

KITTITAS COUNTY

HAZARD MITIGATION PLAN

City of Ellensburg
Annex



Kittitas County
Public Works Department

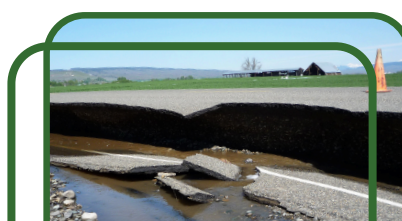




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1. INTRODUCTION

This Annex details the hazard mitigation elements specific to the City of Ellensburg, a participating jurisdiction to the 2024 Kittitas County Hazard Mitigation Plan update. This Annex is not intended to be a standalone document but supplements the information contained in **Volume 1 (Countywide Planning Elements)**. Therefore, all sections of **Volume 1** including the planning process, hazard identification and risk assessment, mitigation strategy (includes mitigation goals and objectives), and plan maintenance apply to and were met by the City of Ellensburg. This Annex provides additional information specific to the City, with a focus on providing additional details on the hazard risk assessment and mitigation strategy (i.e., mitigation actions) for this community.

2. LOCAL PLANNING TEAM

The City of Ellensburg Local Planning Team was comprised of the members listed on **Table 1**.

Table 1. City of Ellensburg Local Planning Team Members

Name	Title	Department
Heidi Behrends Cerniwey	City Manager	Executive
Terry Weiner	Assistant City Manager/City Attorney	Executive
Ryan Lyyski	Public Works and Utilities Director	Public Works and Utilities
Jon Morrow	Stormwater Utility Manager	Public Works and Utilities
Dan Carlson	Community Development Director	Community Development
Jeremy Johnston	Planning Manager	Community Development
Chuck Doan	Building Official	Community Development

3. JURISDICTION PROFILE

The City of Ellensburg is in central Kittitas County at the intersection of Interstate 90, Interstate 82, and US Highway 97 near the center of Washington State. The elevation is approximately 1,500 feet with topography sloping gradually from the northeast to southwest and the Yakima River. The City is located in a fertile plateau valley adjacent to the Yakima River, with ridges and mountains associated with the Cascade mountain range surrounding it. The surrounding area is primarily composed of irrigated agricultural land or semi-arid desert lands that are not irrigated. Six (6) perennial creeks that convey runoff and snowmelt from the mountain range watersheds to the north, run through the developed City in an alluvial fan from the northeast to the southwest where they flow into the Yakima River which then flows into the Columbia River some 130 miles to the south. Additionally, three (3) large irrigation canals traverse the City from the northwest to the southeast and provide irrigation water to the surrounding agricultural lands.

Interstate 90, Interstate 82, and US Highway 97 provide direct access to the Puget Sound area in the west, Canada to the north, and the greater United States to the south and east. BNSF Railway has a main line that runs through the City.

Central Washington University (CWU) is located in Ellensburg an on-campus and off-campus student population in addition to the associated staff.



The City has two (2) national historic districts—the Downtown National Historic District and the First Railroad Historic District—which consist of commercial and residential structures from the late 1800s which help make the City a regional historic preservation destination.

3.1. Population

The City of Ellensburg had a population of 20,703 as of July 1, 2023. Between 2010 and 2020, the population increased by approximately 2.7%. The population additionally increased 0.2% between 2020 and 2022. **Table 2** shows the City of Ellensburg’s population distribution between 2010 and 2022.¹

Table 2. Population Estimates

Jurisdiction	2010	2020	2022	Population Change (2010 – 2022)
City of Ellensburg	18,174	20,797	20,940	15.2%

3.1.1. Underserved Population

FEMA defines underserved populations as groups that have limited or no access to resources or that are otherwise disenfranchised. These groups may include, but are not limited to, people who are socioeconomically disadvantaged, people with limited English proficiency, geographically isolated or educationally disenfranchised people, people of color as well as those of ethnic and national origin minorities, women and children, individuals with disabilities and others with access and functional needs, and seniors.²

The CDC’s SVI is considered an appropriate and authoritative dataset to identify areas where efforts can be prioritized to ensure equitable outcomes from mitigation planning and actions. Social vulnerability refers to a community’s capacity to prepare for and respond to the stress of natural, human-caused, and technological disasters. CDC’s SVI combines 16 census-derived social factors, within four (4) themes (i.e., socioeconomic status, household characteristics, racial and ethnic minority status, and housing type and transportation) that summarizes the extent to which an area is socially vulnerable to disasters. The overall SVI combines all variables to provide a comprehensive assessment, and the possible scores range from zero (0) (lowest vulnerability) to one (1) (highest vulnerability).³

The overall SVI score for Kittitas County is 0.3366 which indicates a low to medium level vulnerability. **Table 3** outlines the SVI information for each social factor for the City of Ellensburg.⁴

Note: ArcGIS mapping analysis was performed utilizing Census Tract data by overlaying Census Tracts with the City of Ellensburg planning area boundary. The information outlined in this section includes the best available data from the entire Census Tracts that intersect the jurisdiction.

¹ United States Census Bureau. (2023). City of Ellensburg. Retrieved from <https://www.census.gov/quickfacts/fact/table/ellensburgcitywashington/>.

² Federal Emergency Management Agency. (n.d.). Glossary: Underserved Population/Communities. Retrieved from <https://www.fema.gov/about/glossary>.

³ Centers for Disease Control and Prevention. (2024). CDC/ATSDR SVI 2022 Documentation. Retrieved from <https://www.atsdr.cdc.gov/placeandhealth/svi/documentation/pdf/SVI-2022-Documentation-H.pdf>.

⁴ Centers for Disease Control and Prevention. (2022). CDC/ATSDR Social Vulnerability Index (SVI). Retrieved from https://www.atsdr.cdc.gov/placeandhealth/svi/interactive_map.html.



Table 3. Social Vulnerability Index (2022)

Theme	Social Factors	Percent
Socioeconomic Status	People below 150% poverty estimate	25.6%
	Unemployed (Civilian 16 years old and older)	4.1%
	Housing Cost Burden	15.0%
	No High School Diploma	2.6%
	No Health Insurance	4.8%
Household Characteristics	65 years old and older	12.7%
	17 years and younger	17.2%
	Civilian with a Disability	11.7%
	Single-Parent Household	2.1%
	English Language Proficiency	0.4%
Racial and Ethnic Minority Status	<ul style="list-style-type: none"> Hispanic or Latino (of any race) Black or African American Asian American Indian or Alaska Native Native Hawaiian or Pacific Islander Two or More Races Other Races 	20.9%
Housing Type and Transportation	Multi-Unit Structures	8.2%
	Mobile Homes	2.5%
	Crowding	1.1%
	No Vehicle	1.9%
	Group Quarters	7.7%

3.2. Brief History

Ellensburg is located on the western slopes of the Columbia Plateau, site of some dramatic geological events that have occurred over time. Basaltic lava flows took place some 15 million years ago, with a series of giant glacial flood events after the ice age. The largest documented flood in geologic history occurred when a very large body of water in the Montana region suddenly breached, causing significant amounts of water to rapidly sweep across the basaltic plateau as it made its way westward towards the Pacific Ocean. More recently, in 1980 Mount St. Helens, one of a string of active volcanoes in the Cascade Mountain Range, erupted causing significant property damage and loss of life in the immediate vicinity of the volcano. Ellensburg was impacted with significant ash from the eruption, causing property damage, health issues, and general disruption to community's normal activities. These events shaped the landscape of central and eastern Washington where Ellensburg is located.

The first inhabitants of the Ellensburg area were the Psch-wan-wap-pams (stony ground people) also known as the Kittitas band of the Yakama or Upper Yakama Tribe. The Ellensburg area was one of the few areas in Washington where both camas and kouse (a root used make to bread) grew, which made it



an important gathering place for regional tribes. On the 1860s, fur trading and missionary activity began on the valley and by the end of the decade a trading post known as “Robber’s Roost” was established. In 1886, the community began to prosper when the Northern Pacific Railroad established a rail siding facility in Ellensburg that helped create markets for cattle, dairy products, timber, wool, and hay. There was speculation that, as part of the region’s effort to petition Congress to admit Washington into the union in 1889, Ellensburg would be named the new state capitol due to its central location. However, a disastrous fire on July 4, 1889, exacerbated by the winds that travel from the Cascade Mountain Range to the west, destroyed most of the downtown business district and many homes. The community rebuilt itself within a year, using brick and stone masonry rather than wood.

Although Ellensburg lost the State Capitol decision to Olympia, the new State Legislature established the Washington State Normal School (a teacher’s college now known as CWU) in the City. The school opened in 1891 with 86 students and today CWU has an enrollment exceeding 8,900 students in the 2023-2024 school year and occupies approximately 380 acres.⁵ CWU is the County’s largest employer with more than 1,800 employees and is estimated to contribute some \$113 Million annually to the local economy through retail, housing, entertainment, and other local businesses.⁶

The timing of the fire and the rapid reconstruction of the downtown area produced a unified and attractive appearance dominated by late Victorian architectural styles that have subsequently been filled in with a few early 20th century neoclassic and art deco style buildings. The historical style has defined the community and continues to serve as one of its biggest assets. Ellensburg has grown and established itself as a vital, rooted, and unique community which residents consider being a quiet, clean, comfortable, safe, and family-oriented city.

3.3. Governing Body Format

The City of Ellensburg utilizes the council-manager form of government with a City Manager hired by the City Council. The City Council elects a Mayor and mayor pro tempore from the council to serve two (2) year terms. The City also uses an appointed planning commission that provides land use policy recommendations to the City Council. The City also retains the services of a Hearing Examiner to hear quasi-judicial land use permit application matters, conditional use permit applications, and provide recommendations to the City Council. A number of citizen boards and commissions have been established to provide recommendation and guidance to Council on a variety of issues, including downtown, the environment, energy, historic preservation, sustainability, parks and recreation, library, arts, equity and inclusion, and affordable housing.

4. DEVELOPMENT TRENDS

The City’s Comprehensive Plan serves as a guide to address future growth and development projects in the City within the Urban Growth Area (UGA), and it embodies the community’s goals and policies, and aims to guide the City’s development over the next 20 years. Under the State of Washington’s Growth Management Act (GMA) and RCW.36.70A, cities must update their Comprehensive Plan every 10 years. The City of Ellensburg Comprehensive Plan was last adopted in December 2017. The City’s Comprehensive Plan has the following elements – Land Use, Capital Facilities and Utilities, Transportation, Housing, Parks and Recreation, Economic Development, Environment, Historic Preservation, and Diversity, Equity, and Inclusion. The most recent City of Ellensburg Comprehensive

⁵ USNews.com. (n.d.). Retrieved from <https://www.usnews.com/best-colleges/central-washington-university-3771>.

⁶ Don Meseck. Employment Security Department, Washington State. (2022). Kittitas County Profile. Retrieved from <https://esd.wa.gov/labormarketinfo/county-profiles/kittitas>.



Plan can be accessed via the following link <https://ci.ellensburg.wa.us/835/Comprehensive-Plan>. A new Climate Resiliency chapter will be added with the periodic update in 2026, per State law.

Table 4 summarizes development trends in the performance period since development of the previous hazard mitigation plan and expected future development trends.

Table 4. Recent and Expected Development Trends

Criteria	Response
Has your jurisdiction annexed any land since the development of the previous Hazard Mitigation Plan?	Yes
<i>If yes, give the estimated area annexed and estimated number of parcels or structures.</i>	Approximately 630 acres and 304 parcels.
Is your jurisdiction expected to annex any areas during the performance period of this Plan?	Yes
Has your jurisdiction had any major changes in development over the <u>past</u> five (5) years that have occurred in hazard prone areas?	Yes
<i>If yes, please briefly describe.</i>	<ul style="list-style-type: none"> Residential developments in the Washington State Department of Natural Resources (DNR) Wildland Urban Interface (WUI) Fire Zone Map area within the City limits on the north side of the City and at Mallards Meadows on the southeast side of the City. Single family residential development within the flood hazard zone on the north side of the City and commercial/industrial development on Dolarway in the flood hazard zone. Historic buildings in downtown that have not been retrofitted to meet current seismic code requirements, unless a renovation project triggers the requirement.
Are any areas targeted for development or major redevelopment in the <u>next</u> five (5) years that will occur in hazard prone areas?	Yes
<i>If yes, please briefly describe.</i>	<ul style="list-style-type: none"> Parcels along Anderson Road and Dolarway have planned light industrial development including a large-scale distribution warehouse and cold storage facilities. Residential development is expected to continue in the Northwest quadrant of the City. Kittitas County owns Bowers Field Business Park, located in the UGA, and is exploring investments to expand the industrial base in the northeast quadrant of the City. <p>Flood risk mitigation will be important to all these areas.</p>



Criteria	Response
Provide a qualitative description of where development has occurred in hazard areas.	<ul style="list-style-type: none"> 1400 and 1500 Dolarway: 13 commercial warehouses ranging between 6,000 and 11,000 square feet within the flood hazard area. Nine (9) buildings have been constructed, and two (2) others are under construction. 10 single-family residences were built within flood hazard area, two (2) homes on Brentwood Street and eight (8) homes on E. Windsor Court.

4.1. Changes in Priority

In 2024, the City of Ellensburg adopted a Sustainability and Energy Plan which addresses the local impacts of climate change and aligns federal and state goals and regulations. The Plan is a strategic framework through which the City will continue its leadership in procuring clean, renewable-sourced electricity and taking further strides to decarbonize both municipal assets and operations as well as communitywide infrastructure and activities. Additionally, mitigation actions from the previous Plan were updated, and a more concerted effort on achieving equitable outcomes for all communities, including underserved communities and socially vulnerable populations, has been implemented.

5. CAPABILITY ASSESSMENT

Federal regulations require hazard mitigation plans to identify goals for reducing long-term vulnerabilities to the identified hazards in the planning area (Section 201.6(c)(3)(i)). A critical step in the development of specific hazard mitigation actions and projects is assessing existing authorities, policies, programs, and resources and capabilities to use or modify local tools to reduce losses and vulnerability from profiled hazards.

A capability assessment was conducted for the City of Ellensburg and participating jurisdictions' authorities, policies, programs, and resources. Goals and mitigation actions were developed using input from this assessment. Information regarding the City's jurisdictions' implementation of and continued participation in the National Flood Insurance Program (NFIP) can be found in Section 8 of this Annex.

The Local Planning Team assessed the City's capabilities that can contribute to the reduction of long-term vulnerabilities to hazards. The capabilities include the following categories:

- Planning and Regulatory Capabilities
- Administrative and Technical Capabilities
- Financial Capabilities
- Education and Outreach Capabilities

Additionally, ways to expand on and improve these existing policies and programs to integrate hazard mitigation into the day-to-day activities and programs of the City were considered.

5.1. Planning and Regulatory Capabilities

These include local ordinances, policies, and laws to manage growth and development (e.g., land use plans, capital improvement plans, transportation plans, emergency preparedness and response plans, building codes, and zoning ordinances). The City of Ellensburg will adopt the approved 2024 Kittitas County Hazard Mitigation Plan by reference into the City's Comprehensive Plan. **Table 5** contains a list of legal and regulatory capabilities.



Table 5. Planning and Regulatory Capabilities

Capability Category	Local Authority	Other Jurisdictional Authority	State Mandated	Comments
Codes, Ordinances, and Requirements				
Building Code	Yes	No	Yes	Title 3 of the Ellensburg City Code (ECC) adopts the most current International Building Code (IBC). Title 14.04 of the Kittitas County Code (KCC). Chapter 19.27 of the Revised Code of Washington (RCW)
Zoning Code	Yes	No	Yes	Title 13 of the ECC Title 17 of the KCC
Subdivisions Code	Yes	No	Yes	Title 12 of the ECC Title 16 of the KCC
Post Disaster Recovery	No	No	No	
Real Estate Disclosure	No	No	Yes	Chapter 64.06 RCW
Growth Management	Yes	No	Yes	The Washington State Growth Management Act (RCW Chapter 36.70A) directs growth management and comprehensive planning for cities and counties. City of Ellensburg Comprehensive Plan was adopted in 2017 and last amended in 2023.
Site Plan Review	Yes	No	No	Title 15 of the ECC Site plans are reviewed for compliance with codes and development regulations.
Special Purpose (flood management, critical areas)	Yes	No	Yes	Critical areas (Title 15) that are within shoreline jurisdiction are regulated by the Shoreline Master Program; those that are not in shoreline jurisdiction are regulated by the City's critical areas regulations. These regulations are periodically reviewed and updated in accordance with State mandates.
Planning Documents				
Comprehensive Plan	Yes	No	Yes	Cities in Washington State must update their Comprehensive Plan every 10 years. Washington State's Growth Management Act (GMA) and RCW.36.70A. Last adopted in 2017 and last amended in 2023. The next periodic update is scheduled for 2026, then State law changed to mandating updates every ten (10) years.



Capability Category	Local Authority	Other Jurisdictional Authority	State Mandated	Comments
Comprehensive Emergency Management Plan	Yes	No	Yes	RCW 38.52 The County Comprehensive Emergency Plan (CEMP) was last updated in 2016, a periodic update is due in 2026 and is currently in progress.
Floodplain or Basin Plan	Yes	No	No	Kittitas County Comprehensive Floodplain Management Plan (1996)
Stormwater Plan	Yes	No	Yes	Adopted stormwater utility in 2009 along with the Stormwater Management Manual for Eastern Washington in 2004, which was updated in 2018, and again in 2024. The current stormwater development standards for the City of Ellensburg were also adopted in 2009. The City was issued a new NPDES stormwater permit on August 1, 2024, which expires on July 31, 2029.
Capital Improvement Plan	Yes	No	Yes	The 6-Year Capital Improvement Plan (updated annually) is incorporated into the City's Comprehensive Plan as an Appendix to the Capital Facilities and Utilities Chapter and updated annually. Last adopted in 2023.
Habitat Conservation Plan	Yes	No	Yes	The GMA requires cities and counties to adopt regulations for the protection of environmental areas, which include habitat conservation areas. It is incorporated in the Land Use Element chapter of the City's Comprehensive Plan.
Economic Development Plan	No	No	Yes	Economic Development is outlined in Chapter 6 of the City's Comprehensive Plan (2017). The City adopted a Countywide Economic Development Strategic Plan in 2023. Regulated through Critical Area Ordinance in the ECC (Title 15).
Emergency Response Plan	Yes	No	No	It is outlined in Chapter 4 (Capital Facilities and Utilities) in the City's Comprehensive Plan. Emergency Management services are contracted for through the Fire District.
Shoreline Master Program	Yes	No	Yes	The goals and objectives in the most current adopted Ellensburg Shoreline Master Program are adopted by reference in City's Comprehensive Plan.
Post Disaster Recovery Plan	No	No	No	



Capability Category	Local Authority	Other Jurisdictional Authority	State Mandated	Comments
Sustainability and Energy Plan	No	Yes	No	The City's Sustainability and Energy Plan (SEP) is a strategic framework through which the City will continue its leadership in procuring clean, renewable-sourced electricity and taking further strides to decarbonize both municipal assets and operations, as well as community-wide infrastructure and activities.

5.2. Administrative and Technical Capabilities

The administrative and technical capabilities include community (i.e., public and private) staff and their skills and tools, which can be used for mitigation planning and implementation. This capability includes engineers, planners, emergency managers, GIS analysts, building inspectors, grant writers, and floodplain managers. Small communities may rely on other government entities, such as counties or special districts, for resources. These capabilities may be used to support mitigation activities. **Table 6** lists administrative and technical capabilities.

Table 6. Administrative and Technical Capabilities

Staff/Personnel Resources	Available	Position/Department/Agency
Planners or engineers with knowledge of land development and land management practices	Yes	Planners, Ellensburg Community Development Department City Engineers and Development Review staff, Ellensburg Public Works & Utilities Department Consultants
Engineers or professionals trained in building or infrastructure construction practices	Yes	Building Inspectors, Community Development Department (Building Division) Engineers, Ellensburg Public Works and Utilities Department Local Contractors
Planners or engineers with an understanding of natural hazards	Yes	City Staff, Ellensburg Public Works and Utilities Department, Ellensburg Energy Department, and Ellensburg Community Development Department
Staff with training in benefit/cost analysis	Yes	Analysts, Ellensburg Finance Department, Ellensburg Public Works and Utilities Department, and Energy Department
Floodplain manager	Yes	Director (Certified), Community Development Department
Surveyors	Yes	Hire as needed.
Personnel skilled or trained in GIS applications	Yes	City Staff, Information Technology (IT) Department Consultants
Scientist familiar with natural hazards in local area	Yes	Hire as needed Local expertise is available through Central Washington University Faculty
Emergency manager	Yes	Contracted with Kittitas Valley Fire & Rescue
Grant writers	Yes	City Staff, Finance Department, Ellensburg Community Development Department, and Ellensburg Public Works and Utilities Department Contractor/Consultant



5.3. Financial Resources

Table 7 contains a list of financial capabilities available to the City. These financial resources may be used to support mitigation activities based on procedures for each resource.

Table 7. Financial Resources

Financial Resources	Accessible or Eligible to Use
Community Development Block Grants	Yes
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	Yes
Incur Debt through General Obligation Bonds	Yes
Incur Debt through Special Tax Bonds	Yes
Incur Debt through Private Activity Bonds	No
Withhold Public Expenditures in Hazard-Prone Areas	No
State Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	Yes

5.4. Education and Outreach Capabilities

Table 8 lists the City's financial and public outreach capabilities. These capabilities include fire safety programs, hazard awareness campaigns, public information, and communications offices. Education and outreach capabilities can be used to inform the public about current and potential mitigation activities.

Table 8. Education and Outreach Resources

Resource	Available	Position/Department/Agency/Description
Public Information Officer	Yes	City PIO, City Manager's Office Arts & Economic Development Manager, City Manager's Office PIO, Ellensburg Police Department
Personnel skilled or trained in website development	Yes	City PIO, City Manager's Office Network/Systems Administrator, Ellensburg Information Technology Department
Hazard mitigation information available on your website	Yes	City PIO, City Manager's Office Infrastructure and mitigation projects are included in the Ellensburg Public Works and Utilities Department website HMP Resolution (2023-04): https://www.ci.ellensburg.wa.us/ArchiveCenter/ViewFile/Item/3442
Utilize social media for hazard mitigation education and outreach	Yes	Facebook: facebook.com/CityofEllensburgWA/ X: x.com/Ellensburg_WA
Citizen boards or commissions that address issues related to hazard mitigation	Yes	Environmental Commission Utility Advisory Committee Planning Commission Landmarks & Design Commission (historic buildings)



Resource	Available	Position/Department/Agency/Description
Other programs already in place that could be used to communicate hazard-related information	Yes	Kittitas Valley Fire & Rescue Public Education Services Central Washington University Emergency Management Kittitas County Emergency Management
An established warning systems for hazard events	Yes	Kittitas County Sheriff's Office, Emergency Management Office City PIO, City Manager's Office PIO, Ellensburg Police Department Ellensburg Utility Customer Portal and Website: KITTCOM 911

5.5. Needs to Expand/Improve Capabilities

The City of Ellensburg identified existing authorities, policies, programs, funding, and/or resources that need to be expanded and/or improved in order to support the implementation of the hazard mitigation initiatives identified in this Plan (e.g., mitigation actions).

- The City needs to improve its planning resources and develop a comprehensive Continuity of Operations Plan (COOP).
- Building codes and ordinances should be reviewed based on developing trends in identified hazards and mitigation measures that can make them more effective at preventing losses. Furthermore, building codes should be updated to comply with the latest international and state building codes.
- Better GIS integration in the City's planning and communication capabilities could improve the City's ability to implement the mitigation actions identified in this Plan.

6. HAZARD MITIGATION PLAN INTEGRATION

The information on hazards, risk, vulnerability, and mitigation contained in this Hazard Mitigation Plan is based on the best available data at the time of the Plan update. Plan integration consists of the incorporation of hazard mitigation into other relevant planning mechanisms (e.g., general planning and capital improvement planning). It includes the integration of natural hazard information and mitigation policies, principles, and actions into local planning mechanisms and vice versa. Additionally, plan integration is achieved through the involvement of key staff and community officials in collaborative hazard mitigation planning.

6.1. Existing Plan Integration

In the performance period since the adoption of the previous Hazard Mitigation Plan, City of Ellensburg made progress on integrating components of the hazard mitigation strategy (e.g., goals, objectives, and actions) into the planning initiatives listed in **Table 9**.

Table 9. Existing Plan Integration

Planning Initiative	Description
City Comprehensive Plan	The Hazard Mitigation Plan is utilized to identify new information that was not available during the previous revision of the Comprehensive Plan, relating to hazards (i.e., flood and fire), and climate adaptation and resiliency strategies.



Planning Initiative	Description
Capital Improvement Plan	The Capital Improvement Plan (CIP) should continue to utilize flexibility in the CIP to incorporate mitigation measures in planned projects and the project evaluation criteria which includes public health and safety, regulatory compliance, and grant funding requirements.
Annual Stream Maintenance	In an effort to mitigate flooding, the City regularly cleans trash racks to keep debris free during high water; and remove crack willow from local streams to re-establish the thalweg and stream cross sections.
Reecer Creek Levee Project	In 2024, the City will begin the Reecer Creek Levee extension to mitigate West Ellensburg flooding. Once this mitigation project is completed, the levee will extend from Dolarway to the BNSF Railway. This is another phase of a long-term flood project that installed a new flood bridge on Dolarway in 2023. <i>This is Mitigation Action E-1 in this Annex.</i>
Annual Levee Maintenance	Per United States Army Corps of Engineers (USACE) standards, the City ensures maintenance is conducted in levees to appropriately mitigate flooding in areas protected by levee systems.

6.2. Potential Future Integration

As the Hazard Mitigation Plan is implemented, the City of Ellensburg will use information from the Plan as the best available science and data on hazards. The capability assessment presented in Section 5 of this Annex identifies codes, plans, and programs that provide opportunities for integration. The Citywide and local action plans developed for this Hazard Mitigation Plan are related to plan integration. The capability assessment identified plans and programs, listed in **Table 10**, that do not currently integrate goals and recommendations of this Plan but provide opportunities to do so in the future.

Table 10. Potential Future Integration

Planning Initiative	Description
City Comprehensive Plan	The opportunity to incorporate additional hazard mitigation and abatement measures will be contemplated for inclusion in the next Comprehensive Plan update or amendments. The Comprehensive Plan must be updated every (8) years.
Capital Improvement Plan	The City will continue to ensure consistency between this Hazard Mitigation Plan and future updates of the Capital Improvement Plan. The Hazard Mitigation Plan may identify new possible funding sources for capital improvement projects and may result in modifications to proposed projects based on results of the risk assessment.
Municipal Code	The hazards, goals, and actions of this Hazard Mitigation Plan will be considered in the next update of the City's land use, zoning, and subdivision codes, as applicable.
Annual Storm Maintenance	In an effort to mitigate small urban flooding, the City anticipates to jet and clean half the City annually to keep the system debris free.
Low-Impact Development (LID) Retrofit Stormwater Projects	Public and private projects infiltrating stormwater instead of utilizing the curb and gutter system helps eliminate small size flood events through infiltration. LID retrofit stormwater projects can be identified in this Hazard Mitigation Plan to become eligible for possible hazard mitigation grant funding; furthermore, the risk assessment in this Plan can help identify future LID retrofit stormwater projects.
City Sustainability and Energy Plan	The City will ensure integration of the next Sustainability and Energy Plan updated with this Hazard Mitigation Plan and vice versa. The Plan was adopted in January 2024



Planning Initiative	Description
Flood Control Assistant Account Program (FCAAP) Grant Project	Project will model the storm system and examine culvert sizing for future capital needs. It will also model the system to size certain urban flood events whereby mapping the displacement of water through the storm system and look at map revisions. Future capital needs identified through this Project can be identified as mitigation projects in this Hazard Mitigation Plan to become eligible for possible hazard mitigation grant funding.

The City's Local Planning Team will identify all relevant planning initiatives that are scheduled to be updated in the next year and during the annual update process of the Hazard Mitigation Plan. Additionally, opportunities to integrate key elements of the Hazard Mitigation Plan, specifically any relevant strategies, into the planning initiatives will be identified by the Local Planning Team. Mitigation actions were identified to promote plan integration in future revisions of this Plan.

7. SIGNIFICANT HAZARD PAST EVENTS

A complete risk assessment, including past incidents, for each identified hazard of concern can be found in **Volume 1** of this Plan.

8. NATIONAL FLOOD INSURANCE PROGRAM

The City of Ellensburg is a member of the National Flood Insurance Program (NFIP) but has chosen to not participate in the NFIP's Community Rating System (CRS). The City's NFIP participation information is listed in **Table 11**.

Table 11. NFIP Participation Information

CID	Community Name	NFIP Participation Date	Current Effective FIRM Date	CRS Entry Date	CRS Current Effective Date	CRS Class
530234	City of Ellensburg	5/5/1981	9/24/2021	N/A	N/A	N/A

8.1. Floodplain Manager

As an NFIP participating jurisdiction, the City of Ellensburg has a designated Floodplain Manager that is charged with enforcing floodplain regulations, routinely monitoring the floodplains, and providing community assistance such as encouraging owners to maintain flood insurance. The City's Floodplain Manager information is listed in **Table 12**.

Table 12. Floodplain Manager

Jurisdiction	Department	Name	Title	Phone Number
City of Ellensburg	Community Development	Dan Carlson	Community Development Director	(509) 925-8653

8.2. Participation Activities

The City of Ellensburg NFIP participation activities over the last five (5) years include the following:

- Provides the following services – permit review, GIS, inspections, and engineering capability.
- Floodplain Administrator is a Certified Floodplain Manager (CFM).



- Teaches property owners or other stakeholders about the importance of flood insurance through public outreach events, workshops, and/or seminars.
- Enforces local floodplain regulations and monitors compliance.
- Floodplain management regulations meet or exceed FEMA or State minimum requirements.

Additionally, during the update process of this Plan, the City was working on an updated flood modeling project to develop enhanced flood maps for the City. This project has been funded by the Washington State Flood Control Assistance Account Program.

8.2.1. Substantial Damage

Substantial damage means damage of any origin sustained by a structure by which the cost of restoring the structure to its before damaged condition would equal or exceed 50% of the market value of the structure before the damage occurred. (*Ellensburg City Code Title 15, Chapter 15.630*)

8.2.2. Substantial Improvement

Substantial improvement means any reconstruction, rehabilitation, addition, or improvement of a structure, the cost of which equals or exceeds 50% of the market value of the structure before the “start of construction” of the improvement. This term includes structures which have incurred *substantial damage*, regardless of the actual repair work performed. The term does not, however, include either:

- Any project for improvement of a structure to correct pre-cited existing violations of state or local health, sanitary, or safety code specifications which have been previously identified by the local code enforcement official and that are the minimum necessary to assure safe living conditions.
- Any alteration of a historic structure, listed on the National Register of Historic Places or a State Inventory of Historic Places, provided that the alteration will not preclude the structure’s continued designation as a historic structure. (*Ellensburg City Code Title 15, Chapter 15.630*)

8.3. Repetitive Loss and Severe Repetitive Loss Property

The Federal Emergency Management Agency (FEMA) defines a Repetitive Loss property as an NFIP insured structure with two (2) or more claims of more than \$1,000 each within any rolling 10-year period, since 1978.⁷

A Severe Repetitive Loss property is defined by FEMA as any NFIP insured structure for which either of the following is true when at least two (2) of the claims are within 10 years of each other (claims made within 10 days will be counted as one (1) claim):⁸

- That has incurred flood related damage for which four (4) or more separate claims payments have been made, with the amount of each claim (including buildings and contents payments) exceeding \$5,000, and with the cumulative amount of such claims exceeding \$20,000.
- For which at least two (2) separate claims payments (building payments only) have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the building.

⁷ Federal Emergency Management Agency. (2020). Repetitive Loss Structure. Retrieved from <https://www.fema.gov/node/405233>.

⁸ Federal Emergency Management Agency, National Flood Insurance Program. (2022). Flood Insurance Manual: Risk Rating 2.0: Equity in Action Edition. Retrieved from https://www.fema.gov/sites/default/files/documents/fema_nfip-flood-insurance-full-manual_102022.pdf.



Repetitive loss records from the City of Ellensburg are listed in **Table 13**.

Table 13. Repetitive Loss Properties

Jurisdiction	Repetitive Loss Properties	Severe Repetitive Loss Properties
City of Ellensburg	0	0

Table 14 summarizes the NFIP active policies and coverage in force data for the City of Ellensburg.

Table 14. NFIP Policies

Jurisdiction	NFIP Policies	Insurance in Force	Total Claims Paid	Sum of Claims Paid
City of Ellensburg	75	\$21.583 Million	31	\$206,669

9. HAZARD VULNERABILITY AND IMPACT ASSESSMENT

Exposure and vulnerability to certain hazards affect the entire County and others are geographically defined. Although the entire County may be vulnerable to these hazards, their impacts may vary based on existing community conditions (e.g., underserved, or functional access needs populations may be more susceptible based on certain conditions, vulnerabilities, or needs).

A complete risk assessment for each identified hazard of concern is in **Volume 1** of this Plan. **Table 15** provides information on a several key vulnerabilities for the City of Ellensburg. Hazard mapping can be found in **Appendix A** of this Annex.

Table 15. Hazard Vulnerability and Impact Assessment

Hazards	Vulnerabilities and Impacts
Avalanche	The Local Planning Team determined that the City does not have unique vulnerabilities and impacts to avalanches.
Dam and Levee Failure	The Local Planning Team determined that the City does not have unique vulnerabilities and impacts to dam and levee failure.
Drought	The Local Planning Team determined that the City does not have unique vulnerabilities and impacts to droughts.
Earthquake	The Local Planning Team determined that the City does not have unique vulnerabilities and impacts to earthquakes.
Flood	Ellensburg is located in the Kittitas Valley adjacent to the Yakima River with six (6) perennial creeks that convey runoff and snowmelt from the mountain range watersheds to the north, through the developed City in an alluvial fan from the northeast to the southwest where they flow into the Yakima River which then flows into the Columbia River approximately 130 miles to the south. Additionally, three (3) large irrigation canals traverse the City from the northwest to the southeast and provide irrigation water to the surrounding agricultural lands.
Landslide	Craig's Hill slopes are subject to seasonal surface sloughing.
Severe Weather (thunderstorms, hail, tornado, strong winds/damaging winds, extreme temperatures)	The Local Planning Team determined that the City does not have unique vulnerabilities and impacts to severe weather.
Volcanic Activity	The Local Planning Team determined that the City does not have unique vulnerabilities and impacts to volcanic activity.



Hazards	Vulnerabilities and Impacts
Wildfire (wildfire smoke)	Wildfire smoke caused by wildfire activity within and outside of Kittitas Valley significantly impact the air quality in the City.
Winter Weather (ice storms, heavy snow, and blizzards)	The Local Planning Team determined that the City does not have unique vulnerabilities and impacts to winter weather.
Communicable Diseases/Pandemic	The Local Planning Team determined that the City does not have unique vulnerabilities and impacts to communicable diseases/pandemics.

The City evaluated whether vulnerability in hazard-prone areas had increased, decreased, or remained the same for each natural hazard identified in this Hazard Mitigation Plan. Climate change, changes in population, infrastructure expansion, and economic shifts that can affect vulnerability were considered. For example, if planned development is in an identified hazard areas or is not built to the updated building codes, it may increase the community's vulnerability to future hazards and disasters. On the other hand, if development occurred with mitigation practices in place, the vulnerability may have remained the same or decreased. Additionally, shifting demographics (e.g., underserved population) were taken into consideration.

Table 16 outlines if climate change has increased or decreased the City's vulnerability (i.e., exposure) and impact to each natural hazard over the past five (5) years, and the effect of climate change in the future probability of occurrence and impacts from each natural hazard.

Table 16. Climate Change Current and Future Vulnerability and Impact

Hazard	Vulnerability and Impact
Current Vulnerability and Impact	
Avalanche	Remained the Same
Communicable Diseases/Pandemic	Remained the Same
Dam and Levee Failure	Remained the Same
Drought	Remained the Same
Earthquake	Remained the Same
Extreme Cold/Extreme Heat (<i>Severe Weather</i>)	Remained the Same
Flood	Remained the Same
Landslide	Remained the Same
Severe Weather (<i>thunderstorms, hail, strong winds/damaging winds, and tornado</i>)	Remained the Same
Volcanic Activity	Remained the Same
Winter Weather (<i>ice storms, heavy snow, blizzards</i>)	Remained the Same
Wildfire (<i>Wildfire Smoke</i>)	Remained the Same
Future Vulnerability and Impact	
Avalanche	No Change is Anticipated
Communicable Diseases/Pandemic	No Change is Anticipated
Dam and Levee Failure	No Change is Anticipated



Hazard	Vulnerability and Impact
Drought	Increase
Earthquake	No Change is Anticipated
Extreme Cold/Extreme Heat (<i>Severe Weather</i>)	Increase
Flood	Increase
Landslide	No Change is Anticipated
Severe Weather (<i>thunderstorms, hail, strong winds/damaging winds, and tornado</i>)	No Change is Anticipated
Volcanic Activity	No Change is Anticipated
Winter Weather (<i>ice storms, heavy snow, blizzards</i>)	Increase
Wildfire (<i>Wildfire Smoke</i>)	Increase

Table 17 outlines if changes in population within the City over the past five (5) years have increased or decreased the vulnerability (i.e., exposure) and impact to these natural hazards, and the anticipated effects changes in population may have on the future probability of occurrence and impacts from these natural hazards.

Table 17. Changes in Population Current and Future Vulnerability and Impact

Hazard	Vulnerability and Impact
Current Vulnerability and Impact	
Avalanche	Remained the Same
Communicable Diseases/Pandemic	Remained the Same
Dam and Levee Failure	Remained the Same
Drought	Remained the Same
Earthquake	Remained the Same
Extreme Cold/Extreme Heat (<i>Severe Weather</i>)	Remained the Same
Flood	Remained the Same
Landslide	Remained the Same
Severe Weather (<i>thunderstorms, hail, strong winds/damaging winds, and tornado</i>)	Remained the Same
Volcanic Activity	Remained the Same
Winter Weather (<i>ice storms, heavy snow, blizzards</i>)	Remained the Same
Wildfire (<i>Wildfire Smoke</i>)	Remained the Same
Future Vulnerability and Impact	
Avalanche	No Change is Anticipated
Communicable Diseases/Pandemic	No Change is Anticipated
Dam and Levee Failure	No Change is Anticipated
Drought	Increase



Hazard	Vulnerability and Impact
Earthquake	No Change is Anticipated
Extreme Cold/Extreme Heat (<i>Severe Weather</i>)	Increase
Flood	Increase
Landslide	No Change is Anticipated
Severe Weather (<i>thunderstorms, hail, strong winds/damaging winds, and tornado</i>)	Increase
Volcanic Activity	No Change is Anticipated
Winter Weather (<i>ice storms, heavy snow, blizzards</i>)	Increase
Wildfire (<i>Wildfire Smoke</i>)	Increase

Table 18 outlines if development over the past five (5) years has increased or decreased the jurisdiction's vulnerability (i.e., exposure) and impact to these natural hazards, and the anticipated effects changes in development may have on the future probability of occurrence and impacts from these natural hazards.

Table 18. Changes in Development Current and Future Vulnerability and Impact

Hazard	Vulnerability and Impact
Current Vulnerability and Impact	
Avalanche	Remained the Same
Communicable Diseases/Pandemic	Remained the Same
Dam and Levee Failure	Remained the Same
Drought	Remained the Same
Earthquake	Remained the Same
Extreme Cold/Extreme Heat (<i>Severe Weather</i>)	Remained the Same
Flood	Remained the Same
Landslide	Remained the Same
Severe Weather (<i>thunderstorms, hail, strong winds/damaging winds, and tornado</i>)	Remained the Same
Volcanic Activity	Remained the Same
Winter Weather (<i>ice storms, heavy snow, blizzards</i>)	Remained the Same
Wildfire (<i>Wildfire Smoke</i>)	Remained the Same
Future Vulnerability and Impact	
Avalanche	No Change Anticipated
Communicable Diseases/Pandemic	No Change Anticipated
Dam and Levee Failure	No Change Anticipated
Drought	Increase
Earthquake	No Change Anticipated
Extreme Cold/Extreme Heat (<i>Severe Weather</i>)	No Change Anticipated



Hazard	Vulnerability and Impact
Flood	No Change Anticipated
Landslide	No Change Anticipated
Severe Weather (<i>thunderstorms, hail, strong winds/damaging winds, and tornado</i>)	No Change Anticipated
Volcanic Activity	No Change Anticipated
Winter Weather (<i>ice storms, heavy snow, blizzards</i>)	No Change Anticipated
Wildfire (<i>Wildfire Smoke</i>)	Increase

The City anticipates future major assets may be exposed or vulnerable to any of the natural hazards identified in this Hazard Mitigation Plan. However, although changes in future development do not anticipate a change in vulnerability as a result to earthquakes, historic buildings in Downtown constructed with unreinforced masonry remain vulnerable. Additionally, the health and well-being of the underserved population (e.g., elderly, homeless, low-income) within the City can experience severe stress from drought and wildfire smoke. Any new assets (e.g., new construction in hazard prone areas) will be constructed to adhere to the latest building codes and standards, and mitigation to protect them from identified and anticipated hazards, especially those that are expected to increase due to climate change.

10. HAZARD RISK RANKING

Table 19 presents the local hazard ranking for the City of Ellensburg of all hazards of concern listed in **Volume 1** of this Plan. This ranking summarizes how hazards vary for this jurisdiction. As described in detail in **Volume 1**, the ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property, and the economy.

Table 19. Hazard Risk Ranking

Hazard Event	Probability Factor	Sum of Weighted Extent Factors	Sum of Weighted Vulnerability Factors	Sum of Weighted Impact Factors	Consequence Score	Total Risk Score (Probability x Consequence)
Winter Weather (Blizzard/Heavy Snow, Ice Storm)	3	15	16	24	55	77
Earthquake	2	12	16	33	61	59
Flood	2	18	11	31	60	59
Strong Wind / Damaging Winds (Severe Weather)	3	9	16	15	40	59
Wildfire Smoke (Wildfire)	3	9	10	20	39	57
Wildfire	2	15	11	27	53	53
Communicable Diseases / Pandemic	2	18	10	20	48	48
Thunderstorms (Severe Weather)	2	6	16	23	45	46



Hazard Event	Probability Factor	Sum of Weighted Extent Factors	Sum of Weighted Vulnerability Factors	Sum of Weighted Impact Factors	Consequence Score	Total Risk Score (Probability x Consequence)
Cold Wave / Extreme Cold (Severe Weather)	2	12	12	20	44	45
Heat Wave / Extreme Heat (Severe Weather)	2	12	12	17	41	42
Drought	2	9	6	24	39	41
Landslide	2	12	7	13	32	34
Dam and Levee Failure	1	12	11	24	47	26
Hail (Severe Weather)	1	6	16	16	38	22
Tornado (Severe Weather)	1	6	14	16	36	21
Volcanic Activity	1	12	6	15	33	20
Avalanche	1	6	6	13	25	15
<p>Consequence: Sum of <u>all</u> weighted factors. Extent: Sum of the weighted <u>Extent</u> factors. Vulnerability: Sum of the weighted <u>Vulnerability</u> factors. Impact: Sum of the weighted <u>Impact</u> factors. Total Risk Score* = Probability x Consequence * Normalized to 100</p>						
Total Risk Score Legend						
Classification	Probability Factor	Extent	Vulnerability	Impact	Consequence Score	Total Risk Score
Low (L)	1	0 – 6	0 – 6	0 – 12	0 – 24	0 – 24
Medium (M)	2	7 – 12	7 – 12	13 – 26	25 – 50	25 – 52
High (H)	3	13 – 18	13 – 18	27 – 39	51 – 75	53 and above
<p>The legend—specifically the assignment of low, medium, and high—provides an additional means to qualitatively assess the probability factor, sum of weighted factors, and the total risk scores for each hazard. The Consequence Score represents the sum of the Extent, Vulnerability, and Impact Factors. The Total Risk Score is a measure of Probability and Consequence.</p>						



11. MITIGATION ACTIONS

This section includes the mitigation actions that were developed to address identified risks and vulnerabilities to hazards identified in this Plan. This Plan serves only to recommend mitigation measures based on the potential for risk reduction and available funding. Implementation of mitigation actions is dependent on risk reduction priorities, feasibility, and available funding. It is also dependent on the cooperation and support of the jurisdiction and/or department responsible for each action item.

The City of Ellensburg agreed upon **25** mitigation actions that apply to the jurisdiction's properties where they have jurisdictional responsibility and authority. A summary of the City's mitigation actions status is listed in **Table 20**.

Table 20. City of Ellensburg Mitigation Actions Summary

Status		Mitigation Action Total	
Ongoing		16	
In Progress/In Work		3	
Not Started		2	
Delayed/Deferred		0	
New		4	
TOTAL		25	
Completed		0	
Deleted/No Longer Needed		0	
Mitigation Actions per Hazard			
Avalanche	6	Landslide	7
Dam and Levee Failure	6	Severe Weather	10
Drought	6	Volcanic Activity	6
Earthquake	9	Wildfire	7
Flood	21	Winter Weather	7

These shared actions, some of which address all hazards, help to meet the following requirements:

- Does the Plan identify and analyze a comprehensive range of specific mitigation actions and projects for each jurisdiction being considered to reduce the effects of hazards, with emphasis on new and existing buildings and infrastructure?
- Does the Plan include one (1) or more action(s) per jurisdiction for each hazard identified within the risk assessment?

A detailed explanation of the Mitigation Strategy can be found in Chapter 5 of **Volume 1**.



Mitigation Action	West Ellensburg Flood Mitigation Project – Reecer and Currier Creeks from Interstate 90 to University Way to Create Floodplain and Extend Levee to BNSF Railroad.				
Action Number	E-1	Year Initiated / Anticipated Year of Initiation	2012	Prioritization Score	31/40
Goal(s) Addressed		1, 2, 3, 4	Hazard(s) Mitigated	Flood	
Project Status		Ongoing	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits <i>(Loss Avoided)</i>		High			
Lead Agency / Organization	City of Ellensburg Public Works & Utilities Department		Supporting Agency / Organization <i>(If applicable)</i>	n/a	
Additional Participating Jurisdictions <i>(If applicable)</i>	n/a				
Project Duration	Long Term		Estimated Cost	High	
Potential Funding Source	Other		If Other, you must identify a funding source.	Washington State Department of Ecology grants, City of Ellensburg Stormwater Utility Funds, Kittitas County Flood Zone District Funds	
			Please provide further detail on Potential Funding Source.	n/a	
Implementation Priority	High	Changes in Priority <i>(If applicable)</i>			



Mitigation Action	Wilson Creek Flood Control Project: Realign the Creek into a more natural flow pathway away from residential development, provide new stream habitat, and mitigate a long standing flood problem affecting property and people on North Brook Lane in the City of Ellensburg.				
Action Number	E-2	Year Initiated / Anticipated Year of Initiation	2012	Prioritization Score	28/40
Goal(s) Addressed		1, 2, 3, 4	Hazard(s) Mitigated	Flood	
Project Status		Ongoing	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits (Loss Avoided)		High			
Lead Agency / Organization	City of Ellensburg Public Works & Utilities Department		Supporting Agency / Organization (If applicable)	n/a	
Additional Participating Jurisdictions (If applicable)	n/a				
Project Duration	Long Term		Estimated Cost	High	
Potential Funding Source	BRIC, HMGP, FMA, Local Budgeted Funds, Other		If Other, you must identify a funding source.	Local Budgeted Bonds, Floodplains by Design Program grants, Kittitas County Flood Control Zone District Funds, Washington State Department of Ecology grants	
			Please provide further detail on Potential Funding Source.	General Fund (Staff Time)	
Implementation Priority	Medium	Changes in Priority (If applicable)			



Mitigation Action	Update FEMA Floodplain Maps.				
Action Number	E-3	Year Initiated / Anticipated Year of Initiation	2012	Prioritization Score	37/40
Goal(s) Addressed		1, 2, 3, 4, 5	Hazard(s) Mitigated	Flood	
Project Status		In Progress/In Work	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits <i>(Loss Avoided)</i>		High			
Lead Agency / Organization	City of Ellensburg Public Works & Utilities Department		Supporting Agency / Organization <i>(If applicable)</i>	n/a	
Additional Participating Jurisdictions <i>(If applicable)</i>	n/a				
Project Duration	Long Term		Estimated Cost	High	
Potential Funding Source	Local Budgeted Funds, State Special Funds, Other		If Other, you must identify a funding source.	FEMA RiskMAP Program, Kittitas County Flood District Funds, Flood Control Assistance Account Program (FCAAP)	
			Please provide further detail on Potential Funding Source.	General Fund (Staff Time), Washington State Department of Ecology Flood Control Assistance Account Program Grants	
Implementation Priority	High	Changes in Priority <i>(If applicable)</i>			



Mitigation Action	Improve stormwater management by clearing storm drains and culverts regularly.				
Action Number	E-4	Year Initiated / Anticipated Year of Initiation	2019 or before	Prioritization Score	38/40
Goal(s) Addressed		1, 3, 4	Hazard(s) Mitigated	Flood	
Project Status		Ongoing	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits <i>(Loss Avoided)</i>		Low			
Lead Agency / Organization	City of Ellensburg Public Works & Utilities Department		Supporting Agency / Organization <i>(If applicable)</i>	n/a	
Additional Participating Jurisdictions <i>(If applicable)</i>	n/a				
Project Duration	Ongoing		Estimated Cost	High	
Potential Funding Source	Local Budgeted Funds		If Other, you <u>must</u> identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	City Stormwater Utility Funds and Kittitas County Flood Control Zone District Funds	
Implementation Priority	High	Changes in Priority <i>(If applicable)</i>			



Mitigation Action	Enhance existing stormwater facilities that lack capacity or functionality and construct new local stormwater facilities where there is identified need including, but not limited to, Gateway II (Mitigation Action: E-21), Brook Lane, Sampson Avenue, and Walnut Street.				
Action Number	E-5	Year Initiated / Anticipated Year of Initiation	2012	Prioritization Score	29/40
Goal(s) Addressed		1, 3, 4	Hazard(s) Mitigated	Flood	
Project Status		Ongoing	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits <i>(Loss Avoided)</i>		High			
Lead Agency / Organization	City of Ellensburg Public Works & Utilities Department		Supporting Agency / Organization <i>(If applicable)</i>	n/a	
Additional Participating Jurisdictions <i>(If applicable)</i>	n/a				
Project Duration	Ongoing		Estimated Cost	High	
Potential Funding Source	Local Budgeted Funds, HMGP, BRIC, FMA		If Other, you must identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	City Stormwater Utility Funds, Kittitas County Flood Control Zone District Funds	
Implementation Priority	Medium	Changes in Priority <i>(If applicable)</i>			



Mitigation Action	Improve land use by implementing zoning setbacks, greenways, and buffers in flood-prone areas.				
Action Number	E-6	Year Initiated / Anticipated Year of Initiation	2019	Prioritization Score	31/40
Goal(s) Addressed		1, 2, 3, 4, 5	Hazard(s) Mitigated	Flood	
Project Status		Ongoing	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits (Loss Avoided)		High			
Lead Agency / Organization		City of Ellensburg Community Development Department	Supporting Agency / Organization (If applicable)	City of Ellensburg Public Works & Utilities Department	
Additional Participating Jurisdictions (If applicable)		n/a			
Project Duration		Long Term	Estimated Cost	Low	
Potential Funding Source		Local Budgeted Funds, HMGP	If Other, you <u>must</u> identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	General Fund (Staff Time)	
Implementation Priority	High	Changes in Priority (If applicable)			



Mitigation Action	Acquisition of flood-prone structures and conversion of land to open space.				
Action Number	E-7	Year Initiated / Anticipated Year of Initiation	2012	Prioritization Score	27/40
Goal(s) Addressed		1, 2, 3, 4, 5	Hazard(s) Mitigated	Flood	
Project Status		Ongoing	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits <i>(Loss Avoided)</i>		High			
Lead Agency / Organization		City of Ellensburg Community Development Department	Supporting Agency / Organization <i>(If applicable)</i>	n/a	
Additional Participating Jurisdictions <i>(If applicable)</i>		n/a			
Project Duration		Ongoing	Estimated Cost	High	
Potential Funding Source		HMGP, BRIC, FMA, Local Budgeted Funds	If Other, you <u>must</u> identify a funding source.	Kittitas County Flood Control Zone District Funds	
			Please provide further detail on Potential Funding Source.	n/a	
Implementation Priority	Medium	Changes in Priority <i>(If applicable)</i>			



Mitigation Action	Continue to maintain good standing and compliance under the National Flood Insurance Program (NFIP) through implementation of floodplain management programs that, at a minimum, meet the NFIP requirements. These include but are not limited to – enforce the flood damage prevention ordinance, participate in floodplain identification and mapping updates, and provide public assistance/information on floodplain requirements and impacts.				
Action Number	E-8	Year Initiated / Anticipated Year of Initiation	2012	Prioritization Score	33/40
Goal(s) Addressed		1, 2, 3, 4, 5	Hazard(s) Mitigated	Flood	
Project Status		Ongoing	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits (Loss Avoided)		High			
Lead Agency / Organization	City of Ellensburg Community Development Department		Supporting Agency / Organization (If applicable)	City of Ellensburg Public Works Department	
Additional Participating Jurisdictions (If applicable)	n/a				
Project Duration	Ongoing		Estimated Cost	Low	
Potential Funding Source	Local Budgeted Funds		If Other, you must identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	General Fund (Staff Time)	
Implementation Priority	High	Changes in Priority (If applicable)			



Mitigation Action	Where appropriate, support retrofitting, purchase, or relocation of structures in hazard-prone areas to protect structures from future damage, prioritizing repetitive loss and severe repetitive loss properties.				
Action Number	E-9	Year Initiated / Anticipated Year of Initiation	2012	Prioritization Score	30/40
Goal(s) Addressed	5	Hazard(s) Mitigated	Avalanche, Dam and Levee Failure, Drought, Earthquake, Flood, Landslide, Severe Weather, Volcanic Activity, Wildfire, Winter Weather		
Project Status	Ongoing	<i>If Deleted/No Longer Needed, provide reason.</i>	n/a		
Benefits <i>(Loss Avoided)</i>	Medium				
Lead Agency / Organization	City of Ellensburg Community Development Department	Supporting Agency / Organization <i>(If applicable)</i>	n/a		
Additional Participating Jurisdictions <i>(If applicable)</i>	n/a				
Project Duration	Long Term	Estimated Cost	High		
Potential Funding Source	HMGP, BRIC, FMA	<i>If Other, you must identify a funding source.</i>	n/a		
		Please provide further detail on Potential Funding Source.	n/a		
Implementation Priority	High	Changes in Priority <i>(If applicable)</i>			



Mitigation Action	Conduct a seismic retrofit of the Ellensburg Public Safety Building that houses the Ellensburg Police Department and Kittitas Valley Fire and Rescue Headquarters.				
Action Number	E-10	Year Initiated / Anticipated Year of Initiation	2012	Prioritization Score	35/40
Goal(s) Addressed	1, 2, 3, 4, 5		Hazard(s) Mitigated	Earthquake	
Project Status	In Progress/In Work		If Deleted/No Longer Needed, provide reason.	n/a	
Benefits (Loss Avoided)	Medium				
Lead Agency / Organization	City of Ellensburg Community Development Department		Supporting Agency / Organization (If applicable)	City of Ellensburg Police Department, Kittitas Valley Fire and Rescue	
Additional Participating Jurisdictions (If applicable)	n/a				
Project Duration	Long Term		Estimated Cost	Medium	
Potential Funding Source	Local Budgeted Funds, HMGP, BRIC, FMA		If Other, you must identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	City Bonds, General Fund (Staff Time)	
Implementation Priority	High	Changes in Priority (If applicable)			



Mitigation Action	Assess the City of Ellensburg risks and vulnerabilities by compiling hydrologic, geologic, topographic improved data.				
Action Number	E-11	Year Initiated / Anticipated Year of Initiation	2012	Prioritization Score	26/40
Goal(s) Addressed		1, 2, 3, 4, 5	Hazard(s) Mitigated	Avalanche, Dam and Levee Failure, Drought, Earthquake, Flood, Landslide, Severe Weather, Volcanic Activity, Wildfire, Winter Weather	
Project Status		Ongoing	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits <i>(Loss Avoided)</i>		High			
Lead Agency / Organization	City of Ellensburg Community Development Department		Supporting Agency / Organization <i>(If applicable)</i>	City of Ellensburg Information Technology Department	
Additional Participating Jurisdictions <i>(If applicable)</i>	n/a				
Project Duration	Ongoing		Estimated Cost	Medium	
Potential Funding Source	Local Budgeted Funds, HMGP, BRIC		If Other, you <u>must</u> identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	General Fund (Staff Time)	
Implementation Priority	Medium	Changes in Priority <i>(If applicable)</i>			



Mitigation Action	Consider adoption of appropriate regulatory standards, through updates as needed and/or required, affecting critical areas regulations, flood hazard regulations, shoreline regulations, and the City’s growth management comprehensive plan.				
Action Number	E-12	Year Initiated / Anticipated Year of Initiation	2019	Prioritization Score	32/40
Goal(s) Addressed	1, 2, 3, 4, 5		Hazard(s) Mitigated	Flood	
Project Status	Ongoing		If Deleted/No Longer Needed, provide reason.	n/a	
Benefits (Loss Avoided)	Medium				
Lead Agency / Organization	City of Ellensburg Community Development Department		Supporting Agency / Organization (If applicable)	n/a	
Additional Participating Jurisdictions (If applicable)	n/a				
Project Duration	Ongoing		Estimated Cost	Medium	
Potential Funding Source	Local Budgeted Funds		If Other, you must identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	General Fund (Staff Time)	
Implementation Priority	High	Changes in Priority (If applicable)			



Mitigation Action	Enhance the City’s public outreach to inform and educate the public on hazard mitigation and preparedness activities through the City’s website and social media platforms.				
Action Number	E-13	Year Initiated / Anticipated Year of Initiation	2012	Prioritization Score	26/40
Goal(s) Addressed		1, 2, 3, 4	Hazard(s) Mitigated	Avalanche, Dam and Levee Failure, Drought, Earthquake, Flood, Landslide, Severe Weather, Volcanic Activity, Wildfire, Winter Weather	
Project Status		Ongoing	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits (Loss Avoided)		Medium			
Lead Agency / Organization	City of Ellensburg City Manager		Supporting Agency / Organization (If applicable)	n/a	
Additional Participating Jurisdictions (If applicable)	n/a				
Project Duration	Ongoing		Estimated Cost	Low	
Potential Funding Source	Local Budgeted Funds		If Other, you <u>must</u> identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	General Fund (Staff Time)	
Implementation Priority	Medium	Changes in Priority (If applicable)			



Mitigation Action	Replace inadequately sized culvert for Reecer Creek at University Way.				
Action Number	E-14	Year Initiated / Anticipated Year of Initiation	2027	Prioritization Score	27/30
Goal(s) Addressed		1, 2, 3, 5	Hazard(s) Mitigated	Flood	
Project Status		Not Started	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits <i>(Loss Avoided)</i>		High			
Lead Agency / Organization	City of Ellensburg Public Works & Utilities Department		Supporting Agency / Organization <i>(If applicable)</i>	n/a	
Additional Participating Jurisdictions <i>(If applicable)</i>	n/a				
Project Duration	Long Term		Estimated Cost	High	
Potential Funding Source	Local Budgeted Funds, HMGP, BRIC, FMA		If Other, you <u>must</u> identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	City Street Funds, Capital Improvement Funds, Kittitas County Flood Control Zone District	
Implementation Priority	Medium	Changes in Priority <i>(If applicable)</i>			



Mitigation Action	Relocate City-owned critical facilities out of designated high hazard risk zones				
Action Number	E-15	Year Initiated / Anticipated Year of Initiation	2012	Prioritization Score	36/40
Goal(s) Addressed		1, 2, 3, 5	Hazard(s) Mitigated	Avalanche, Dam and Levee Failure, Drought, Earthquake, Flood, Landslide, Severe Weather, Volcanic Activity, Wildfire, Winter Weather	
Project Status		Ongoing	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits <i>(Loss Avoided)</i>		Medium			
Lead Agency / Organization	City of Ellensburg Community Development Department		Supporting Agency / Organization <i>(If applicable)</i>	n/a	
Additional Participating Jurisdictions <i>(If applicable)</i>	n/a				
Project Duration	Long Term		Estimated Cost	n/a	
Potential Funding Source	Local Budgeted Funds, HMGP, BRIC, FMA		If Other, you <u>must</u> identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	City Bonds, Kittitas County Flood Control Zone District Funds	
Implementation Priority	High	Changes in Priority <i>(If applicable)</i>			



Mitigation Action	Install stream gauge stations with communication links for early flood warning on all local tributaries.				
Action Number	E-16	Year Initiated / Anticipated Year of Initiation	2012	Prioritization Score	34/40
Goal(s) Addressed		1, 3	Hazard(s) Mitigated	Flood	
Project Status		Ongoing	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits <i>(Loss Avoided)</i>		High			
Lead Agency / Organization	City of Ellensburg Public Works Department		Supporting Agency / Organization <i>(If applicable)</i>	Kittitas County Public Works Department	
Additional Participating Jurisdictions <i>(If applicable)</i>	n/a				
Project Duration	Short Term		Estimated Cost	n/a	
Potential Funding Source	Local Budgeted Funds, State Special Funds		If Other, you must identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	City Stormwater Utility Fund, Washington State Department of Ecology Flood Control Assistance Account Program Grants, Kittitas County Flood Control Zone District Funds	
Implementation Priority	High	Changes in Priority <i>(If applicable)</i>			



Mitigation Action	Consider participation in the National Flood Insurance Program (NFIP) Community Rating System (CRS).				
Action Number	E-17	Year Initiated / Anticipated Year of Initiation	2027	Prioritization Score	29/40
Goal(s) Addressed		1, 2, 3, 4, 5	Hazard(s) Mitigated	Flood, Severe Weather	
Project Status		Not Started	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits <i>(Loss Avoided)</i>		Medium			
Lead Agency / Organization	City of Ellensburg Community Development Department		Supporting Agency / Organization <i>(If applicable)</i>	n/a	
Additional Participating Jurisdictions <i>(If applicable)</i>	n/a				
Project Duration	Short Term		Estimated Cost	Low	
Potential Funding Source	Local Budgeted Funds		If Other, you must identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	General Fund (Staff Time)	
Implementation Priority	Medium	Changes in Priority <i>(If applicable)</i>			



Mitigation Action	Actively support and participate in the implementation, monitoring, maintenance, and updating of the Kittitas County Hazard Mitigation Plan, as outlined and defined in Volume 1.				
Action Number	E-18	Year Initiated / Anticipated Year of Initiation	2012	Prioritization Score	35/40
Goal(s) Addressed	1, 2, 3, 4, 5		Hazard(s) Mitigated	Avalanche, Dam and Levee Failure, Drought, Earthquake, Flood, Landslide, Severe Weather, Volcanic Activity, Wildfire, Winter Weather	
Project Status	Ongoing		If Deleted/No Longer Needed, provide reason.	n/a	
Benefits (Loss Avoided)	High				
Lead Agency / Organization	City of Ellensburg Council, City of Ellensburg Community Development Department		Supporting Agency / Organization (If applicable)	n/a	
Additional Participating Jurisdictions (If applicable)	n/a				
Project Duration	Ongoing		Estimated Cost	Low	
Potential Funding Source	Local Budgeted Funds		If Other, you must identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	General Fund (Staff Time), City Street Fund	
Implementation Priority	High	Changes in Priority (If applicable)			



Mitigation Action	Continue to support through active participation the countywide initiatives identified in Volume 1 of the Kittitas County Hazard Mitigation Plan.				
Action Number	E-19	Year Initiated / Anticipated Year of Initiation	2012	Prioritization Score	31/40
Goal(s) Addressed	1, 3, 4		Hazard(s) Mitigated	Avalanche, Dam and Levee Failure, Drought, Earthquake, Flood, Landslide, Severe Weather, Volcanic Activity, Wildfire, Winter Weather	
Project Status	Ongoing		If Deleted/No Longer Needed, provide reason.	n/a	
Benefits (Loss Avoided)	Medium				
Lead Agency / Organization	City of Ellensburg Council, City of Ellensburg Community Development Department		Supporting Agency / Organization (If applicable)	n/a	
Additional Participating Jurisdictions (If applicable)	n/a				
Project Duration	Ongoing		Estimated Cost	Low	
Potential Funding Source	Local Budgeted Funds		If Other, you <u>must</u> identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	General Fund (Staff Time)	
Implementation Priority	High	Changes in Priority (If applicable)			



Mitigation Action	Consider participation in the National Weather Service “StormReady” Program.				
Action Number	E-20	Year Initiated / Anticipated Year of Initiation	2027	Prioritization Score	26/40
Goal(s) Addressed		1, 3, 4	Hazard(s) Mitigated	Flood, Severe Weather, Winter Weather	
Project Status		Not Started	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits <i>(Loss Avoided)</i>		High			
Lead Agency / Organization	City of Ellensburg Public Works & Utilities Department		Supporting Agency / Organization <i>(If applicable)</i>	n/a	
Additional Participating Jurisdictions <i>(If applicable)</i>	n/a				
Project Duration	Short Term		Estimated Cost	Low	
Potential Funding Source	Local Budgeted Funds		If Other, you <u>must</u> identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	General Fund (Staff Time)	
Implementation Priority	High	Changes in Priority <i>(If applicable)</i>			



Mitigation Action	Gateway Project: Design and construct a stormwater treatment system, and bicycle and pedestrian improvements along University Way. (https://ci.ellensburg.wa.us/1144/Gateway-I-Project)				
Action Number	E-21	Year Initiated / Anticipated Year of Initiation	2019	Prioritization Score	37/40
Goal(s) Addressed		1, 2, 3, 4, 5	Hazard(s) Mitigated	Flood, Severe Weather	
Project Status		In Progress/In Work	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits <i>(Loss Avoided)</i>		Low			
Lead Agency / Organization	City of Ellensburg Public Works & Utilities Department		Supporting Agency / Organization <i>(If applicable)</i>	n/a	
Additional Participating Jurisdictions <i>(If applicable)</i>	n/a				
Project Duration	Long Term		Estimated Cost	Low	
Potential Funding Source	Local Budgeted Funds, State Special Funds		If Other, you must identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	Department of Ecology's Water Quality Grant Program, City Stormwater Utility Fund	
Implementation Priority	High	Changes in Priority <i>(If applicable)</i>	Gateway I was completed and Gateway II is in progress. Treat (infiltrate - which also serves to mitigate flooding) stormwater along University Avenue City entrance on the West and Vantage Highway entrance from the East.		



Mitigation Action	Conduct a seismic retrofit of historic unreinforced masonry buildings in the City.				
Action Number	E-22	Year Initiated / Anticipated Year of Initiation	2025	Prioritization Score	28/40
Goal(s) Addressed	1, 2, 3, 4, 5		Hazard(s) Mitigated	Earthquake	
Project Status	New		If Deleted/No Longer Needed, provide reason.	n/a	
Benefits (Loss Avoided)	Medium				
Lead Agency / Organization	City of Ellensburg Community Development Department		Supporting Agency / Organization (If applicable)	n/a	
Additional Participating Jurisdictions (If applicable)	Ellensburg Downtown Association, Kittitas County Chamber of Commerce				
Project Duration	Long Term		Estimated Cost	Medium	
Potential Funding Source	State Special Funds, HMGP, BRIC, FMA		If Other, you must identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	Heritage Capital Projects Fund	
Implementation Priority	High	Changes in Priority (If applicable)			



Mitigation Action	Implement long-term hillside sloughing and stabilization mitigation for Craig's Hill.				
Action Number	E-23	Year Initiated / Anticipated Year of Initiation	2025	Prioritization Score	27/40
Goal(s) Addressed		1, 2, 4	Hazard(s) Mitigated	Earthquake, Landslide, Severe Weather	
Project Status		New	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits <i>(Loss Avoided)</i>		Low			
Lead Agency / Organization	City of Ellensburg Community Development Department		Supporting Agency / Organization <i>(If applicable)</i>	n/a	
Additional Participating Jurisdictions <i>(If applicable)</i>	n/a				
Project Duration	Short Term		Estimated Cost	Low	
Potential Funding Source	Local Budgeted Funds, HMGP, BRIC, FMA		If Other, you must identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	City General Fund (Staff Time), County Public Works General Fund (Staff Time), Private Funds	
Implementation Priority	Medium	Changes in Priority <i>(If applicable)</i>			



Mitigation Action	Ellensburg Community Fieldhouse Project: Replace/retrofit the former Racquet & Recreation Center to serve as an indoor shelter for air quality and extreme temperature emergencies and staging location for large scale emergency response operations. The former Racquet & Recreation Center will be located at Rotary Park.				
Action Number	E-24	Year Initiated / Anticipated Year of Initiation	2024	Prioritization Score	33/40
Goal(s) Addressed		1, 2, 3, 4, 5	Hazard(s) Mitigated	Wildfire	
Project Status		New	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits <i>(Loss Avoided)</i>		Low			
Lead Agency / Organization	City of Ellensburg Community Development Department		Supporting Agency / Organization <i>(If applicable)</i>	n/a	
Additional Participating Jurisdictions <i>(If applicable)</i>	n/a				
Project Duration	Long Term		Estimated Cost	Medium	
Potential Funding Source	Local Budgeted Funds, Local or State Special Taxes, Private/Non-Profit Funds, HMGP, BRIC, FMA, CDBG		If Other, you must identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	Metro Parks District Special Taxes, Public Facilities District Special Taxes, Private/Non-Profit Partnership Funds (Lease for PT/OT Provider), General Fund (Staff Time)	
Implementation Priority	High	Changes in Priority <i>(If applicable)</i>			



Mitigation Action	Perform annual creek channel maintenance reestablishing the stream thalweg along with invasive species eradication to include, but not limited to, Crack Willow trees.				
Action Number	E-25	Year Initiated / Anticipated Year of Initiation	2025	Prioritization Score	33/40
Goal(s) Addressed		1, 2, 3, 4, 5	Hazard(s) Mitigated	Flood	
Project Status		New	If Deleted/No Longer Needed, provide reason.	n/a	
Benefits (Loss Avoided)		Low			
Lead Agency / Organization	City of Ellensburg Public Works and Utilities Department		Supporting Agency / Organization (If applicable)	Kittitas County Flood Control Zone District	
Additional Participating Jurisdictions (If applicable)	n/a				
Project Duration	Long Term		Estimated Cost	Medium	
Potential Funding Source	Local Budgeted Funds		If Other, you must identify a funding source.	n/a	
			Please provide further detail on Potential Funding Source.	Kittitas County Flood Control Zone District Funds, General Fund (Staff Time)	
Implementation Priority	High	Changes in Priority (If applicable)			



APPENDIX A. HAZARD MAPS

Figure 1	City of Ellensburg Planning Area
Figure 2	Critical Facilities within and around the City boundary
Figure 3	Liquefaction Susceptibility (Earthquake) <i>Helps assess potential damage from earthquakes in the City.</i>
Figure 4	Special Flood Hazard Area (SFHA) <i>Includes each Flood Zone, and the 500-year floodplain. Flood Insurance Rate Maps (FIRMs) show the flood zones, floodplain boundaries, and Base Floor Elevation (BFE) and are used for floodplain management, flood insurance ratings, and to determine flood insurance requirements. FIRMs show areas with a 1% chance of flooding each year, commonly known as the 100-year floodplains, and are illustrated as the SFHA. The 500-year floodplains show areas with a 0.2% chance of flooding each year.</i>
Figure 5	Cle Elum Dam Inundation Area Map
Figure 6	Keechelus and Kachees Dam Inundation Area Map
Figure 7	Wildland Fire Hazard Area
Figure 8	Wildland Urban Interface Map

Figure 1. City of Ellensburg Planning Area

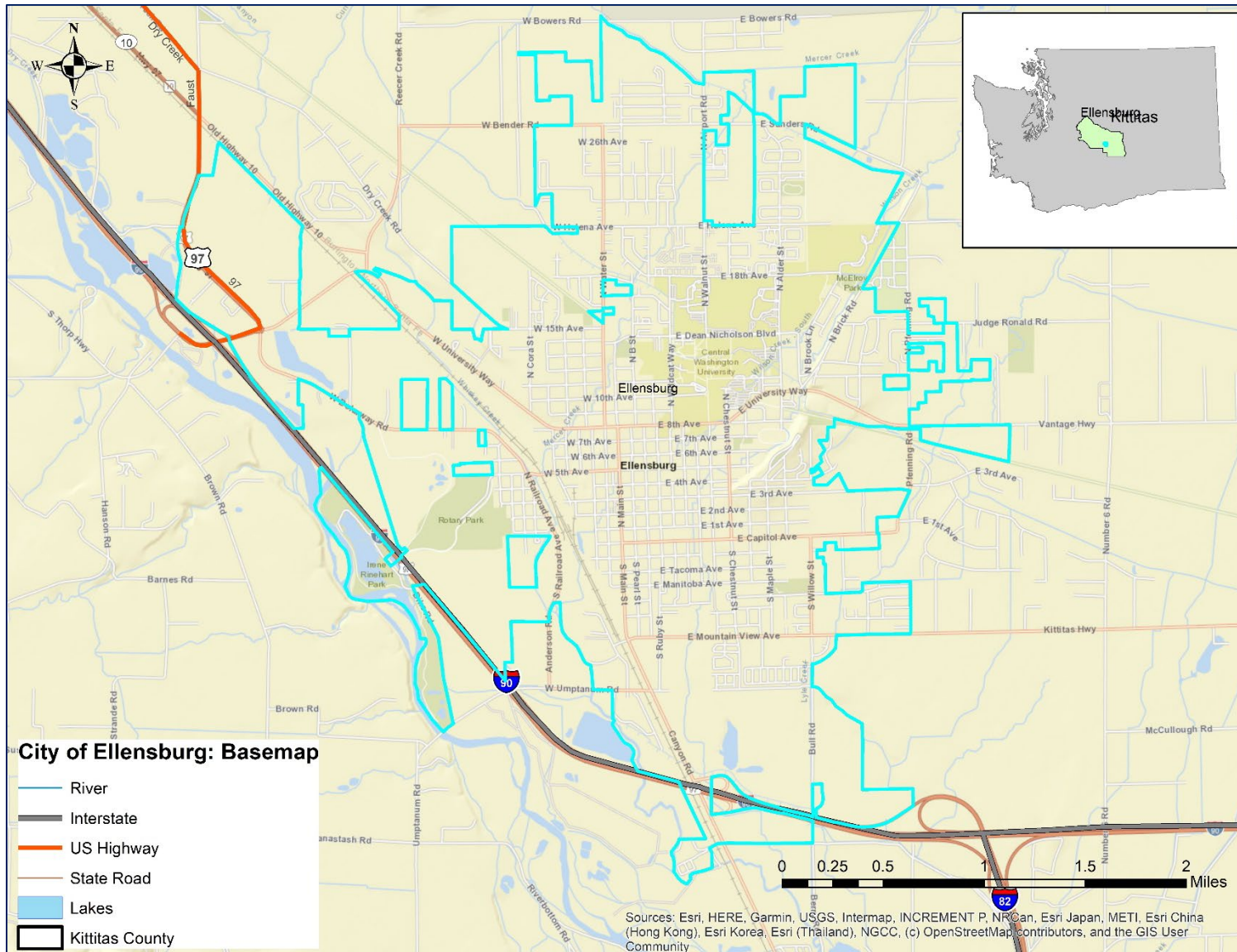


Figure 2. City of Ellensburg Critical Facilities

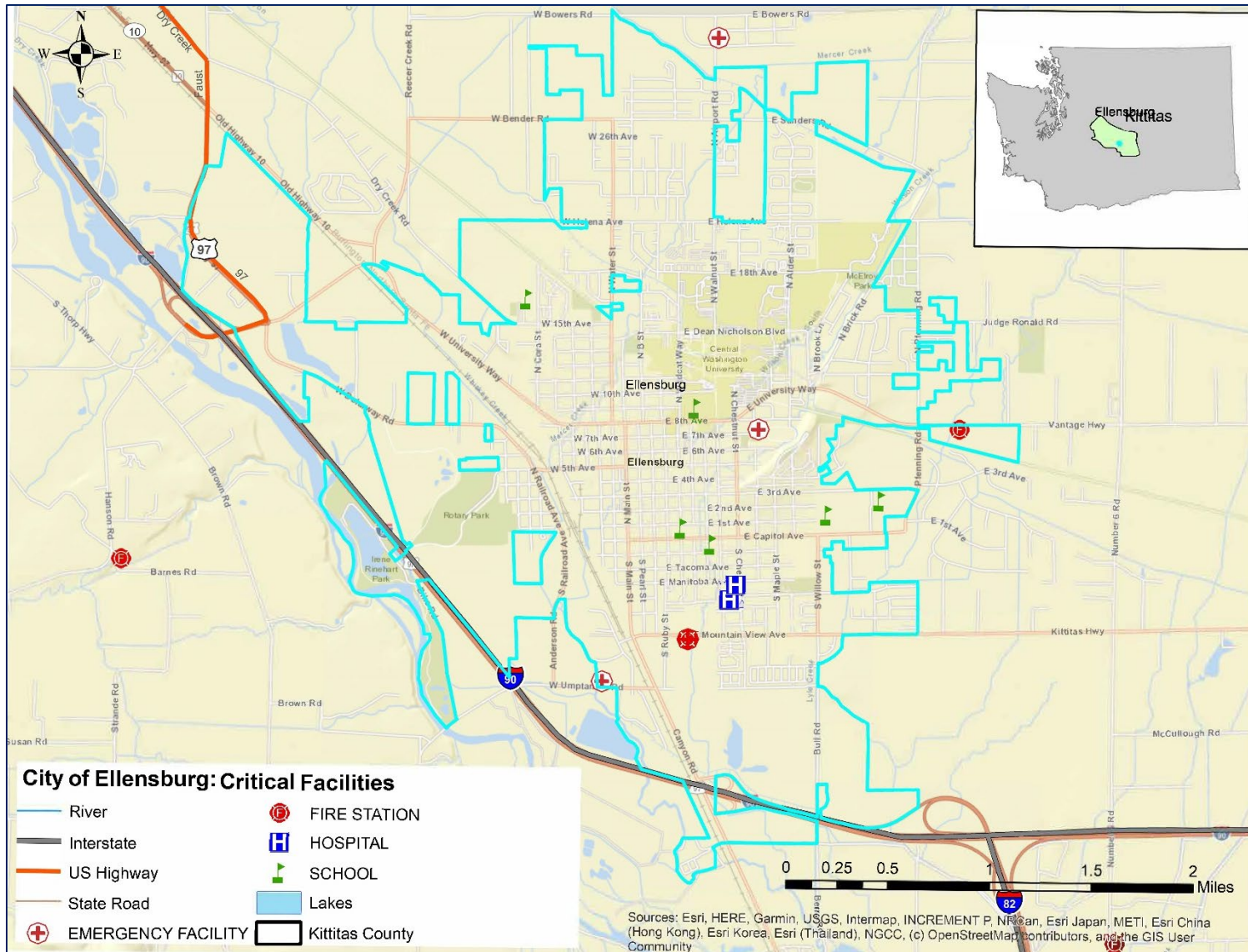


Figure 3. Liquefaction Susceptibility (Earthquake)

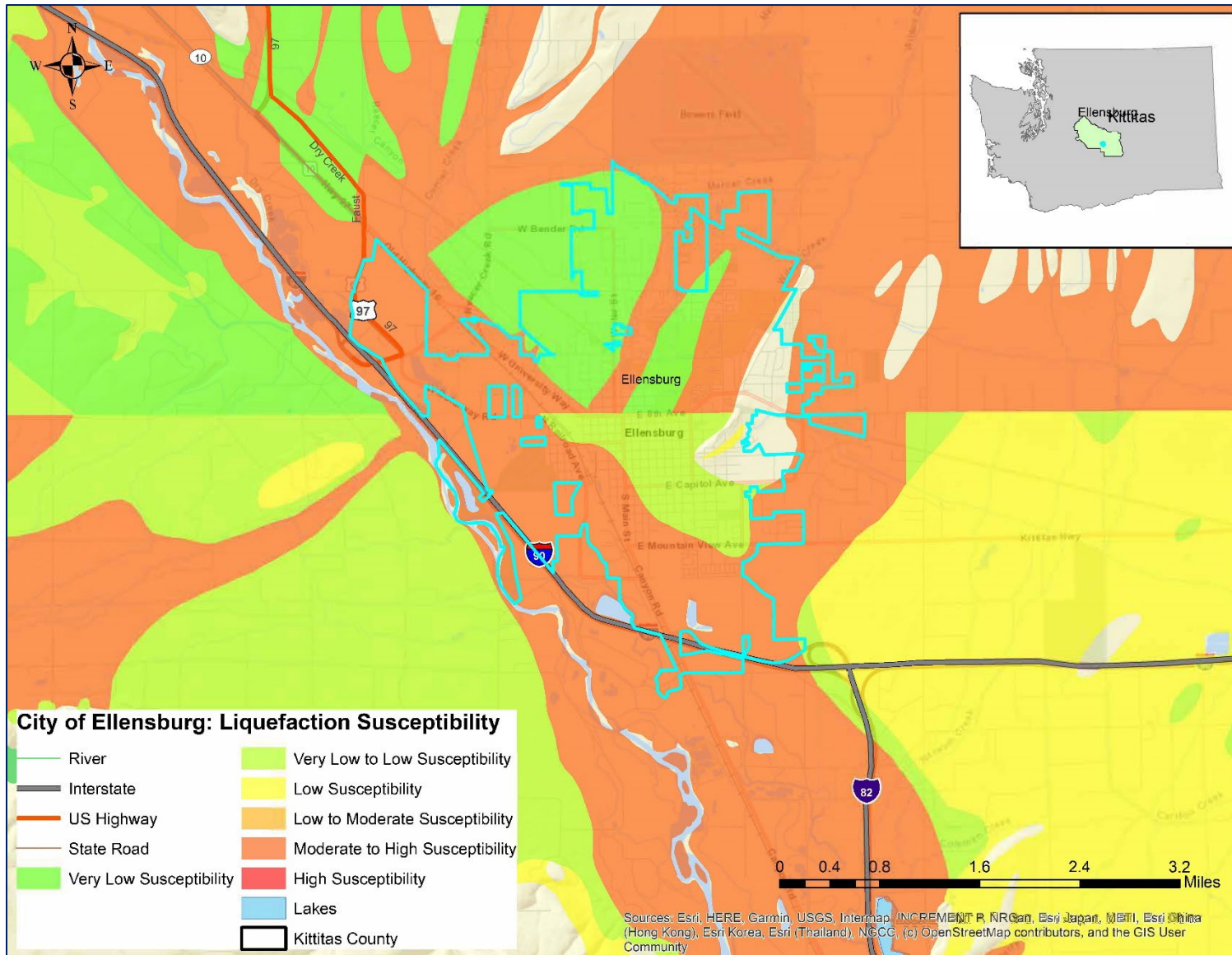


Figure 4. Special Flood Hazard Area

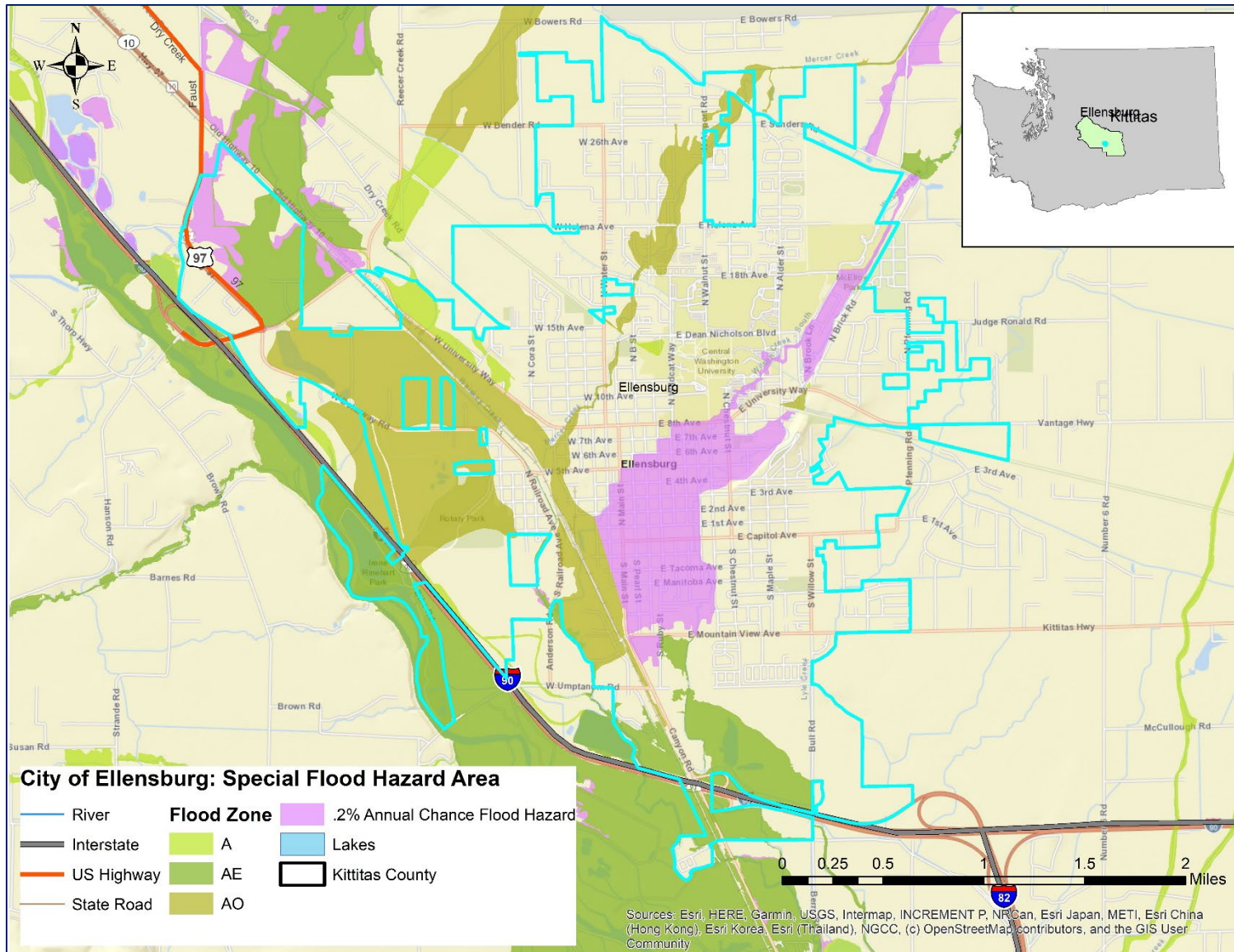




Figure 5. Cle Elum Dam Inundation Area

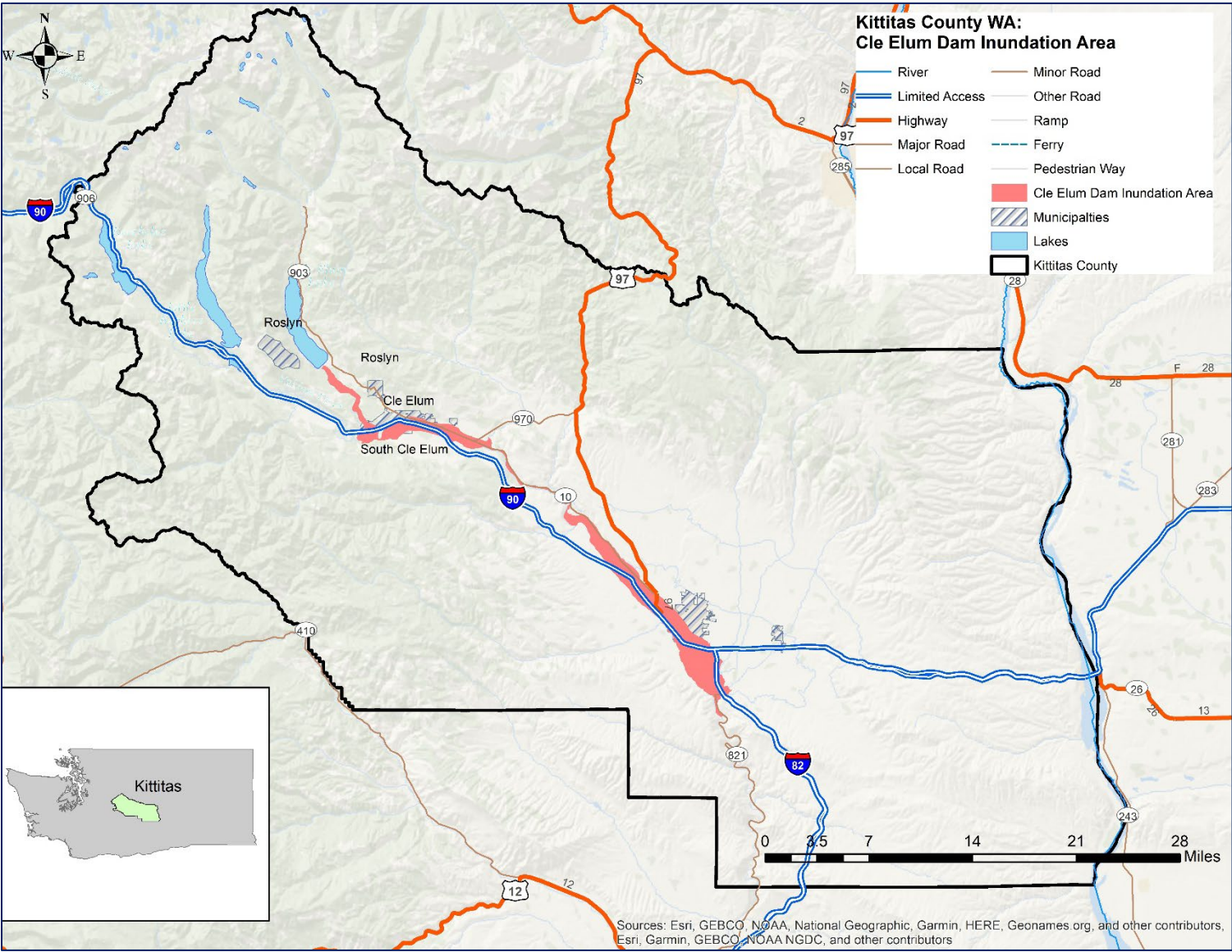




Figure 6. Keechelus and Kachees Dam Inundation Area

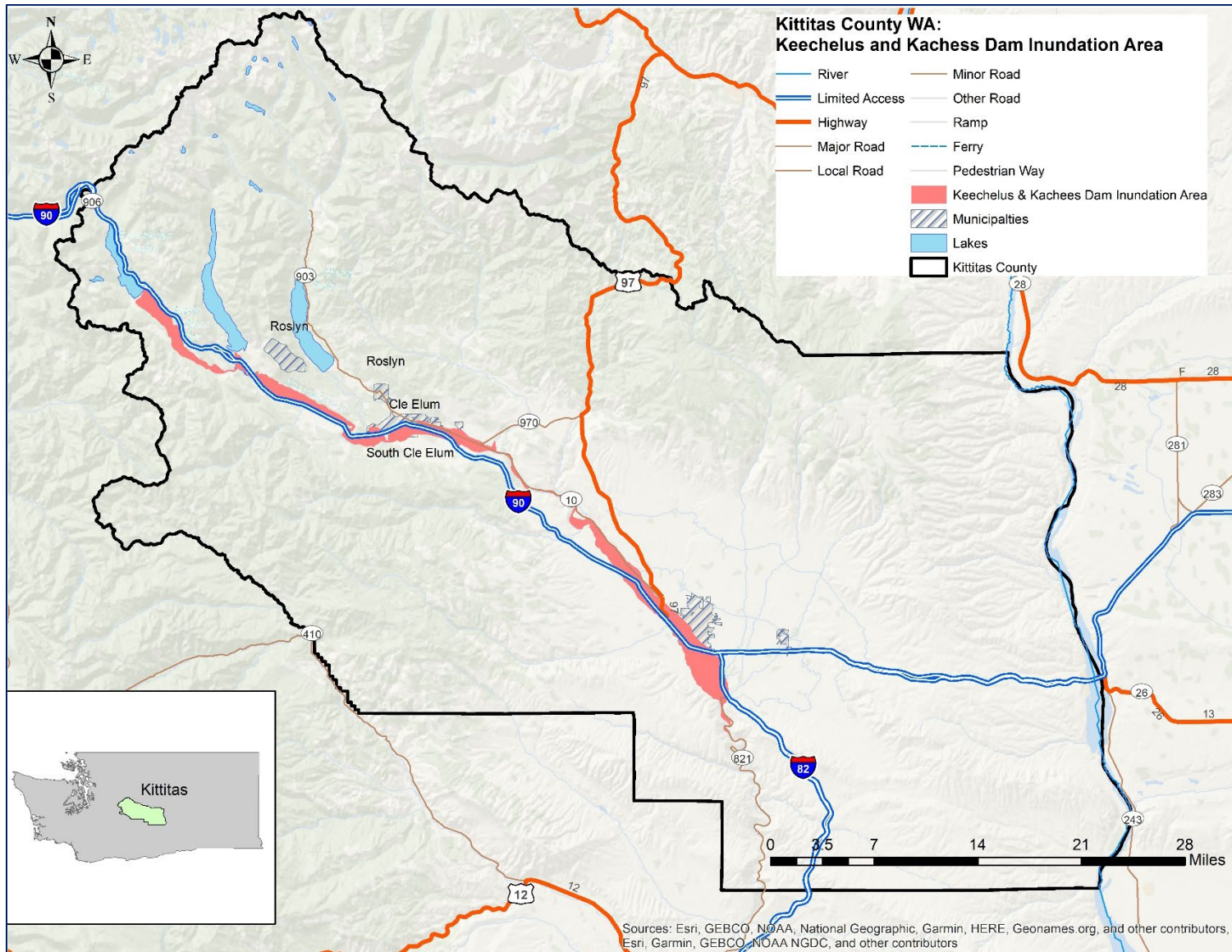


Figure 7. Wildland Fire Hazard Area

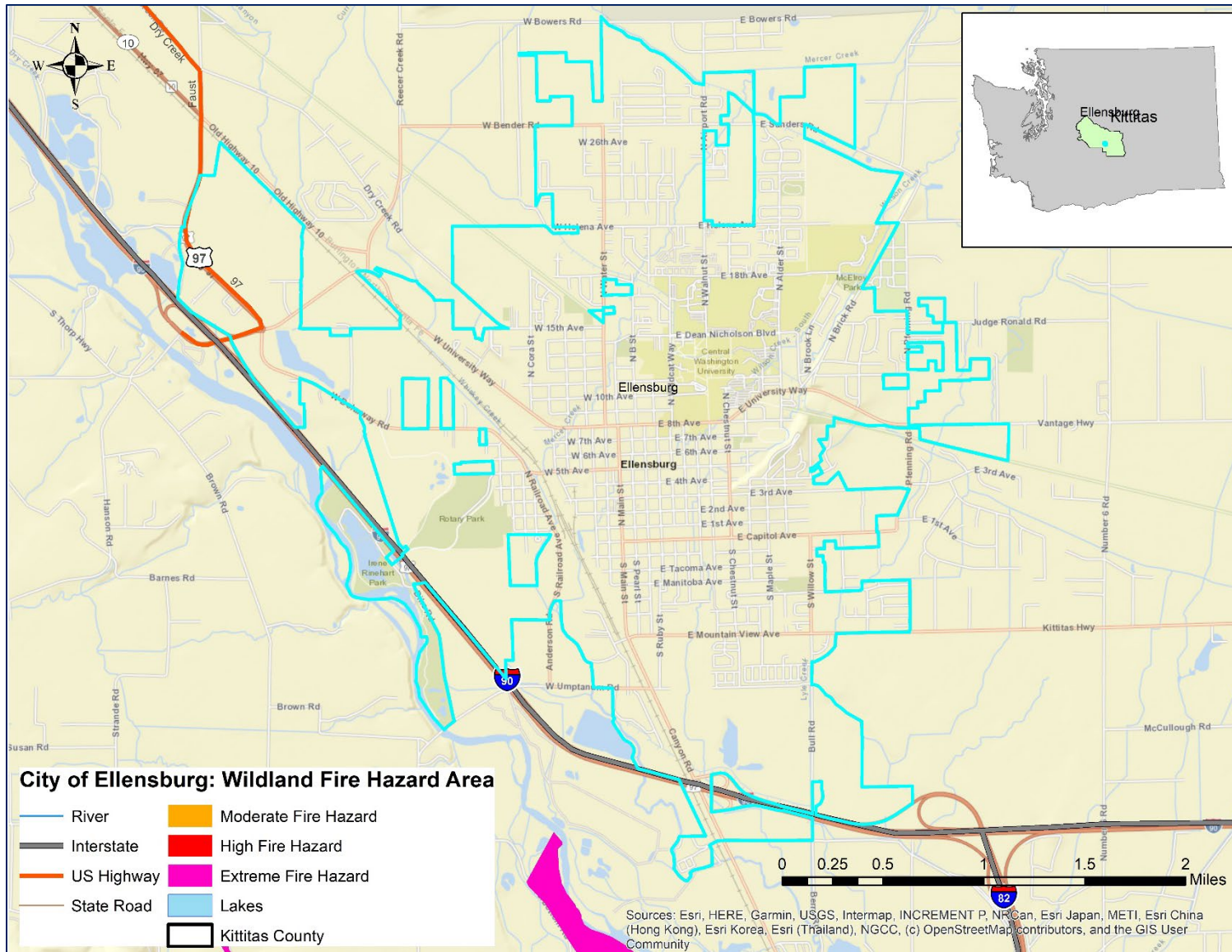
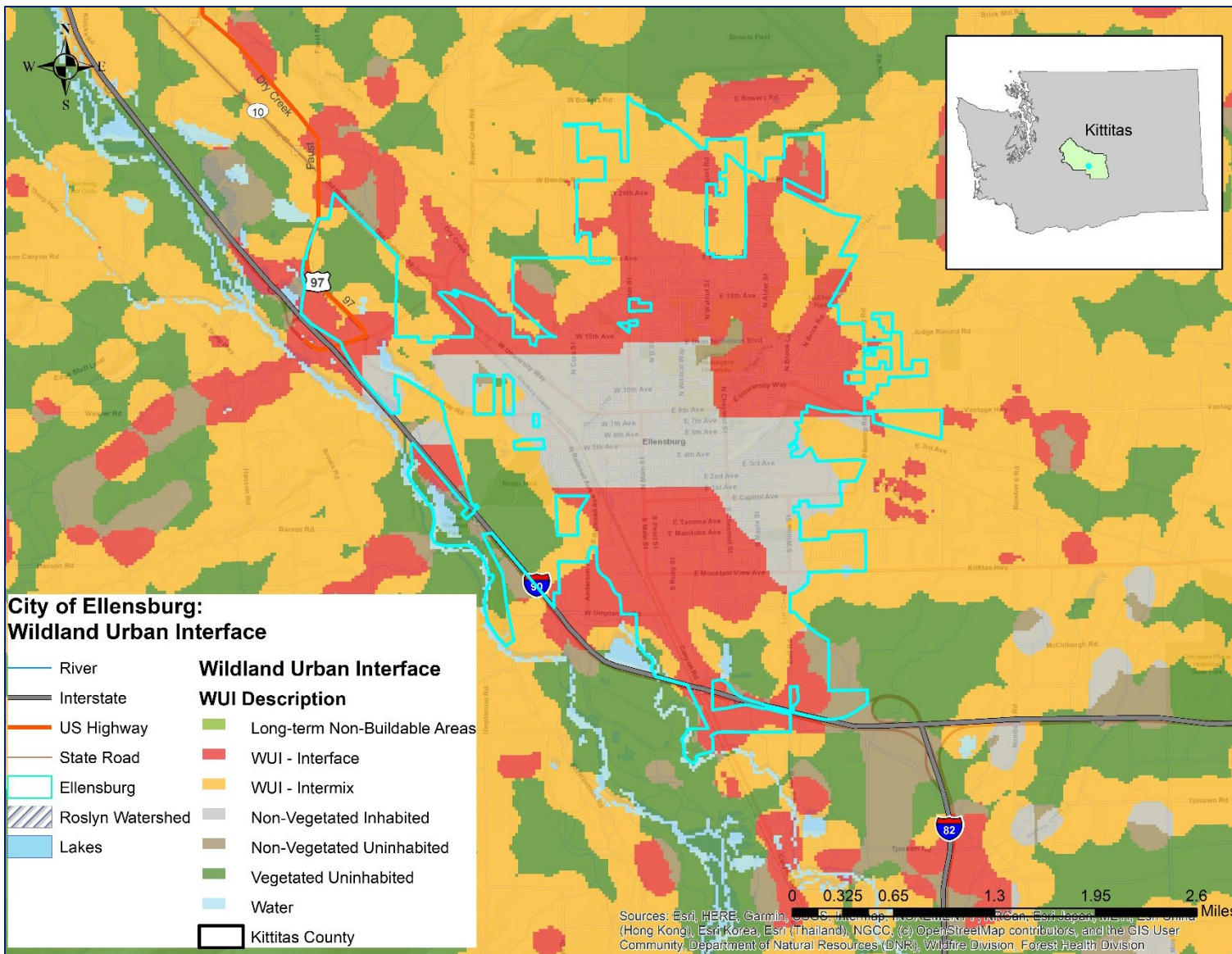


Figure 8. Wildland Urban Interface





APPENDIX B. PLAN ADOPTION

[Placeholder for adoption documentation after State and FEMA Approval]