

Chapter 4.City of Brisbane

4.1 Hazard Mitigation Plan Point of Contact

Primary Point of Contact

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4.2 Jurisdiction Profile

The following is a summary of key information about the jurisdiction and its history:

- Date of Incorporation—November 27, 1961.
- Current Population 4,699 (as of January 1, 2016 CA DOF)
- ❖ Population Growth—The population of Brisbane grew 8.9-percent between the 2010 U.S. Census population of 4,282 and the estimated projection from the California Department of Finance for January 1, 2016. The Association of Bay Area Governments (ABAG)'s Projections 2009 predicts that Brisbane's population will grow to 5,300 in 2020, and to 7,700 in 2035.
- ❖ Location and Description—The city is located on the western edge of San Francisco Bay, with a western boundary generally delineated by San Bruno Mountain. Neighboring agencies to the north include Daly City and the City & County of San Francisco. South San Francisco is at the city's southern limit. Although the city's total land base is listed as 20.44 sq. miles, 17 sq. miles of this amount is covered by the San Francisco Bay; the city's eastern boundary with Contra Costa County is located in the Bay. The city is commonly identified as being located at latitude 37.69°N longitude 122.39°W.
- * Brief History— Brisbane was originally part of the Rancho Canada de Guadalupe la Visitacion y Rodeo Viejo, a large tract of land that included Guadalupe Valley, the Bayshore District of Daly City, the Visitacion Valley District of San Francisco and San Bruno Mountain. Visitacion City, as Brisbane was originally known, was surveyed in 1908, adjacent to a new Southern Pacific Railroad line that offered a faster and more direct route to San Francisco. The town site remained largely undeveloped for many years, largely due to the "Panic of 1907," a nationwide financial banking crisis/economic recession. During the 1920s, the area's name was changed to Brisbane. Growth occurred slowly by 1940, the town had grown to a population of just 2,500. The subject of home rule and city formation was a controversial subject among Brisbane residents during the 1940s and 1950s with some residents desiring a stronger voice in local politics, while others were concerned about losing their town's close-knit charm to another layer of government. Finally, an incorporation committee was formed in 1960, and after six months of study, recommended that the town vote to incorporate





- a 2.5 square mile area. On September 12, 1961, the residents of Brisbane supported the incorporation committee's recommendations, with 710 residents voting in favor of incorporation and 296 opposed.
- Climate—Brisbane's climate is mild during summer when temperatures tend to be in the 60's and cool during winter when temperatures tend to be in the 50's. The warmest month of the year is September with an average maximum temperature of 72.70 degrees Fahrenheit, while the coldest month of the year is January with an average minimum temperature of 42.90 degrees Fahrenheit. Temperature variations between night and day tend to be limited during summer with a difference that can reach 16 degrees Fahrenheit, and fairly limited during winter with an average difference of 13 degrees Fahrenheit.

The annual average precipitation at Brisbane is 20.11 inches. Winter months tend to be wetter than summer months. The wettest month of the year is January with an average rainfall of 4.45 Inches. Brisbane's relative location to San Bruno Mountain tends to deflect seasonal fog to the north and south away from the city.

- Governing Body Format—Council/Manager (five member City Council elected at large; Mayor is chosen every year by the Council). The City Manager is appointed by the City Council as Chief Administrator. The City has two standing commissions and three committees whose members are appointed by the City council. A full description of the Council, Commissions, and Departments can be found under the "City Government" tab at www.brisbaneca.org. The City Council will by Resolution adopt the final approved version of the Brisbane Annex to the San Mateo County LHMP. The City's Office of Emergency Services will oversee the implementation and regular update of the plan.
- Development Trends— Anticipated development levels are low to moderate for the 5-year plan period, and that development would primarily occur as infill. A total of 389 potential infill housing sites were identified through either current zoning or rezoning in the City's 2015-2022 Housing Element. The primary opportunity for new housing has been identified at the City's center. The City is currently undertaking efforts to develop a precise plan and establish zoning at the City's center, adjacent to the Community Park and the existing downtown neighborhood commercial districts, to allow for redevelopment of warehouse sites to residential and mixed use (i.e. Parkside at Brisbane Precise Plan). That would include 228 of the 389 units identified in the Housing Element. Similarly, there are a limited number of commercial sites that remain vacant and may potentially be developed as infill over the next 5 years. These primarily consist of three large, vacant sites within the Sierra Point subarea, east of U.S. Highway 101, two of which received planning entitlements several years ago but have not yet applied for building permits. These two sites combined would include approximately 1 million square feet of research and development and commercial office. In addition, along Bayshore Boulevard, there are a number of smaller sites that could potentially accommodate commercial development, but due to site constraints, interest in development of these sites has been low. Finally, the City is currently processing a programmatic Environmental Impact Report for the Brisbane Baylands, a roughly 600-acre former railyard and landfill site located between U.S. 101 and Bayshore Boulevard, comprising most of the northern part of the City. The applicant's proposal would include approximately 7 million square feet of in commercial, retail, office, institutional, R &D and entertainment uses and 4,434 housing units. The study of alternatives to the applicant's proposal are also part of that EIR and these would have either similar or less



development intensity. However, the EIR has not yet been certified and entitlements have not been granted by the City. Given the scale of the development and the stage in the entitlement process, it is not anticipated that development of the Baylands would begin within this plan period.

4.3 Capability Assessment

An assessment of legal and regulatory capabilities is presented in Table 4-1. An assessment of fiscal capabilities is presented in Table 4-2. An assessment of administrative and technical capabilities is presented in Table 4-3. Information on National Flood Insurance Program (NFIP) compliance is presented in Table 4-4. Classifications under various community mitigation programs are presented in Table 4-5. An assessment of education and outreach capabilities is presented in Table 4-6.

TABLE 4-1. LEGAL AND REGULATORY CAPABILITY

	Local Authority	Other Jurisdiction Authority	State Mandated	
Building Code	Yes	No	Yes	
Comment : Title 15 of Brisbane Municipal Code (BMC), first adopted 1989 w 4/7/16)	ith regular re	evisions therea	fter (latest	
Zoning Code	Yes	No	Yes	
Comment: Title 17 BMC first adopted 1998 with regular revisions thereafter	r (latest revis	ion 4/21/16)		
Subdivisions	Yes	No	Yes	
Comment: Title 16 BMC first adopted 1982 with regular revisions thereafter	r (latest revis	ion 10/7/13)		
Stormwater Management	Yes	No	Yes	
Comment: Chapter 13.06 BMC first adopted 1998 with regular revisions the	reafter1994	(latest revisior	n 3/19/02)	
Post-Disaster Recovery	Yes	No	Yes	
Comment: Chapter 2.28 BMC first adopted 1975 with regular revisions then	eafter (latest	revision 1/18	/11)	
Real Estate Disclosure	No	No	Yes	
Comment : CA. State Civil Code 1102 requires full disclosure on Natural haza real property.	ard Exposure	of the sale/re	sale of all	
Growth Management	Yes	No	Yes	
Comment: General Plan, 1994				
Site Plan Review	Yes	No	Yes	
Comment: multiple chapters in Title 15 BMC provide site plan review require	rements			
Environmental Protection	Yes	No	Yes	
Comment: the city complies with state (CEQA) and federal requirements (NEPA)				
Flood Damage Prevention	Yes	No	Yes	
Comment: Chapter 15.56 BMC first adopted 1988 with regular revisions thereafter (latest revision 2/23/15)				
Emergency Management	Yes	No	Yes	
Comment : Chapter 2.28 BMC first adopted 1975 with regular revisions thereafter (latest revision 1/18/11)				
Climate Change	Yes	No	No	
Comment: Climate Action Plan adopted 2015				





TABLE 4-1. LEGAL AND REGULATORY CAPABILITY

	Local Authority	Other Jurisdiction Authority	State Mandated
Other	No	Yes	No
Comment : currently participating in county-led Sea Level Rise Vulnerability	study		
General or Comprehensive Plan	Yes	No	Yes
Is the plan equipped to provide linkage to this mitigation plan?			
Comment : The Conservation Element, Housing Element, and the Safety Eleappropriate linkage to the LHMP	ment of the C	General Plan pr	ovide
Capital Improvement Plan	Yes	No	No
What types of capital facilities does the plan address?			
How often is the plan updated?			
Comment : The CIP covers all public facilities under the city's jurisdiction. T	he CIP is updo	ated annually.	
Floodplain or Watershed Plan	Yes	No	No
Comment: 2003 Storm Drainage Master Plan	_		
Stormwater Plan	Yes	No	No
Comment: 2003 Storm Drainage Master Plan			
Habitat Conservation Plan	No	Yes	No
Comment : Significant portions of Brisbane fall within the San Bruno Moun	tain HCP esta	blished in 1982	?
Economic Development Plan	Yes	No	Yes
Comment : Chapter 4 "Local Economic Development" of the 1994 General I	Plan		
Shoreline Management Plan	No	Yes	No
Comment : managed by the San Francisco Bay Conservation and Developm	ent Commissi	ion, created in	1965
Community Wildfire Protection Plan	No	Yes	No
Comment : North County Fire Authority 2004 Wildland Pre-Fire Attack Plan			
Forest Management Plan	Yes	No	No
Comment : 2007 Vegetation Management Strategic Plan and Street Tree In	nventory Sumi	mary Report	
Climate Action Plan	Yes	No	No
Comment: Climate Action Plan adopted 2015			
Other	No	No	No
Comment:			
Comprehensive Emergency Management Plan	Yes	No	No
Comment: 2015 Emergency Operations Plan (EOP)			
Threat & Hazard Identification & Risk Assessment	No	Yes	No
Comment: Appendix to 2015 EOP - completed by San Mateo County OES			
Post-Disaster Recovery Plan	Yes	No	No
Comment: 2015 Emergency Operations Plan (EOP)			
Continuity of Operations Plan	Yes	No	No
Comment: 2015 Emergency Operations Plan (EOP)			
Public Health Plan	No	Yes	No
Comment : San Mateo County Environmental Health has countywide respo	nsibility for de	evelopment of	this plan





TABLE 4-2. FISCAL CAPABILITY

Financial Resources	Accessible or Eligible to Use?
Community Development Block Grants	No
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	Yes - per requirements of CA Prop 218
User Fees for Water, Sewer, Gas or Electric Service	Yes - various fees across the utilities
Incur Debt through General Obligation Bonds	Yes
Incur Debt through Special Tax Bonds	Yes
Incur Debt through Private Activity Bonds	Yes
Withhold Public Expenditures in Hazard-Prone Areas	Yes, but no withholdings enacted
State-Sponsored Grant Programs	Yes (e.g., CalOES HMGP)
Development Impact Fees for Homebuyers or Developers	Yes
Other	No

TABLE 4-3. ADMINISTRATIVE AND TECHNICAL CAPABILITY

Staff/Personnel Resources	Available?	Department/Agency/Position
Planners or engineers with knowledge of land development and land management practices	Yes	Public Works - Director Community Development - Director
Engineers or professionals trained in building or infrastructure construction practices	Yes	Public Works Director Community Development - Building Official
Planners or engineers with an understanding of natural hazards	Yes	Public Works - Director Community Development - Director
Staff with training in benefit/cost analysis	Yes	Public Works - Senior Civil Engineer
Surveyors	Yes	All surveying provided under contract
Staff capable of making substantial damage estimates	Yes	Public Works - Director Public Works - Senior Civil Engineer
Personnel skilled or trained in GIS applications	Yes	Public Works - Engineering Technician
Scientist familiar with natural hazards in local area	Yes	Utilize resources of local USGS staff
Emergency manager	Yes	Office of Emergency Services
Grant writers	Yes	Administrative Services - Management Analyst

TABLE 4-4. NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

Criteria	Response
When did the community enter the NFIP?	3/9/83
When did the Flood Insurance Rate maps become effective?	3/29/83
What local department is responsible for floodplain management?	Public Works
Who is your floodplain administrator? (department/position)	Community Development/Building Official





TABLE 4-4. NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

Criteria	Response
Is this a primary or auxiliary role?	Auxiliary
Are any certified floodplain managers on staff in your jurisdiction?	No
What is the date of adoption of your flood damage prevention ordinance?	Latest revision 2/23/15
 Does your floodplain management program meet or exceed minimum requirements? 	Meet
When was the most recent Community Assistance Visit or Community Assistance Contact?	4/25/14
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed?	No
Do your flood hazard maps adequately address the flood risk within your jurisdiction?	Yes
Does your floodplain management staff need any assistance or training to support its floodplain management program?	No
Does your jurisdiction participate in the Community Rating System (CRS)?	No
If not, is your jurisdiction interested in joining the CRS program?	No
How many Flood Insurance policies are in force in your jurisdiction?	26
What is the insurance in force?	\$12,650,000
What is the premium in force?	\$86,400
How many total loss claims have been filed in your jurisdiction?	3
How many claims were closed without payment/are still open?	2
What were the total payments for losses?	\$5,216.07

TABLE 4-5. COMMUNITY CLASSIFICATIONS

	Participating?	Classification	Date Classified
Community Rating System	No	N/A	N/A
Building Code Effectiveness Grading Schedule	No	N/A	N/A
Public Protection	No	N/A	N/A
Storm Ready	No	N/A	N/A
NWS Weather Ready Nation Ambassador	Yes	N/A	N/A

TABLE 4-6. EDUCATION AND OUTREACH

Criteria	Response
Do you have a Public Information Officer or Communications Office?	Yes - Senior Management Analyst in Administrative Services
Do you have personnel skilled or trained in website development?	Yes - Senior Management Analyst in Administrative Services
Do you have hazard mitigation information available on your website?	Yes





TABLE 4-6. EDUCATION AND OUTREACH

Criteria	Response
If yes, please briefly describe.	On OES department site
Do you utilize social media for hazard mitigation education and outreach?	Yes
 If yes, please briefly describe. 	Regular updates are provided in our weekly blog with links to the main website. The city's website hosted the community survey for this LHMP update.
Do you have any citizen boards or commissions that address issues related to hazard mitigation?	Yes
If yes, please briefly specify.	Emergency Services Council
Do you have any other programs already in place that could be used to communicate hazard-related information?	Yes
If yes, please briefly describe.	Weekly blog and website
Do you have any established warning systems for hazard events?	No
 If yes, please briefly describe. 	N/A

4.4 Integration with Other Planning Initiatives

The following describe the jurisdiction's process for integrating the hazard mitigation plan into local planning mechanisms.

4.4.1 Existing Integration

The following plans and programs currently integrate the goals, risk assessment and/or recommendations of the hazard mitigation plan:

- General Plan, Chapter X, "Community Health And Safety" State law requires a General Plan address the protection of a community from the risks of natural hazards. Brisbane's plan exceeds this requirement by also speaking to the man-made hazards that are a part of urban life. The introduction to the safety element notes, "The underlying assumption of preparing the safety policy is that the City can reduce hazards if the probability of hazardous conditions is known in advance and plans for dealing with such conditions have been prepared." The requirements of this section are directly in alignment with the LHMP's goal of identifying natural hazards and of identifying strategies to mitigate them. The city's Safety Element in its General Plan has not been updated since 1994, but is scheduled for update in 2017. During that review, staff expects to adopt the LHMP within said element pursuant to AB 2140 (Hancock, 2006).
- ❖ Brisbane Municipal Code Chapter 2.28, "Disaster Services Council" This section of the municipal code creates a disaster services council and the positions of Director and Assistant Director of Emergency Services. The legislated purposes of this chapter are to ". . . provide for the preparation and carrying out of plans for the protection of persons and property within the city in the event of an emergency; the direction of the emergency organization; and the coordination of the emergency functions of the city with all other public agencies, corporations, organizations, and affected private





- persons. Given that the local Office of Emergency Services has overall responsibility for implementing the LHMP, the creation of the Disaster Services Council and Office of Emergency Services is directly in alignment with the LHMP's goal of establishing a coordinated approach to implementing the plan.
- * California Environmental Quality Act, "Brisbane Baylands Draft Environmental Impact Report" The city is closely following these requirements as it reviews a planning application for an
 approximately 640-acre parcel that is directly connected to the San Francisco Bay by way of two
 primary drainage facilities. CEQA review is clearly in line with the LHMP's goal of identify natural
 hazards and identifying mitigation for it. For instance, there are specific chapters of the EIR that
 delve deeply into associated impacts of the project based on air quality, seismology, surface water
 hydrology, greenhouse gas emissions, etc.
- North County Fire Authority 2004 Wildland Pre-Fire Attack Plan the cities of Daly City, Pacifica and Brisbane have entered into a JPA where administrative oversight and training of fire departments is provided by Daly City to the other cities. Two of the signatory cities are located in a potential urban wildland fire boundary on San Bruno Mountain. In response to this, NCFA developed and conducts an annual exercise plan that encompasses familiarization training with the boundary, integration of multiple fire responders (including Cal FIRE land and air crews), and citizen evacuation awareness. Extensive pre-planning to mitigate the effects of a fire on San Bruno Mountain is clearly consistent with the goals of the LHMP.

4.4.2 Opportunities for Future Integration

The following plans and programs do not currently integrate the goals, risk assessment and/or recommendations of the hazard mitigation plan, but provide an opportunity for future integration:

- 2015 Climate Action Plan Brisbane's holistic approach to addressing climate change was recognized when we became the first California city to win a Gold Beacon Award from the Institute for Local Government. The continuing implementation of the CAP is consistent with the LHMP's goal of mitigating natural hazards, in that it works to slow the impacts of climate change, and the associated risks of increased sea levels, higher summer temperatures, prevalence, and strength of storms, etc.
- Sea Change San Mateo County the city is an active participant in a multi-stakeholder broad coalition of governments that is completing a sea level rise vulnerability assessment to test and plan for the future resilience of our community. The results of this study will provide information on the hazard and potential mitigations for multiple sea level rise scenarios.
- 2003 Storm Drainage Master Plan the largest dollar amount of structural projects identified in this plan are located in the planning application area known as the Baylands (see third bulleted item above in "Existing Integration"). If and when that project successfully completes the myriad planning processes and results in a development, the majority of the SD improvements necessary to mitigate flooding in this area have already been pre-studied. Pre-identification of natural hazards (i.e., flooding) and requiring mitigation of same while a land area is being developed from its current status as a brownfield is clearly consistent with the LHMP.





4.5 Jurisdiction-Specific Natural Hazard Event History

Table 4-6 lists all past occurrences of natural hazards within the jurisdiction.

TABLE 4-6. NATURAL HAZARD EVENTS

Type of Event	FEMA Disaster # (if applicable)	Date	Preliminary Damage Assessment
Severe Storm	N/A	2/6/15	none submitted
Severe Storm	N/A	Dec 2015	none submitted
Drought	N/A	1/17/14 - ?	none submitted
Drought	N/A	2/27/09	none submitted
Severe Storms	DR 1646	Spring 2006	\$340,000
Severe Storms	DR 1628	Dec 05/Jan 06	\$350,000 (includes Emergency Relief Funds from FHWA)
El Nino (Severe Storms)	DR 1203	2/2/98	not available
Loma Prieta Earthquake	845-DR-CA	10/17/89	not available
Severe Storms	651-DR-CA	January 1982	not available
Landslide	N/A	Winter 1980	not available - 12 homes damaged
Flood and Storms	not available	Fall 1962	not available

In addition to the Natural Hazards listed above, the city's emergency services organization also responded to the following major events:

TABLE 4-7. HEALTH AND HUMAN CAUSED HAZARD EVENTS

Type of Event	FEMA Disaster # (if applicable)	Date	Preliminary Damage Assessment
Ebola Threat Preparedness	N/A	Fall 2014	none submitted
SFO Air Crash (Asiana 214) mutual aid response	N/A	7/6/13	none submitted
Swine Flu	N/A	4/28/09	none submitted
Oil Spill (COSCO BUSAN)	N/A	11/9/07	none submitted - minimal
Gasoline Shortage	N/A	1979	none submitted
Gasoline Shortage	N/A	March 1974	none submitted

4.6 Jurisdiction-Specific Vulnerabilities

Repetitive loss records are as follows:

- Number of FEMA-identified Repetitive-Loss Properties: 0
- Number of FEMA-identified Severe-Repetitive-Loss Properties: 0
- Number of Repetitive-Loss Properties or Severe-Repetitive-Loss Properties that have been mitigated:

Λ





Other noted vulnerabilities include:

Due to the city limits being contiguous with the State & County Park of San Bruno Mountain, most of our southern and western city limit is a wildland urban interface potential fire area. The adjacent State parkland has been designated a State Responsibility Area, where the State of California is financially responsible for the prevention and suppression of wildfires. Fires have periodically occurred in this area since recorded time prior to the city's incorporation in 1961, with the most recent major event occurring in 2006. Although these events have fortunately not expanded to require a state proclamation or federal declaration of disaster, the potential impact of fires originating in the wildland and impacting the urban area of Brisbane is an ongoing focus of concern.

The city's mountainous topography and older roadway network has created at least one location that is exceptionally difficult to access by emergency equipment (specifically, fire engines & ladder trucks are unable to utilize this roadway). This roadway also adjoins an area that experienced a significant mudslide in 1980. A reconfiguration of Glen Park Way at its intersection with Humboldt Road is necessary to ensure ingress for emergency responders and egress for evacuees, particularly in the event of an urban wildland interface fire.

The scientific community is in a majority consensus that Sea Level Rise (SLR) is an upcoming vulnerability that will have to be addressed. The largest question as we prepare for SLR is to determine the timeframe and a most probable upper boundary of SLR that needs to be accommodated. Brisbane is participating in a San Mateo County led effort, "Sea Change San Mateo County", which has produced preliminary model results indicating that portions of our land mass known as "Sierra Point" (housing an office park and the city's 580-slip marina) could be overtopped under certain scenarios. One, and possibly two, pump stations are in potential SLR induced flooding zones.

Two facilities within the city need new or upgraded standby generators, Fire Station 81 and City Hall. The fire station's generator needs replacement due to age. City Hall's generator needs to be upsized to accommodate the relocation of the city's primary Emergency Operations Center to this location, especially in light of FEMA's pending NIMS update that proposes to create "Center Management Systems" that are expected to be supported primarily by day-to-day staff working from their traditional assigned workspace (i.e., City Hall).

4.7 Hazard Risk Ranking

Table 4-8 presents the ranking of the hazards of concern.

TABLE 4-8. HAZARD RISK RANKING

Rank	Hazard Type	Risk Rating Score (Probability x Impact)	Category
1	Earthquake	48	High
2	Wildfire	36	High
3	Severe Weather	33	Medium
4	Flood	30	Medium
5	Landslide	9	Low
6	Drought	3	Low





Rank	Hazard Type	Risk Rating Score (Probability x Impact)	Category
7	Tsunami	0	Low
8	Dam Failure	0	Low

4.8 Hazard Mitigation Action Plan and Evaluation of Recommended Actions

Table 4-9 lists the actions that make up the City of Brisbane's hazard mitigation action plan. Table 4-10 identifies the priority for each action. Table 4-11 summarizes the mitigation actions by hazard of concern and the six mitigation types.

	Table 4-9. Hazard Mitigation Action Plan Matrix									
Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline				
BB-1—Whe	BB-1—Where appropriate, support retrofitting structures against earthquake.									
Existing	Earthquake	1, 2, 11	Planning and Community Development (PCD)	High	HMGP, PDM, FMA	On-going				
_	grate the hazard miti ithin the community	•	to other plans, ordin	ances and pro	ograms that dictate la	nd use				
New and Existing	All Hazards	2, 4	PCD* and Office of Emergency Services (OES)	Low	Staff Time, General Funds	On-going				
marks, preli implementa	minary damage estination and maintenan	mates, damag ce of the haza	e photos) to support ard mitigation plan. <i>A</i>	future mitiga Additionally, d	ficant events (e.g. higl tion efforts including evelop a cost tracking response phases of dis	the system				
Existing	All Hazards	1, 2, 4, 5	OES	Medium	Staff Time, General Funds	Short-term				
BB-4—Supp	ort the Countywide	initiatives ide	ntified in Volume I of	the hazard m	nitigation plan.					
New and Existing	All Hazards	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	OES	Low	Staff Time, General Funds	Short-term				
BB-5—Activ	ely participate in the	plan mainte	nance protocols outli	ned in Volum	e I of the hazard mitig	ation plan.				
New and Existing	All Hazards	1, 2, 3, 5, 6	OES	Low	Staff Time, General Funds	On-going				
		_	•		Flood Insurance Prog nt programs that will,	•				

This will be accomplished through the implementation of floodplain management programs that will, at a minimum, meet the requirements of the NFIP:

- Enforcement of the flood damage prevention ordinance
- Participate in floodplain identification and mapping updates
- Provide public assistance/information on floodplain requirements and impacts.





	Table 4-9. Hazard Mitigation Action Plan Matrix									
Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline				
New and Existing	Flood	1, 4, 5, 8	Public Works (PW)	Low	Staff Time, General Funds	On-going				
	·	_	es with ICB and state leplacement, and deve	_	revisions, and apply the	nese				
New	Earthquake, Flood, Landslide, Severe Weather, Wildfire	2, 3, 4, 7	PCD* and OES	Low	Staff Time, General Funds	Short-term				
BB-8—Cont	tinue to refine a post	-disaster reco	very plan and a debr	is manageme	nt plan.					
Existing	All Hazards	1, 2, 5, 6	OES	Low	EMPG	Long-term				
					81, and provide upgra	ded				
			te relocation of EOC t							
Existing	All Hazards	1, 4, 9	OES* and PW	Low	HMA Grant, General Fund	Short-term				
	3-5 days of fuel need			-	ne community) capable ators (including those a HMA Grant, General Fund	at water &				
Way/Humb		low emergend			section at Glen Park thern portion of the co	ommunity,				
Existing	Earthquake, Landslide, Wildfire	1, 4, 7	OES and PW*	High	HMA Grant, General Fund	Long-term				
Organization Mutual Aid	BB-12—Mutual Aid. Continue to participate in the San Mateo County Operational Area Emergency Services Organization, the San Mateo County Emergency Managers Association, and the San Mateo County Public Works Mutual Aid Agreement to leverage the city's ability to respond to emergencies. Existing All Hazards 1, 2, 3, 5, 6, OES*, PW, Brisbane Low Staff Time, General On-going									
-		8	Police Department, and Brisbane Fire Department		Fund	J				
BB-13-Disas			nue to identify and p	r and a second	g for response person	nel.				
Existing	All Hazards	1, 2, 3, 5, 6	OES	Low	Staff Time, General Fund	On-going				
			nt. Continue particip derstanding of future		an Mateo County led (effort, "Sea				
Existing	Flood	1, 2, 3, 5, 6	OES, PW*, and PCD	Low	For current study, the project is fully funded via San Mateo County and external grants	Long-term				



Table 4-9. Hazard Mitigation Action Plan Matrix									
Applies to									
new or									
existing		Objectives		Estimated					
assets	Hazards Mitigated	Met	Lead Agency	Cost	Sources of Funding	Timeline			

Action G-1—Where appropriate, support retrofitting, purchase, or relocation of structures in hazard-prone areas to prevent future structure damage. Give priority to properties with exposure to repetitive losses.

Existing	All	1, 3, 4, 5, 6, 7, 11	Jurisdictions	High	FEMA Hazard Mitigation Grants	Long-term (dependin
					_	g on funding)

^{*} Identified Lead Agency

 TABLE 4-10. MITIGATION STRATEGY PRIORITY SCHEDULE

Action #	# of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Costs?	Is Project Grant- Eligible?	Can Project Be Funded Under Existing Programs/ Budgets?	Implementation Priority ^a	Grant Priority ^a
BB-1	3	High	High	Yes	Yes	No	Medium	High
BB-2	2	Medium	Low	Yes	No	Yes	High	Low
BB-3	4	Low	Low	Yes	No	Yes	High	Low
BB-4	11	Low	Low	Yes	No	Yes	High	Low
BB-5	5	Low	Low	Yes	No	Yes	High	Low
BB-6	4	Medium	Low	Yes	No	Yes	High	Low
BB-7	4	Medium	Low	Yes	No	Yes	High	Low
BB-8	4	Medium	Low	Yes	Yes	Yes	High	Low
BB-9	3	Medium	High	No	Yes	No	Medium	High
BB-10	3	Medium	High	No	Yes	No	Medium	High
BB-11	3	High	High	Yes	Yes	No	Medium	High
BB-12	6	Medium	Low	Yes	No	Yes	High	Low
BB-13	5	Medium	Low	Yes	No	Yes	Medium	Low
BB-14	5	Low	Low	Yes	No	Yes	Medium	Low
G-1	7	High	High	Yes	Yes	No	High	High

TABLE 4-11. ANALYSIS OF MITIGATION ACTIONS

TABLE 4 II. AWARTSIS OF WITHOUT ACTIONS										
	Action Addressing Hazard, by Mitigation Type a									
Hazard Type	1. Prevention	2. Property Protection	3. Public Education and Awareness	4. Natural Resource Protection	5. Emergency Services	6. Structural Projects				
Earthquake	BB-2, BB-3, BB-4, BB-5, BB-7, BB-8	BB-1, BB-7	BB-4		BB-8, BB-9, BB-10, BB-11, BB-12, BB- 13					
Wildfire	BB-2, BB-3, BB-4, BB-5, BB-7	BB-1, BB-7	BB-4		BB-8, BB-11, BB-12, BB-13					





		Action	Action Addressing Hazard, by Mitigation Type a						
Hazard Type	1. Prevention	2. Property Protection	3. Public Education and Awareness	4. Natural Resource Protection	5. Emergency Services	6. Structural Projects			
Severe Weather	BB-2, BB-3, BB-4, BB-5, BB-7, BB-8	BB-1, BB-7	BB-4		BB-8, BB-9, BB-11, BB-12, BB-13	*			
Flood	BB-2, BB-3, BB-4, BB-5, BB-6, BB-7, BB-8	BB-1, BB-6, BB-7	BB-4, BB-6		BB-8, BB-12, BB-13, BB-14	*			
Landslide	BB-3, BB-4, BB-5, BB-7, BB-8	BB-1, BB-7	BB-4	BB-2	BB-8, BB-11, BB-12, BB-13				
Drought	BB-2, BB-3, BB-4, BB-5, BB-8	BB-1	BB-4		BB-8				
Tsunami	N/A - 0 Risk	N/A - 0 Risk	N/A - 0 Risk	N/A - 0 Risk	N/A - 0 Risk	N/A - 0 Risk			
Dam Failure	N/A - 0 Risk	N/A - 0 Risk	N/A - 0 Risk	N/A - 0 Risk	N/A - 0 Risk	N/A - 0 Risk			

Note: see third bullet point under "Opportunities for Future Integration" regarding discussion on storm drain structural projects that will address flooding issues.



























