

CITY OF BURIEN, WASHINGTON

RESOLUTION NO. 431

A RESOLUTION OF THE CITY OF BURIEN, WASHINGTON, ADOPTING THE CITY OF BURIEN PLAN ANNEX TO THE KING COUNTY REGIONAL HAZARD MITIGATION PLAN

WHEREAS, the City is vulnerable to the human and economic costs of natural, technological and societal disasters; and

WHEREAS, the City recognizes the importance of reducing or eliminating those vulnerabilities for the overall good and welfare of the community; and

WHEREAS, the City's representatives and staff have identified, justified and prioritized a number of proposed projects and programs to mitigate the vulnerabilities of Burien to the impacts of future disasters; and

WHEREAS, these proposed projects and programs have been incorporated into the initial edition of the Regional Mitigation Plan (2004) – and subsequent plan updates - that have been prepared and issued for consideration and implementation by the communities of King County; and

WHEREAS, regular revisions and updates to the Plan are required by the Federal Emergency Management Administration,

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF BURIEN, WASHINGTON, DOES RESOLVE AS FOLLOWS:

Section 1. The City Council hereby accepts and approves of the King County Planning Area-Wide Elements and the City of Burien Plan Annex of the Regional Hazard Mitigation Plan, herein included by reference as Exhibit A, and as approved by the Federal Emergency Management Administration (FEMA).

Section 2. The City Manager is requested and instructed to pursue available funding opportunities for implementation of the proposals designated therein.

Section 3. The City of Burien will, upon receipt of such funding or other necessary resources, seek to implement the proposals contained in its section of the strategy.

Section 4. The City of Burien will continue to participate in the periodic updating and expansion of the Regional Hazard Mitigation Plan.

Section 5. The City of Burien will seek to encourage the businesses, industries and community groups operating within and/or for the benefit of the City of Burien to participate in the periodic updating and expansion of the Regional Hazard Mitigation Plan.

Section 6. Effective Date. This resolution shall take effect immediately upon passage by the Burien City Council.

ADOPTED BY THE CITY COUNCIL OF THE CITY OF BURIEN, WASHINGTON, AT A REGULAR BUSINESS MEETING THEREOF THIS 15th DAY OF JUNE, 2020.

CITY OF BURIEN



Jimmy Matta, Mayor

ATTEST/AUTHENTICATED:



Megan Gregor, CMC, City Clerk

Approved as to form:



Garmon Newsom II, City Attorney

Filed with the City Clerk: June 15, 2020
Passed by the City Council: June 15, 2020
Resolution No.: 431

City of Burien Plan Annex

Introduction

Burien is located south of West Seattle, north of the City of Normandy Park, west of the City of SeaTac and east of Vashon Island. It is a 100-year-old waterfront community with six miles of Puget Sound shoreline. Burien is located at the intersection of two major shipping and transportation routes, State Route 509 and State Route 518, and is also located immediately to the west of SeaTac International Airport. Primarily a residential community, a significant percentage of Burien's housing is located on or adjacent to steep slopes overlooking the Puget Sound shoreline.

Climate – Burien has a Mediterranean climate with dry warm summers and mild winters. Over the course of the year, the temperature typically varies from 36°F to 78°F and is rarely below 27°F or above 87°F. The warm season lasts from June 22 to September 12 and cold season from November 13 to March 2.

Community – Burien is a diverse community with more than 50 different languages spoken locally. The largest ethnic groups identify as Latino/Hispanic (24%) and Asian (10%). Burien is home to one of the most walkable cities in Washington State and is highly regarded as a community in which to raise a family.

Development Trends

Burien has a Regional Growth Center (RGC) as designated by the Puget Sound Regional Council (PSRC) that has the opportunity for significant future growth. Included within Burien's RGC is the City's historic downtown area that has a more nostalgic character and has attracted many new local businesses and is considered a "foodie paradise." Adjacent to the downtown and within the RGC are large-scale new residential development units that are part of the mixed-use Burien Town Center development. Residential core density has increased and more development of a similar nature is expected within the RGC. The addition of new residents will likely drive the need for more support businesses to serve the population. Redevelopment of older properties is ongoing and will be expected to continue for the foreseeable future.

Burien is also experiencing large-scale new development in its Northeast Redevelopment Area (NERA) that is located north of SR-518 and adjacent to Des Moines Memorial Drive. NERA has a land use that is Airport Industrial and is developing with businesses that will serve SeaTac Airport nearby. Large refrigerated warehouses have been constructed and are coming online. More airport related development for the area is in the permit process and will continue to strengthen economic viability.

The remainder of Burien is primarily residential with pockets of commercial developments, restaurants, service businesses, and restaurants. New development is occurring sporadically as well as redevelopment of older properties. Residential infill is occurring with single and multi-family units. Burien is becoming more of a destination location as well as a desirable place to live.

Jurisdiction Profile

The City of Burien, located approximately 7 miles south of downtown Seattle on Puget Sound, incorporated on February 28, 1993 and encompasses 13.2 sq. mi. The population of 51,671 (2017) has increased 7.5% since 2013. The local government is Council-Manager form with seven elected councilmembers and a City Manager that is appointed by the Council.



Burien's Comprehensive Plan provides a vision for shaping development over the coming decades. A general assessment of changes to risk and vulnerability due to past development follows. No increased or decreased risk is noted for avalanche, landslide, severe weather, tsunami, volcano, wildfire, civil disturbance, dam failure, hazardous materials incident, or terrorism. Other noted changes include:

Earthquake – updated and improved building codes are expected to decrease hazard risk

Flood – decreased risk as few flood areas exist in Burien and some affected properties have been mitigated

Cyber attack – computer and internet usage has increased dramatically, increasing risk

Public health incident – risk and vulnerability have likely increased (example is COVID-19)

Jurisdiction Point of Contact:

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Title: Public Works Director

Entity: Burien, WA

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Email: MaiyaA@BurienWA.gov

Plan Prepared By:

Name: Robin Tischmak

Title: Deputy Public Works Director

Entity: Burien, WA

Phone: 206-439-3164

Email: RobinT@BurienWA.gov

City of Burien Risk Summary

Hazard Risk and Vulnerability Summary

HAZARD	RISK SUMMARY	VULNERABILITY SUMMARY	IMPACT SUMMARY
Avalanche	Burien is not at risk for avalanches.	N/A	N/A (No Hazard Mitigation Strategy prepared.)
Earthquake	<p>There are no fault zones identified within Burien city limits. There are numerous fault zones located within the Puget Sound area that are at risk for large magnitude earthquakes. Burien is subject to the destructive impacts that can be the result of any significant earthquake in the region. Of recent note, in 2001 a 6.8 magnitude earthquake caused moderate to severe shaking, but with minimal damage. Seismic events larger in magnitude could occur with the possibility of significant injuries, damage or other impacts.</p>	<p>A large magnitude earthquake could affect up to 100% of Burien. Some of the potential damage could include losses such as: personal injury/loss of life, transportation systems, utilities, buildings, landslides, soil liquefaction, property, businesses, regional medical facilities, etc. Language barriers could negatively affect response and recovery efforts due to the City's diverse population. At this time, it is not possible to predict the exact date, duration or magnitude of an earthquake, but this type of event presents the most hazardous risk for the City.</p>	<p>Impacts due to a large seismic event could be widespread.</p> <p>Life/health: Personal injury or death could be significant for various reasons, thus, inundating available medical facilities.</p> <p>Infrastructure damage: Buildings, utilities, transportation systems, and other facilities could be severely damaged.</p> <p>Mobility: Transportation routes and systems may be inoperable making any travel difficult to impossible.</p> <p>Liquefaction damage: Soil liquefaction could cause significant damage to entire neighborhoods and create localized zones of severe damage.</p> <p>Basic life support needs such as heat, electricity, food, shelter, and emergency response may be unavailable due to damaged transportation infrastructure, downed power lines and trees, damage to homes,</p>

			schools, businesses and other related impacts.
Flood	<p>2% of the total land area (excluding Puget Sound shoreline base flood areas) of the city is within the Special Flood Hazard Area. Affected properties are primarily residential with a few park properties included. The city has good floodplain management regulations and has limited development; however, there are some structures already present in the floodplain.</p>	<p>No known repetitive loss or severe repetitive loss properties have been identified. The water-adjacent end of many Puget Sound coastal properties are mapped within flood zones. Most of those properties do not have structures within the flood zone. A number of out-buildings (garages, sheds, etc.) exist within the flood zone as well as a few homes.</p> <p>A closed depression flood zone is mapped near SW 142nd St between Ambaum Blvd SW and 4th Ave SW. Floodway improvements have alleviated flooding of existing structures, but some yards still occasionally flood.</p> <p>A stream near 1st Ave S and S 164th St west of SR-509 includes a mapped flood zone. No structures are known to exist in the floodway.</p>	<p>Burien is fortunate to experience very few flood events. There are no major river systems present within the city limits. Local creeks and streams collect and feed directly into Puget Sound. Most watercourses and conveyance systems have the necessary capacity to avoid flooding. Coastline properties and those within the closed depression that have structures within the floodway will continue to be monitored and will be removed from the floodway or relocated outside the floodway over time.</p>
Landslide	<p>Landslides are capable of moving massive amounts of land, trees, and other material potentially causing death, injury or property damage. Burien's landslide risk areas include the Puget Sound coastal properties, large ravines, and steep slopes along the western edge of the Green/Duwamish River valley. Landslides would typically be caused by unusually heavy seasonal rains or seismic events.</p>	<p>Potential landslides along the Puget Sound coastal properties within Burien are a significant risk as earth movement is documented in some areas. Past slides have threatened or damaged homes. Most of the potential landslide areas within ravines are undeveloped and pose little risk.</p>	<p>Landslides could cause damage and possible injury or death for existing structures that may not have been constructed using adequate soils analysis. New building construction must be permitted based on certified geotechnical analysis and be able to withstand or avoid damage from earth movement.</p>
Severe Weather	<p>Severe weather events can occur throughout the year in Burien. Winter events are typically the most common and pose the greatest risk (See the</p>	<p>Drought, heavy rains, and high winds can negatively affect the entire City. Loss of power can occur citywide and landslides could occur in areas indicated on the hazard map. Residents that are elderly, have medical</p>	<p>Cooling stations can be provided for relief from extreme heat for those vulnerable populations.</p>

	<p>following hazard.) Non-winter events can include extreme heat, drought, heavy rain or high winds. These events are relatively rare and present low risk between May and September.</p>	<p>conditions, or have no air conditioning are the most vulnerable to extreme heat events as is the homeless population.</p>	
Severe Winter Weather	<p>Severe winter weather events in Burien typically occur between the months of October and April. Severe winter weather events can include extreme cold, snow, ice, heavy rain, and high winds.</p>	<p>Life/safety is directly affected when power loss is combined with extreme cold temperatures as heat sources for homes and buildings may not operate. Snow, ice, and high winds add complexities that limit travel during an event. Combination of some or all of these hazards can be extremely dangerous for all of Burien’s residents. The homeless population is especially vulnerable during these events. Residents must be able to shelter in place for an extended period if necessary. Those requiring regular medical treatment are highly vulnerable. Most recently in 2018, multiple different snow events with only short timeframes in between caused roads to be shut down for days and severely limited any travel.</p>	<p>Temporary warming shelters can be established for those needing assistance. Coordination between facilities can be critical to ensure safety and that resources meet the user needs. Transportation can be critical as vehicle operation may be severely limited.</p>
Tsunami	<p>A tsunami or seiche is a sea wave that could cause damage or other impacts to the coastal Puget Sound properties in Burien. A seiche is likely a greater risk to the City and is the same phenomenon as a tsunami, but within a somewhat enclosed body of water such as Puget Sound.</p>	<p>Burien includes nearly 5 miles of Puget Sound coastline within the city limits. Most of those properties are developed residential units with the remaining properties being parks, open space, or undeveloped steep slopes. Few if any businesses are located on Puget Sound within Burien. A tsunami or seiche could result in personal injury/loss of life and/or damage to homes, boats, park amenities, landslides, or any other improvements located adjacent to Puget Sound.</p>	<p>A tsunami or seiche could result in injury/death, property damage, landslides, or other significant impacts to coastal properties within Burien. While it is infeasible to build protection against large sea waves, early warning and evacuation plans should be a priority for this type of hazard.</p>
Volcano	<p>Burien is not at a direct risk for volcano activity. A volcanic event would likely produce some</p>	<p>Direct impacts from ash-fall related to volcanic activity in the Cascade Range would likely affect Burien uniformly.</p>	<p>Vehicle engines could be subject to damage from ash-fall and local businesses would likely</p>

	level of ash-fall in the community.	Breathing in ash-fall could affect 100% of the population, while those with lung related medical conditions would be more at-risk.	be affected by the disruption within the Puget Sound region. Storm water runoff would wash ash into the drainage systems and water courses causing potential damaging effects to water quality and aquatic species. (No Hazard Mitigation Strategy prepared.)
Wildfire	Burien is at low-risk for wildfires. There are very few areas of heavy timber/forest within the City. Creek ravines and undeveloped steep slope hillsides adjacent to Puget Sound contain the most significant stands of trees. Fire season typically runs from July through September. High risk periods usually include long periods of hot, dry weather with dense and uninterrupted fuels - coupled with high winds. Weather patterns meeting all of the criteria listed above are relatively uncommon in King County.	The highest risk for wildfire is typically July through September. Unusually dry summers could create situations where forested areas are at risk of fire and having it spread to adjacent developments. Fires would not be expected to be able to burn out of control for long due to the limited fuel and urban fire response, but significant damage could still occur. Another vulnerability is low air quality due to larger regional fires. Breathing can be difficult for some of the population and is especially dangerous for those with medical conditions.	A few small pockets of forested areas could catch fire when conditions are riskiest. Adjacent structures are also at risk during that time. Those with severe medical conditions, especially with trouble breathing, could be impacted during low air quality events from regional fires. (No Hazard Mitigation Strategy prepared.)
Civil Disturbance	Civil disorders have become a part of the urban environment in Washington State. Civil disorder typically begins as non-violent gatherings. Injuries are usually restricted to police and individuals observed to be breaking the law.	The economic impacts to urban areas during civil unrest and following such events can be profound. Direct impacts include looting and broken windows as well as endangering shop owners and customers. Indirect economic impacts result from the loss of business when potential customers do not approach businesses for extended periods of time. Customer impressions and habits can change from the experience of a single threatening event. King County	Burien has no history of violent civil disorder events occurring. Peaceful gatherings, demonstrations, or other events do take place in public spaces from time to time. City Council meetings have provided a forum for public discussion on sensitive issues in the past. (No Hazard Mitigation Strategy prepared.)

		provides Burien’s police force through contract.	
Cyber Attack	Like other governments and businesses across the nation, Burien relies heavily on computers and networks to conduct its normal business and is therefore susceptible to cyber-attack.	Cyber attacks against computer systems could potentially shut down networks, telephones, or other control operations used to manage City services. City operations could be severely limited or shut down. Computer data could be held hostage for ransom as some cities have experienced. Email systems are regularly used for phishing, spamming, and other data collection efforts.	Cyber attack has become a common occurrence. The City of Burien continually monitors computer networks for intrusions and updates software and security regularly to guard against constantly changing efforts by outside groups and individuals to access or harm computer systems. (No Hazard Mitigation Strategy prepared.)
Dam Failure	Burien residents and properties are not at direct risk of dam failure as there are no dams within close proximity to the city limits nor is any part of the City within an inundation area. However, multiple dams provide water supply to the region (including Burien) and dam failure could indirectly affect the water supply system to the City.	Burien residents, their personal property and real property are not at direct risk from a dam failure. Loss of supply from dam failure by water purveyors would result in severe drinking water and fire response impacts.	No direct loss of life and/or property in Burien would occur from dam failure. Water supply for drinking, fire response, or other needs could be interrupted from water purveyors as a result of dam failure. (No Hazard Mitigation Strategy prepared.)
Hazardous Materials Incident	Hazardous material releases are one of the most common incident types. They are usually minor and locally contained spills – such as fluids from car accidents or leaking containers. Large industrial hazard incidents are less common. Burien is predominantly zoned residential and commercial with only a few small areas of	The predominance of residential and commercial zoning suggest that minor and localized hazardous material incidents could occur. The relatively small industrial areas limit the possibilities of large release incidents. New construction of refrigeration units in the Airport Industrial area should include current safeguards to minimize spills. Local gas stations and commercial storage of small amounts of hazardous materials can expect localized and minor spills on occasion. Significant	Hazardous material releases of any reportable size should be documented and sent to the appropriate agencies. Cleanup efforts should be immediate and effective in containing the spill. Protection of water bodies should be a priority to prevent contamination of our rivers, lakes, streams and groundwater. Response plans should

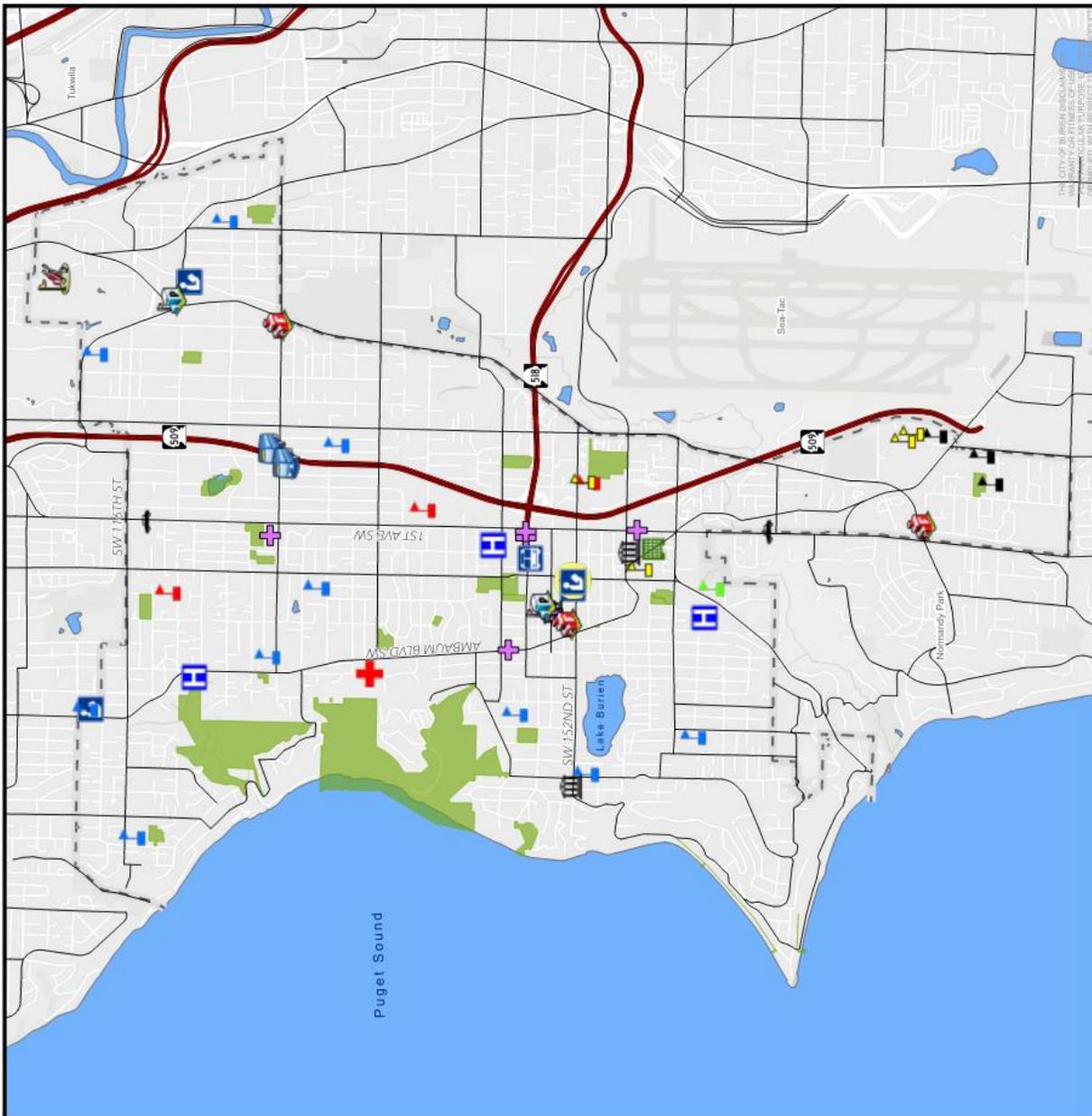
	<p>industrial land use. A newly created Airport Industrial area is currently in development near SR-518 and Des Moines Memorial Drive and a second industrial zone is located adjacent to SR-509 near the south end of the City. There are also two freeways, SR-509 and SR-518 that pass through the city limits.</p>	<p>spills are possible along the freeway routes from trucks carrying hazardous materials.</p>	<p>be developed for implementation related to different types of hazardous material releases.</p> <p>(No Hazard Mitigation Strategy prepared.)</p>
Public Health Incident	<p>Consequences from public health incidents may be direct or indirect and can affect both a local population's health and its health infrastructure. Direct impacts of a public health incident are counted in number of cases, injuries, and fatalities occurring as a result of the incident. Indirect impacts can include stresses on the available, local medical facilities.</p>	<p>All disasters have public health consequences. We are vulnerable to pandemics and outbreaks of different communicable diseases, as well as chronic diseases that increasingly affect the health of the entire population. Especially at risk are the homeless population, low-income residents, and/or any other residents without healthcare insurance. Impacts of public health incidents can be significant, but they can be moderated through proactive planning, practice and evaluation.</p>	<p>Burien has not had any recorded public health incidents. Flu outbreaks are a common concern annually and has been known to cause deaths. Local medical and first responder resources would likely see heavy usage in a public health incident and may require additional resources.</p> <p>(No Hazard Mitigation Strategy prepared.)</p>
Terrorism	<p>Terrorist activities can be wide-ranging, but tend to be located in urban areas. Government buildings or events, stadiums, and public meeting places are often targets that produce substantial news coverage.</p>	<p>Terrorist activities within the U.S. are less common than occur in many other countries, but recent examples have taken place sporadically across the country. An increase in the number and severity of events could happen with little or no notice.</p>	<p>While Burien has no history of terrorist events occurring, the City must remain guarded against possible activities and must keep pace with the region and state for being prepared.</p> <p>(No Hazard Mitigation Strategy prepared.)</p>

City of Burien

Facilities

- Ballot Drop-Off Box
- Building-City Government
- Building-County Government
- Building-Federal Government
- Building-State Government
- City Hall
- Fire Station
- Golf Course
- Hospital or Medical Center
- Library
- Other Transportation Center
- Park and Pool
- Park and Ride
- Police Station
- Public Health Clinic
- School-Alternative
- School-College or University
- School-Elementary
- School-High
- School-Junior High/Middle
- School-Other Facility
- Transit Center
- Pharmacies
- Burien Parks

0 0.25 0.5 1 Miles



Hazard and Asset Overview Map(s)

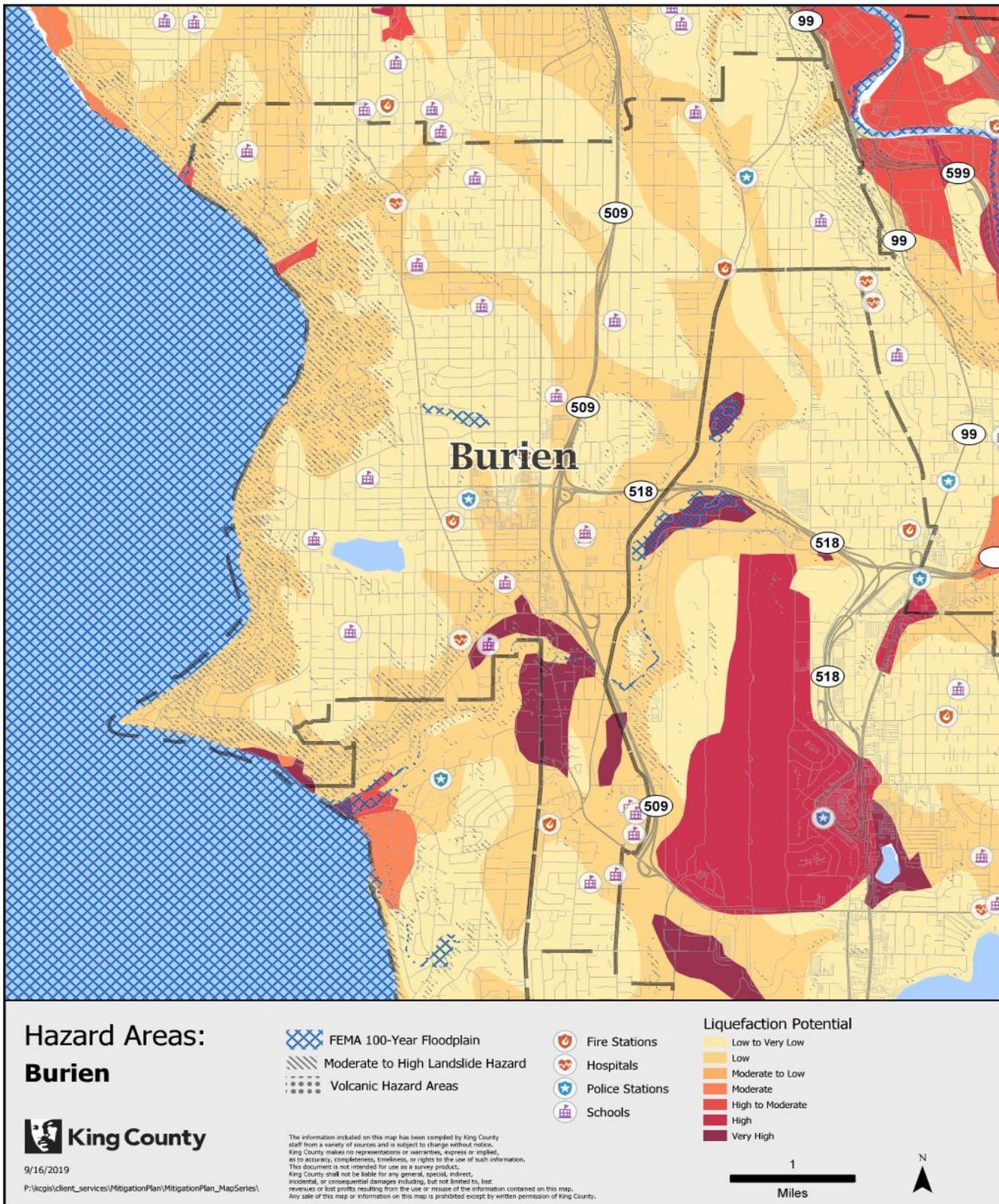


Figure 1: Hazard areas in Burien.

Plan Update Process

The City of Burien has been a partner in the King County Regional Hazard Mitigation Plan since adoption of the original document in 2005. Emergency management responsibilities are assigned to full-time staff that have other primary duties, making the City reliant on assistance and expertise from neighboring agencies and special districts. King County has been particularly helpful as the overall lead agency for the Plan and from the knowledge and experience acquired by its employees.

Burien's plan update process has used the template developed by King County to engage all stakeholders as well as the public in soliciting input. The first effort involved review of the previously adopted annex plan and the recommendations included in it. A review of the hazards and associated risks to Burien established an understanding of the previous action items and helped to identify new ones to be included in the 2020 Plan. A draft of action strategies was developed by agency stakeholders for presentation to the public to initiate discussion and feedback on local priorities. The objective for engaging the public was to provide multiple opportunities for input from a diverse cross-section of the population. Within the limited timeframe available, there were two open house meetings scheduled as well as presentations to both the Human Services Commission and Burien Business & Economic Development Partnership (BEDP). One open house was tailored to the Hispanic community, representing the largest ethnic group present in the City. The two committees selected for presentations represented the human services sector as well as the business community. Another form of outreach came by providing a presence at the City's Farmers Market.

What is valued in our community? Each group provided a different perspective in answering that question. Some of the feedback included: support for local (typically small) business owners after damages from a hazard event, access to medical facilities, access to temporary and safe facilities if necessary, and multi-language communication regarding recovery. This input was fed into the discussion of action plan strategies.

What values are at risk or exposed to hazards? There was consensus that the most vulnerable populations should be given consideration as they typically have the fewest resources and/or most obstacles to overcome in dealing with a disaster. The plan should include strategies that can serve the entire public, but may be predominantly used by the most vulnerable.

How will we protect what we value? The focus of strategy development was first and foremost, life safety. The common theme was to protect the assets that would provide the biggest likely needs after a disaster. The list is extensive, but Burien needs to focus on having facilities that can provide assistance in the event of a disaster. Improvements that would help to better guarantee operation after a hazard event should be a priority.

The draft Hazard Mitigation Plan has been developed using the feedback received during the outreach process. Additional reviews will fine tune the plan prior to adoption by the Burien and King County Councils.

Jurisdiction Planning Team

NAME	TITLE	ORGANIZATION	CONTRIBUTION
Maiya Andrews	Public Works Director	City of Burien	Contributor
Robin Tischmak	Deputy P.W. Director	City of Burien	Composer
Emily Inlow-Hood	Communications Officer	City of Burien	Contributor
Chris Craig	Economic Development Manager	City of Burien	Contributor
Sergio Vasquez	GIS Analyst	City of Burien	Contributor
Mike Marrs	Fire Chief	City of Burien/King Co.	Contributor
Theodore Boe	Police Chief	City of Burien/King Co.	Contributor
Chris Craig	Economic Development Manager	City of Burien	Contributor
Susan McLain	Community Development Director	City of Burien	Contributor
Steven Blake	Building Official	City of Burien	Contributor
Eric Christensen	Finance Department Director	City of Burien	Contributor

Plan Update Timeline

PLANNING ACTIVITY	DATE	SUMMARY	ATTENDEES
Regional Hazard Mitigation Plan Kick-off Meeting (Email notice)	November 28, 2018 December 3, 2018	King County introduced the Regional Hazard Mitigation planning process and timeline. Burien was unable to attend. A follow-up email was distributed with the presentation materials attached. Coordination began with Robin Tischmak for preparing an updated annex plan.	Maiya Andrews
Regional Hazard Mitigation Planning Workshop: Risk Assessments	December 13, 2018	Attended the workshop in Renton and participated in discussion and the break-out session where example risk assessments were prepared and presented to the entire group.	Robin Tischmak

Hazard Mitigation Meeting	April 24, 2019	Met one-on-one with Derrick Hiebert to discuss local agency annex plan requirements, components and timeline.	Robin Tischmak, Derrick Hiebert
Review 2015 Burien Annex	May 2019	Reviewed the 2015 Burien annex plan including hazards, strategies and action plan.	Robin Tischmak
Hazard Mitigation Plan Annex Workshop	June 27, 2019	Attended workshop in Renton. Received updated information and discussed annex plan components and timeline.	Robin Tischmak
Develop Risk Assessments	June - September 2019	Developed risk assessments local to Burien for inclusion in the annex plan.	Robin Tischmak and City of Burien contributors
Draft and Review Annex Plan	July – October 2019	Developed a draft plan and coordinated with other City departments.	Robin Tischmak and City of Burien contributors

Public Outreach

Public Outreach Events

EVENT	DATE	SUMMARY	ATTENDEES
Public Outreach – Open House	September 9, 2019	Staffed an open house at Burien City Hall with graphics and maps to present the Plan to community members and solicit input.	Robin Tischmak, Emily Inlow-Hood, Rio Fernandes and approximately ten drop-ins.
Human Services Committee	September 18, 2019	Presented the Plan update process to committee members, discussed local hazards and solicited input from those in attendance.	Robin Tischmak, Emily Inlow-Hood and approximately eight committee members.
Public Outreach – Open House	September 24, 2019	Staffed an open house at the Burien Community Center Annex with graphics and maps to present the Plan to community members and solicit input. This meeting was specifically geared toward the Hispanic community through the local group	Robin Tischmak, Emily Inlow-Hood and approximately twenty-five drop-ins.

		Para los Niños. An interpreter was provided.	
Business and Economic Development Partnership	September 27, 2019	Presented the Plan update process to local business representatives, discussed local hazards and solicited input from the committee members.	Robin Tischmak, Emily Inlow-Hood, Chris Craig and approximately ten committee members.
Public Outreach – Farmers Market	October 3, 2019	Staffed a booth at the Burien Farmers Market to interact with, provide information to, solicit input from, and answer questions from interested individuals.	Rio Fernandes, Emily Inlow-Hood and approximately twenty plus drop-ins.

City of Burien Hazard Mitigation Program

Hazard mitigation strategies were developed through a two-step process. Each jurisdiction met with an internal planning team to identify a comprehensive range of mitigation strategies. These strategies were then prioritized using a process established at the county level and documented in the base plan.

Hazard mitigation strategies in the City of Burien are managed through a collaborative process involving stakeholders from all the affected departments. Public Works is the lead in developing input for the plan. The City's staff is relatively small and no employees are tasked exclusively with emergency management duties. All sanitary sewer and water infrastructure is owned and operated by utility districts, which are required to develop their own hazard mitigation plans. The Police and Fire Departments are contracted from King County and do not provide a lead role related to the City's emergency management planning. Burien's participating departments include: Public Works, Community Development/Building, Parks and Recreation, Information Services, Finance and the City Manager's Office. Burien relies heavily on coordination with outside agencies and special districts on emergency management issues and strategies.

Plan Monitoring, Implementation, and Future Updates

King County leads the regional hazard mitigation plan monitoring and update process and schedules the annual plan check-ins and bi-annual mitigation strategy updates. Updates on mitigation projects are solicited by the county for inclusion in the countywide annual report. As part of participating in the 2020 update to the Regional Hazard Mitigation Plan, Burien agrees to convene their internal planning team at least annually to review their progress on hazard mitigation strategies and to update the plan based on new data recent disasters.

Hazard mitigation is most effective when implemented through a systematic program with the understanding that system-wide participation is necessary. On the city level for Burien, mitigation implementation involves the partners and stakeholders listed above. Cohesive, comprehensive strategies are key to a successful program. Program strategies are then implemented within individual projects when appropriate opportunities arise. Plan and project integration helps ensure partners and stakeholders use the best available data that supports the local and regional mitigation goals. Successful integration requires coordination between different plans and cross-participation in planning and permitting processes. The hazard mitigation plan can benefit from integration with other planning processes that regulate development, establish direction for programs, and prioritize/invest in infrastructure. Burien will implement the hazard mitigation plan by using the risk and vulnerability information to help prioritize projects and set development standards or regulations. There are a number of City plans and planning processes that impact hazard risk. These include the plans, programs, policies and processes identified in the following tables. Each item listed includes a description of its relationship to the hazard mitigation plan. Burien will integrate the mitigation plan goals and actions into these documents either through revisions or at the time new plans are developed for adoption. The permitting process and project planning processes have, since the last hazard mitigation plan update, included review of hazard risks (on an informal basis) through the review and

Plan Goals

1. Access to Affordable, Healthy Food
2. Access to Health and Human Services
3. Access to Parks and Natural Resources
4. Access to Safe and Efficient Transportation
5. Affordable, Safe, Quality Housing
6. Community and Public Safety
7. Early Childhood Development
8. Economic Development.
9. Equitable Law and Justice System
10. Equity in Government Practices
11. Family Wage Jobs and Job Training
12. Healthy Built and Natural Environments
13. Quality Education
14. Strong, Vibrant Neighborhoods

or

approval process. Burien’s implementation plan will include developing a process to more formally identify hazard risks and any proposed mitigation related to new projects and development.

As part of leading a countywide planning effort, King County Emergency Management will send to Burien any federal notices of funding opportunity for the Hazard Mitigation Assistance Grant Program. Proposals from partners will be assessed according the prioritization process identified in this plan and the county will, where possible, support those partners submitting grant proposals. This will be a key strategy to implement the plan.

The next plan update is expected to be due in April 2025. All jurisdictions will submit letters of intent by 2023, at least two years prior to plan expiration. The county will lead the next regional planning effort, beginning at least 18 months before the expiration of the 2020 plan.

Continued Public Participation

King County and its partner cities already maintain substantial public outreach capabilities, focusing on personal preparedness and education. Information on ongoing progress in implementing the hazard mitigation plan will be integrated into public outreach efforts. This will provide Burien residents, already engaged in personal preparedness efforts, with context and the opportunity to provide feedback on the City’s progress and priorities in large-scale mitigation. In the vertical integration of risk-reduction activities from personal to local to state and federal, it is important that the public understand how its activities support, and are supported by, larger-scale efforts.

The outreach and mitigation teams will also continue to work with media and other agency partners to publicize mitigation success stories and help explain how vulnerabilities are being fixed. When possible, public tours of mitigation projects will be organized to allow community members to see successful mitigation in action.

Hazard Mitigation Authorities, Responsibilities, and Capabilities

Plans

PLAN TITLE	RESPONSIBLE AGENCY	POINT OF CONTACT	RELATIONSHIP TO HAZARD MITIGATION PLAN
Comprehensive Plan	Burien Department of Community Development	Susan McLain	Provides short and long-range guidance for land development in Burien
Comprehensive Emergency Management Plan	Burien Emergency Management	Maiya Andrews	The Hazard Mitigation Plan provides the risk profiles that support the development of the CEMP
Capital Improvement Plan	Burien Finance Department	Eric Christensen	Identifies, prioritizes and funds large-scale projects
Stormwater Management Plan	Burien Public Works Department	Maiya Andrews	Provides guidance related to stormwater runoff and flooding
Shoreline Management Plan	Burien Department of Community Development	Susan McLain	Provides guidance for development along shorelines
Economic Development Strategic Plan	Burien Economic Development	Chris Craig	Provides guidance related to business impacts, economic investment strategies and future development vision

Transportation Improvement Program	Burien Public Works Department	Maiya Andrews	Establishes transportation project priorities and provides a plan for funding them
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Programs, Policies, and Processes

PROGRAM/POLICY	RESPONSIBLE AGENCY	POINT OF CONTACT	RELATIONSHIP TO HAZARD MITIGATION PLAN
Building Codes	Burien Building Division	Steven Blake	Current Building regulations
Emergency Management Program	Burien Emergency Management	Maiya Andrews	Plan coordination
Critical Areas Ordinance	Burien Community Development Department	Susan McLain	Regulates activities in critical areas
Burien Design and Construction Standards	Burien Public Works Department	Maiya Andrews	Regulates construction standards.
Land Use Code	Burien Community Development Department	Susan McLain	Regulates all building activities in Burien.
National Flood Insurance Program	Burien Community Development Department	Chad Tibbits	The NFIP insures properties in and around the floodplain.
Zoning	Burien Community Development Department	Susan McLain	Zoning regulations.

Entities Responsible for Hazard Mitigation

AGENCY/ORGANIZATION	POINT OF CONTACT	RESPONSIBILITY(S)
Public Works	Maiya Andrews	Lead role in emergency management, implementation of construction projects, and maintenance activities.
Community Development	Susan McLain	Building and land use code development, maintenance and updates.
Office of the City Manager	Brian Wilson	Overall plan execution.
Parks, Recreation and Cultural Services	Casey Stanley	Operation of the Burien Community Center.

National Flood Insurance Program

National Flood Insurance Program Compliance

What department is responsible for floodplain management in your community?	Community Development
Who is your community's floodplain administrator? (title/position)	Planner/Community Development

What is the date of adoption of your flood damage prevention ordinance?	1993, updated 1999, 2003, 2004 & 2011
When was the most recent Community Assistance Visit or Community Assistance Contact?	July 2, 2004
Does your community have any outstanding NFIP compliance violations that need to be addressed? If so, please state what they are?	No
Do your flood hazard maps adequately address the flood risk within your community? If so, please state why.	Yes
Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of training/assistance is needed?	No
Does your community participate in the Community Rating System (CRS)? If so, what is your CRS Classification and are you seeing to improve your rating? If not, is your community interested in joining CRS?	No
How many Severe Repetitive Loss (SRL) and Repetitive Loss (RL) properties are located in your jurisdiction?	SRL: None RL: None
Has your community ever conducted an elevation or buy out of a flood-prone property? If so, what fund source did you use? If not, are you interested in pursuing buyouts of flood prone properties?	No

Hazard Mitigation Strategies

2015 Hazard Mitigation Strategy Status

STRATEGY	DESCRIPTION	PRIORITY	STATUS
Structural Evaluation of the Burien Community Center	Evaluate the Burien Community Center and annex buildings for retrofits or upgrades as a key facility for use following a disaster.	High New Priority - #BU-2-15 (2015 Priority - #BU-1)	Ongoing
Provide Standby Power Generator at the Burien Community Center	Provide standby power generator to provide stable facility for use following a disaster.	Moderate New Priority - #BU-3-15 (2015 Priority - #BU-2)	Ongoing
New Public Works Maintenance Facility	Design and construct a new Public Works maintenance facility in order to provide desired maintenance service	High New priority - #BU-1-15 (2015 Priority - #BU-3)	Partial funding has been appropriated. Looked at opportunities to partner. Preliminary siting analysis is underway.

levels and an Emergency Operations Center.

2020 Hazard Mitigation Strategies

STRATEGY	LEAD AGENCY/POC	TIMELINE	PRIORITY
Earthquake	Burien/Maiya Andrews & Robin Tischmak	2020 - 2025	#BU-1-20
Severe Weather/Severe Winter Weather	Burien/Maiya Andrews & Robin Tischmak	2020 - 2025	#BU-1-20
Landslide	Burien/Maiya Andrews & Robin Tischmak	2020 - 2025	#BU-2-20
Flood	Burien/Maiya Andrews & Robin Tischmak	2020 - 2025	#BU-3-20
Tsunami	Burien/Maiya Andrews & Robin Tischmak	2020 - 2025	#BU-4-20

Strategy #BU-1-15 – New Public Works Maintenance Facility

Lead Point of Contact: Burien – Public Works Director	Partner Points of Contact: <ul style="list-style-type: none"> • Potential Shared Site Partner(s) • King County 	Hazards Mitigated / Goals Addressed: <ul style="list-style-type: none"> • All Hazards • Goals 6, 10, 12 	Funding Sources/ Estimated Costs: <ul style="list-style-type: none"> • General Fund • \$11.5 M
Strategy Vision/Objective Design and build a new Public Works maintenance facility that will include an Emergency Operations Center. The new facility will provide desperately needed maintenance buildings and space adequate for staff and equipment to perform citywide maintenance duties. The City will greatly improve its ability to respond to emergencies.			
Mitigation Strategy Construct a new facility that will provide basic citywide maintenance needs for many years. Provide an Emergency Operations Center that will allow the City to respond to emergency situations as well as regional support within King County.			
2-Year Objectives <ul style="list-style-type: none"> • Fund project • Select a site • Complete design • Begin construction 	5-Year Objectives <ul style="list-style-type: none"> • Complete construction • Move both Public Works and Parks maintenance staff into new facility • Begin maintenance operations out of the new facility • Staff and equip Emergency Operations Center 	Long-Term Objectives <ul style="list-style-type: none"> • Long-term base of operations for maintenance and an Emergency Operations Center 	
Implementation Plan/Actions The City has been budgeting for a new maintenance facility as well as considering advantageous partnerships that could include additional services in a cost effective manner. The project is included in the City’s Capital Improvement Program to start in 2020.			
Performance Measures Continue to provide funding and secure a suitable site to allow the project to move forward in 2020.			

Strategy #BU-2-15 – Structural Evaluation of the Burien Community Center

Lead Point of Contact: Burien – Parks & Recreation Director	Partner Points of Contact: <ul style="list-style-type: none"> Public Works Director 	Hazards Mitigated / Goals Addressed: <ul style="list-style-type: none"> All Hazards Goals 3, 6, 7, 10, 14 	Funding Sources/ Estimated Costs: <ul style="list-style-type: none"> General Fund \$250 K
Strategy Vision/Objective Evaluate the Burien Community Center and make a recommendation on necessary retrofits or replacement for use as an essential facility following a disaster.			
Mitigation Strategy Contract with a structural engineering firm to evaluate the condition of the existing Community Center. Having a safe and reliable facility for normal use as well as for recovery following a disaster is a key to mitigating community impacts.			
2-Year Objectives <ul style="list-style-type: none"> Fund project Perform structural analysis Evaluate options Recommend a course of action 	5-Year Objectives <ul style="list-style-type: none"> Construct retrofit improvements (if recommended option) Program a project to replace building and begin funding (if recommended option) 	Long-Term Objectives <ul style="list-style-type: none"> A long-term essential facility for recovery following a disaster 	
Implementation Plan/Actions Minor renovations have been completed converting the former library into a Community Center. A condition study has been initiated into Community Center annex buildings to determine functionality. Funding for the structural evaluation needs to be programmed. A consultant needs to be selected and evaluation completed.			
Performance Measures Work toward funding the structural evaluation, hiring a consultant, and completing the study by the end of 2021.			

Strategy #BU-3-15 – Provide Standby Power @ Burien Community Center

Lead Point of Contact: Burien – Parks & Recreation Director	Partner Points of Contact: <ul style="list-style-type: none"> Public Works Director 	Hazards Mitigated / Goals Addressed: <ul style="list-style-type: none"> All Hazards Goals 3, 6, 7, 10, 14 	Funding Sources/ Estimated Costs: <ul style="list-style-type: none"> General Fund \$200 K
Strategy Vision/Objective Provide standby power sufficient to operate critical systems at the Burien Community Center in event of loss of electrical power. This is considered an essential facility for recovery services following a disaster.			
Mitigation Strategy Design and install a generator sufficient to operate critical systems at the Burien Community Center that would allow it to operate during recovery after a disaster.			
2-Year Objectives <ul style="list-style-type: none"> Fund project Perform design analysis Evaluate options Recommend a course of action 	5-Year Objectives <ul style="list-style-type: none"> Install generator 	Long-Term Objectives <ul style="list-style-type: none"> A long-term essential facility for recovery following a disaster 	
Implementation Plan/Actions Minor renovations have been completed converting the former library into a Community Center. A condition study has been initiated into Community Center annex buildings to determine functionality. Funding for the structural evaluation needs to be programmed. A consultant needs to be selected and evaluation completed.			
Performance Measures Work toward funding the generator installation, hiring a consultant, and completing the work by the end of 2021.			

Strategy #BU-1-20 – Earthquake

Lead Point of Contact: Burien – Public Works Director	Partner Points of Contact: <ul style="list-style-type: none"> • King County • State of Washington 	Hazards Mitigated / Goals Addressed: <ul style="list-style-type: none"> • Earthquake • Goals 1, 2, 4, 5, 6, 8, 10 	Funding Sources/ Estimated Costs: <ul style="list-style-type: none"> • General Fund • Unknown
Strategy Vision/Objective Continue to update building codes, regulate development within areas subject to liquefaction potential, and coordinate with King County, the State of Washington and other jurisdictions on regional response efforts and preparedness.			
Mitigation Strategy Update building codes and development codes regularly to incorporate current guidelines and requirements. Participate in regional and statewide training for responding to a seismic event. Develop response plans and integrate them into codes, other plans, ordinances and programs.			
2-Year Objectives <ul style="list-style-type: none"> • Establish an Emergency Operations Center (EOC) at the new Public Works Maintenance facility 	5-Year Objectives <ul style="list-style-type: none"> • Develop a response plan to be used in building a safe and resilient community and for a coordinated, effective response after a significant seismic event 	Long-Term Objectives <ul style="list-style-type: none"> • Minimize damage and impacts due to a moderate to severe seismic event 	
Implementation Plan/Actions Update codes regularly to stay current with seismic designs and development standards. Identify City staff as emergency responders, provide regional and statewide training opportunities, and develop an organizational chart providing essential duties and a chain of command.			
Performance Measures Successful establishment of an EOC and development of a response plan that is integrated into all aspects of City business and can be shared with other jurisdictions and the public.			

Strategy #BU-1-20 – Severe Weather/Severe Winter Weather

Lead Point of Contact: Burien – Public Works Director	Partner Points of Contact: <ul style="list-style-type: none"> • King County • WSDOT • City of SeaTac • City of Normandy Park 	Hazards Mitigated / Goals Addressed: <ul style="list-style-type: none"> • Severe Weather • Goals 4, 6, 10 	Funding Sources/ Estimated Costs: <ul style="list-style-type: none"> • General Fund • Unknown
Strategy Vision/Objective Continue to provide reliable response efforts related to severe weather events (snow, ice, etc.) and improve methods and efficiencies where possible.			
Mitigation Strategy Identify equipment needs, centralize operations from the proposed new Public Works Maintenance Facility, improve operational efficiencies where possible, and provide relevant information to the public in a timely fashion.			
2-Year Objectives <ul style="list-style-type: none"> • Identify equipment needs • Identify areas to improve efficiency and processes 	5-Year Objectives <ul style="list-style-type: none"> • Operate from the new Public Works Maintenance Facility • Obtain needed equipment 	Long-Term Objectives <ul style="list-style-type: none"> • Acquire, maintain and replace equipment • Improve operations where possible 	
Implementation Plan/Actions Train maintenance employees on responding to severe weather events and acquire all appropriate equipment to serve the community. Establish plans and equipment staging at the new Maintenance Facility. Acquire feedback after events in order to implement improvements to operations as appropriate.			
Performance Measures Train all available and appropriate staff as necessary. Move into the new Maintenance Facility. Develop and update operational plans regularly.			

Strategy #BU-2-20 – Landslide

Lead Point of Contact: Burien – Public Works Director	Partner Points of Contact: <ul style="list-style-type: none"> King County 	Hazards Mitigated / Goals Addressed: <ul style="list-style-type: none"> Landslide Goals 5, 6, 12, 14 	Funding Sources/ Estimated Costs: <ul style="list-style-type: none"> General Fund Unknown
Strategy Vision/Objective Continue to monitor moderate to high landslide hazard areas throughout the City. Take appropriate action as necessary.			
Mitigation Strategy Monitor susceptible areas after significant events for signs or evidence of movement. Control development in and near landslide hazard areas.			
2-Year Objectives <ul style="list-style-type: none"> Continue to monitor hazard areas Control development in hazard areas 	5-Year Objectives <ul style="list-style-type: none"> Monitor landslide activities Identify any new hazard areas Control development in hazard areas 	Long-Term Objectives <ul style="list-style-type: none"> Reduce and/or eliminate injuries and damage to property in landslide hazard areas 	
Implementation Plan/Actions Monitor existing identified landslide hazard areas. Stabilize landslides on City owned or controlled properties to the extent possible. Restrict new development in hazard areas to prevent damage or loss of new property investments.			
Performance Measures Continue monitoring landslide hazard areas. Minimize damage and/or losses due to landslide activity.			

Strategy #BU-3-20 – Flood

Lead Point of Contact: Burien – Public Works Director	Partner Points of Contact: <ul style="list-style-type: none"> • King County • FEMA 	Hazards Mitigated / Goals Addressed: <ul style="list-style-type: none"> • Flood • Goals 3, 4, 5, 6, 8, 12, 14 	Funding Sources/ Estimated Costs: <ul style="list-style-type: none"> • General Fund • Unknown
Strategy Vision/Objective Reduce or eliminate damages due to flooding in identified hazard areas.			
Mitigation Strategy Only one identified floodplain area is identified in Burien. Several areas near creeks are also identified, but development of these areas is not possible. The single depressed area has restrictions on new development and existing problem properties are being monitored. Improvements to reduce flooding impacts have been implemented and additional improvements will be implemented where feasible.			
2-Year Objectives <ul style="list-style-type: none"> • Monitor and record flood events • Record any damage claims • Require certification of any repairs to be above or outside the floodplain 	5-Year Objectives <ul style="list-style-type: none"> • Restrict development in flood hazard areas • Require any new development to be certified above flood elevation 	Long-Term Objectives <ul style="list-style-type: none"> • Eliminate all development in floodplain areas in order to minimize damage claims 	
Implementation Plan/Actions Continue to implement current regulations that prevent new development from occurring within the floodplain. Correct any current deficiencies when opportunity arises.			
Performance Measures Reduced or eliminated flood damage claims citywide.			

Strategy #BU-4-20 – Tsunami

Lead Point of Contact: Burien – Public Works Director	Partner Points of Contact: <ul style="list-style-type: none"> • King County • Burien residents 	Hazards Mitigated / Goals Addressed: <ul style="list-style-type: none"> • Tsunami • Goals 4, 5, 6, 8, 12, 14 	Funding Sources/ Estimated Costs: <ul style="list-style-type: none"> • General Fund • \$25 K
Strategy Vision/Objective Develop a plan to deal with impacts to the shoreline areas adjacent to Puget Sound in the event of a tsunami.			
Mitigation Strategy Develop a plan that, in the event of a tsunami, provides warning to those potentially impacted, establishes evacuation routes, and for response after an event.			
2-Year Objectives <ul style="list-style-type: none"> • Develop a plan to mitigate impacts due to a tsunami 	5-Year Objectives <ul style="list-style-type: none"> • Implement plan 	Long-Term Objectives <ul style="list-style-type: none"> • Mitigate potential impacts to Puget Sound shoreline areas in the event of a tsunami 	
Implementation Plan/Actions Research potential impacts to the City of Burien from the effects of a tsunami. Develop a plan using City staff or consultants. Implement recommendations from the final plan.			
Performance Measures Development of a plan and implementation of any recommendations.			