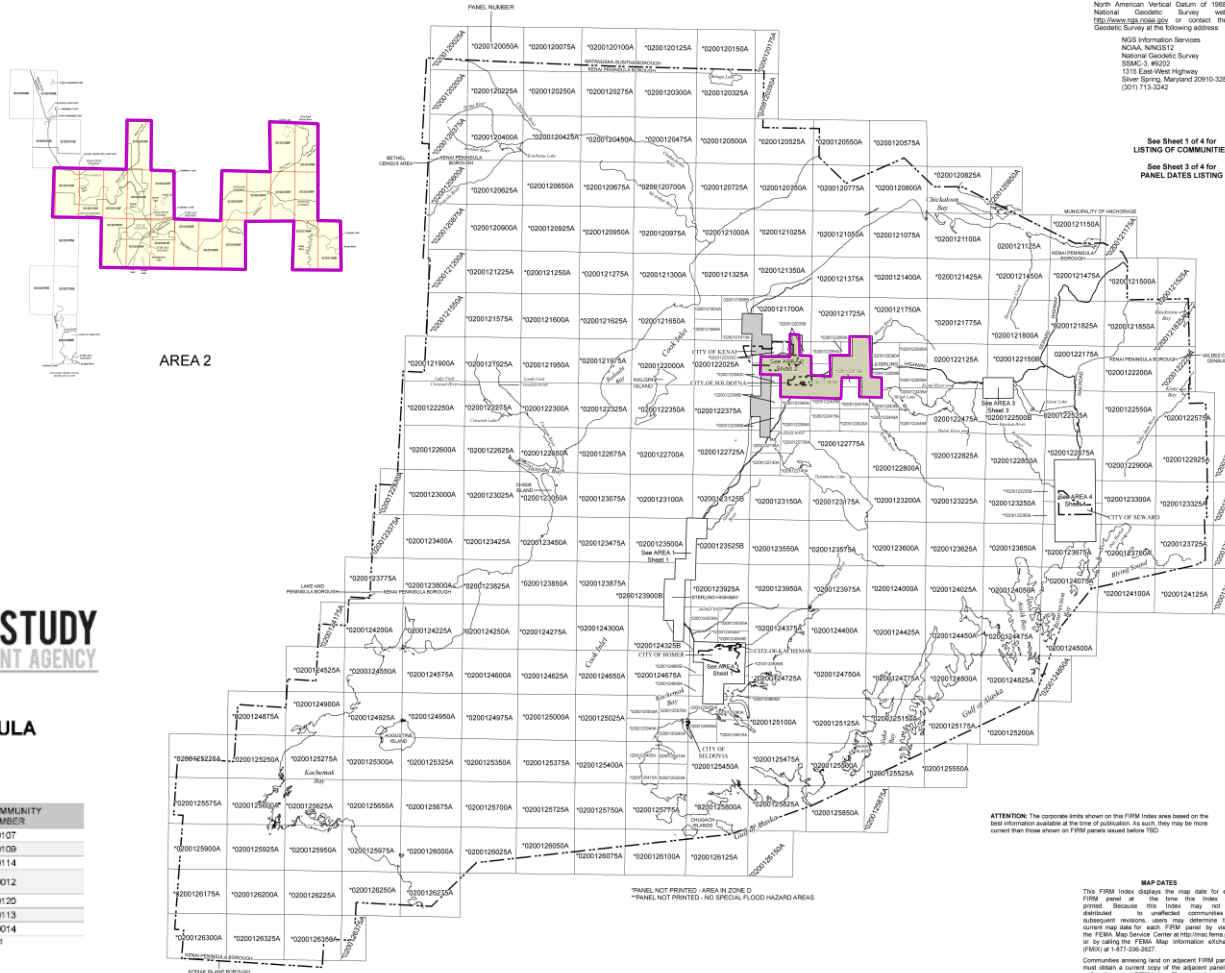
REVISED:
TBD

FLOOD INSURANCE STUDY NUMBER
02123CV001C

Version Number 2.0.0.0



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ELEVATION DATUM

Flood elevations on this map are referenced to the North American Vertical Datum of 1988 and the National Geodetic Vertical Datum of 1929. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding the datum used for the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services
NKA, ANK522
National Geodetic Survey
SOSK3, 90222
Silver Spring, Maryland 20910-3202
(301) 713-3242

See Sheet 1 of 4 for LISTING OF COMMUNITIES

See Sheet 3 of 4 for PANEL DATES LISTING

MAP REPOSITORIES

(Maps available for reference only, not for distribution.)

HOMER, CITY OF
City Hall
434 E. Homer Avenue
Homer, AK 99603

KACHEMAK, CITY OF
Kachemak Community Center
6300 Silver Creek Drive
Homer, AK 99603

KENAI, CITY OF
City Hall
210 Fudge Avenue
Kenai, AK 99541

KENAI PENINSULA BOROUGH
Peninsula Borough Administration Building
144 N. Sinking Street
Soldotna, AK 99689

SELDOVA, CITY OF
City Clerk
235 Dine Street
Selkova, AK 99693

SEWARD, CITY OF
City Hall
410 Adams Street
Seward, AK 99684

SOLDOTNA, CITY OF
City Hall
177 N. Birch Street
Soldotna, AK 99689

BASE MAP SOURCE
Base map information shown on this FIRM was derived from remote sensing data. Base map files were provided in digital format by Kenai Peninsula Borough GIS, Alaska DNR, and U.S. Geological Survey. This information was compiled at various map scales during the time period 1998-2008.

NOTE TO USERS
FEMA maintains the information about map features, such as street locations and names, in its most designated flood hazard areas may be provided to FEMA during the community review period, at the time. Consultation Commission Office's meeting, or during the advisory 60-day review period. Approved, amendments for changes will be shown on the final printed FIRM.

NOTE TO USER
Future revisions to this FIRM index will only be issued to communities that are located on FIRM panels being revised. This FIRM index therefore remains valid for FIRM panels dated 1998 or earlier. Please refer to the "MOST RECENT FIRM PANEL DATE" column in the Listing of Communities table to determine the most recent FIRM index date for each community.

MAP INDEX
FIRM
FLOOD INSURANCE RATE MAP
KENAI PENINSULA BOROUGH, ALASKA
(AND INCORPORATED AREAS)
(SEE LISTING OF COMMUNITIES TABLE)

MAP INDEX
SHEET 2 OF 4
PANELS PRINTED: 0200, 0201, 0100, 0101, 0102, 0103, 0104, 0105, 0106, 0107, 0108, 0109, 0110, 0111, 0112, 0113, 0114, 0115, 0116, 0117, 0118, 0119, 0120, 0121, 0122, 0123, 0124, 0125, 0126, 0127, 0128, 0129, 0130, 0131, 0132, 0133, 0134, 0135, 0136, 0137, 0138, 0139, 0140, 0141, 0142, 0143, 0144, 0145, 0146, 0147, 0148, 0149, 0150, 0151, 0152, 0153, 0154, 0155, 0156, 0157, 0158, 0159, 0160, 0161, 0162, 0163, 0164, 0165, 0166, 0167, 0168, 0169, 0170, 0171, 0172, 0173, 0174, 0175, 0176, 0177, 0178, 0179, 0180, 0181, 0182, 0183, 0184, 0185, 0186, 0187, 0188, 0189, 0190, 0191, 0192, 0193, 0194, 0195, 0196, 0197, 0198, 0199, 0200

MAP DATES
This FIRM index displays the map date for each FIRM panel as the time the index was printed. Because this index may not be updated, users may determine the current map date for each FIRM panel by visiting the FEMA Map Service Center at <http://www.fema.gov> or by calling the FEMA Map Information Exchange (FIRM) at 1-877-336-2627.

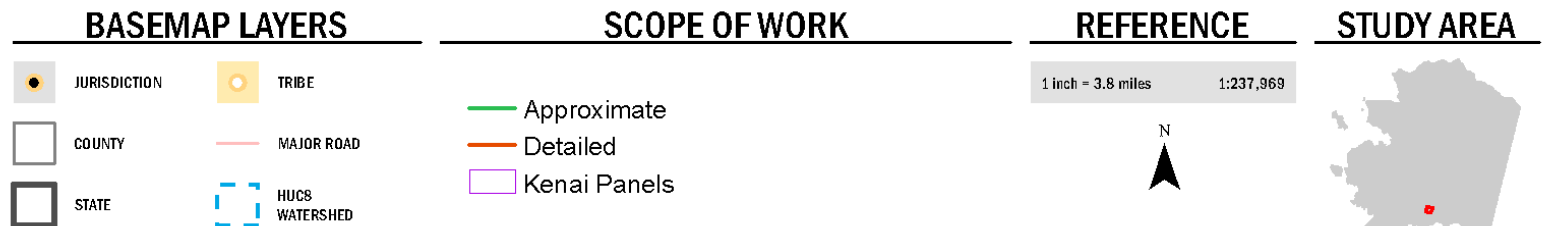
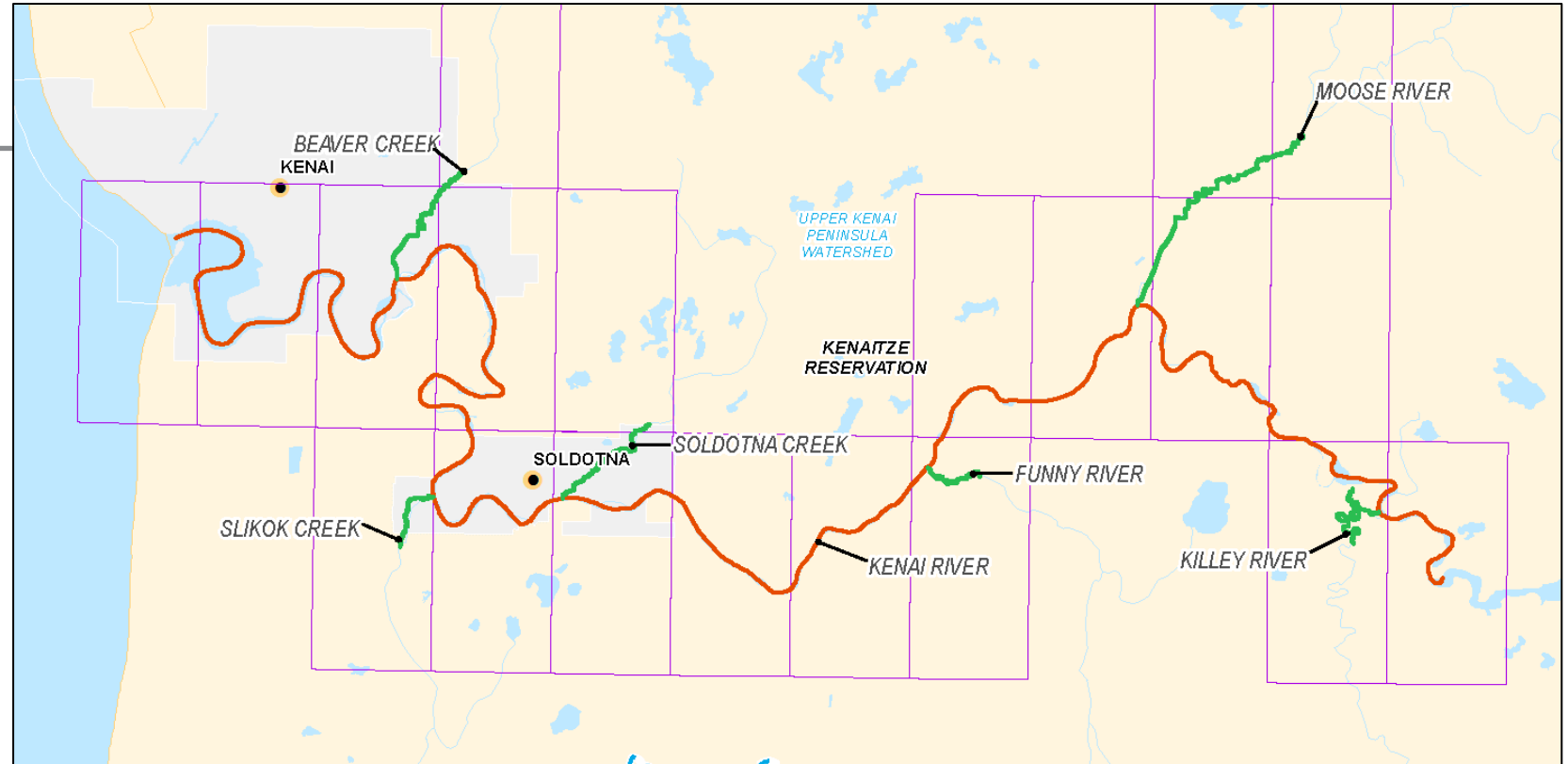
Communities shown on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM index. These maps be reviewed closely from the Map Service Center at the number listed above.

PRELIMINARY
1/31/2023
MAP NUMBER
02123CV001C
MAP REVISED
Federal Emergency Management Agency

SCOPE OF WORK

This study covered:

- Detailed streams.
 - Kenai River (47.3 mi.)
- Approximate streams.
 - Beaver Creek (3.3 mi.)
 - Funny River (1.7 mi.)
 - Killey River (2.7 mi.)
 - Moose River (6.0 mi.)
 - Slikok Creek (1.8 mi.)
 - Soldotna Creek (3.1 mi.)



Project Viewer: <https://arcg.is/11q0PX0>



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WHAT ARE THE BENEFITS OF FLOOD MAPS?



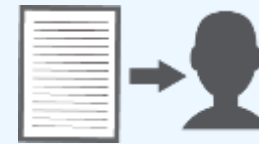
**Identify and
Assess
Flood Risk**



**Establish Flood
Insurance
Purchase
Requirements**



**Support
Local Land Use
& Floodplain
Management**



**Inform Engineers
and Developers**



**Equip Emergency
Managers**



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WHAT IS THE NFIP?

The National Flood Insurance Program (NFIP) aims to reduce the impact of flooding by:

- Reducing disaster costs.
- Reducing loss of life and property.
- Providing insurance to property owners, renters, and businesses.
- Supporting community adoption and enforcement of floodplain management regulations.

**Just 1 inch of water
can cause \$25,000 of
damage to your home.**

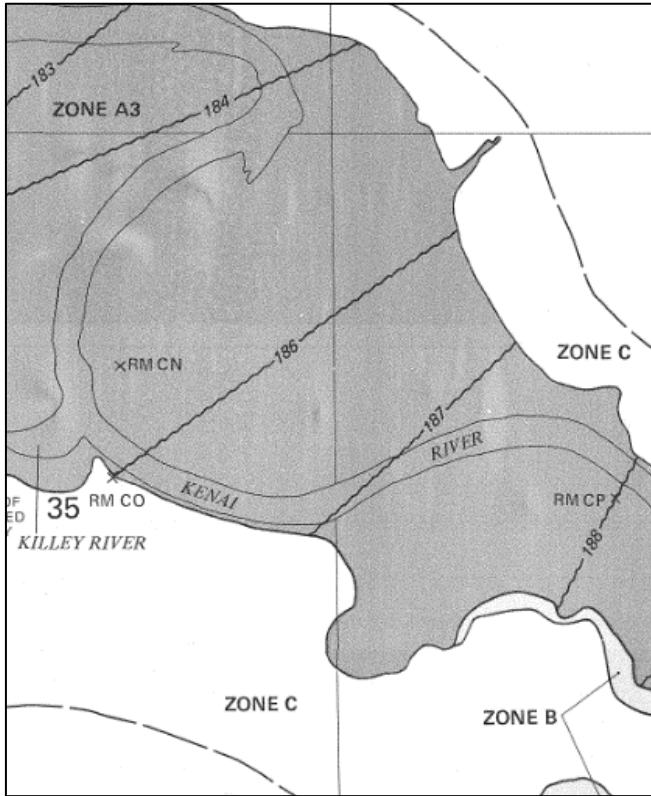
GET FLOOD INSURANCE

FEMA NATIONAL FLOOD INSURANCE PROGRAM

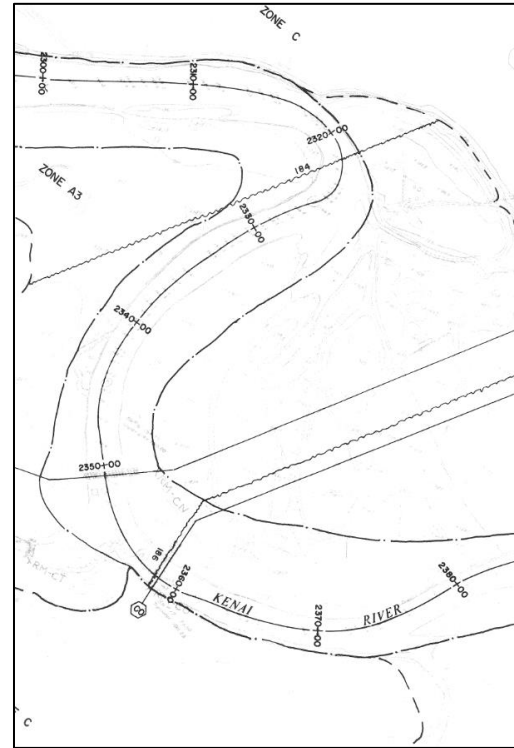


FEMA

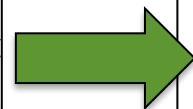
EFFECTIVE TO PRELIMINARY MAP EXAMPLES






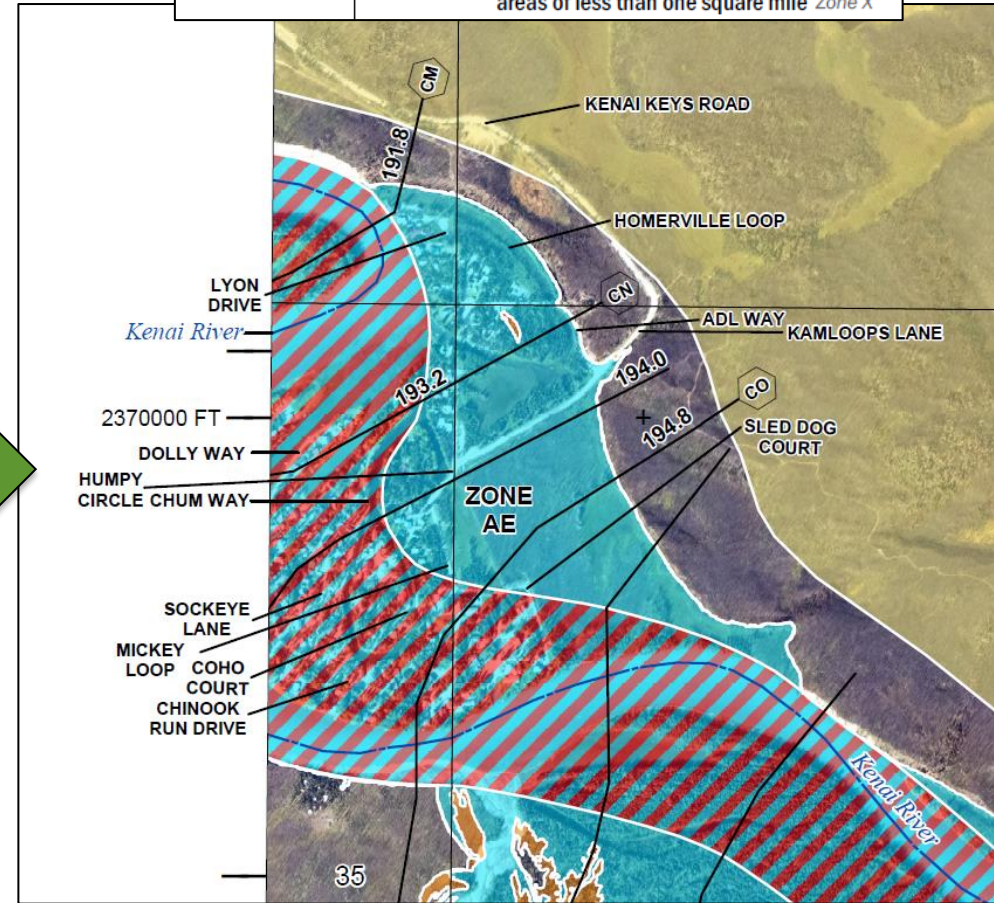
Sample Effective Map (1981)



Sample Effective Floodway Boundary Map (1981)



SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X



Preliminary Flood Map (2023)



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ESTIMATED PROPERTY IMPACTS

Effective vs. Preliminary: Estimated Impacts Within the Special Flood Hazard Area (SFHA)

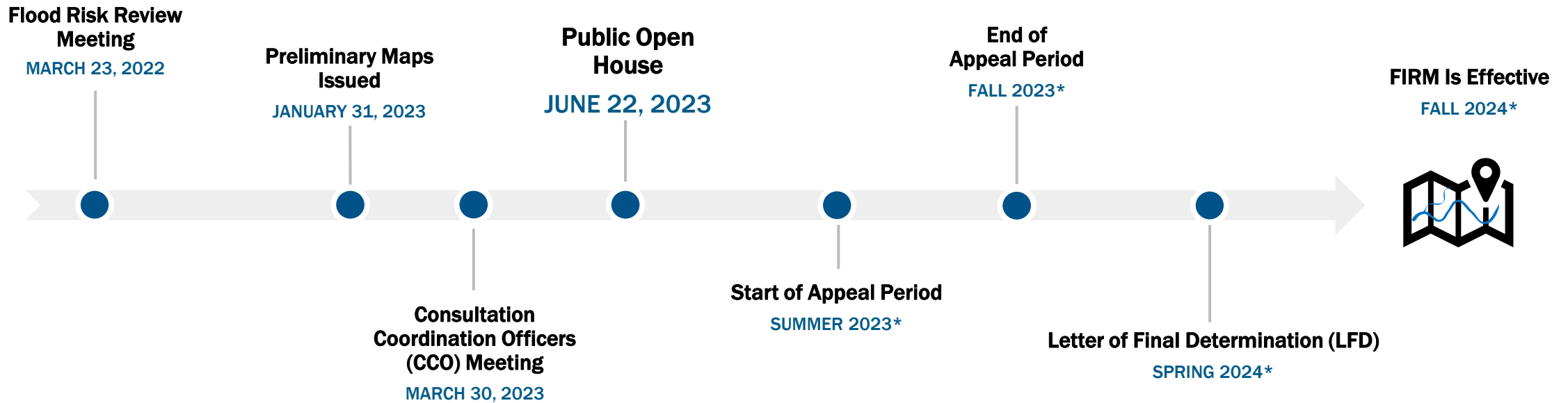
<i>INDIVIDUAL STRUCTURES:</i>					
JURISDICTION	STRUCTURE COUNT (STUDY AREA)	REMAINS OUTSIDE SFHA	REMAINS IN SFHA	ADDED TO SFHA	REMOVED FROM SFHA
Kenai, City of	159	147	3	4	5
Soldotna, City of	234	171	3	2	58
Kenai Peninsula Borough, Unincorporated Areas of	1,793	759	766	161	107
Total	2,186	1,077	772	167	170

<i>TOTAL COUNTS:</i>						
JURISDICTION	STRUCTURE COUNT (STUDY AREA)	IN SFHA (EFFECTIVE)	OUT SFHA (EFFECTIVE)	IN SFHA (PRELIMINARY)	OUT SFHA (PRELIMINARY)	NET CHANGE
Kenai, City of	159	8	151	7	152	-1
Soldotna, City of	234	61	173	5	229	-56
Kenai Peninsula Borough, Unincorporated Areas of	1,793	873	920	927	866	54
Total	2,186	942	1,244	939	1,247	-3



TIMELINE TO EFFECTIVE MAPS

Once FEMA issues the Letter of Final Determination (LFD), communities have six months to update their regulations. They must adopt the study before the data become effective. *If they do not, they can be suspended from the NFIP.*



* All projected dates may change as the project progresses.



PUBLIC OPEN HOUSE

Thursday, June 22
5:30-7:30 p.m.
Donald E. Gilman River Center
514 Funny River Road

PROPERTY ID and DIGITAL MAPPING

- Provides property owners with a map of their property and explains the flood zone and risks on or near it.

FLOOD STUDY/ENGINEERING

- Explains the methodology, data, and technical analysis details of the study.
- Discusses the comments and appeals process.

FLOODPLAIN REGULATIONS

- Describes the NFIP and building requirements and restrictions.

FLOOD INSURANCE

- Details insurance policy options and rating methods.

KENAI PENINSULA BOROUGH FLOOD RISK OPEN HOUSE RESOURCE TABLES



PROPERTY IDENTIFICATION AND DIGITAL MAPPING / PROPERTY LOOKUP

At the Property Identification and Digital Mapping station we offer by-request printing of maps which show individual properties and the flood zone. These maps can help you to determine if you're in a flood zone or floodway and what the risks are on, or near, your property. You can take that map to the other stations to get more detail on specifics about your property.



FLOOD INSURANCE / INSURANCE INFORMATION

The Flood Insurance table is your go-to resource to speak with insurance specialists. You can find out if your property must have flood insurance, how insurance can benefit you, what the insurance rate structures are in your zone, and how you can get the lowest rate.



FLOOD STUDY AND ENGINEERING / ENGINEERING STUDY

At the Flood Study and Engineering station you can speak with experts about the flood mapping process. You can also learn how Special Flood Hazard Areas (SFHAs) are determined, ask about your property and designated flood zone, and learn what to do if you think your house is outside of the SFHA.



FEMA FLOODPLAIN REGULATIONS

Visit the FEMA Floodplain Regulations station to learn about building requirements and restrictions in your flood zone or floodway. This will help you stay in compliance with the National Flood Insurance Program.



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SUBMITTAL OF APPEALS AND COMMENTS

Appeals:

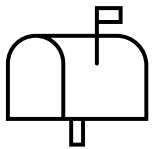
- Technical information or data that result in further analysis and a major change to the preliminary map.

Comments:

- Other information that does not result in a major map change.

Procedure:

- Submit to the community (preferred) to forward on to FEMA
or
- directly to the FEMA Regional Service Center via mail or email (RSC10@STARR-team.com).



FEMA Region 10 Service Center
20700 44th Ave W, Suite 130
Lynnwood, WA 98036

Please also consider a cc to:

- Dale Meck, dale.meck@fema.dhs.gov (FEMA Project Monitor)
- Matt Witosky, matt.witosky@stantec.com (STARR II Project Manager)



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VIRTUAL RESOURCE - FLOOD MAP UPDATE SITE (“STORY MAP”)

**Kenai Peninsula Borough, Alaska
Flood Map Update**

Kenai Peninsula Borough Flood Map Update | Am I at Risk of Flooding? | **Flood Map Study and Engineering** | Floodplain Management | Flood Insurance | State Resources

Select the small black arrow at either side of the menu to scroll right or left

Flood Map Study and Engineering

FEMA flood maps provide vital information. They can help your community learn where flooding could affect homes and business. This equips your community to make decisions that protect residents from the effects of flooding.

What Do I Need to Know About the Updated Floodplain Mapping in Kenai Peninsula Borough?

Kenai, AK Floodplain Mapping StoryMap

This Kenai River, Alaska Flood Map Comparison Viewer compares the Effective (1981) versus Preliminary flood hazard mapping for Kenai River, Alaska (as of February 1, 2023).

<https://arcg.is/1yzGbq>



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STORY MAP FEATURES

1

View, download or request a personalized map of your property or land.

2

Visit the Flood Study/Engineering tab to learn more about the science behind the map update.

3

Learn more about flood insurance and contact a specialist to talk about your policy options.

4

Learn more about the NFIP and local floodplain regulations.

5

Find contact information for the person or team that can best answer your flood map and NFIP questions.



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THANK YOU!



FEMA