

Appendix A: Outreach Overview

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Stakeholder Workshop

WORKSHOP PHOTOS



STRATEGY RESPONSES

Urban Water Management Plan

Problem Statement	Benefits	Case Studies	Funding Sources	Estimated Timeline
<p>The Department of Water Resources requires water utilities to prepare an Urban Water Management Plan update every five years. The next due date is July 1, 2016.</p> <p><i>This isn't a problem statement.</i></p> <p><i>Do we not know how to manage water?</i></p> <p><i>Maybe say align UWMP actions with LHMP.</i></p>			<p><i>Attending ABAG-Water Summit in Fall.</i></p>	2016-2016

Is this Strategy Effective in Addressing the Problem Statement?

No	Neutral	Yes
		1

Is this Strategy Aligned with Regional Best Practices?

No	Neutral	Yes

Is this Strategy Feasible in the Identified Timeline?

No	Neutral	Yes
		1

Water Reuse Project

Problem Statement	Benefits	Case Studies	Funding Sources	Estimated Timeline
<p>Prepare a feasibility study and environmental documents for the project that would further treat Wastewater Treatment Plant effluent to tertiary recycled water standards and provide recycled water to Valero Benicia Refinery for use in cooling towers.</p> <p>Valero uses a lot of water and we need to reduce that use.</p>	<p>If constructed, this project could reduce the City's need for imported water by more than 20%, allowing the banking of water during wet years for use in future droughts.</p>			<p>2016-2018</p> <p>Funding identified?</p>

Is this Strategy Effective in Addressing the Problem Statement?

No	Neutral	Yes
		2

Is this Strategy Aligned with Regional Best Practices?

No	Neutral	Yes
		1

Is this Strategy Feasible in the Identified Timeline?

No	Neutral	Yes
		1

Turf Analysis (Parks, Trails, and Open Space Master Plan Update)

Problem Statement	Benefits	Case Studies	Funding Sources	Estimated Timeline
<p>Funding being sought to update the City's 1997 Parks, Trails & Open Space Master Plan. That plan process will include a comprehensive assessment of water-intensive turf throughout the City's parks system.</p> <p>Outdated plan is the problem statement.</p>	<p>Staff anticipate reducing ongoing water used in parks by 10-30% while improving park aesthetics and user satisfaction and achieving other related objectives such as stormwater management.</p>	<p>City of Roseville Parks dept. has done extensive turf replacement.</p>	<p>City General Fund, Solano County Water Authority Prop 1 programs.</p> <p>Does Solano County Water District have resources for cities?</p>	<p>18 Months</p>

Is this Strategy Effective in Addressing the Problem Statement?

No	Neutral	Yes
		2

Is this Strategy Aligned with Regional Best Practices?

No	Neutral	Yes
	1	1

Is this Strategy Feasible in the Identified Timeline?

No	Neutral	Yes
		2

Evaluation of Jurisdictional Ordinances and Programs for Earthquake Retrofit of Unreinforced Masonry Structures

Problem Statement	Benefits	Case Studies	Funding Sources	Estimated Timeline
Current regulations only require retrofit of unreinforced masonry structures when the occupancy type is changed. The City has identified 39 unreinforced masonry structures in Benicia.				2018-2020

Is this Strategy Effective in Addressing the Problem Statement?

No	Neutral	Yes
		11

Is this Strategy Aligned with Regional Best Practices?

No	Neutral	Yes
		1

Is this Strategy Feasible in the Identified Timeline?

No	Neutral	Yes
		1

I'd do some early research to see where you are.

Natural Gas Shut-Off Valve Ordinance

Problem Statement	Benefits	Case Studies	Funding Sources	Estimated Timeline
Specialized valves are available that can automatically shut off natural gas service in case of an emergency in order to protect the structure if a gas leak or line break occurs.	Reduces risk of natural gas leak arising from broken gas lines			2018-2019

Is this Strategy Effective in Addressing the Problem Statement?

No	Neutral	Yes
		3

Is this Strategy Aligned with Regional Best Practices?

No	Neutral	Yes
		2

Is this Strategy Feasible in the Identified Timeline?

No	Neutral	Yes
		2

Conduct a Vulnerability Assessment of the City's Police Station to Groundshaking

Problem Statement	Benefits	Case Studies	Funding Sources	Estimated Timeline
The vulnerability of the police station to earthquake ground shaking is unknown	<p>The Police Station is critical infrastructure. In the event of a disaster, such as an earthquake, it is vital that this facility remain operational. A potential collapse or partial collapse could not only render the station inoperable, but could injure or kills vital staff needed to respond to the disaster.</p> <p>Could you add on energy & water audit?</p>			

Is this Strategy Effective in Addressing the Problem Statement?

No	Neutral	Yes
		1

Is this Strategy Aligned with Regional Best Practices?

No	Neutral	Yes
		1

Is this Strategy Feasible in the Identified Timeline?

No	Neutral	Yes

Stormwater Management and Flood Mitigation Plan

Problem Statement	Benefits	Case Studies	Funding Sources	Estimated Timeline
<p>Sulphur Springs Creek and the Downtown Waterfront (vicinity of East 2nd Street and East B Streets) are prone to flooding. Measure C (2014) established a funding source to evaluate flooding in these areas.</p> <p>Do we need a plan first? What about design (Ex: for existing Waterfront Plan?)</p> <p>Is this needed (the plan)? You have a Waterfront Master Plan and Sea Level Adaption Plan (that mapped existing conditions).</p>	<p>Increased resilience to current and future flooding.</p> <p>Habitat benefits for restoring Sulphur Springs Creek</p> <p>Increased groundwater recharge.</p> <p>Increased green acres and benefits (sequestration and increased runoff and increased water quality from bioswales, etc.)</p>	<p>Benicia Waterfront Master Plan</p> <p>Benicia Adaption Plan</p>	<p>FEMA?</p> <p>Conservancy ?</p>	<p>Start 2018</p>

Stormwater Management and Flood Mitigation Plan

Is this Strategy Effective in Addressing the Problem Statement?

No	Neutral	Yes
	1	1

Is this Strategy Aligned with Regional Best Practices?

No	Neutral	Yes
	1	1

Is this Strategy Feasible in the Identified Timeline?

No	Neutral	Yes
		1

Stormwater Resource Plan

Problem Statement	Benefits	Case Studies	Funding Sources	Estimated Timeline
Public agencies must develop a Storm Water Resource Plan prior to <u>receiving bond funding for projects</u> . Storm Water Resource Plans recognize storm water as a resource, are developed on a watershed basis, emphasizes multi-benefit projects and emphasizes use of publicly-owned lands for capture and use projects. For Prop 1, I don't think this is a requirement.	<p>Decreased flooding.</p> <p>Increased groundwater recharge.</p> <p>Increased green areas.</p> <p>Decreased urban heat island effect.</p> <p>Increased sequestration.</p> <p>Decreased polluted runoff.</p> <p>Increased water quality (due to filtration in bioswales, etc.)</p>	<p>Contact Strategic Growth Council and/or Coastal Conservancy for Urban Greening case studies for data/tools.</p>	<p>DFW and Conservancy (Bay Area Urban Greening Round – Nov. 2016 – Feb. 2017)</p> <p>Prop 1 Grants</p>	<p>ASAP!</p>

Is this Strategy Effective in Addressing the Problem Statement?

No	Neutral	Yes
		1

Is this Strategy Aligned with Regional Best Practices?

No	Neutral	Yes
		1

Is this Strategy Feasible in the Identified Timeline?

No	Neutral	Yes

Storm Ready Community - National Weather Service

Problem Statement	Benefits	Case Studies	Funding Sources	Estimated Timeline
Community flooding	<p>Increased community resilience to current flooding, storms, and future sea level rise.</p> <p>Emergency preparedness?</p>	<p>City of Berkeley emergency preparedness program and community trainings.</p>	<p>FEMA?</p> <p>Cal OES?</p>	<p>ASAP!</p>

Is this Strategy Effective in Addressing the Problem Statement?

No	Neutral	Yes

Is this Strategy Aligned with Regional Best Practices?

No	Neutral	Yes

Is this Strategy Feasible in the Identified Timeline?

No	Neutral	Yes

Urban Waterfront Enhancement Master Plan

Problem Statement	Benefits	Case Studies	Funding Sources	Estimated Timeline
Tides and stormwater cause localized flooding in several sites in lower downtown. Sea Level Rise is projected to increase the extent, duration, and frequency of flood events.	Incorporate flood mitigation and stormwater management as intrinsic elements of the Waterfront Park created by the Waterfront Park Initiative of 2004.		California Coastal Conservancy (Prop 1), Active Transportation program, Prop 1 Grants Measure AA (\$ in June 2017)	Detailed design/engineering and permitting will begin when funding is available, and is expected to take approximately twelve months. Construction will then be completed in 2-3 phases over approximately ten years.

Is this Strategy Effective in Addressing the Problem Statement?

No	Neutral	Yes
		2

Is this Strategy Aligned with Regional Best Practices?

No	Neutral	Yes
		2

Is this Strategy Feasible in the Identified Timeline?

No	Neutral	Yes

Critical Facilities, Vulnerable Building Types and Infrastructure Mapping for Hazard Identification

Problem Statement	Benefits	Case Studies	Funding Sources	Estimated Timeline
<p>The City of Benicia lacks adequate mapping and data resources to conduct a detailed hazard assessment and risk analysis.</p> <p>What kind of additional analysis?</p> <p>Did a vulnerability assessment for climate change impact what is needed?</p>	<p>Improved assessment of natural hazard risks associated with earthquake and flooding</p> <p>Building Age</p> <p>Structure Type</p> <p>Number of storms</p> <p>Ground floor elevation</p>	<p><i>Palo Alto is doing this right now.</i></p> <p><i>ABAG stronger HWMG, safer communities?</i></p> <p><i>Can assessor's data provide baseline of information?</i></p>	FEMA Hazard Mitigation Grant	2017-2018

Is this Strategy Effective in Addressing the Problem Statement?

No	Neutral	Yes
		2

Is this Strategy Aligned with Regional Best Practices?

No	Neutral	Yes
		2

Is this Strategy Feasible in the Identified Timeline?

No	Neutral	Yes
	2	

Outreach to Hazard Prone Residential Areas

Problem Statement	Benefits	Case Studies	Funding Sources	Estimated Timeline
Residential areas east of First Street are susceptible to multiple hazards including earthquake ground shaking, liquefaction and flooding. Some vulnerable populations reside in this part of the community. \$ Capacity – building Call at potential partners – BERT, other community based organizations not necessarily disaster oriented.	Increased information about hazard preparation and evacuation can assist in avoiding loss of property or life in the event of an emergency.			2019

Is this Strategy Effective in Addressing the Problem Statement?

No	Neutral	Yes
		1

Is this Strategy Aligned with Regional Best Practices?

No	Neutral	Yes

Is this Strategy Feasible in the Identified Timeline?

No	Neutral	Yes
		1

Post Emergency Inspection and Plan Check Protocols

Problem Statement	Benefits	Case Studies	Funding Sources	Estimated Timeline
The City of Benicia lacks written protocols for post-emergency building evaluation, occupancy approval, plan check and permitting.	<p>Improved coordination for post-emergency inspections and permitting.</p> <p>Enhanced effectiveness to manage building occupancy for damaged structures.</p> <p>Advance identification of staffing resources (including temporary staffing) needed for post-emergency building activities.</p>		None needed – no direct costs, staff time will be required.	2017-2018

Is this Strategy Effective in Addressing the Problem Statement?

No	Neutral	Yes
		2

Is this Strategy Aligned with Regional Best Practices?

No	Neutral	Yes
		1

Is this Strategy Feasible in the Identified Timeline?

No	Neutral	Yes
		2

STRATEGY: Evaluate Public Safety Communications Infrastructure

Problem Statement	Benefits	Case Studies	Funding Sources	Estimated Timeline
Continuity of Communications				

Is this Strategy Effective in Addressing the Problem Statement?

No	Neutral	Yes

Is this Strategy Aligned with Regional Best Practices?

No	Neutral	Yes

Is this Strategy Feasible in the Identified Timeline?

No	Neutral	Yes

Conduct a Vulnerability Assessment of the City's radio communications system to natural and man-made disasters

Problem Statement	Benefits	Case Studies	Funding Sources	Estimated Timeline
The vulnerability of the City of Benicia's radio communications system to natural and man-made disasters is unknown.	The failure of the City's radio system during a natural disaster would be catastrophic and would endanger the community and emergency responders.			Now and ongoing.

Is this Strategy Effective in Addressing the Problem Statement?

No	Neutral	Yes
		1

Is this Strategy Aligned with Regional Best Practices?

No	Neutral	Yes
		1

Is this Strategy Feasible in the Identified Timeline?

No	Neutral	Yes
		1

Training Program for City Staff of Emergency Operations Center

Problem Statement	Benefits	Case Studies	Funding Sources	Estimated Timeline
<i>What is current status? What will future program do differently?</i>				

Is this Strategy Effective in Addressing the Problem Statement?

No	Neutral	Yes

Is this Strategy Aligned with Regional Best Practices?

No	Neutral	Yes

Is this Strategy Feasible in the Identified Timeline?

No	Neutral	Yes

Outreach and Education for Disaster Preparedness

Problem Statement	Benefits	Case Studies	Funding Sources	Estimated Timeline
General Public Safety Can this be integrated with the 'storm ready community' outreach?	Increased awareness of hazards. Reduced heat related illness. Reduced insurance claims. Less property damage.	Berkeley		

Is this Strategy Effective in Addressing the Problem Statement?

No	Neutral	Yes

Is this Strategy Aligned with Regional Best Practices?

No	Neutral	Yes

Is this Strategy Feasible in the Identified Timeline?

No	Neutral	Yes

Creation of a complete plan and subsequent training and evaluation of the vulnerability of the community to an active shooter or terrorist event creating mass casualties

Problem Statement	Benefits	Case Studies	Funding Sources	Estimated Timeline
Vulnerability of the community to an active shooter or terrorist event creating mass casualties.	Reduced casualties in the event on an active shooter or terrorist event. Possible prevention by reducing soft target vulnerability.			24 Months (no start date identified).

Is this Strategy Effective in Addressing the Problem Statement?

No	Neutral	Yes

Is this Strategy Aligned with Regional Best Practices?

No	Neutral	Yes

Is this Strategy Feasible in the Identified Timeline?

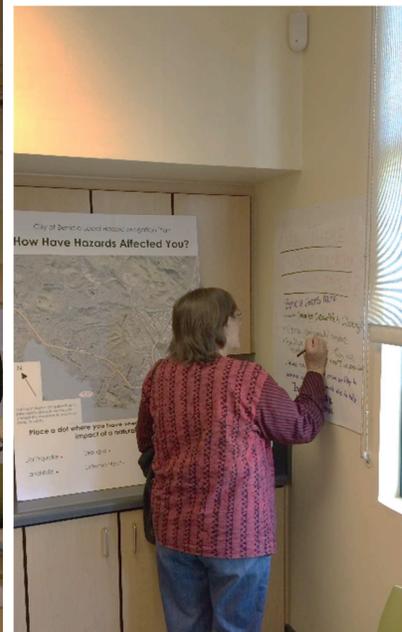
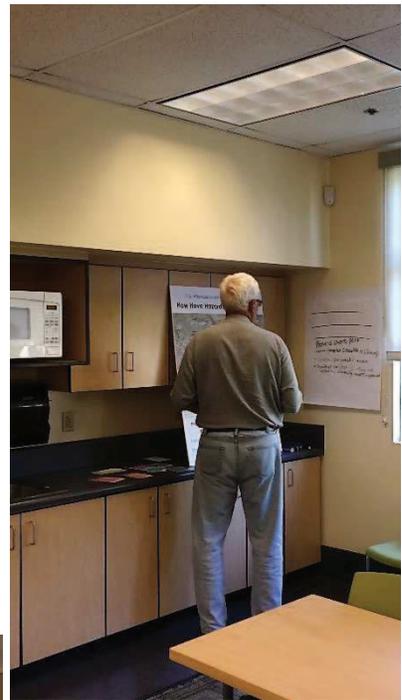
No	Neutral	Yes

WHAT DID WE MISS?

- What are the numbers behind “few” and “most” landslides?
- Outreach and education for disaster preparedness should include all hazards (and future sea level rise) and target the most vulnerable communities for capacity building and resilience-building.
- If possible, enrich LHMP with UWMP information for drought section or infrastructure section.
- URM. If status is unknown check in with state seismic safety commission.
- Check ABAG policy database for examples of gas shut-off valve ordinances, and mandatory URM ordinances.
- What is the definition of a “storm ready community?” Is this a National Weather Service term?
- Get tidal data from (recent) FEMA SF Bay Study to see water level of 100 year storm for Benicia’s shoreline. The Study maps 100 year storm events using OCOF or NOAA SUR viewer to see how it compares to the FEMA 100 year storm – can help prioritize flood areas.
- What is the difference between “storm water resource plan” and “storm water mgmt. and flood mitigation plan?” And why are these needed if we already have a water front master plan and adaption plan?
- Would love to see more integration of adaption plan mapping (existing conditions, etc.) into planning for this hazard.

Community Workshop

WORKSHOP PHOTOS



WORKSHOP AGENDA

1. Sign In, Welcome

2. Presentation

- a. Overview of LHMP planning process
- b. Overview of hazards in Benicia
- c. Roll of community in LHMP process (key actions and dates)
 - i. Feedback here
 - ii. Review Public Draft
 - iii. Take Survey online
 - iv. Help the City Identify Key partners (community groups, businesses, etc).
 - v. Stay involved with hazard mitigation and preparedness (BERT, etc).
- d. Overview of activities in tonight's open house
- e. Questions about the planning process or hazards or anything else? There will be representatives from the City here to help you answer questions as you go through the activities

3. Open House

Stations:

- Hazard Maps & Mitigation Strategies Posters
 - Earthquake (Strategies, Map)
 - Flooding (Strategies, Map)
 - Wildfire (Strategies, Map)
 - Drought (Strategies, No Map)
 - Multi-Hazard Strategies (Strategies, No Map)
- Where have you experienced hazards in Benicia?
 - Same map/sticker combo we've used at other events
 - Critical Facility Identification (different stickers)
 - Room next to it for people to write in places (sometimes finding a specific building on an aerial map can be tough, so it's good to provide a general option, so people can write in categories too, like 'schools')
- General Comments
 - What did we miss easel
 - Comment Cards

COMMENT CARDS

- “While I am concerned with ‘natural disasters,’ I am also really concerned with possible local disasters. Should the Valero ‘Crude-By-Rail’ project be approved? That particular project could be a ‘day-to-day’ potential hazard to Benicia and beyond.”
- “I have already filled out the online survey.”

CRITICAL FACILITIES

IMPORTANT LOCATIONS WE SHOULD PROTECT

- Benicia State Park
- Water Treatment Plant
- Sewage Treatment Plant
- Industrial Park
- Benicia Arsenal
- Pacifica Pizza
 - May be susceptible to flooding
 - Downtown – protection from earthquakes; was damaged during most recent Napa earthquake
- Valero
 - Environmental concerns
 - Especially bringing trains with crude oil into liquefaction zone
- Buildings on First Street
 - They are historic; community events happen here
- Homes near Rose Drive
 - More likely to experience landslides in backyards due to hills
- Rancho Benicia Mobile Home Park
 - Especially flooding and liquefaction impacts and a vulnerable population

KEY QUESTIONS AND TAKEAWAYS

- Is climate change considered in these maps?
 - Does FEMA include it?
- Liquefaction and coal trains – Why?
 - Individual preparedness
- How is liquefaction risk related to shaking risk?
- How does this relate to individual preparedness?
- Extreme heat measures/ strategies
- Drought mitigation?
- More comprehensive preparedness for a hazardous material emergency, specifically at the Valero
- Integrate a measure about alerting all citizens in the event of an emergency into LHMP
- Specific action for Rancho Benicia?
 - The mobile home park is not subject to the building code like brick and mortar homes are. This could be an issue for building resilience through LHMP mitigation actions that target the building code.

STRATEGY REVIEW

Urban Water Management Plan

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
	3	1

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
	4	1

Water Reuse Project

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
	1	4

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
	1	4

Turf Analysis (Parks, Trails, and Open Space Master Plan Update)

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
1	2	1

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
1	2	1

Evaluation of Jurisdictional Ordinances and Programs for Earthquake Retrofit of Unreinforced Masonry Structures

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
	2	6

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
	2	5

Natural Gas Shut-Off Valve Ordinance

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
	1	7

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
1	1	7

Conduct a Vulnerability Assessment of the City's Police Station to Groundshaking

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
4	2	1

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
1	4	2

Stormwater Management and Flood Mitigation Plan

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
	4	1

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
	4	1

Stormwater Resource Plan

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
	4	1

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
	4	1

Storm Ready Community - National Weather Service

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
	2	3

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
	1	4

Urban Waterfront Enhancement Master Plan

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
	3	3

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
	4	2

Critical Facilities, Vulnerable Building Types and Infrastructure Mapping for Hazard Identification

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
		6

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
		6

Outreach to Hazard Prone Residential Areas

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
		6

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
	1	5

Post Emergency Inspection and Plan Check Protocols

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
	2	1

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
	1	1

Evaluate Public Safety Communications Infrastructure

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
1	2	3

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
2	2	1

Conduct a Vulnerability Assessment of the City's radio communications system to natural and man-made disasters

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
	1	3

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
	1	3

Training Program for City Staff of Emergency Operations Center

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
1	1	3

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
1		3

Outreach and Education for Disaster Preparedness

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
	1	4

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
	1	4

Creation of a complete plan and subsequent training and evaluation of the vulnerability of the community to an active shooter or terrorist event creating mass casualties

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
1	1	2

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
1	2	1

Defensible Space Program - Site Specific Assessment

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
	3	1

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
	3	1

Urban Interface Ordinance

Does this strategy protect Benicia from this hazard?

No	Neutral	Yes
1	1	1

Should this strategy be a high priority for the City of Benicia?

No	Neutral	Yes
1	1	1

Online Survey

Overview

The City created an online survey for community members, including City staff. The purpose of the survey was to gauge understanding and concerns surrounding hazards in Benicia, as well as get a sense of community preparedness in the event of a disaster. The survey asked about potential hazards facing Benicia and what steps community members have taken or are interested in taking to reduce the threat from these hazards. The survey was advertised through multiple posts on the City and Fire Department's respective Facebook and Twitter accounts. Emails were sent to the entire roster of City staff, as well as to employees of the Benicia Unified School District. The City manager's newsletter also included a link to the survey and the City's LHMP project website.

In total, 272 individuals completed the online survey. Additionally, a representative from the Benicia Emergency Response Team (BERT) brought physical copies to Casa Vilarrasa and Rancho Benicia Mobile Home Park to engage especially vulnerable residents (low income and elderly). A total of 13 surveys were collected from Rancho Benicia Mobile Home Park and Casa Vilarrasa Senior Apartments, creating a total of 283 responses.



Demographics

Of the 283 participants, 281 answered about their relationship to the City of Benicia. In total, 64.1% (180 individuals) live in the City of Benicia, while 21% (59 individuals) live and work in the City. Two respondents were neither a resident nor an employee in the City.

	Response %	Total Responses
I live in the City of Benicia	64.1%	180
I work in the City of Benicia	14.2%	40
I live and work in the City of Benicia	21.0%	59
Neither, but I am an interested party	0.7%	2

Existing and Potential Hazards

Community members were asked about hazards that had already impacted their homes, as well as what potential hazards were of the most concern to them. Over one quarter (27.8%) of respondents had been impacted by a disaster at their current residence. Of those that had been impacted, drought, earthquake, and flooding were the most common hazards experienced. Impacts from earthquakes, drought, and wildfire were the potential hazards that concerned respondents the most. The potential of tsunami was of lowest concern.

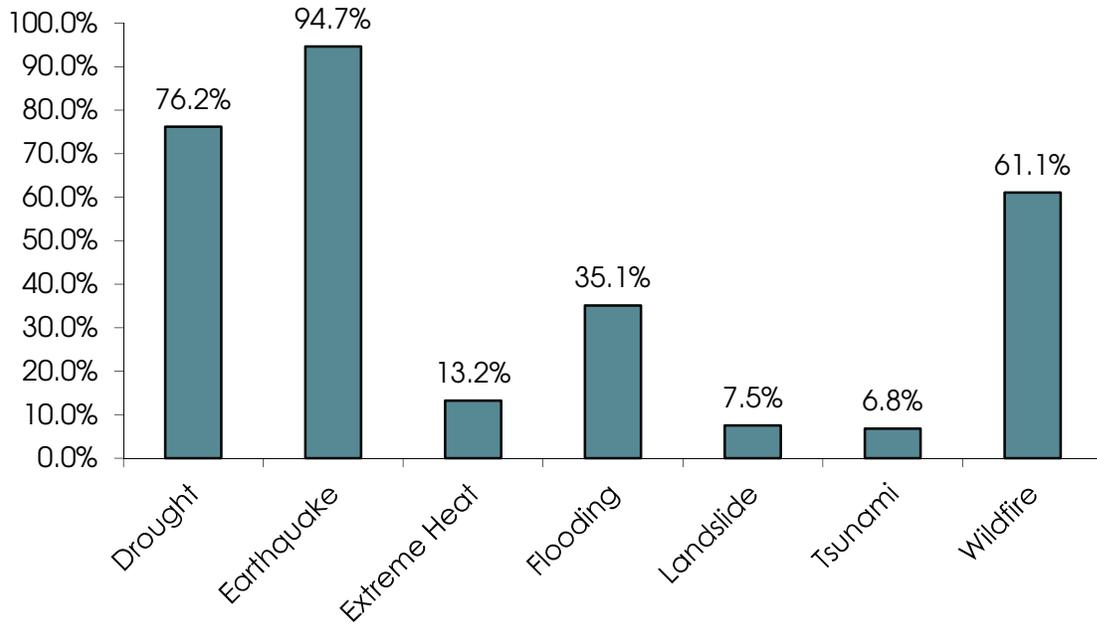
Have you been impacted by a disaster in your current residence?

	Response %	Total Responses
Yes	27.8%	73
No	72.2%	190

Select the disasters that you have been impacted by in your current residence

	Response %	Total Responses
Drought	55.6%	45
Earthquake	33.3%	27
Extreme Heat	6.2%	5
Flooding	25.9%	21
Landslide	1.2%	1
Tsunami	2.5%	2
Wildfire	16.0%	13

Hazards of most concern to your neighborhood



Hazard of most concern to your neighborhood

	<i>Response %</i>	<i>Total Responses</i>
Drought	76.2%	202
Earthquake	94.7%	251
Extreme Heat	13.2%	35
Flooding	35.1%	93
Landslide	7.5%	20
Tsunami	6.8%	18
Wildfire	61.1%	162

Personal Preparedness

In addition to identifying hazards of concern, participants were asked to explain individual steps they have taken toward increasing their individual preparedness for disaster. This understanding, while limited to the survey sample, can indicate the potential ability of the community to respond and recover from disaster.

Over half of respondents currently own most of the 18 items recommended for the 72 hours immediately after a disaster, e.g., cooking utensils and flashlights. Of the 18 items recommended, only 6 were owned by less than half of the respondents: cash, pet supplies, handheld “walkie-talkie” radios (with batteries), important family photos/documentation in a water- and fireproof container, gasoline, and a secondary source of heat.

If a severe hazard event occurred today such that all services were cut off from your home (power, gas, water, sewer) and you were unable to leave or access a store for 72 hours, which of these items do you have readily available?

	<i>Response %</i>	<i>Total Responses</i>
Can opener	93.1%	228
Cooking and eating utensils	89.8%	220
Flashlight (with batteries)	89.8%	220
First aid kit/supplies	87.8%	215
Canned/nonperishable foods (ready to eat)	82.9%	203
Blanket(s)/sleeping bag(s)	79.2%	194
Extra clothes and shoes	78.4%	192
Extra medication	69.8%	171
Gas grill/camping stove	69.4%	170
Potable water (3 gallons per person)	63.3%	155
Portable AM/FM radio (solar-powered, hand crank, or batteries)	62.4%	153
Telephone (with batteries)	50.2%	123
Cash	49.4%	121
Pet supplies	47.8%	117
Handheld walkie-talkie radios (with batteries)	36.3%	89

	<i>Response %</i>	<i>Total Responses</i>
Secondary source of heat	29.0%	71
Important family photos / documentation in a water- and fireproof container	26.1%	64
Gasoline	24.5%	60

Employer Preparedness

In addition to identifying personal preparedness actions taken, respondents were asked to identify the steps their employers had taken to mitigate the impacts of natural hazards on their businesses and employees. A majority of survey takers confirmed that their employers have a plan for disaster recovery in place and a workforce communications plan.

Does your employer have a plan for disaster recovery in place?

	<i>Response %</i>	<i>Total Responses</i>
Yes	57.4%	78
No	16.9%	23
I don't know	25.7%	35

Does your employer have a workforce communications plan to implement following a disaster so they are able to contact you?

	<i>Response %</i>	<i>Total Responses</i>
Yes	55.3%	78
No	16.3%	23
I don't know	28.4%	40

Community Preparedness

A connected community builds resiliency by allowing neighbors to lend a helping hand on a short-term basis until emergency response personnel or supplies arrive. Identifying and understanding the needs of vulnerable neighbors (including the elderly, very young, or disabled) allows community members to adequately assist those around them. In the survey, the City found that about a third of respondents (38.1%) felt as though they were familiar with the special needs of their neighbors in the event of a disaster.

Are you familiar with the special needs of your neighbors in the event of a disaster situation? (Special needs may include limited mobility, severe medical conditions, and memory impairments.)

	<i>Response %</i>	<i>Total Responses</i>
Yes	38.1%	94
No	61.9%	153

Another way to improve community preparedness is to encourage community members to participate in local or national emergency preparedness programs, such as training through BERT, Citizens Organized to Prepare for Emergencies (COPE), or the American Red Cross. Volunteers in these programs are trained in basic emergency response skills, including search and rescue, team organization, and evacuation safety procedures. During an emergency, community members who are certified can care for and protect others and assist and supplement emergency response professionals.

Have you participated in local or national emergency preparedness programs, such as Citizens Organized to Prepare for Emergencies (COPE), Benicia Emergency Response Team (BERT), or the American Red Cross?

	<i>Response %</i>	<i>Total Responses</i>
Yes	48.8%	119
No, but I would like to learn more about these programs	32.8%	80
No, I am not interested in learning more about emergency preparedness programs.	18.4%	45

Community members were also asked to identify what avenues they would like to see the City pursue to improve resiliency and community engagement in future emergencies. A majority of participants selected all of the actions, with “Provide effective emergency notifications and communication,” at 84.7%, being the most popular. In line with participant desire for more effective emergency communications, the survey also asked how respondents got information about emergencies as well as general information about Benicia. For both scenarios, Cable Channel 27 and the local newspaper were the most common responses. Additionally, participants who entered an alternative source most commonly cited the radio as their primary source of information.

How can the City help you become more prepared for a disaster?

	<i>Response %</i>	<i>Total Responses</i>
Provide effective emergency notifications and communication.	84.7%	200
Provide training and education to residents and business owners on how to reduce future damage.	60.2%	142
Provide community outreach regarding emergency preparedness.	70.8%	167
Create awareness of special needs and vulnerable populations.	55.1%	130

In an emergency, where are you most likely to look for information?

	Average Points (1-5 Scale)	Total Responses
City of Benicia Website (www.ci.benicia.ca.us)	2.38	192
Social Media (Facebook, Twitter or NextDoor)	2.08	187
Cable Channel 27	3.24	190
Local Newspaper (Benicia Herald or Vallejo Times Herald)	3.66	182

On a daily basis, where are you most likely to look for information about the City?

	Average Points (1-5 Scale)	Total Responses
City of Benicia Website (www.ci.benicia.ca.us)	2.02	175
Social Media (Facebook, Twitter or NextDoor)	2.10	173
Cable Channel 27	3.57	157
Local Newspaper (Benicia Herald or Vallejo Times Herald)	2.90	179