

Prepared by Water Systems Consulting, Inc. (WSC), and the City of Santa Barbara, Water Resources Division, pursuant to California Water Code, Section 10631

MUSC

Adopted by the Santa Barbara City Council on June 28, 2021 as Agenda Item No. 14

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List of Abbreviations and Acronyms

Act	California Urban Water Management Planning Act
AF	acre-feet
AFY	acre-feet/year
City	City of Santa Barbara
СОМВ	Cachuma Operation and Maintenance Board
CWC	California Water Code
DWR	California Department of Water Resources
LTWSP	Long-Term Water Supply Plan
SBMC	Santa Barbara Municipal Code
SCADA	supervisory control and data acquisition
SWP	California State Water Project
USBR	United States Bureau of Reclamation
USGS	United States Geological Survey
UWMP	Urban Water Management Plan
WSCP	Water Shortage Contingency Plan

1 Water Shortage Contingency Plan

This Water Shortage Contingency Plan (WSCP) is a detailed plan for how the City of Santa Barbara (City) intends to respond to water shortages. The WSCP is used to provide guidance to the City's Water Commission and City Council, staff, and the public by identifying response actions to allow for efficient and equitable management of water shortages.

Water shortages can be triggered by a hydrologic limitation in supply (i.e., a prolonged period of belownormal precipitation and runoff); limitations or failure of supply, treatment, and/or conveyance infrastructure; or both. Hydrologic or drought limitations tend to develop and abate more slowly, whereas infrastructure failure tends to happen quickly and relatively unpredictably. Water supplies may be interrupted or reduced significantly in several ways, such as during a drought that limits supplies; a catastrophic event, such as an earthquake, that damages water delivery or storage facilities; a regional power outage; or a toxic spill that affects water quality.

The WSCP describes the following:

- 1. Water Supply Reliability Analysis: Summarizes the City's water supply analysis and reliability, and identifies any key issues that may trigger a shortage condition.
- 2. Annual Water Supply and Demand Assessment Procedures: Describes the key data inputs, evaluation criteria, and methodology for assessing the system's reliability for the coming year, and the steps to formally declare any water shortage levels and response actions.
- 3. **Standard Shortage Stages:** Establishes water shortage levels to clearly identify and prepare for shortages.
- 4. Shortage Response Actions: Describes the response actions that may be implemented or considered for each stage to reduce gaps between supply and demand and to minimize social and economic impacts to the community
- 5. **Communication Protocols:** Describes communication protocols under each stage to ensure that customers, the public, and government agencies are informed of shortage conditions and requirements
- 6. **Compliance and Enforcement:** Defines compliance and enforcement actions available to administer demand reductions
- 7. **Legal Authority:** Lists the legal documents that grant the City the authority to declare a water shortage and implement and enforce response actions
- 8. **Financial Consequences of WSCP Implementation:** Describes the anticipated financial impact of implementing water shortage stages and identifies mitigation strategies to offset financial burdens
- 9. **Monitoring and Reporting:** Summarizes the monitoring and reporting techniques to evaluate the effectiveness of shortage response actions and overall WSCP implementation; results determine if additional shortage response actions should be activated or if efforts are successful and response actions should be reduced
- 10. WSCP Refinement Procedures: Describes the factors that may trigger updates to the WSCP and outlines how to complete an update
- 11. Special Water Features Distinctions: Defines ponds, lakes, fountains, pools, and spas, etc.
- 12. Plan Adoption, Submittal, and Availability: Describes the process for the WSCP adoption, submittal, and availability after each revision

This WSCP was prepared in conjunction with the City's 2020 Urban Water Management Plan (UWMP) and is a stand-alone document that can be modified as needed. This document is compliant with the California Water Code (CWC) Section 10632 and incorporates guidance from the State of California Department of Water Resources (DWR) UWMP Guidebook.

The plan is intended to provide guidance, rather than absolute direction, for City action in response to water shortages and provide the City with options to responsibly manage water shortages.

1.1 Water Supply Reliability Assessment

Chapter 7 of the City's 2020 UWMP describes the reliability of the City's water supply by comparing supply and demand projections through 2050 for normal, single dry, and multiple dry years. The chapter also assesses the drought risk over the next five years (2021–2025) assuming the driest five-year period is repeated over the next five years. Water supply reliability reflects the City's ability to meet the water needs of its customers with available water supplies under varying conditions. The analysis considers plausible hydrological and regulatory variability, climate conditions, and other factors that affect the City's 2020 Enhanced UWMP for the full assessment.

1.1.1 Supply Characterization

The diversity of the City's water supply portfolio is an important factor in assessing the reliability of the water supply under a variety of hydrologic conditions as well as the ability to store multiple years of demand in Lake Cachuma. In normal conditions, the City's primary water supply is surface water from the Santa Ynez River stored in both Lake Cachuma and Gibraltar Reservoir, including carryover storage from unused Cachuma allocations, and desalination. These supplies are augmented with limited groundwater production (which is typically preserved by the City for droughts and emergencies), State Water Project (SWP) deliveries, and recycled water. These additional supplies typically offset any reduced inflows into Lake Cachuma and Gibraltar Reservoir that would occur in a single year of below-average rainfall conditions.

A single dry year has little effect on availability of Cachuma supplies, because the multiyear reservoir typically has storage available from previous years. However, because Gibraltar is a much smaller reservoir than Cachuma, available supply from Gibraltar Reservoir could potentially be significantly reduced, depending on how dry the year is. In this situation, the City's annual water supply assessment will determine whether to offset the supply deficiency with added State Water deliveries, increased groundwater pumping, or additional use of Cachuma supplies.

The critical drought period for the City's water supply occurs when there are multiple consecutive years of below-average rainfall. This is due to the hydrology of the Santa Ynez River, where little or no inflow to Cachuma Reservoir occurs until there is at least a year of average rainfall. When the condition of average or less rainfall continues for multiple years in succession, the storage level of Cachuma Reservoir drops and shortages in deliveries occur.

1.1.2 Supply and Demand Assessment

For the water service reliability analysis, the following supply availability assumptions were applied for the normal, single-dry-year, and multiple-dry-year conditions for each of the City's supplies:

- Normal Year: Average supply availability during the entire 1942–2019 simulation
- Single Dry Year: The year with the lowest water supply available to the City (2016)
- **Multiple Dry Year**: The five-year historical sequence with the lowest precipitation at Lake Cachuma (2012–2016)

As shown in Table 1, the City has sufficient supplies to meet demands in a normal year, a single dry year, and multiple dry years, with the need for 20% extraordinary conservation¹ above and beyond the City's regular water conservation program in the fifth year of a five-year drought. As shown in the table, in normal years, the City has roughly an excess of 7,000 acre-feet per year (AFY) of available supplies that can be used to prepare for dry periods. For example, unused Cachuma Project water could be stored for use in future years as carryover water. This approach is shown in a single dry year with no Cachuma Project allocations or Gibraltar Reservoir supplies; the City can meet demands through the use of carryover water storage at Lake Cachuma. In multiple dry years, due to limited supplies and assuming no Cachuma carryover water availability, demands are assumed to be reduced by 20% through extraordinary conservation¹ measures in the fifth year. During the recent extended drought, City customers achieved 40% conservation by 2016, which is the fifth year in the multiple-year drought plan, so the City is confident extraordinary conservation can be achieved during an extended drought, if necessary.

Year	ltem ¹	2025	2030	2035	2040	2045	2050
Nemeral	Supply Totals	20,820	22,680	22,660	22,640	22,620	22,620
Normai	Demand Totals	13,890	14,600	14,580	14,720	14,910	15,160
rear	Difference	6,930	8,080	8,080	7,920	7,710	7,460
Circula David	Supply Totals ²	13,890	14,600	14,580	14,720	14,910	15,160
Single Dry	Demand Totals	13,890	14,600	14,580	14,720	14,910	15,160
icai	Difference ²	0	0	0	0	0	0
Multiple Dr	y Years						
Einst Vaan	Supply Totals	23,050	24,930	24,930	24,930	24,930	24,930
First Year	Demand Totals	13,890	14,600	14,580	14,720	14,910	15,160
(2012)	Difference	9,160	10,330	10,350	10,210	10,020	9,770
Second	Supply Totals	22,350	24,220	24,220	24,220	24,220	24,220
Year	Demand Totals	13,890	14,600	14,580	14,720	14,910	15,160
(2013)	Difference	8,460	9,620	9,640	9,500	9,310	9,060
Thind Veen	Supply Totals	20,680	22,560	22,560	22,560	22,560	22,560
(2014)	Demand Totals	13,890	14,600	14,580	14,720	14,910	15,160
(2014)	Difference	6,790	7,960	7,980	7,840	7,650	7,400
Fourth	Supply Totals	16,300	18,170	18,170	18,170	18,170	18,170
Year	Demand Totals	13,890	14,600	14,580	14,720	14,910	15,160
(2015)	Difference	2,410	3,570	3,590	3,450	3,260	3,010
	Supply Totals	12,020	13,900	13,900	13,900	13,900	13,900
(2016)	Demand Totals ³	11,110	11,680	11,660	11,770	11,930	12,120
(2010)	Difference	910	2,220	2,240	2,130	1,970	1,780

 Table 1. Supply and Demand Comparison Summary (AFY)

1. Refer to supply assumptions in the text above the table. Values are rounded to the nearest 10.

2. Cachuma Project carryover water is used to meet demand remaining after other available supplies.

3. Extraordinary conservation measures, which are above and beyond the City's adopted conservation program, are assumed to be implemented to reduce demand by 20% in Year 5.

¹ Extraordinary conservation is additional conservation measures above and beyond the City's regular water conservation program that are required to enable the City to meet water demands using available supplies.

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1.1.3 2021–2025 Drought Risk Assessment

The Drought Risk Assessment for the upcoming five years (2021–2025) is based on the five driest years on record (2012–2016). Based on the projected demands and available supplies, Figure 1 presents the projected supplies used to meet demands and the remaining available supply each year. As shown, Cachuma carryover water is used starting in 2023 as Cachuma allocations decrease, and the City still has supplies available at the end of the five-year drought. Note that these projections contrast with the need to implement extraordinary conservation measures during the previous drought due to the addition of desalination, which adds a drought-proof supply and allows the City to accumulate carryover storage in Cachuma for use in future years. The City did not have Cachuma carryover storage at the beginning of the last drought because Lake Cachuma spilled in 2011, which resulted in all carryover storage being lost, and the desalination plant did not produce water until 2017.



Figure 1. 2021–2025 Drought Risk Assessment, Supply and Demand Projections

Note: Supply projections assume drought conditions extend through 2025. Refer to the City's 2020 UWMP Chapter 7 for supply and demand assumptions.

1.1.4 Water Supply Reliability Risks

A range of issues could lead to supply shortages. However, extended drought conditions are the most likely threat. The 2021 Long-Term Water Supply Plan (LTWSP) (1) analyzed the most impactful risks associated with the City's supply projections, shown in Table 2. The topics listed in the table were analyzed by comparing supply and demand with risk-adjusted supplies to understand reliability under potential future conditions. Also, resilience scenarios, such as temporary loss of one or more supplies from an earthquake, were analyzed. The result of the analysis was a series of recommendations and an Adaptive Management Plan for the City to implement when supply or demand conditions change in the future.

Table 2. Supply Risks

Risk	Description
Climate Variability	More extreme droughts, increased irrigation demand, reduced yield, more intense rainfall/flooding, and higher variability from surface water supplies.
Lake Cachuma Increased Releases	Potential reduction in Cachuma supplies from an update to the 2000 Biological Opinion, which impacts current Cachuma operations.
Gibraltar Reservoir High Sedimentation	Increased rate of sedimentation due to wildfires, which reduces the Gibraltar Reservoir storage volume and annual Gibraltar yield. Obtaining a Warren Act Contract, as specified in the Pass-Through Agreement, with the United States Bureau of Reclamation (USBR) would shift lost Gibraltar storage capacity to Lake Cachuma.
Megadrought ¹	A prolonged drought lasting two decades or longer.
Surface Water Quality Degradation	Surface water quality degradation due to wildfires and warmer temperatures impact Cachuma and Gibraltar, making them susceptible to algae blooms, which negatively impact water quality.
Ocean Water Quality Degradation	Ocean water quality degradation scenarios from algae blooms, debris flows, oil spills, and sewage spills would temporarily prevent intake of seawater for desalination.
Desalination Regulations	Permanent loss or reduction of desalination supply due to changes in law or regulatory policy would return the City to supply conditions prior to the desalination plant activation in 2017.
SWP Yield	SWP annual allocations are highly variable, and average yield projections have declined with each successive Delivery Capability Report from DWR. The City does not benefit from average and wet supplies due to lack of storage beyond carryover water in San Luis Reservoir. Delta Conveyance Project construction would further reduce the reliability of SWP water, because San Luis Reservoir will spill more frequently and the City loses this carryover water after spill events.

 Per Williams, et al (2020) (2), "Global warming has pushed what would have been a moderate drought in southwestern North America into megadrought territory. Williams et al. used a combination of hydrological modeling and tree-ring reconstructions of summer soil moisture to show that the period from 2000 to 2018 was the driest 19-year span since the late 1500s and the second driest since 800 CE. This appears to be just the beginning of a more extreme trend toward megadrought as global warming continues."

1.2 Annual Water Supply and Demand Assessment

As established by CWC Section 10632.1, urban water suppliers must conduct annual water supply and demand assessments and submit an annual water shortage assessment report to DWR with information on anticipated shortages, triggered shortage response actions, and compliance and enforcement actions consistent with the WSCP. Beginning in 2022, the City must prepare an annual water supply and demand assessment and submit an Annual Water Shortage Assessment Report to DWR. The Annual Water

Shortage Assessment Report will be due by July 1 of every year (July 1, 2022, is the first due date). Per CWC, the annual assessment must include:

- The written decision-making process that the City will use each year to determine its water supply reliability
- The key data inputs and assessment methodology used to evaluate the supplier's water supply reliability for the current year and one dry year², including:
 - Current-year unconstrained demand
 - Available supply in the current year and one dry year
 - o Existing infrastructure capabilities and plausible constraints
 - A defined set of locally applicable evaluation criteria that are consistently relied on for each annual water supply and demand assessment
 - A description and quantification of each source of water supply

The City has an existing annual assessment process in place that goes beyond the CWC annual assessment requirements. The City's process comprises an **Annual Water Supply Management Report** and **Annual Water Supply Outlook**, which are separate activities that are often presented to the City's Water Commission and City Council in conjunction with each other.

The City's Annual Water Supply Management Report is a backward-looking analysis that summarizes water supplies and issues for the previous water year, which extends from October 1 to September 30. The report summarizes the following information:

- The status of water supplies at the end of the water year (September 30)
- Drought outlook
- Water conservation and demand
- Major capital projects that improve the City's ability to provide safe and reliable water
- Significant issues that affect the security and reliability of the City's water supplies

The Annual Water Supply Outlook provides an overview of the City's water supplies at the beginning of each water year and includes an analysis of whether the City's available water supplies are sufficient to meet demands over the next three years. The analysis takes a conservative approach, assuming the next three years will be drought years. This conservative planning approach allows staff to evaluate if the City has sufficient water to meet demands under three additional years of drought and, if not, what level of shortage is anticipated. Assumptions used to compile the Annual Water Supply Outlook include:

- Next three water years to be dry no new inflows to Cachuma or Gibraltar
- Current Cachuma storage and projected storage for the next three years (source: Cachuma Operation and Maintenance Board [COMB])
 - Reduced Cachuma allocations based on projected Cachuma storage
- 35% SWP allocation
- Assumes drought-impacted Mission Tunnel intrusion (44 AF/month)
- Current supply availability
 - Cachuma carryover plus Cachuma allocation (source: monthly COMB reports)
 - Gibraltar storage (source: monthly Upper Santa Ynez River Operations Agreement Reports [City])

² The City can consider more than one dry year

- Groundwater storage and pumping capacity (source: USGS water-level data and City wellpumping-capacity data)
- SWP carryover and SWP allocation (source: Central Coast Water Authority Water Delivery Status Report)
- Desal production capacity (source: City data)
- Demands as projected in the UWMP or as adjusted to meet real-time demands

Figure 2 presents a typical annual timeline for preparation and submittal of the Annual Water Supply Management Report and Annual Water Supply Outlook in relation to the water year. If the City is actively engaged in drought response, water supply updates are provided to the Water Commission monthly and the Council as frequently as monthly, as needed. The Water Commission can recommend, and the Council can adopt, new ordinances to change the City's water shortage condition, as described in Section 1.7.

Figure 2. City of Santa Barbara Annual Water Assessment Timeline



1.3 Standard Water Shortage Stages

The City's water shortage planning addresses supply shortages ranging from a slowly developing drought to sudden and potentially catastrophic interruptions, such as earthquakes and/or failure of major system components. Consistent with past plans and experience with severe droughts, including the most recent record drought, this plan uses four stages to structure the City's response to water shortages. It reflects the City's experience that each shortage situation is different and that flexibility is needed to respond to developing water conditions. This is especially important with the increasing diversity of the City's water supply portfolio and the need to comply with State mandates regarding water reduction targets and water use regulations.

The City's water shortage stages and corresponding demand reductions and a description of the corresponding water supply conditions are included in Table 3 and described further in separate sections. The potential reduction measures for each stage are described in Section 1.4.1.

Table 3. Water Shortage Contingency Plan Levels (UWMP Table 8-1)

Stage	Percent Supply Reduction	Category	Water Supply Condition
Normal Supply	0%		Full Cachuma entitlement is projected for the coming water year, and there are no extraordinary shortages in other City supplies.
1	0%–15%	Water Shortage Watch	A Cachuma entitlement reduction is projected for the coming water year, assuming continued dry weather, or an extraordinary reduction in other City supplies has been identified.
2	15%–25%	Water Shortage Alert	Continuing conditions of average or less rainfall have resulted in continued decline in Cachuma storage following a reduction in entitlement, or an extraordinary reduction in other City supplies has been identified.
3	25%–50%	Water Shortage Emergency	Cachuma supplies are projected to be exhausted during the coming water year, or a catastrophic interruption to City water supplies has occurred.
4	>50%	Catastrophic Water System Emergency	Catastrophic interruption to City water supplies has occurred.

1.3.1 Normal Supply Stage

Supplies are considered normal when a 100% Cachuma allocation is projected for the coming water year and there are no extraordinary shortages in other City supplies. While in the normal supply condition stage, the City will:

- Continue efforts to preserve water supply sources, such as management of watersheds to minimize siltation, banking of water as feasible to firm up deliveries through the SWP, and development of optimal groundwater pumping capacity.
- Continue implementation of the City's conservation program with the goal of encouraging water conservation as a way of life, including high-efficiency plumbing retrofits, low-water-using landscaping, efficient irrigation practices, public information regarding water awareness, and tiered rate pricing.
- Extend and expand the use of recycled water where feasible and cost effective.
- Monitor water demands in terms of actual versus projected consumption and cumulative commitments to serve.
- Water use restrictions are limited to prohibition of water waste.

1.3.2 Stage 1 Water Shortage Condition: Water Shortage Watch

A Stage 1 Water Shortage Condition is defined as a short-term water shortage condition declared by Resolution of the City Council upon being advised that a Cachuma entitlement reduction is projected for the coming water year, assuming continued dry weather. A Stage 1 Water Shortage Condition is also

defined as the identification of an extraordinary reduction in other City supplies. During a Stage 1 Water Shortage Condition, the City will take the following actions:

- Staff prepares a report to the Water Commission and City Council addressing:
 - Status of surface water supplies
 - Status of the City's groundwater resources and pumping capability
 - Status of the City's desalination facility and any related cost and permitting issues
 - Projected deliveries of SWP entitlement
 - Anticipated availability of banked water and one-time purchase of water via short-term transfers
 - Possible reduction in Cachuma deliveries to City in excess of reductions agreed to by member units to allow build-up of City carryover at Cachuma
 - A range of water supply scenarios based on various levels of assumed rainfall
- Water Commission and City Council consider staff recommendation regarding adoption of a resolution declaring a Stage 1 Water Shortage Condition
- Public advised of the City's water supply situation; the need for voluntary reductions in water use is expected to range from 0% to 15% at this stage
- Water use restrictions limited to prohibition of water waste

1.3.3 Stage 2 Water Shortage Condition: Water Shortage Alert

A Stage 2 Water Shortage Condition is defined as a short-term water shortage condition declared by Resolution of Council upon being advised that continuing conditions of average or less rainfall have resulted in continued decline in Cachuma storage following a reduction in entitlement. A Stage 2 Water Shortage Condition is also defined as the identification of an extraordinary reduction in other City supplies. During a Stage 2 Water Shortage Condition, the City will take the following actions:

- Staff prepares a report to the Water Commission and City Council addressing:
 - Updated water supply scenarios based on various levels of assumed rainfall or other applicable metrics
 - Need for:
 - Demand reduction by the public
 - Water use restrictions
 - Design and permitting work associated with temporary water supply augmentations
 - Revenue projections and changes in water rates
- City Council considers staff and Water Commission recommendation regarding adoption of a resolution declaring a Stage 2 Water Shortage Condition
- Public advised of need for mandatory water conservation savings in the range of 15%–25%
- City determines the need for water use restrictions pursuant to Santa Barbara Municipal Code (SBMC) Section 14.20.215 (Attachment 1) and incorporates appropriate exemptions into the water shortage resolution
- Public information effort is aimed at advising the public regarding:
 - The City's water supply situation
 - o Efforts being made by the City to minimize impacts of the water shortage
 - The public's role in achieving demand reductions
 - Enforcement of water use restrictions, pursuant to Council direction

• Review of revenue projections and implementation of rate changes, if necessary, pursuant to Council direction

1.3.4 Stage 3 Water Shortage Condition: Water Shortage Emergency

A Stage 3 Water Shortage Condition is defined as a short-term water shortage condition declared by Resolution of Council upon being advised that Cachuma supplies are projected to be exhausted during the coming water year. A Stage 3 Water Shortage Condition is also defined as the imminence or occurrence of a catastrophic interruption to City water supplies. During a Stage 3 Water Shortage Condition, the City will take the following actions:

- Staff prepares a report to the Water Commission and City Council addressing:
 - Updated water supply scenarios based on various levels of assumed rainfall or other applicable metrics
 - \circ Need for:
 - Further demand reduction by the public
 - Increased water use restrictions, including potential prohibition on uses other than drinking water and sanitation
 - Accelerated design, permitting, and construction work associated with temporary water supply augmentations
 - Evaluation of potential increased supply from desalination facility and from purchases of supplemental water
- City Council considers staff and Water Commission recommendations regarding adoption of a resolution declaring a Stage 3 Water Shortage Condition pursuant to CWC, Chapter 3
- Public advised of need for mandatory water conservation savings in the range of 25%–50%
- Revised demand reduction target announced to public, accompanied by information about how to achieve required reductions and efforts being made by the City to resolve the water shortage condition
- Water use restrictions adjusted as necessary pursuant to SBMC Section 14.20.215.B (Attachment 1)
- Evaluate revenues and the need for rate changes; staff implements changes pursuant to Council direction
- Suspension of development project approvals considered
- Water use restrictions enforced by staff pursuant to Council direction
- Success in meeting reduction targets measured by tracking monthly production of water into the distribution system and by targeted water use analysis of specific water use sectors

While the City's long-term supply planning is based on a maximum planned shortage of 15%, unforeseen circumstances can result in the need to respond to shortages of up to 50%. The City's customers achieved 40% conservation during the most recent drought, and the City still had water shortage response measures that could achieve short-term demand reductions up to 50%, carefully tailored to the situation at hand. Flexible application of water use regulations, development restrictions, allocations, and public information will be used to meet the required demand reduction target.

1.3.5 Stage 4 Water Shortage Condition: Catastrophic Water System Emergency

A Stage 4 Water Shortage Condition is defined as a short-term water service emergency declared by the City Council following a catastrophic event that substantially reduces the City's ability to provide potable water to its customers. The condition may be activated following a major earthquake or other natural disaster that could restrict the City's water service abilities. During a Stage 4 Water Shortage Condition, the City would implement its Emergency Response Plan, which is described in Section 1.4.5.

1.3.6 Standard Water Level Crosswalk

CWC Section 10632(a)(3)(A) includes six standard water shortage levels, corresponding to progressive ranges of up to 10%, 20%, 30%, 40%, and 50% shortages and greater than a 50% shortage. If the supplier's water shortage levels do not correspond with the six standard levels, then a crosswalk between the supplier's stages and the standard levels is required for compliance. The crosswalk between the City's four stages and the standard water shortage levels is shown in Figure 3.

		-		
Figure -	3. Water	Shortage	Stages	Crosswalk
		00	000.900	0.000

City of Santa Barbara Water Shortage Stage	Percent Supply Reduction		Standard Water Shortage Levels	Percent Supply Reduction
1	10%	4	1	10%
			2	20%
2	25%		3	30%
3	50%		4	40%
			5	50%
4	> 50%	◆	6	>50%

1.4 Shortage Response Actions

This WSCP identifies various actions to be considered by the City Council during the various water shortage stages, including public information, water conservation assistance, supply augmentation, water use regulations, development approvals, and demand tracking. In the event of a water shortage emergency, the City will evaluate the cause of the emergency to help inform which response actions should be implemented. Depending on the nature of the water shortage, the City can elect to implement one or several response actions to mitigate the shortage and reduce gaps between supply and demand. It should be noted that all actions listed for Stage 1 apply to Stages 2, 3, and 4. Likewise, Stage 2 actions apply to Stages 3 and 4, while Stage 3 actions apply to Stage 4. If necessary, the City may adopt additional actions not listed here in extreme circumstances. SBMC Chapter 14.20 (Attachment 1) provides standing authorization for water use restrictions and prohibitions to become effective upon adoption of a Water Shortage Resolution at any regular meeting of the City Council. An example water shortage resolution is included in Attachment 2.

1.4.1 Demand Reduction

Whether during normal supply or water shortage conditions, the City implements a comprehensive water conservation program pursuant to the 2021 LTWSP (1). Public information, building code standards, workshops, rebates, and tiered rates are ongoing during normal supply conditions and adjusted to target needed reductions during water shortage conditions. Table 4 identifies demand reduction methods that are considered during water shortage conditions. These methods were effective in providing substantial reductions in demand during the drought of the late 1980s and the recent record drought that commenced in 2012.

 Table 4. Demand Reduction Actions (UWMP Table 8-2)

Shortage	Demand Deduction Astions	How much is this going to reduce the	Additional Fundamentian on Defense	Penalty, Charge, or Other
Level	Demand Reduction Actions	snortage gap?"	Additional Explanation or Reference	Enforcement
All	Expand Public Information Campaign	0%–5%	presentations to community groups, workshops, and enhanced website resources.	No
All	Offer Water Use Surveys	0%–1%	Indoor and outdoor water checkups are available to all customer classes.	No
All	Provide Rebates on Plumbing Fixtures and Devices	0%-1%	Offer or expand rebates on a variety of plumbing fixtures that are high efficiency such as washers, toilets, and urinals.	No
All	Provide Rebates for Landscape Irrigation Efficiency	0%–1%	Offer or expand rebates for drip irrigation conversions, smart irrigation controllers, water-wise plants, and rain sensors to improve efficiency.	No
All	Provide Rebates for Turfgrass Replacement	0%-1%	Offer or expand rebates for community members who wish to replace their turfgrass with a water-wise garden.	No
All	Decrease Line Flushing or Pursue Zero Discharge Flushing Methods	0%–1%	The City uses zero-discharge water recycling trucks for water main and wastewater collection system cleaning.	No
All	Other — Leaky device	0%–1%	Customers are required to repair any leaky or malfunctioning devices within 72 hours of notification of leak.	Yes
All	Landscape — Runoff	0%-1%	Landscape irrigation in excess leading to runoff onto nearby surfaces is prohibited.	Yes
All	Other — Post-rainfall prohibition	0%-1%	Prohibit irrigation with potable water during and within 48 hours after measurable rainfall.	Yes
1	Reduce System Water Loss	0%-1%	The City increases efforts to correct water system losses, including repairing leaks and eliminating illicit connections.	No

Shortage Level	Demand Reduction Actions	How much is this going to reduce the shortage gap? ¹	Additional Explanation or Reference	Penalty, Charge, or Other Enforcement
2	Increase Water Waste Patrols	0%-1%	Patrols discourage water wasting and correct water wasting practices in the community.	Yes
2	Other — Nozzles	0%-1%	Only hoses with automatic shutoff nozzle fixtures are permitted.	Yes
2	Other — Prohibit vehicle washing	0%–1%	Prohibit washings cars, boats, trailers, aircraft, or other vehicles except with hose shutoff nozzle or at commercial or fleet vehicle washing facilities using water recycling equipment.	Yes
2	Landscape — Limit landscape irrigation to specific times	0%–5%	Prohibit irrigation during the hours when evaporation is highest.	Yes
2	CII — Lodging linen service	0%-1%	Hotels/motels must provide guests with option to reuse towels and linens for more than one day.	Yes
2	CII — Restaurants serve water upon request	0%–1%	No restaurant, hotel, café, cafeteria, or other public place where food is served shall serve drinking water to any customer unless expressly requested.	Yes
2	Other	0%-1%	Require posting of water shortage notice at restaurants, hotels/motels, and commercial showering and car washing facilities.	Yes
2	Pools and Spas — Require covers for pools and spas	0%-1%	Require covers for swimming pools and spas when not in use.	Yes
3	Other — Prohibit use of potable water for washing hard surfaces	0%–1%	Prohibit use of potable water to wash sidewalks, walkways, driveways, parking lots, open ground, or other hard-surfaced areas except where necessary for public health or safety.	Yes
3	Landscape — Limit landscape irrigation to specific days	5%-10%	Limit to assigned watering days, which may depend on seasonal changes, such as summer and winter.	Yes

Shortage Level	Demand Reduction Actions	How much is this going to reduce the shortage gap? ¹	Additional Explanation or Reference	Penalty, Charge, or Other Enforcement
3	Water Features — Restrict water use for decorative water features	0%–1%	Prohibit use of potable water to fill or maintain decorative fountains and water features unless located indoors or are home to aquatic life.	Yes
3	Other water feature or swimming pool restriction	0%-1%	Restrict draining and refilling of pools by more than one-third of the pool volume.	Yes
3	Other	0%-1%	Limit the use of potable water hydrant meters.	Yes
4	Landscape — Other landscape restriction or prohibition	5%-10%	Restrict irrigation to high-efficiency methods.	Yes
4	Landscape — Other landscape restriction or prohibition	5%–20%	Restrict irrigation to watering by hand only.	Yes
4	Landscape — Other landscape restriction or prohibition	5%–20%	Prohibit/restrict irrigation of turfgrass.	Yes
4	Other	20%–40%	Prohibit all outdoor water use.	Yes
4	Other	20%-70%	Institute water rationing.	Yes
4	Moratorium or Net Zero New Demand	0%-1%	The City may temporarily limit or ban new water service connections within the service area.	No

1. Reduction in the shortage gap is estimated and can vary significantly.

1.4.2 Supply Augmentation

The SWP conveyance infrastructure provides the City with the ability to convey supplemental water purchases to augment drought-year supplies. During the recent drought, the City purchased supplemental water through Central Coast Water Authority. Refer to the 2020 UWMP Section 6.5.2 for more information on supplemental water purchases. Supply augmentation actions are described in Table 5. These augmentations represent short-term management objectives triggered during a water shortage and do not overlap with long-term new water supply development or supply reliability enhancement projects.

 Table 5. Supply Augmentation and Other Actions (UWMP Table 8-3)

Shortage Level	Supply Augmentation Action and Other Actions by Water Supplier	How much is this going to reduce the shortage gap?	Additional Explanation or Reference
All	Groundwater	Varying	Groundwater is pumped from drought storage volume. The amount is dependent on diminished quantity from City's supply portfolio.
All	Water Purchases	Varying	The amount of water purchased is dependent on diminished quantity from City's supply portfolio.

1.4.3 Operational Changes

To address water shortages on a short- and long-term basis, operational changes within the City occur to ensure an efficient and meaningful response. During a time of water shortage, the City will convene a series of task forces, including:

- **Executive Drought Team:** composed of the City Administrator, City department heads, and the Water Resources Manager. This team discusses plans and strategies for responding to the persistent drought conditions.
- Intra-City Drought Team: composed of representatives from Parks and Recreation Department, Airport Department, Fire Department, Fleet Services Division, Facilities Division, Planning Division, Building and Safety Division, Waterfront Department, Office of Emergency Services, Streets Division, and Water Resources Division. This team identifies immediate and long-term watersaving actions that can be implemented throughout the City organization and facilities, with support from Water Resources staff.
- Water Resources Operational Drought Team: composed of management and operational staff from water treatment, water distribution, wastewater treatment, wastewater collections, and water supply management work groups. This team identifies operational opportunities to conserve water as well as practices to implement at water treatment facilities and/or throughout the water and wastewater system.
- **Core Drought Team:** composed of water supply management staff to assess changing water supply shortage conditions and implement the WSCP.

These teams work to facilitate internal City coordination. For example, during the previous drought, the Parks and Recreation Department instituted a successful 2014 Strategic Drought Response Plan (3) that detailed department actions to prioritize potable water use for certain facilities and sensitive/historic resources. The majority of the City's parks are irrigated with recycled water, and increased messaging about the benefits and use of recycled water was also implemented. Similar measures may be considered in the future. Other internal operational changes that may be implemented by the City include:

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- Display messaging highlighting water-saving actions in City facilities, including communal staff areas and public areas such as restrooms, kitchens, and break rooms.
- Limit vehicle washing, in coordination with Fleet Services Division.
- Evaluate frequency of items laundered by laundering contractor.
- Equip field staff with public information material about the drought and water use regulations and educate staff on how to report water waste to enforcement staff.
- Reduce reservoir cleaning.
- Use secondary wastewater effluent as process water for wastewater treatment.
- Reuse plant processing water at water treatment plant.
- Evaluate suspending capital improvement projects that are water intensive and cannot use the water recycler vehicles.
- Require the use of recycled water for dust control for all applicable City projects.

During the previous drought, the City researched, piloted, and invested in two new technologies to reduce the amount of water used in operational practices. The water distribution team purchased a vehicle that flushes water mains by filtering and recycling potable water in the system between two fire hydrants, rather than discharging the water into a nearby storm drain. The wastewater collection team purchased a vehicle that initially fills with recycled water and proceeds to clean the wastewater mains by continuing to recycle the water in the system, rather than using additional recycled or potable water. Use of these vehicles has now become standard practice for the City, and they will continue to be used during normal supply conditions, as well as during a water shortage condition.

1.4.4 Emergency Response Plan

Besides drought, the City water supply may experience a catastrophic interruption as a result of natural disasters such as an earthquake, a tsunami, a wildfire, a mudslide, a regional power outage, or terrorism. Emergency administrative procedures are detailed and periodically updated in the City's Emergency Operations Center Manual.

Planning and response measures in the event of an interruption to the City's water supply include the following:

- A diverse portfolio of supplies provides redundancy that increases the likelihood of being able to meet emergency needs even under catastrophic conditions.
- In advance of a known threat to the City's water system, such as a wildfire, distribution reservoirs will be filled to full capacity, and any reservoir out of service will be put back into service.
- Primary water supply sources and the main treatment plant will supply water to the City via gravity to reduce normal operating costs and minimize disruption during disasters.
- A groundwater production system has been developed and maintained to augment supplies to the distribution system or provide direct emergency drinking water supplies should the

distribution system be put out of service. In the event of a prolonged power outage, power can be provided by portable generators to more than half of the City's major production wells.

- Backup power supplies with automatic transfer switching and supervisory control and data acquisition (SCADA) capability have been installed at the primary water treatment plant and critical distribution pump stations.
- Portable generators will be deployed to critical facilities lacking emergency backup power.
- SCADA is used throughout the distribution system to monitor system problems, whether minor day-to-day problems or major disruptions.
- An ongoing program of water main replacement targets sections of the distribution system with the highest history of breaks.
- Upgraded security, including more secure fencing, video monitoring, and alarms, is being installed at all water supply facilities.
- Public access to water supply facilities has been limited for security reasons.
- City distribution system crews are trained in pipe repair and replacement as a part of their normal duties and are continually ready to perform such work in emergencies.
- All City employees are designated as emergency service workers and would be activated to do damage assessment and repairs and to fill gaps left by staff who live out of town and may be unable to get to Santa Barbara during a disaster.
- The City's emergency response program includes emergency communication procedures that would be used for notifying the public about emergency water use restrictions, potential need to boil tap water before drinking, and locations where drinking water is available in the event of widespread distribution system failure.

Given the diversity of the City's water supply, there is a range of catastrophic supply interruption scenarios that may occur. At the extreme end of the range, a catastrophic seismic event could include failure of both Gibraltar Dam and Bradbury Dam (Lake Cachuma), also impacting State Water deliveries, or failure of Tecolote and/or Mission Tunnels, which convey surface water supplies from Lake Cachuma and Gibraltar Dam, respectively, to the City's treatment plant. Damage to groundwater wells would also be expected. Table 6 summarizes some foreseeable interruptions of higher probability but lesser magnitude. In an actual event, detailed analysis would be conducted to assess the extent and duration of interruption and the alternatives for short-term replacement of lost supplies.

Table 6. Catastrophic Interruption Scenarios

Damage limite	d to distribution system: Main breaks in various parts of the City			
Anticipated Duration: Ranging from days to months, depending on extent of damage				
Value off damaged sections				
 Valve on damaged sections. Inventory customers without service and provide access to emergency drinking water as 				
-	necessary			
•	 Prioritize renair efforts based on health safety and sanitation 			
Collapse of Mis	ssion Tunnel: Supplies from Gibraltar Reservoir and Mission Tunnel infiltration interrupted			
Anticipated Duration: Ranaina from months to a year or more				
Assess extent of remaining tunnel flow.				
•	Restrict irrigation uses.			
 Impose water usage restrictions and notify public to reduce water use to targeted level base 				
on actual circumstances.				
•	Consider increases in SWP delivery requests.			
•	Initiate emergency design and construction process for tunnel repair.			
Collapse of Teo	colote Tunnel: Supplies from Lake Cachuma, tunnel infiltration, and SWP interrupted			
Anticipated Du	ration: Ranging from months to a year or more			
•	Assess extent of remaining tunnel flow.			
•	Curtail most or all irrigation uses.			
•	Impose water usage restrictions and notify public to reduce water use to targeted level based			
Posponsos	on actual circumstances.			
<u>kesponses.</u> ●	Consider extent to which supplies are available to assist neighboring agencies affected by loss			
	of Cachuma deliveries.			
•	Participate with COMB and USBR in emergency design and construction process for repair of			
	tunnel.			
Regional Powe	r Outage			
Anticipated Du	ration: Ranging from hours to weeks			
•	Initiate contact with City Emergency Operations Center.			
•	Activate and monitor backup generators at Cater Treatment Plant and key distribution pumping			
	stations.			
•	Assess supplies of generator fuel and develop a schedule of prioritized fuel needs.			
•	Identify optimal sites for deployment of portable generators (wells, pump stations, treatment			
	system).			
Responses: •	Prepare to issue a consumer alert about potential for: 1) low system pressure, 2) need to curtail water use, and 3) need to boil water before drinking.			
•	Evaluate the need for water quality sampling.			
•	Consider increasing disinfectant residual as a precaution against potential system			
	contamination.			
•	Isolate any segments of known contamination; issue notice not to drink water in the affected areas.			

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In the occurrence of a catastrophic event, City employees are prepared to mobilize to respond to emergent issues, including taking the following actions:

- Assemble supervisors at Public Works Yard, 630 Garden Street.
- Determine which staff are present and which need to be contacted.
- Contact absent staff and direct them to report once families are safe.
- Check status of all equipment, refuel, and restock supplies on vehicles.
- Mobilize Water Resources Laboratory staff at City lab and prepare for anticipated water quality test requests.

• Contact local contractors to be at the ready to provide support.

Dispatch crews will be sent to inspect, patrol, and report on condition of facilities and distribution piping in designated areas of the system based on Table 7.

Table 7. Area Inspection Groups after a Catastrophic Interruption Scenario

Group A - Water Facilities

Vic Trace Reservoir & La Coronilla Pump Station La Mesa Reservoir Escondido Reservoir & Pump Station Hope (Calle Las Caleras) Pump Station Hope Reservoir Campanil Hill Pump Station

Group C – Water Facilities

Reservoir No. 2 Sheffield Reservoirs No. 1 & No. 2; El Cielito Pump Station South Portal of Mission Tunnel Rocky Nook Pump Station Sheffield Pump Station Tunnel Road Reservoir & Pump Station Cater Cross-Tie Pump Station

Group E - Wastewater Lift Stations		
Skofield		
La Colina		
Via Lucero		
Tallant Road		
Miradero Lane		
Andante		
Vista Elevada		

Group B - Water Facilities

Reservoir No. 1 East Reservoir & Bothin Pump Station El Cielito Reservoir & Skofield Pump Station Skofield Reservoir La Vista Reservoir Northridge Pump Station

Group D - Wastewater Lift Stations

Campanil Braemar Cliff Drive Linda Road El Camino De la Luz

Additional actions to be implemented during a catastrophic event include:

- Assign qualified staff to monitor the SCADA telemetry system, to the extent it is still functional, to determine the extent of system damage and the most critical points on the distribution system.
- Conduct a complete inspection of the Cater Water Treatment Plant, Ortega Groundwater Treatment Plant, and Desalination Plant to determine status and extent of damage.
- Contact Cachuma Project operators (USBR and COMB) to determine condition of Bradbury Dam, Tecolote Tunnel, and related facilities.
- Contact the City's dam caretaker at Gibraltar Reservoir to determine condition of Gibraltar Dam and related facilities.
- Contact the City's Water Treatment Superintendent to determine if Mission Tunnel has experienced a disruption of water conveyance.
- Assess condition of City groundwater wells by measuring water levels and well depths and taking water samples for analysis of water quality.
- Assign qualified staff to use the City's hydraulic computer model to simulate identified field deficiencies and run scenarios to identify the most efficient repair, isolation, or reconstruction

recommendations.

- Prioritize distribution system repairs to best meet critical needs, including water for firefighting and health and safety needs; identify a portion of available potable supply to be reserved for drinking water purposes in the event of prolonged interruption.
- Develop materials list for treatment plant and distribution system repairs, and contact California Water/Wastewater Agency Response Network for mutual aid support.
- Allocate available portable generators and pumps according to highest need for groundwater wells, sanitation, firefighting, or powering emergency facilities.
- Develop a clear message for information dissemination to the public that includes:
 - Nature of the catastrophic event
 - o Status of distribution system
 - Water use prohibitions
 - Allowable water uses
 - Potential need to boil drinking water before consumption
 - Location and availability of emergency drinking water, in the event of distribution system failure

For more information on actions during an emergency, refer to the 2020 City of Santa Barbara Water System Risk and Resilience Assessment Report (5) and the City of Santa Barbara Emergency Response Plan (6), currently under development.

1.4.5 Seismic Risk Assessment and Mitigation Plan

Refer to the 2017 Santa Barbara County Multi-Jurisdictional Hazard Mitigation Plan with City of Santa Barbara Local Hazard Mitigation Plan Annex (Attachment 3) for general seismic risk assessment and the 2020 City of Santa Barbara Water System Risk and Resilience Assessment Report (5) for seismic risk assessment specifically related to the City's water system. An updated City of Santa Barbara Emergency Response Plan (3) is currently under development but will detail processes for mitigation. Refer to the previous Section 1.4.5 for an overview of the City's post-catastrophic-event mitigation process.

1.4.6 Shortage Response Action Effectiveness

Measuring reductions in water use is part of regular procedures, whether during normal or water shortage conditions. Water is produced and introduced into the distribution system in response to customer demand and is tracked monthly as an indicator of overall demand. For demand analysis by customer class, geographic area, and usage level, the City's billing system provides standardized reports on monthly metered sales by bill code, as well as customized reports for specific areas of analysis.

During water shortage conditions, savings are measured in comparison to what is considered to be a normal-year demand (i.e., current customer base with approximately average rainfall) or in reference to a specific base year as may be dictated by statewide requirements.

1.5 Communication Protocols

This WSCP includes a staged plan to communicate the declaration of a shortage stage and provide updates during a water shortage emergency. A summary of actions the City could potentially take during a specific shortage stage is outlined in Table 8. As water supply conditions worsen, but before a water shortage is declared, the City increases public outreach on the current water supply conditions, the plans for water shortage response, and the importance of water efficiency to stretch current supplies.

Table 8. Communication Protocol During Water Shortage Conditions

Shortage Level	City Action		
1	Information posted on the City's website and regional water efficiency website, WaterWiseSB.org		
1	Press releases to local media (online and print newspapers, TV, radio, etc.)		
1	Increased messaging with the utility bill (message printed on front and back of bill, flyer insert with bill, message printed on front and back of envelope)		
1	Articles in the weekly City e-newsletter		
1	Articles in the quarterly water e-newsletter		
1	Social media posts (Facebook, Twitter, and Nextdoor)		
2-3	"Weekly Water Conservation Message" emailed weekly to partner organizations to share in their own messaging/newsletters, posted on City social media, sent in City weekly e- newsletter		
2-3	Increased paid advertising — print, online, radio, TV, streaming, social media, movie theaters, buses, etc.		
2-3	Signage in all City public facilities to reduce water usage, such as kitchens and bathrooms		
2-3	Signage on City fountains that are turned off, City turfgrass that is deficit watered or stressed, and sites that use recycled water for irrigation or fountains		
2-3	Letters, postcards, and flyers mailed to residents and businesses impacted by water use regulations		
2-3	Outreach materials and drought notices mailed to the hospitality industry, including restaurants and lodging		
2-3	Flyers posted in public places such as libraries and neighborhood centers or distributed to targeted areas		
2-3	Targeted outreach and technical assistance to highest water users in each classification		
2-3	Coordination with school district to send messaging to parents/guardians		
2-3	Assembly and promotion of the speaker's bureau for water shortage presentations for neighborhood associations, gardening clubs, HOAs, churches, senior centers, business associations, community groups, property management companies, etc.		
2-3	Creation and promotion of videos through City TV and rotation scrolls to display on City TV between programs		
4	Signage posted at nurseries and irrigation supply stores, possibly to include receipt attachments		
4	Increased outreach to the certified Green Gardeners email and mailing list		
4	Increased coordination with the local landscaping industry, including water shortage information in their newsletters, publications, and facilities: California Landscape Contractors Association Channel Islands Chapter, Santa Barbara Botanic Garden, UCCE Master Gardeners, the Permaculture Guild, local wholesale and retail nurseries, and irrigation supply stores		

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Note: If a water shortage progresses through multiple stages, all measures in the previous stage(s) are implemented in addition to current stage actions.

1.6 Compliance and Enforcement

With the exception of irrigation system standards for new homes and buildings, which are administered and enforced through the Building Permit process, all of the prohibitions in Table 4 are subject to the "Penalties and Charges" provisions of SBMC Section 14.20. 226–227, as summarized below:

Violations of SBMC Chapter 14.20:

- 1. First violation within the past year: Written "Notice of Violation" sent to the accountholder and serves as a warning
- 2. Second violation within the past year: Penalty of up to \$250 applied to the accountholder's bill
- 3. Third violation within the past year: Penalty of up to \$250, plus possible installation of a flow restrictor
- 4. Fourth and subsequent violations within the past year: Penalty of up to \$250, plus possible installation of a flow restrictor or possible service shutoff

Accountholders are provided an opportunity for a hearing before the Public Works Director. See Attachment 1 for the complete text of SBMC Chapter 14.20.

1.7 Legal Authorities

SBMC Section 14.20 (Attachment 1) establishes authority for the City Council to adopt resolutions declaring water shortage conditions and adopt appropriate restrictions and prohibitions on water use. Although the SBMC does not apply to water service areas outside City limits, the County of Santa Barbara will adopt the water shortage resolution when necessary, allowing the City to enforce the regulations in those parts of the County located within the City's water service area. Such resolutions can be adopted at any weekly meeting of the City Council. Attachment 1 contains the full text of SBMC Section 14.20. Attachment 2 contains an example water shortage resolution from the most recent drought.

1.8 Financial Consequences of WSCP

As the City activates different stages of response to water supply conditions, the financial position of the water utility is impacted both in revenues and expenses. The operating cost structure of the utility is largely fixed and independent of the level of customer demands. However, the City's water rates are structured such that approximately 30% of rate revenues are collected from fixed monthly service charges and 70% are collected from consumption-related charges. This type of rate structure, combined with tiered pricing, promotes conservation and the efficient use of water and allows customers to considerably change their monthly water bill by using more or less water. As a result of this rate structure, however, when the utility experiences decreasing demand, as is expected when the City activates shortage response actions, there is an immediate impact on revenues, as the majority of revenue comes from volumetric charges. In contrast, the City's operating costs are only slightly reduced because many of the operating costs are fixed.

Although there are some reductions in operating costs related to treatment and delivery of drinking water, the total revenue requirement of the utility generally increases during water shortages. Primarily, this increase is related to the procurement or development of additional water supplies, which can be expensive and have long-term financial impacts on the water enterprise. The Charles E. Meyer Desalination Plant, for example, was originally constructed during a drought in the early 1990s and was financed through debt obligations that were paid over many years. Similarly, the desalination plant was reactivated during the most recent drought of record, and again the City took on debt to finance design

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and construction of the reactivation. These debt payments will be paid by customers in their water bills over the next 20 years. To a lesser extent, there is an increased need in staff resources to implement and manage a water shortage condition. In the past, the City has increased staffing to provide additional public outreach and support professional staff as their workloads become focused on managing water supplies and communicating with decision makers.

The City has used tiered rates to encourage water conservation since 1989. Fiscal Year 2021 rates and allotments are shown in Attachment 4. The tiered system provides standardized allotments for residential customers based on the type of building (single family vs. multifamily) and number of dwelling units. Commercial and industrial allotments are based on historical off-peak usage because appropriate usage rates vary widely for customers in these classes. Irrigation billing provides a first-tier allotment that is a weather-based water budget sufficient for landscapes that are compliant with the City's landscape design standards (4). Usage in excess of the budget is billed at a higher rate.

The tiered rate system worked well during the 1987–1992 drought when tier allotments and prices were modified as necessary to ensure adequate revenue. The system proved to be workable even for the 50% shortages experienced. The City's experience has been that tiered prices and allotments are best determined based on actual circumstances rather than trying to determine appropriate values in advance of the drought based on hypothetical situations. During drought, the City moves to an annual rate setting cycle to allow rates to be more responsive to current demands and the financial environment. The City has a comprehensive water rate model used to balance water system revenues and costs under normal and water shortage conditions. A tiered rate system presents challenges with revenue stability under normal conditions and even more so during water shortages. The rate model enables the City to identify costs of service for the various water supply sources and system components and apply them in accordance with Proposition 218 to identify suitable water rates to meet revenue requirements.

As described above, the City's water utility typically experiences increasing costs and decreasing revenues during water shortage events. All things being equal, this type of situation will lead to significant increases in customer rates without mitigating measures. The water utility may choose to use reserves to cover any gaps between operating revenues and expenditures and buffer potential rate increases for customers.

For the City Water Fund, the policies include the following targets for reserve balances:

- <u>Disaster Reserve</u>: 15% of operating budget
- <u>Contingency Reserve</u>: 10% of operating budget
- <u>Capital Reserve</u>: 5% of Water Fund asset value, or the lesser of the three-year and five-year average annual capital program budget

In addition, it may be necessary to defer certain noncritical capital expenditures to further alleviate rate pressure. However, the long-term deferral of water system infrastructure maintenance leads to increased maintenance costs in the future.

1.9 Monitoring and Reporting

As described in Section 1.2, the City intends to track its supplies and project demands on an annual basis, and if supply conditions described in Table 3 are projected, the City will enact its WSCP. Monitoring demands is essential to ensure the WSCP response actions are adequately meeting reductions and decreasing the supply and demand gap. This will help analyze the effectiveness of the WSCP or identify the need to activate additional response actions.

In 2019, the City deployed a pilot project for advanced metering infrastructure (AMI) technology to improve customer service with granular water usage data and customer leak notifications. The City is currently in the vendor selection process to implement AMI systemwide to monitor usage patterns, detect leaks, and manage water use.

Once AMI is online, the City can also use the detailed water usage data to monitor customers' response and demand reduction due to restrictions for each stage in the WSCP. The many restrictions and prohibitions assigned to each stage in Table 4 are inherently flexible so the City can implement certain restrictions, monitor customer usage, and implement additional restrictions if the demand reductions are not sufficient to close the supply and demand gap. The City also intends to provide reporting to the State based on forthcoming regulations for monthly reporting of water production and other water uses, along with associated enforcement metrics.

1.10 WSCP Refinement Procedures

The City intends to use this WSCP as an adaptive management plan to respond to foreseeable and unforeseeable water shortages. The WSCP is used to provide guidance to City Council, staff, and the public by identifying response actions to allow for efficient management of any water shortage with predictability and accountability. The WSCP will be revised during the UWMP update cycle to incorporate updated and new information. For example, new supply augmentation actions will be added, and actions that are no longer applicable for reasons such as program expiration will be removed. However, if revisions to the WSCP are warranted before the UWMP is updated, the WSCP will be updated outside of the UWMP update cycle.

1.11 Special Water Feature Distinction

As listed in Table 4, there are separate demand reduction actions for decorative water features, including decorative fountains, lakes, or ponds, and for pools and spas. The City has separate response actions, enforcement actions, and monitoring programs for both decorative water features and pools and spas. According to SBMC Section 22.82.020, a swimming pool is defined as any structure intended to contain water over 18 inches deep, and a water feature is any structure intended to contain water over 18 inches deep, including ponds and fountains. Fountains are further defined and regulated in SBMC Sections 22.04.060 and 22.04.030 as residential or nonresidential decorative bodies of water of any depth with a requirement of a recirculating system designed to operate without a continuous supply of water. Nonpool or non-spa water features may use or be able to use recycled water, whereas pools and spas must use potable water for health and safety considerations. Limitations to pools and spas may require different considerations compared to non-pool or non-spa water features.

1.12 Plan Adoption, Submittal, and Availability

Per Water Code Section 10632 (a)(c), the City provided notice of the availability of the Draft 2021 WSCP and notice of the public hearing to consider adoption of the 2021 WSCP. The public review drafts of the 2021 WSCP were posted prominently on the City's website, <u>www.SantaBarbaraCA.gov/WaterVision</u>, on May 3, 2021, more than 14 days in advance of the public hearing. Public hearing notifications were also published in local newspapers. Copies of the hearing notifications are included in Attachment 5.

The Draft 2021 WSCP was discussed with the Board of Water Commissioners on May 20, 2021. The Commission supported the Plan content and recommendations. A public hearing, with public notice, was held before the City Council and reviewed on May 25, 2021. The Council approved and adopted the 2021

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WSCP at its June 29, 2021, meeting after the public hearing. See Attachment 6 for the resolution approving the WSCP.

By July 1, 2021, the adopted 2021 WSCP was sent to the office of the Clerk of the Board, County of Santa Barbara, and the California State Library and DWR. There are no other cities in which the City of Santa Barbara provides water. Once the plan has been adopted, a hard copy will be made available for public review during normal business hours at the City Water Resources Division offices (located at 630 Garden Street). Additionally, an electronic copy will be uploaded to the City's website within 30 days of the filing date and will be available for public reference.

Based on DWR's review of the WSCP, the City will make any amendments in its adopted WSCP, as required and directed by DWR. If the City revises its WSCP after the UWMP is approved by DWR, then an electronic copy of the revised WSCP will be submitted to DWR within 30 days of its adoption.

2 References

1. **WSC.** *City of Santa Barbara Long-Term Supply Plan.* 2021.

2. **A. Park Williams, et al.** *Large Contribution from Anthropogenic Warming to an Emerging North American Megadrought.* s.l. : Science, Apr 17 2020. pp. 314-318.

3. City of Santa Barbara Parks and Recreation Department. 2014 Strategic Drought Response Plan. 2014.

4. Brown and Caldwell. City of Santa Barbara Risk and Resilience Assessment . 2020.

5. City of Santa Barbara Office of Emergency Services. Emergency Response Plan. In progress.

6. City of Santa Barbara. Landscape Design Standards for Water Conservation. 2008. Ordinance.

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Attachment 1: Santa Barbara Municipal Code Chapter 14.20

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Tools - Links - 🗌 🗌

Santa Barbara Municipal Code

TITLE 14 WATER AND SEWERS

Chapter 14.20 WATER REGULATIONS

14.20.005 Use of Water.

The use of all water obtained by or through the distribution facilities of the City shall be governed and controlled by the provisions of this chapter. (Ord. 4558, 1989)

14.20.007 Prohibition Against Waste of Water.

It shall be a violation of this chapter for any consumer or account holder to waste any water obtained from or through the distribution facilities of the City. (Ord. 4558, 1989)

14.20.010 Wasting Water - Repairs - Temporary Shut-Off.

Property owners are required to repair water pipes, faucets, valves, plumbing fixtures, irrigation systems, or any other devices, to eliminate leaks and prevent waste of water. Upon reasonable notice or attempted notice to the occupant, the City may, but has no duty to, temporarily shut off service to any lot where the City reasonably believes there is a leak or other plumbing failure that is resulting in waste of water as demonstrated by water flowing off the property, excessive flow through the meter, or other facts indicating a leak or other plumbing failure. The City shall post a notice on the property stating that the service has been temporarily shut off to prevent further waste of water and advising the customer how to contact the City for restoration of service. Service will be restored upon determination by the Director that the condition that resulted in the disconnection has been corrected. The City will not charge a service fee for temporary shut off or restoration of service. (Ord. 5847, 2018;

Ord. 2931 §2, 1963; prior code §44.30)

14.20.040 City's Relation to Seepage, Etc. - Damage on Private Property.

The City is not responsible for damage to property or injury to persons arising from the installation, maintenance, condition, or use of pipes, plumbing systems, fixtures and other devices located on private property. (Ord. 5847, 2018; Ord. 2931 §2, 1963; prior code §44.33)

14.20.050 Protection of City Water System - Prohibited Activity.

No person shall operate, tamper with, connect to, damage, or modify in any manner any meter, valve, pipe, pump, or other component of the City water system unless the person has obtained a written permit from the Director issued in accordance with this title. This section does not apply to work by City employees or contractors in the performance of their official duties. (Ord. 5847, 2018; Ord. 2931 §2, 1963; prior code §44.34)

14.20.060 Preventing Access to Water System Facilities Prohibited.

No person shall place upon or about a fire hydrant, curbcock, meter, valve, pump, water gate, or other City water facility any vegetation, object, material, debris or structure of any kind that obstructs or prevents free access by City employees or contractors. The City may remove any vegetation, object, material, debris, or structure placed in violation of this section. (Ord. 5847, 2018; Ord. 2931 §2, 1963; prior code §44.42)

14.20.070 Consumer Precautions in Case of Fire.

In case of fire, consumers shall be required to shut off all irrigation or any steady flow of water being used when the fighting of any fire reasonably necessitates the same. (Ord. 2931 §2, 1963; prior code §44.43)

14.20.080 Right of Access to Water Meters.

Any duly authorized representative of the City shall at all times have the right of ingress to and egress from any water meter located upon a consumer's premises by way of such easement, license or right-of-way, if any, as the City may own and for such purposes as are permitted by the easement, license or right-of-way. (Ord.4558, 1989; Ord. 4250, 1984; Ord. 2931 §2, 1963; prior code §44.44)

14.20.090 Access to Meters Inside Premises.

Where a water meter is placed inside the premises of a consumer, provision shall be made for convenient meter reading and repairing by representatives of the City, for shutting off or turning on water service, and for installation or removal of flow restricters. (Ord. 4558, 1989; Ord. 4250, 1984; Ord. 2931 §2, 1963; prior code §44.45)

14.20.100 Shutting Off Water for Repairs, Etc., and Notice.

The City reserves the right to shut off the water from any premises, or from any part of the distribution system, as long as necessary, without notice to the consumer, at any time when the exigencies of the occasion may require it; but in all cases of extension or connections the Department shall notify consumers of the necessity of shutting off water and the probable length of time the water shall be shut off before taking such action. (Ord. 2931 §2, 1963; prior code §44.46)

14.20.105 Shutting Off Irrigation Meters.

The City shall have the right to shut off water service to meters restricted to irrigation uses temporarily and as necessary to determine that the use of such meters is limited to irrigation. Any person applying for service through a meter restricted to irrigation uses shall be informed of such conditions of use at the time he or she applies for such a meter. (Ord. 4558, 1989)

14.20.108 Place of Use of Water.

Except as otherwise provided in this title or as specifically authorized by the Director, water received from or through a meter may be used only on and for the property served by that meter. (Ord. 4558, 1989)

14.20.110 Tanks Required for Steam Boilers.

No stationary steam boiler shall be connected directly with the water distribution system of the City but in each and every case, a suitable tank of storage capacity, sufficient for 12 hours supply for such boiler, shall be provided and the service pipe supplying such tank shall discharge directly into the top of such tank. (Ord. 2931 §2, 1963; prior code §44.47)

14.20.130 Unlawful Use of Water and Meter Removal.

It is unlawful:

A. For a person or entity that is not an Account Holder to use water through a Meter, unless such person or entity is authorized by agreement with the Account Holder to use such water through such Meter;

B. For a person or entity to use water from a fire hydrant, except as authorized by a permit issued by the Public Works Director;

C. For a person or entity to use water from a dedicated fireline except in response to a fire or in the minimum amount needed to perform maintenance of such fireline, or as authorized by the Public Works Director;

D. For a person or entity to use water from a Connection that does not have a Meter, except as expressly authorized by the Public Works Director;

E. For a person or entity to use water from a Meter for which there is no active Account Holder; and

F. For any person or entity to remove a Meter from a Water Service, except as authorized by the Public Works Director. (Ord. 5653, 2014)

14.20.140 Illegal Consumption Shown by Meter.

When a meter shows a consumption of water after service has been officially discontinued, the owner of the property served shall be held responsible for such consumption, in addition to which he or she shall pay to the City a service restoration fee and the water shall not again be turned on for either owner or tenant until such illegal consumption has been fully paid for. (Ord. 4250, 1984; Ord. 2931 §2, 1963; prior code §44.50)

14.20.150 Reconnection.

A. After water service has been discontinued to any premises, it shall not be restored except by the Department. Service may not be restored until a written application signed by the account holder, upon forms furnished by the Department, has been filed with the Department and approved by the Director.

B. The Director may approve a service restoration upon the Director's determination that the connection complies with the requirements of this chapter and the applicant has paid all required reconnection fees in an amount established by City Council resolution. (Ord. 5847, 2018; Ord. 4250, 1984; Ord. 2931 §2, 1963; prior code §44.51)

14.20.170 Notice Upon Vacating Premises - Required.

Prior to vacating any premises connected to the City water supply system, the consumer shall request that the City terminate service and prepare a final billing. (Ord. 4250, 1984; Ord. 2931 §2, 1963; prior code §44.53)

14.20.180 Department to Read Meter on Receipt and Stop Service.

Within two working days of receipt of the notice required by Section <u>14.20.170</u>, the City shall read the water meter and shut off the water to the premises. (Ord. 4250, 1984; Ord. 2931 §2, 1963; prior code §44.54)

14.20.215 Water Use Regulations During Water Shortage Conditions.

A. WATER SHORTAGE CONDITIONS. A Stage One Water Shortage Condition, a Stage Two Water Shortage Condition and a Stage Three Water Shortage Condition are defined as short-term conditions declared by resolution of the City Council upon being advised by staff that projected water supply conditions warrant response measures consistent with those associated with corresponding stages in the City's adopted Water Shortage Contingency Plan. The Council resolution may identify and refer to such short-term conditions in terms or titles specific to the current water shortage.

B. REGULATIONS DURING WATER SHORTAGE CONDITIONS. Upon adoption by the City Council of a resolution declaring a Stage One Water Shortage Condition, a Stage Two Water Shortage Condition or a Stage Three Water Shortage Condition, or such other titles as may be selected by Council pursuant to subsection A, the City Council may adopt a resolution containing such rules and regulations as necessary to restrict and regulate use of water from the City's water supply system in order to protect the public health and safety. Failure of any person or entity to comply with such rules and regulations as adopted by resolution of the City Council is a violation of this code subject to the remedies

and penalties provided herein and as provided by Chapter 1.28 and as otherwise provided by law.

C. EXEMPTIONS. Exemptions to the water use regulations set forth by City Council resolution during a declared Stage One, Stage Two or Stage Three Water Shortage Condition may be granted by the Public Works Director for specific uses of water on the basis of factually demonstrated need or undue hardship and in accordance with guidelines for exemptions as may be determined by the Public Works Director. If the Public Works Director denies a request for an exemption for a specific water use, a written request for reconsideration may be made to the Board of Water Commissioners. The decision of the Water Commission shall be final.

D. Upon the declaration of and during a Water Shortage Condition, the failure of a mobilehome park owner to introduce water into a swimming pool or spa located in a mobilehome park, in accordance with the City Council resolution, shall not be considered an increase in "rent" for purposes of Municipal Code Section 26.08.030.N. (Ord. 5653, 2014; Ord. 4558, 1989)

14.20.225 Violations.

A. Any failure to comply with a provision of this chapter shall constitute a violation of this code, regardless of whether the failure to comply is caused by an Account Holder, a Consumer or any other person or entity.

B. Where the failure to comply with this chapter is continuing and reasonably preventable by the person or entity failing to comply, each successive hour of such failure to comply shall be a separate and distinct violation. (Ord. 5653, 2014; Ord. 4558, 1989)

14.20.226 Penalties and Charges.

A. In addition to the penalties and other methods of enforcement provided in Chapter <u>1.28</u>, the following penalties may also be applied to any violation of any provision of this chapter:

1. For the first violation within the preceding 12 calendar months, the Director shall issue a written notice of the fact of such violation.

2. For a second violation within the preceding 12 calendar months, the Director shall impose a penalty on the bill of the Account Holder for the property where the violation occurred or is occurring, in an amount not to exceed \$250.00.

3. For a third violation within the preceding 12 calendar months, the Director:

a. Shall impose a penalty on the bill of the Account Holder for the property where the violation occurred or is occurring, in an amount not to exceed \$250.00; and

b. May install a flow restricter on the service where the violation occurred or is occurring, for a period to be determined by the Director.

4. For a fourth and any subsequent violation within the preceding 12 calendar months, the Director:

a. Shall impose a penalty on the bill of the Account Holder for the property where the violation occurred or is occurring, in an amount not to exceed \$250.00; and

b. May install a flow restricter on or shut off water service to the property where the violation occurred or is occurring, for a period to be determined by the Director.

B. If a flow restricter is installed or water service shut off pursuant to subsection A of this section, prior to restoration of normal water service the Account Holder whose service is affected shall be required to reimburse the City for all costs it has incurred and will incur in installing and removing a flow restricter and in shutting off and turning on water service.

C. Any penalty imposed pursuant to this section shall be added to the account of the Account Holder for the property where the violation occurred or is occurring and shall be due and payable on the same terms and subject to the same conditions as any other charge for regular water service. (Ord. 5653, 2014; Ord. 4558, 1989)
14.20.227 Notice of Violation - Hearing.

A. For each violation of this chapter, the Director shall give notice as follows:

1. By sending written notice through the U.S. mail to the Account Holder for the property where the violation occurred or is occurring, at the current billing address shown in the City's water billing records; and

2. By personally giving written notice thereof to the person who committed the violation or by leaving written notice with some person of suitable age and discretion at the property where the violation occurred or is occurring; or

3. If neither the person who committed the violation nor a person of suitable age and discretion can be found, then by affixing written notice in a conspicuous place on the property where the violation occurred or is occurring.

B. Any written notice given under this section shall contain a statement of:

- 1. The time, place and nature of the violation;
- 2. The person(s) committing the violation, if known;
- 3. The provision(s) of this chapter violated;
- 4. The possible penalties for each violation;

5. The Account Holder's right to request a hearing on the violation and the time within which such a request must be made; and

6. The Account Holder's loss of the right to a hearing in the event the Account Holder fails to request a hearing within the time required.

C. Any Account Holder provided a notice of violation in accordance with the provisions of this chapter shall have the right to request a hearing. The request must be made in writing and must be received by the Director within 10 calendar days of the date of the notice of violation. The Director shall conduct the hearing, at which both written and oral evidence may be presented, and shall decide whether a violation occurred and the appropriate penalty. In determining the appropriate penalty, the Director shall consider whether the Account Holder knew of the violation at the time it occurred and whether he or she took reasonable action to correct the violation upon notification of it. In addition, the Director shall exercise his or her discretion in accordance with such guidelines as the City Council may adopt by resolution.

1. For a first, second or third violation within a 12 month period, the decision of the Director shall be final.

2. For a fourth or subsequent violation within a 12 month period, the Account Holder shall have the right to appeal the decision of the Director by requesting a hearing before the Board of Water Commissioners ("Board"). The request for hearing before the Board shall be in writing and shall be delivered to the Director not later than seven calendar days after the date of the decision of the Director. At the hearing, the Board may receive and hear both written and oral evidence and shall have the authority to affirm, reverse, or modify the decision of the Director. The decision of the Board shall be final.

D. If an Account Holder fails to request a hearing before the Director or the Board within the period(s) provided in this section, the action of the Director shall be deemed final.

E. Water service shall not be shut off until a notice of violation has become final or there is a final decision of the Director or the Board ordering the shut-off of water service. (Ord. 5653, 2014; Ord. 4558, 1989)

View the desktop version.

Published by Quality Code Publishing, Seattle, Washington.

Attachment 2: Water Shortage Resolution

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RESOLUTION NO. 17-017

A RESOLUTION OF THE COUNCIL OF THE CITY OF SANTA BARBARA ESTABLISHING A REVISED WATER CONSERVATION TARGET AND UPDATED WATER USE REGULATIONS EFFECTIVE DURING A STAGE THREE DROUGHT EMERGENCY, AND REPEALING RESOLUTION NO. 16-173

WHEREAS, the City of Santa Barbara, along with the rest of the State of California, has experienced the driest five-year period on record and such conditions have resulted in the depletion of surface water resources that are the City's primary water supply;

WHEREAS, the City's 2010 Urban Water Management Plan, which was updated in 2015, sets forth the City's Water Shortage Contingency Plan;

WHEREAS, pursuant to the Water Shortage Contingency Plan, on February 11, 2014, the City Council adopted resolution No. 14-009 declaring a Stage One Drought Condition and on May 20, 2014, the City Council adopted Resolution No. 14-027 declaring a Stage Two Drought Condition and imposing water use regulations;

WHEREAS, due to the continued lack of sufficient rainfall, on May 12, 2015, the City Council adopted Resolution No. 15-036 declaring a Stage Three Drought Condition, updating and augmenting water use regulations, and requiring a twenty-five percent (25%) reduction from calendar year 2013 normal citywide water use;

WHEREAS, on April 26, 2016, the City Council adopted Resolution No. 16-023 to increase the required citywide reduction from normal citywide water use to thirty-five percent (35%);

WHEREAS, on December 6, 2016, the City Council adopted Resolution No. 16-173 to increase the required citywide reduction from normal citywide calendar year 2013 water use to forty percent (40%) and to establish a lawn watering moratorium in response to continuing dry weather;

WHEREAS, while recent rainfall has been sufficient to make a modest improvement to the City's water supply and allow minor adjustments to current water use regulations, the drought remains severe and concern remains regarding entitlement limits from Lake Cachuma, depleted groundwater resources, and the potential return of dry weather during the current and subsequent years, thereby making it necessary to continue to conserve existing water supplies to protect the public health, safety and welfare if the current drought continues

WHEREAS, the Water Shortage Contingency Plan provides that, when the City determines that the water supply for the current or impending water year is projected to be more than 10 percent below projected normal demand, a Stage Three Water Shortage

Emergency shall be declared, and such conditions continue to exist;

WHEREAS, Santa Barbara Municipal Code Section 14.20.215 provides for the establishment, by resolution of the City Council, of water use rules and regulations necessary to restrict and regulate the use of water provided by the City's water distribution system during drought, and provides for exemptions to such regulations;

WHEREAS, it is the intent of the City Council to minimize inequities resulting from the implementation of water use regulations;

WHEREAS, on May 9, 2016, the Governor issued Executive Order B-37-16, Making Water Conservation a California Way of Life in California permanently prohibiting practices that waste potable water and extending emergency water conservation regulations through the end of January 2017;

WHEREAS, on February 8, 2017, the State Water Board adopted an emergency water conservation regulation to amend and extend the May 18, 2016 regulation that implemented Executive Order B-37-16;

WHEREAS, the City Council desires to preserve the substantial long-term investment in the community's trees and shrubs and to reserve the remaining amount of available irrigation water for use on trees and shrubs; and

WHEREAS, despite the elimination of the City's regulation prohibiting irrigation of lawns resulting from the adoption of this Resolution, customers of the City water system are urged to voluntarily forego lawn irrigation to the maximum extent feasible throughout the remainder of the drought.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF SANTA BARBARA AS FOLLOWS:

SECTION 1. Since February 11, 2014, there has existed within the City of Santa Barbara a continually worsening Drought Condition, improving slightly with recent rainfall, such that a thirty percent (30%) water use reduction from normal citywide calendar year 2013 water use is now required, based on the City's projected water supply.

SECTION 2. For the protection of public health and safety, the following drought water use regulations regarding use of potable water from the City's water system are hereby established and shall remain in effect for the duration of the Stage Three Drought Emergency, unless repealed or modified by resolution of the City Council:

a. Except as otherwise prohibited by these regulations, any outdoor use of potable water through a hose, pipe, or faucet is permitted only if the water is delivered by use of a self-closing valve that requires operator pressure to activate the flow of water.

b. The outdoor use of potable water from a hose, pipe, or faucet (even if delivered by use of a self-closing valve as provided in Section 2 a) for the purpose of cleaning buildings, pavement, driveways, sidewalks, tile, wood, plastic, or other hard

surfaces is prohibited.

Exceptions:

- i. When such use is the only feasible means of correcting an immediate threat to health and safety.
- ii. In preparation for painting or sealing, provided that such washing occurs immediately prior to such painting or sealing.

Water used pursuant to the above exceptions shall be applied only by use of a pressure washer, mop, bucket, brush, and/or other tools to limit the use of running water to the minimum necessary. A pressure washer is defined herein to be equipment that boosts incoming water pressure for the purpose of enhancing cleaning capability and minimizing the amount of water used;

c. Outdoor irrigation of vegetation is prohibited, except between the hours of 6:00 p.m. and 8:00 a.m. of the following day if automatically controlled and between the hours of 4:00 p.m. and 10:30 a.m. of the following day if manually controlled. Irrigation by hand-held hose is subject to the self-closing valve provision of Section 2.a.

Exceptions:

- i. Irrigation accomplished by use of a water truck that delivers water by injection probe below mulch or below the soil surface;
- ii. Irrigation devices such as tree watering bags and other similar devices that release water at a slow rate for the purpose of watering trees.

d. Irrigation with potable water that causes runoff onto adjacent property, nonirrigated areas, private and public walkways, roadways, parking lots, or parking structures is prohibited.

e. Irrigation with potable water during and within 48 hours after measurable rainfall is prohibited. Measurable rainfall is defined as a ¼ of an inch or more of precipitation in a 24-hour period.

f. Irrigation of turf on public street medians with potable water is prohibited.

g. The issuance of permits for use of potable water from fire hydrants is suspended. Applicants shall be directed to apply for a permit to use recycled water.

h. Washing of vehicles and boats is prohibited except at commercial car washing facilities equipped with water recycling equipment, or by use of a hose, subject to the self-closing valve provision of Section 2.a. Operators of commercial car washing facilities shall post a notice in a conspicuous place advising the public as to whether their operations conform to water recycling requirements.

i. Use of water in any fountain or other decorative water feature is prohibited.

Exceptions: Fountains or other decorative water features that are equipped with a recirculation system are permitted under any of the following circumstances:

- i. At indoor locations;
- ii. On residential properties;
- iii. When total water surface area is less than or equal to twenty five (25) square feet;
- iv. Where, since the May 20, 2014 adoption of Stage Two regulations, aquatic life has existed in the fountain or decorative water feature.

j. Swimming pools and spas must have a cover that conforms to the size and shape of the pool or spa and acts as an effective barrier to evaporation. The cover shall be in place during periods when use of the pool is not reasonably expected to occur.

k. Draining and refilling a pool in excess of one third of the volume per year is prohibited, except as authorized by the Public Works Director based on evidence from qualified maintenance personnel that such further draining is required to make needed repairs, or to prevent equipment damage or voiding of warranties.

I. All restaurants and other eating and drinking establishments shall post, in a conspicuous place, a Notice of Drought Condition as approved by the Public Works Director and shall not serve water except upon specific request by a customer.

m. Operators of hotels, motels and other commercial establishments offering lodging shall post in each room a Notice of Drought Condition as approved by the Public Works Director. Operators of hotels and motels shall provide guests with the option of choosing not to have towels and linens laundered daily. The hotel or motel shall prominently display notice of this option in each guestroom using clear and easily understood language.

n. Operators of pools, exercise facilities, and other similar commercial establishments providing showering facilities shall promote limitation of showering time and post a Notice of Drought Condition as approved by the Public Works Director in a conspicuous place.

SECTION 3. Violation of any regulation in Section 2 of this Resolution is subject to the penalties and charges set forth in Santa Barbara Municipal Code Section 14.20.226.

SECTION 4. Resolution Number 16-173 is hereby repealed in its entirety and of no further force and effect.

RESOLUTION NO. 17-017

STATE OF CALIFORNIA)
COUNTY OF SANTA BARBARA)) ss
CITY OF SANTA BARBARA)

I HEREBY CERTIFY that the foregoing resolution was adopted by the Council of the City of Santa Barbara at a meeting held on March 21, 2017, by the following roll call vote:

AYES: Councilmembers Gregg Hart, Frank Hotchkiss, Randy Rowse, Bendy White; Mayor Helene Schneider

NOES: Councilmembers Jason Dominguez and Cathy Murillo

ABSENT: None

ABSTENTIONS: None

IN WITNESS WHEREOF, I have hereto set my hand and affixed the official seal

of the City of Santa Barbara on March 22, 2017.

Sarah P. Gorman, CMC City Clerk Services Manager

I HEREBY APPROVE the foregoing resolution on March 22, 2017.

Helene Schneider Mayor

Attachment 3: City of Santa Barbara Local Hazard Mitigation Plan Annex

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City of Santa Barbara

Local Hazard Mitigation Plan Annex to Santa Barbara County Multi-Jurisdictional Hazard Mitigation Plan – July 2017



City of Santa Barbara Annex to Santa Barbara County 2017 Multi-Hazard Mitigation Plan

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SECTION 1 INTRODUCTION

The plan was prepared in 2015-2016 as part of an update to the Santa Barbara City 2011 Hazard Mitigation Plan. The City of Santa Barbara participated in the County wide Mitigation Advisory Committee (MAC), reviewed all portions of the previous hazard mitigation plan pertaining to the City, and incorporated relevant components into this plan. This plan serves as a complete hazard mitigation planning tool for the City of Santa Barbara. It contains updated capability assessment information, a new vulnerability assessment, and an updated/revised mitigation strategy. The methodology and process for developing this annex is explained throughout the following sections.

Across the United States, natural and manmade disasters have led to increasing levels of death, injury, property damage, and interruption of business and government services. The impact on families and individuals can be immense and damages to businesses can result in regional economic consequences. The time, money and effort to respond to and recover from these disasters divert public resources and attention from other important programs and problems. Santa Barbara City, California recognizes the consequences of disasters and the need to reduce the impacts of natural hazards. The elected and appointed officials of the City also know that with careful selection, mitigation actions in the form of projects and programs can become a long-term, cost effective means for reducing the impact of natural hazards.

The Santa Barbara City Hazard Mitigation Plan (the Plan), was prepared and formulated with input and coordination from the Mitigation Advisory Committee (MAC), with support from Santa Barbara County, City Office of Emergency Services and City Departments. The process to develop the Plan included nearly a year of coordination with representatives from each City department. The Plan guides the City of Santa Barbara toward greater disaster preparedness and resistance in harmony with the character and needs of its community.

The City of Santa Barbara is located on the south coast of Santa Barbara County. Due to the Santa Ynez mountain range that blocks colder air from the north, Santa Barbara enjoys mild and pleasant weather. It sits at an elevation of roughly 50 feet above sea level and has a land area of 19 square miles. The city received its name when the California Mission Santa Barbara was founded there in 1786. The mission was known as the Queen of the Missions due to its beauty and the beauty of its surroundings. Attractions in Santa Barbara Museums of Art and Natural History, the Santa Barbara Zoo, and special events such Old Spanish Days – Fiesta Santa Barbara. Santa Barbara is retail, tourism, government, education, and medical center of the County. It is home to the Santa Barbara Regional Airport, which provides commercial services for Ventura, Santa Barbara and San Luis Obispo Counties.

Mitigation is commonly defined as actions taken to reduce or eliminate risks to people and property from hazards and their effects. *Hazard mitigation* focuses attention and resources on actions that will reduce or eliminate long term risks to persons or property from natural hazards. The impact of expected yet often unpredictable natural and human-caused events can be reduced through planning. History has demonstrated that it is less expensive to mitigate against disaster damage than to repeatedly repair damage in the aftermath. A mitigation plan states the aspirations and specific courses of action jurisdictions intend to follow to reduce vulnerability and exposure to future hazard events.

It is the City's hope the Plan continues to be used as a tool for all stakeholders to increase public awareness of local hazards and risks, while at the same time providing information about options and resources available to reduce those risks. Informing and instructing the public about potential hazards will help the City protect themselves against the effects of the hazards, and will enable informed decision making on where to live, play and locate homes and businesses.

The emphasis of the Plan is on the assessment and avoidance of identified risks, implementing loss reduction measures for existing exposures and ensuring critical services and facilities survive a disaster. Hazard mitigation strategies and measures avoid losses by limiting new exposures in identified hazard areas, alter the hazard by eliminating or reducing the frequency of occurrence, divert the hazard by redirecting the impact by means of a structure or adapt to the hazard by modifying structures or standards.

Federal legislation has historically provided funding for disaster preparedness, relief, recovery, and mitigation. The Disaster Mitigation Act of 2000 (DMA 2000) is the latest legislation to improve the delivery of mitigation programs through sound and viable planning (Public Law 106-390). The new legislation reinforces the importance of mitigation planning and emphasizes planning for disasters before they occur. As such, DMA 2000 establishes a pre-disaster hazard mitigation program, as well as, outlines requirements for the national post-disaster Hazard Mitigation Grant Program (HMGP).

Section 322 of DMA 2000 specifically addresses mitigation planning at the state and local levels. It identifies new requirements that allow HMGP funds to be used for planning activities, and increases the amount of HMGP funds available to states that have developed a comprehensive, enhanced mitigation plan prior to a disaster. State, County, and local jurisdictions must have an approved mitigation plan in place prior to receiving post-disaster HMGP funds. These mitigation plans must demonstrate that their proposed projects are based on a sound planning process that accounts for the risk to and the capabilities of the individual communities.

State governments have certain responsibilities for implementing Section 322, including:

- Preparing and submitting a local mitigation plan;
- Reviewing and updating the plan every five years; and
- Monitoring Projects.

DMA 2000 is intended to facilitate cooperation between state and local authorities, prompting them to work together. It encourages and rewards local and state pre-disaster planning and promotes sustainability as a strategy for disaster resistance. This enhanced planning network is intended to enable local and state governments to articulate accurate needs for mitigation, resulting in faster allocation of funding and more effective risk reduction projects.

The Plan has been prepared to meet FEMA and Cal OES requirements thus continuing the County's eligibility for funding and technical assistance from state and federal hazard mitigation programs, such as HMGP, Pre-Disaster Mitigation-Competitive, and Flood Mitigation Assistance programs.

SECTION 2 PLAN PURPOSE AND AUTHORITY

Authority to create this Plan is derived from the Robert T. Stafford Disaster Relief and Emergency Assistance Act (Public Law 93-288), as amended by the Disaster Mitigation Act of 2000 (DMA

2000). The requirements and procedures for mitigation plans are found in the Code of Federal Regulations (CFR) at Title 44, Chapter 1, Part 201 and the associated Interim Final Rule changes of February 26, 2002; October 1, 2002; October 28, 2003; September 13, 2004; October 31, 2007; September 16, 2009; April 25, 2014; December 19, 2014; and October 2, 2015. This federal law and associated rule changes and regulations establishes planning and funding criteria for states and local communities.

- *Enhance Public Awareness and Understanding* to help residents of the County better understand the natural hazards that threaten safety and welfare; economic vitality; and the operational capability of critical infrastructure;
- *Create a Decision Tool for Management* to provide information that managers and leaders of local government, business and industry, community associations, and other key institutions and organizations need to take action to address vulnerabilities to future disasters;
- *Promote Compliance with State and Federal Program Requirements* to ensure that Santa Barbara County and its incorporated cities can take full advantage of state and federal grant programs, policies, and regulations that encourage or mandate that local governments develop comprehensive hazard mitigation plans;
- *Enhance Local Policies for Hazard Mitigation Capability* to provide the policy basis for mitigation actions that should be promulgated by participating jurisdictions to create a more disaster-resistant future; and
- Provide *Inter-Jurisdictional Coordination of Mitigation-Related Programming* to ensure that proposals for mitigation initiatives are reviewed and coordinated among the participating jurisdictions within the County.
- Achieve *Regulatory Compliance* To qualify for certain forms of federal aid for pre- and post-disaster funding, local jurisdictions must comply with the federal DMA 2000 and its implementing regulations (44 CFR Section 201.6). DMA 2000 intends for hazard mitigation plans to remain relevant and current. Therefore, Local plans (including Santa Barbara County's) are updated every five years. This means that the Hazard Mitigation Plan for Santa Barbara County uses a "five-year planning horizon". It is designed to carry the County through the next five years, after which its assumptions, goals, and objectives will be revisited and the Plan resubmitted for approval. Section 7 details specific goals and objectives with regard to implementing mitigation activities over the life of this Plan. In Section 8, Santa Barbara County has outlined a more aggressive approach to ensuring the Plan is implemented, evaluated, monitored and updated.

On the following pages are the resolutions that adopted the 2016 Plan.

RESOLUTION NO. 17-089

A RESOLUTION OF THE COUNCIL OF THE CITY OF SANTA BARBARA ADOPTING THE 2017 CITY OF SANTA BARBARA ANNEX OF THE SANTA BARBARA COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

WHEREAS, The Federal Disaster Mitigation Act of 2000 (Act), as described in 44 CFR Section 201.6 mandates local governments to submit and maintain a Federal Emergency Management Agency (FEMA) approved local hazard mitigation plan;

WHEREAS, The City of Santa Barbara has participated in a county-wide multijurisdictional Hazard Mitigation plan with Santa Barbara County Office of Emergency Management as the Operational Area and lead agency;

WHEREAS, The Multi-Jurisdictional Hazard Mitigation Plan identifies each jurisdiction's risk assessment and mitigation strategies to reduce the impacts of natural, technological, or intentional disasters on the public and local government;

WHEREAS, Identification of hazards in the City assists with response planning, exercise development, public education, and awareness, and other emergency management functions;

WHEREAS, the City's Local Hazard Mitigation Plan will be an Annex to the City's Emergency Operations Plan and a resource for the Safety Element of the City's General Plan in accordance with California Government Code Sections 8685.9 and 65302.6;

WHEREAS, FEMA approved the Santa Barbara County Multi-Jurisdictional Hazard Mitigation Plan, of which the City's Local Hazard Mitigation Plan is incorporated; and

WHEREAS, The Federal Disaster Mitigation Act of 2000 requires the Plan to be formally adopted by the City Council or governing agency.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Santa Barbara, California, as follows:

- The City Council approves and adopts the 2017 Local Hazard Mitigation Plan five (5) year update in accordance with the Disaster Mitigation Act of 2000.
- The City Council adopts the Santa Barbara County Multi-Jurisdictional Hazard Mitigation Plan.
- This Resolution is effective upon its adoption.

PASSED AND ADOPTED at a regular meeting of the City Council of the City of August 15, 2017.

Mayor

ATTEST:

City Clerk

RESOLUTION NO. 17-089

STATE OF CALIFORNIA)	
COUNTY OF SANTA BARBARA) :	ss.
CITY OF SANTA BARBARA))	

I HEREBY CERTIFY that the foregoing resolution was adopted by the Council of the City of Santa Barbara at a meeting held on August 15, 2017, by the following roll call vote:

AYES: Councilmembers Jason Dominguez, Gregg Hart, Frank Hotchkiss, Cathy Murillo, Randy Rowse, Bendy White; Mayor Helene Schneider

NOES: None

ABSENT: None

ABSTENTIONS: None

IN WITNESS WHEREOF, I have hereto set my hand and affixed the official seal

of the City of Santa Barbara on August 16, 2017.

Sarah P. Gorman, CMC City Clerk Services Manager

I HEREBY APPROVE the foregoing resolution on August 16, 2017.

Helene Schneider Mayor

2

SECTION 3 PLANNING PROCESS

Overview

The planning process implemented for updating the Santa Barbara County *Multi-Jurisdictional Hazard Mitigation Plan* (HMP) utilized two (2) different planning teams. The first team is the Mitigation Advisory Committee (MAC) and the second is the Local Planning team. All eight (8) incorporated cities (City of Buellton, City of Carpinteria, City of Goleta, City of Guadalupe, City of Lompoc, City of Santa Barbara, City of Santa Maria, and City of Solvang) joined the County of Santa Barbara in the preparation of this *Multi-Jurisdictional Hazard Mitigation Plan*. Each of the participating jurisdictions had representation on the MAC and was responsible for the administration of their Local Planning Team.

The planning process followed the concepts and principles outlined in the Comprehensive Preparedness Guide (CPG) 101. Both the MAC and the Local Planning teams focused on these underling philosophies:

- <u>Focus on the mitigation strategy</u> The mitigation strategy is the plan's primary purpose. All other sections contribute to and inform the mitigation strategy and specific hazard mitigation actions.
- <u>Process is as important as the plan itself</u> In mitigation planning, as with most other planning efforts, the plan is only as good as the process and people involved in its development. The plan should also serve as the written record, or documentation, of the planning process.
- <u>This is the community's plan</u> To have value; the plan must represent the current needs and values of the community and be useful for local officials and stakeholders. Develop the mitigation plan in a way that best serves your community's purpose and people.
- <u>Intent is as important as Compliance</u> Plan reviews will focus on whether the mitigation plan meets the intent of the law and regulation; and ultimately that the plan will make the community safer from hazards.

The planning process for the Santa Barbara County *Multi-jurisdictional Hazard Mitigation Plan* (HMP) incorporated the following steps:

- <u>Plan Preparation</u>
 - Form/Validate planning team members
 - Establishing common project goals
 - Setting expectations and timelines
- Plan Development
 - Validate and revise the existing conditions/situation within planning area; the *Capabilities Assessment and Hazard Assessment Sections* in the HMP
 - Develop and review the risk to hazards (exposure and vulnerability) within the planning area; the *Vulnerability Assessment Section* in the HMP
 - Review and identify mitigation actions and projects within the planning area; the Mitigation Strategy in the HMP
- <u>Finalize the Plan</u>
 - Review and revise the plan
 - Approve the plan

- Adopt and disseminate the plan

Throughout this process, and though other standard practices, opportunities for public involvement was offered and encouraged.

The MAC team was guided through the planning process; and as material was shared and decisions were made, it was the MAC team's responsibility to bring these findings back to their Local Planning Team. Below is a summary of the collaborative planning process of the MAC and Local Planning team.

Mitigation Advisory Committee (MAC)

MAC Members

The Mitigation Advisory Committee (MAC), formed in 2004, is a standing committee that works together throughout the year to discuss and provide input on a variety of activities. The MAC is led by Santa Barbara County Public Works Department and Santa Barbara County Fire, Office of Emergency Services and has representation from all of the local jurisdictions.

The MAC was utilized for the updating of the Santa Barbara County *Multi-Jurisdictional Hazard Mitigation Plan.* To assist with this effort Santa Barbara County Fire, Office of Emergency Services hired a consultant to support and assist each jurisdiction to update their Local Hazard Mitigation Plan; contained as an annex in the Santa Barbara County *Multi-Jurisdictional Hazard Mitigation Plan.* The table below (**Table 0.1**) lists the members of the MAC.

Names	Organization	MAC Member Status
Michael Dyer	Santa Barbara County – Emergency Manager	New Member
Shannon McCrone	Santa Barbara County – Emergency Services Planner	New Member
Robert Troy	Santa Barbara County – Deputy Director Emergency Management	New Member
Tylor Headrick	Santa Barbara County- GIS/Emergency Services Planner	New Member
Steve Oaks	Santa Barbara County Fire – Battalion Chief	New Member
Rob Hazard	Santa Barbara County Fire – Captain	New Member
Rudy Martel	Santa Barbara County Agricultural Commissioner	New Member
Joyce Tromp	Santa Barbara County Flood Control	New Member
Jon Frye	Santa Barbara County Flood	New Member
Tom Fayram	Santa Barbara County Public Works Deputy Director	Returning Member
Matthew Schneider	Santa Barbara County Planning and Development Deputy Director-Long Range Planning	New Member
Marc Bierdzinski	City of Buellton – City Manager/Planning Director	Returning Member
Mimi Audelo	City of Carpinteria – Program Manager	New Member
Claudia Dato	City of Goleta – Senior Project Manager (Public Safety)	Returning Member
Gary Hoving	City of Guadalupe – Public Safety Director	New Member
Kurt Latipow	City of Lompoc – Fire Chief	New Member
Yolanda McGlinchey	City of Santa Barbara – Emergency Services Manager	Returning Member
Roy Dugger	City of Santa Maria – Emergency Preparedness Coordinator	Returning Member
Bridget Elliott	City of Solvang – Associate Engineer	New Member

Table 0.1 Members of the Mitigation Advisory Committee 2016

Names	Organization	MAC Member Status
Jim Caesar	UCSB – Emergency Manager	Returning Member
Lindsey Stanley	Cal OES – Emergency Services Coordinator	New Member
Andrew Petrow	Consultant	New Member

Overview of MAC Meetings

The MAC meetings were arranged and scheduled to follow the planning process steps outlined in Section 3.1. Each meeting was designed to walk the MAC members through sections of the Santa Barbara County *Multi-Jurisdictional Hazard Mitigation Plan* and annexes. In addition to reviewing and validating material, the intent was to also educate MAC members on the planning process and purpose of each section. By taking this step it will help ensure that each MAC member could bring this knowledge back to their Local Planning Teams. The table below (Table 3.2) provides a list and the main purpose of each of the MAC meetings.

Table 0.1 Mitigation Advisory Committee (MAC) Meetings Summary

Date	Purpose
April 2015	Kick Off (in person)
	• Reviewed and discussed the hazards in the Plan; including initial ranking.
	• Each jurisdiction was asked to review their previous goals and objectives with a local
	planning team.
December 2015	MAC Mosting (in parson)
December 2015	A Decen of provious MAC monting
	Goal of the project
	Understanding of HMP undets requirements
	Validation of team members
	Proposed Planning Process
	Review of Canabilities Assessment Section
	• Review of Capacinities Assessment Section
January 2016	MAC Meeting (conference call)
	Recap of previous MAC meeting
	Review of Capabilities Assessment Section
	• Discussion of public outreach efforts
	Preparation for next MAC meeting
February 2016	MAC Meeting (in person)
5	Recap of previous MAC meeting
	Review of Hazard Assessment Section
	Presentation of Vulnerability Assessment results
	• Discussion of public outreach efforts
	Preparation for next MAC meeting
March 2016	MAC Meeting (conference call)
	Recap of previous MAC meeting
	Review of Capabilities Assessment and Vulnerability Assessment Sections
	• Preparation for next MAC meeting
April 2016	MAC Meeting (in person)
	Recap of previous MAC meeting

Date	Purpose
	Initial discussion of mitigation projects and actions
May 2016	 MAC Meeting (conference call) Recap of previous MAC meeting Discussion of mitigation actions and projects Discussion of update process Preparation for next MAC meeting
June 2016	 MAC Meeting (in person) Recap of previous MAC meeting Discussion of mitigation actions and projects Discussion of update process

See Appendix 3A for sign-in sheets and presentations, where applicable.

City Local Hazard Mitigation Planning Team

Local Hazard Mitigation Planning Team Planning Process

Although plans are reviewed yearly by the Emergency Managers Task Team; the formally assembled it's Local Hazard Mitigation Planning Team (LHMP) in 2015 to begin the process of revising the City's portion of Local Hazard Mitigation Plan. The LHMP was developed utilizing key personnel from various departments within the City. The LHMP held meetings to review the all Sections of the Hazard Mitigation Plan and determine appropriate mitigation project and engage the public. The LHMP followed the same process as the County and MAC to keep consistency throughout the planning process.

The LHMP planning process was, 1) Plan Preparation by developing a team, establishing goals and setting priorities; 2) Plan Development by revising the existing *Capabilities Assessment and Hazard Assessment Sections* in the HMP, reviewed risks and hazards, reviewed and identified any additional mitigation actions and projects, and 3) Finalized the Plan in conjunction with the County's Multi-Jurisdictional Hazard Mitigation Plan.

As mentioned above, the City of Santa Barbara participated in the Mitigation Advisory Committee (MAC). Information and discussion topics raised at the MAC meetings were brought to the City's LHMP Team for discussion of relevance within the City limits and for this annex. Yolanda McGlinchey, Emergency Services Manager, served as the City's liaison on the MAC and coordinated the collaboration of the Local Hazard Mitigation Planning Team.

Local Hazard Planning Team Members

The following table lists the City of Santa Barbara Local Hazard Mitigation Planning Team members.

Name	Department	Title
Todd Stoney	Police	Captain
Adam Nares	Community Development	GIS Technician

Table 0.1 City Planning Committee 2016

Name	Department	Title
Ann Marx	Fire	Wildland Specialist
Rosemary Dyste	Community Development	Project Planner
Mick Kronman	Waterfront	Operations Manager
John Ewasiuk	Public Works – Engineering	Principal Engineer
Andrew Stuffler	Community Development	Chief Building Officer
Jeff Brent	Public Works – Streets	Maintenance Supervisor
Santos Escobar	Parks & Recreation	Parks Manager
Rick Fulmer	Public Works – Streets	Streets Manager
Tracy Lincoln	Airport	Operations Manager
Rob Badger	Administration –IS	Information Systems Manager
Joe Poire	Fire	Fire Marshal
Liliana Encinas	Fire	Public Education Specialist
Yolanda McGlinchey	Fire/OES	Emergency Services Manager

Overview of Local Planning Team Meeting

The City of Santa Barbara Local Hazard Mitigation Planning Team (LHMP) met regularly during the planning process. The City's Emergency Services Manager served as liaison to the County's Mitigation Advisory Committee (MAC) to discuss updates to this plan and provide comments on review drafts. The table below summarizes the meetings held by the City's LHMP Team.

Meeting Dates	Summary of Discussions
September 23, 2015	Initial meeting of Planning Team to review current plan and determine who needs to be part of the planning process.
October 20, 2015	 Second Planning Team Meeting Mitigation Strategies Review old projects Discuss new projects Mapping – Which ones need updating Next steps
December 8, 2015	 Third Planning Meeting Update on Mitigation Strategies Update by GIS Team Revisions to Schedule
December 10, 2015	 Fourth Planning Meeting – Map Team Only Progress on Maps Mapping Questions What is still needed from County

Table 0.2 County Planning Committee Meetings Summary

Meeting Dates	Summary of Discussions
March 1, 2016 May 11, 2016	 Fifth Planning Team Meeting Introductions Review of MAC meeting Discussion of Maps – Next Steps Hazard Assessment Sixth Planning Team Meeting Review of 04-28-16 MAC meeting Review Section Drafts Maps Critical Facilities Vulnerability Assessments Next Steps
July 26, 2016	 Seventh Planning Team Meeting Review information from July 15, 2015 Public Outreach Review Sections 1,2,3,4 5, 6, 7 and 8 Review Maps Discuss Critical Facilities Determine media for public outreach and comment

See Appendix 3B for sign-in sheets and presentations, where applicable.

SECTION 4 CAPABILITY ASSESSMENT

The City of Santa Barbara Local Hazard Mitigation Planning Group identified current capabilities available for mitigation projects, activities and planning. This section outlines Santa Barbara's capabilities as it relates to governance; each city department's responsibility; the City of Santa Barbara Emergency Services Organization; an analysis of the City's capabilities and policies as they relate to hazard mitigation, Fiscal Resources, and the City's planning mechanisms.

Governance

The City of Santa Barbara employs a Manager-Council form of governance. Santa Barbara City Council is comprised of one Mayor and six Council Members, all of whom are elected officials each serving a four year term. The City of Santa Barbara's organization is comprised of thirteen departments. These departments are Administrative Services; Airport; City Administrator; City Attorney; Community Development; Finance; Fire; Library; Mayor and Council; Parks and Recreation; Police; Public Works; and Waterfront. In addition, Santa Barbara has 29 Advisory Boards, Commissions, and Committees whose job is to advise the City Council on a wide variety of subjects.



CITY OF SANTA BARBARA ORGANIZATION CHART

Departmental Responsibilities, Plans, and Capabilities

City Administrator's Office

The City Administrator's Office provides leadership, direction, and oversight to City departments to accomplish goals and objectives approved by the City Council, in accordance with the City Charter. The City Administrator manages all departments, provides training and development for all City employees, reviews the performance of all City departments, and assists the Council in prioritizing goals. The City Administrator's Office also provides oversight to City TV on Channel 18.

In response to natural disasters, the City Administrator's Office serves as the primary point of contact to coordinate the entire flow of public information. This is accomplished through the use of media releases, press conferences, website updates, the City TV scroll, public information kiosks and all other social media outlets. The Office works in conjunction with other emergency personnel to coordinate the public release of accurate, timely, and consistent information.

Administrative Services Department

The Administrative Services Department consists of three divisions: City Clerk, Human Resources, and Information Systems. Each division has multiple programs to best define, budget, and administer services. The Department provides important services to over 1,000 city employees and the community.

The City Clerk's Office provides agendas, staff reports, and minutes of City Council meetings; maintains and processes all City Council-approved ordinances, resolutions, deeds, agreements, and contracts; administers municipal elections; recruits and maintains membership records for advisory groups; and provides staff for the City Hall reception area and telephone system.

Human Resources provides a centralized program of personnel administration for over 1,039 regular positions. The division recruits and tests applicants for City positions; establishes job descriptions and compensation levels for over 365 classifications; conducts classification studies; provides staff support to the Civil Service Commission, coordinates disciplinary actions and assists managers on performance issues; administers benefit programs including health insurance, deferred compensation and retirement; in-processes new employees; provides new employee orientation; manages the computerized Financial Management System (FMS) in relationship to job titles, positions, compensation (COLAs, merit increases, status changes, etc.), and employee benefit selections.

Information Systems provides Infrastructure support, Financial and Enterprise Applications, and Centralized GIS. Infrastructure Support provides technical leadership, maintenance and user support for computing and networking services to City staff by operating and maintaining the City's 40+ Local Area Networks; providing maintenance and support to over 750 desktop computers; establishing and maintaining standards for hardware and software; coordinating the City's computer training program; establishing standards and providing oversight of the City's local Intranet and public Website; and performing systems analysis, system integration and system implementation. Financial and Enterprise Applications Support provides financial management systems and related services; maintains enterprise wide applications such as

maintenance management, SQL reporting services, and data exportation to support the analysis and inquiry needs of City staff; provides consulting services to all departments in areas of business problems, implementing solutions. Centralized GIS provides a standards and rules based central database of GIS data; provides tools to update and display GIS data; and provides detailed maps, drawings and other GIS services.

Santa Barbara Airport

The Santa Barbara Airport is one of the region's most important and visible assets. A recent University of California, Santa Barbara Economic Forecast Project study found that the Airport has a \$500 million annual impact on the County. Since the 1930s it has been the region's primary air transportation facility. More than 755,000 passengers used the Airport in 2010; making it the busiest airport on the California coast between San Jose and Los Angeles. Consistent with national trends, air travel through the Santa Barbara Airport declined during the recent recession. However, upsizing of aircraft, and additional flights a have increased travel over the past year and airline forecast studies show the passenger volume will grow over the next 10 years.

The Airport is currently preparing a new master plan for development through 2025. The plan will identify Airport facility and capacity needs and prescribe improvements. It is vital that the Airport remain open during natural disaster situations to serve as a transportation point for the ingress and egress of personnel, equipment and supplies during the recovery phase of a disaster. The Airport completed a master drainage plan to address flooding issues, and several of the recommended projects from plan have been completed. The remaining flood control projects are listed in this document as potential projects for funding.

Approximately 400 of the 430 acres of the Goleta Slough Ecological Reserve are within Airport boundaries. As a steward of the slough, the Airport has made significant environmental improvements with plans for further restoration in the future.

In 2008 the Airport completed its airfield safety projects which brought the runway safety areas up to federal standard and reduced the commercial runway flood hazard.

As mitigation for the Airfield Safety Projects, the Airport has spent nearly \$9 million to improve or restore 40 acres of wetland habitat in the Goleta Slough. Ten of those acres were completed in 2010 after a 3-year study of bird behavior in tidal wetlands. The results of this study show that the restoration of tidal circulation has improved habitat for wildlife while reducing the risk of wildlife strikes on or near the airfield. This study has national significance as other airports may follow in Santa Barbara's footsteps. Each restoration site is overseen in a 7-year maintenance and monitoring program to ensure success.

City Attorney Department

The City Attorney's Office is responsible for legal representation and advice to the City Council, Boards, Commissions and all City officers and staff. These responsibilities include advising the City Council and Planning Commission, as well as City staff, on thousands of matters each year. The office is also responsible for all City code enforcement and litigation services. The office is staffed by six attorneys and five support and paraprofessional staff.

Community Development Department

The Community Development Department is responsible for planning and zoning, building and safety, and housing and redevelopment for the City of Santa Barbara. The department has three divisions: Administration, Housing & Human Services; Building & Safety; and Planning.

The Housing & Human Service Division is responsible for a number of programs including: Successor Agency to the Redevelopment Agency, Affordable Housing Development, Housing Rehabilitation Loans, Community Development Block Grant (CDBG), Administration & Human Services Grants, Rental Housing Mediation, and Fair Housing Enforcement for the City of Santa Barbara. This division contributes to disaster mitigation through the funding of the housing rehabilitation and community improvement programs as well as capital improvement projects.

The Building & Safety Division is responsible for three programs: Building Inspection and Code Enforcement; Building Counter and Plan Review; and Records, Archives and Clerical Services. One of the primary functions of this division is to ensure all new and remodeled structures as well as additions to existing structures are constructed to current health and safety codes, thus lessening the potential impact of future disasters.

The Planning Division is responsible for four programs: Long Range Planning and Special Studies; Zoning Ordinance Information and Enforcement; Development / Environmental Review; and Design Review and Historical Preservation. This division mitigates natural and man-made hazards through the implementation of the General Plan, Zoning Ordinance, California Environmental Quality Act (CEQA), the Local Coastal Plan, the Subdivision Map Act, and a variety of other California planning statutes.

The primary responsibilities of this division in mitigating disasters is through: 1) the development of General Plan goals and policies, e.g. the Safety Element, 2) the permitting of proposed projects to ensure all development is consistent with hazard risk reduction and community resilience related goals and polices, and 3) the enforcement of existing development to ensure continued compliance with existing goals and policies through the Zoning Ordinance. In addition, all three divisions of the Community Development Department are regularly trained to respond to disasters and assist with the recovery efforts.

Fire Department

The mission of the Fire Department is to serve and protect the community from the perils of fires, medical emergencies, environmental emergencies, and natural disasters. This will be accomplished through education, code enforcement, planning, prevention, emergency response, and disaster recovery. The Fire Department is responsible for managing the following programs, Fire Administration; Fire Prevention; Wildland; Office of Emergency Services; and Fire Operations.

Fire Administration provides leadership, policy direction and administrative support to the entire department. Fire Prevention protects life, property and the environment from the perils of fire, hazardous materials, and other disasters through proactive code enforcement, modern fire prevention methods, fire and arson investigation and progressive public safety education, which provides fire and life safety education to the community to reduce the loss of life and property. Wildland ensures a safer community in the wildland-urban interface by assisting with and enforcing road clearance, defensible space and vegetation management, the Office of Emergency Services coordinates the City's response to disaster, educates residents to prepare

and operates the City Emergency Operations Center, located at Fire Station 1; Fire Operations saves and protects lives, property, and the environment of the Santa Barbara community by preventing the impact of future events through proactive planning, public education, and occupancy fire code inspections.

In 2004, the City adopted the Wildland Fire Plan, a comprehensive approach to mitigating the wildland fire hazard in the wildland- urban interface. The policies and actions developed for the Plan cover a wide range of areas. They include re-designation of the City's high fire hazard area, public education programs, evacuation preplanning, and changes to City codes, fire protection services, biomass utilization, and vegetation management programs on both private and public lands. The plan has recently been designated as the City's Community Wildfire Protection Plan. In an effort to implement elements of that plan the City adopted the Wildland Fire Suppression Assessment District (WFSAD) in 2006. In cooperation with residents of the district, the program has removed hundreds of tons of flammable vegetation, reducing the threat of wildfire and enhancing evacuation routes throughout the district.

The City of Santa Barbara's Manager of the Office of Emergency Services is a non-sworn management position within the Fire Department. The Emergency Services Manager is responsible for the development and maintenance of emergency plans, organization and coordination of emergency programs and training.

Public Library System

The Library System provides information services, reading materials and educational resources to residents of all ages from the Santa Ynez Valley through Carpinteria. The largest components of the department are areas of public service in the Central Library including circulation, reference, and youth services. The system includes seven branches, five of which are owned and funded by the County of Santa Barbara and administered under an agreement with the City. The Goleta Library is owned by the City of Goleta and administered under an agreement with the City. Additional activities include access to the Internet via public computers, an Adult Literacy program, interlibrary loan and borrowing, acquisition of materials, cataloging and processing of materials, and maintenance of the Library's catalog and users database.

Parks and Recreation Department

The City of Santa Barbara Parks and Recreation Department maintains 59 parks totaling nearly 1800 acres. The Parks Division is responsible for all aspects of park, open space, street tree and beach management and during emergencies provides logistical support such as personnel and supply transportation. The Recreation Division provides numerous recreational and cultural opportunities as well as community services. During emergencies the Department manages community buildings and recreation facilities as shelters and staging areas. The Golf Division manages the city's municipal golf course, which is a second staging area for emergency operations. The mission of the Creeks Restoration and Water Quality Improvement Division is to improve creek and ocean water quality and restore natural creek systems with the implementation of storm water and urban runoff pollution reduction, creek restoration and community education programs. The water quality program focuses on creek clean-up, street sweeping and storm water projects. Creek restoration programs improve creek health and water quality. Objectives include reducing erosion by bank stabilization and providing access where feasible. The Creeks Division has prepared Watershed Action Plans for Santa Barbara's three major watersheds and has held community forums for public input into these plans.

Police Department

The mission of the Santa Barbara Police Department, through the philosophy of community oriented policing, is to create a safe community where all people can live in peace without the fear of crime.

This commitment will ensure a professional quality of service and accountability to the citizens of the City of Santa Barbara.

While the primary mission of the Santa Barbara Police Department is law enforcement, the Police Department plays a pivotal role in general public safety as it relates to disaster preparedness. In addition, the Police Department has created some mitigation strategies that is included in their Unusual Occurrence Manual (UOM). The UOM is a guide for how officers will respond during a major incident or disaster.

The City's dispatch center was recently relocated to the Granada Garage facility at 1219 Anacapa Street. The move was due to the substandard condition of the current Police Department. In many emergency situations, police officers are among the first responders, assisting with traffic control, effecting evacuations and monitoring potentially life threatening situations.

Public Works Department

The City's largest department is Public Works. The department's total annual budget of over \$93 million represents approximately 31% of the City's total budget and its 299 full time employees is approximately 14% of the City's permanent work force. The Department is responsible for operating the City's El Estero Wastewater Treatment Facility on Yanonali Street and the Cater Water Treatment Facility on San Roque Road. The Department's mission is to provide for the public's needs relative to the City's transportation system, water and wastewater services, refuse collection, construction and maintenance of all City facilities, automotive equipment communications equipment and repair and maintenance of all streets, sidewalks, and street lights throughout the City.

The Public Works Department is divided into five divisions: Administrative Services, Engineering, Facilities Maintenance, Transportation and Water Resource. The Engineering Division is responsible for contract engineering; construction; land development; real property; sewer design; surveying; and water design. The Facilities Maintenance Division is responsible for building maintenance; communications; custodial services; and motor pool. The Transportation Division is responsible for alternative transportation; parking; streets maintenance; transportation operations; and transportation planning. The <u>Water Resources</u> <u>Division</u> is responsible for water and wastewater administration; water supply management; water treatment; water distribution; wastewater collection; wastewater treatment; laboratory and environmental services.

The Department is responsible for the following emergency activities and areas:

- Recovery operations in all types of disasters.
 - Coordinating with Public Utilities companies in the repair of utilities essential to the life, health and welfare of the community.
 - Coordinating and furnishing of transportation to all emergency agencies of the City

and providing maintenance for disaster vehicles and equipment throughout the State of Emergency.

- Assuring of an adequate supply of water for emergency requirements and an adequate supply of potable water for human consumption.
- Assuring that sanitary facilities are operational or that alternate emergency facilities are provided.
- Assisting in and providing for traffic controls (signs, barricades, and signalization) and warning signs.
- Providing personnel to assist in EOC operations (office and field). Setting up and operating the Public Works Department Operating Center.

The Public Works Engineering Division is very involved in hazard mitigation activities. It manages the City's Capital Improvement Program and provides professional engineering services for planning, designing, surveying, inspecting and managing public works improvements. Long-range master planning to support the City's street, water, wastewater, transportation and parking infrastructures is also provided. The Division also provides the Airport, Waterfront, and all General Fund departments with engineering services. Services include in-house design, construction management and inspection of the annual water, sewer replacement and street capital improvement programs, plus contract administration of Airport, Waterfront, and Parks and Recreation capital projects.

Waterfront Department

The mission of the Waterfront Department is to provide the community with a quality Waterfront for recreation and commercial use, along with mooring and landside services for boating. The Waterfront Department manages approximately 252 acres of tidelands and submerged lands encompassing the Harbor and Stearns Wharf. These lands belong to the State and are held in trust by the City of Santa Barbara. The Waterfront Department consists of three Divisions: Business Services, Harbor Operations and Facilities Management.

Harbor Operations oversees the Santa Barbara Harbor Patrol. The mission of the Santa Barbara Harbor Patrol is to enforce laws, educate the public and provide emergency fire, medical and ocean response services to facilitate the safe and orderly use of the Waterfront area. In many instances, Harbor Patrol Officers are the first emergency personnel on scene to a critical incident. The Waterfront Department's Operations Division is also responsible for coordinating the Department's Tsunami response and is researching warning systems and evacuation plans.

The Waterfront Department's Facilities Division is responsible for maintenance of the breakwater, Stearns Wharf City Pier, and all of the marinas, providing clean and safe commercial and recreational facilities for tenants and visitors. They take the lead on the projects in the waterfront, including sediment management plans, structure remodels and marina reconfigurations.

The Business Division's Financial Management Section supports the Waterfront Department by staying within budget and processing revenue and expenditure accurately. The Property Management Section manages waterfront leases to ensure that the public receives quality services and that the Department collects market value rents. The Parking Services Section provides competitively price parking that is convenient, clean and customer friendly to the community and the City's visitors.

In response to a natural disaster, the Waterfront Department, during a hazardous or disaster event, immediately transforms into an emergency response organization that includes the first responders, maintenance and finance sections. Preparation, mitigation and response plans are contained in the Waterfront's Department's Emergency Response Plan (2009).

A local base of operations called a Disaster Operating Center (DOC) located in the Waterfront Administration Building is established in order to effectively coordinate personnel and resources in order to immediately respond to hot spots as they are identified by the Incident Commander, local agencies and/or the public. The DOC becomes a base of operations and collection center for information, inspection/damage reports, and response strategies as they are developed. In addition, monitoring with the City's Emergency Operations Center (EOC) is coordinated with the Operations Section for public information, dispatch to the law enforcement, and dispatch to maintenance staff for any channel or road closures; as needed. Staff are deployed to mitigate hazards and inspect critical structures, as well as oversee any contracted clean-up or construction crews.

The Waterfront Department has a pre-planned routine for emergency response, to assure FEMA reimbursement by using the correct reporting techniques with pre-assigned teams responsible for inspecting critical facilities and to perform as flexible response units, all the disaster locations identified and numbered and called into the EOC (if opened).

City of Santa Barbara Emergency Services Organization

The City of Santa Barbara's Office of Emergency Services (OES) is a Division of the Fire Department. The purpose of OES is to develop and implement plans for the protection of persons and property within the City of Santa Barbara in the event of a disaster, and to coordinate Emergency Services functions of the City with all other public agencies and affected private persons, corporations and organizations.

The City of Santa Barbara's Emergency Services Organization is managed by the Emergency Services Council (ESC). The City Administrator serves as the Director of Emergency Services and acts as chair of the ESC. Other members of the ESC include: the Police Chief; Fire Chief; Public Works Director; and representatives of departments, service, or divisions designated by the City Administrator. The Emergency Services Manager is responsible for the development and maintenance of emergency plans, organization and coordination of emergency programs and training, and is also a member of the ESC.

The City of Santa Barbara's Emergency Services Organization is comprised of all officers and employees of the City, together with those volunteer forces enrolled to aid the City during a disaster, and all groups, organizations and persons who may by agreement or operation of law, including persons pressed into service under the provisions of Section 9.116.060(3) of the Santa Barbara Municipal Code be charged with duties incident to the protection of life and property in the City during such disaster. This includes, but is not limited to: School Districts; Santa Barbara Community College District; Santa Barbara Metropolitan Transit District; American Red Cross; and the Amateur Radio Emergency Services (ARES).

The City of Santa Barbara revised their Standardized Emergency Management System Emergency Management Plan (SEMS EMP) in January 2013 to ensure the most effective and

economical allocation of resources for the maximum benefit and protection of the civilian population in time of emergency. The EMP was developed in conjunction with the Santa Barbara County Operational Area, as part of the California Standardized Emergency Management System (SEMS) and the National Incident Management System (NIMS). The EMP addresses emergency responses associated with natural disasters, technological incidents, and national security. The objective of the plan is to establish an effective organization capable of responding to potential large-scale emergency situations using all appropriate facilities and personnel in the City. The SEMS EMP assigns tasks and specifies policies and procedures for coordination of emergency staff and service elements. The SEMS EMP identifies emergency response actions associated with the large-scale emergencies through standard operation procedures.

The plan states that hazard mitigation is a year round effort and encourages all entities to prepare hazard mitigation plans. The following activities are identified by the plan as potential mitigation activities: improving structures and facilities at risk; identifying hazard-prone areas and developing standards for prohibited or restricted use; recovery and relief from loss; and providing hazard warning.

Fiscal Resources

The fiscal year 2016 adopted budget includes a total operating budget of \$293.4 million and a citywide capital program of \$105.8 million. The General Fund, which includes traditional local government services, is composed of a \$124.3 million operating budget and a \$2.7 million capital program.

In addition to the General Fund, the City has a number of other funds used to account for various activities. Special revenue funds, totaling \$33.7 million are used to account for revenues legally restricted for a specific purpose. Enterprise funds, totaling \$117.6 million are used to account for the activities of the City operating in a manner similar to the private sector, including water, wastewater, airport, golf, downtown parking, and waterfront operations. Finally, internal service funds, totaling \$27.2 million are used to account for services provided internally to City departments and programs, such as Information Systems and Risk Management Services.

In 1996, the City Council established minimum reserve levels for all operating funds, including the General Fund. Pursuant to the adopted resolution, the General Fund currently maintains two separate reserves:

- Emergency Reserve Set at 15% of the adopted operating budget, established to respond to natural disasters, such as floods, earthquakes, etc.
- Economic Contingency Reserve Set at 10% of the adopted operating budget, established to respond to provide for unique one-time costs and maintenance of City services, and to permit orderly adjustments during periods of reductions.

The following Table shows specific financial and budgetary tools available to the City of Santa Barbara such as community development block grants; capital improvements project funding; authority to levy taxes for specific purposes; fees for water, sewer, building impact fees for homebuyers or developers for new development; ability to incur debt through general obligations bonds; and the withholding spending in hazard-prone areas.
Financial Resources	Accessible or Eligible to Use (Yes/No)
A. Community Development Block Grants (CDBG)	Yes
B. Capital improvements project funding	Yes
C. Limited authority to levy taxes for specific purposes	Yes
D. Fees for services	Yes
E. Impact fee for homebuyers or developers for new developments/homes	Yes
F. Incur debt through general obligation bonds	Yes
G. Incur debt through general obligation bonds	Yes
H. Incur debt through private activity bongs	Yes
I. Withhold spending in hazard-prone areas	Yes
J. Local, state and federal grant funds	Yes

City of Santa Barbara: Fiscal Capability

Relevant Plans, Policies, and Ordinances

The City of Santa Barbara has a range of guidance documents and plans for each of its departments. These include a general plan, public works and public utilities plans, capital improvement plans, emergency management plans, Local Coastal Program (LCP), Master Environmental Assessment (MEA), Circulation Element, Mission Creek Project, Conejo Slide Area Program, Airport plans, flood response guidelines, Tsunami Response Guidelines, Watershed Response Guidelines and slough programs. The City uses building codes, fire codes, zoning ordinances, subdivision ordinances, and various planning strategies to address how and where development occurs. One of the essential ways the City guides its future is through policies laid out in the General Plan, Plan Santa Barbara.

It is important to note that during the Local Hazard Mitigation Plan update planning process these plans, programs, codes and policies were evaluated to determine their effectiveness in risk education and reduction efforts, as well as, its usefulness to implement mitigation measures. Any shortfalls or areas where the plans, programs, codes, and policies could be improved or expanded were identified and captured under annual review, the annual planning process and Mitigation Chapters of this plan. If no mitigation actions were identified, then it can be assumed that the Planning Team determined that no shortfalls or areas for improvement are needed.

The General Plan

The <u>City of Santa Barbara General Plan</u> was first adopted in the 1960's and was last updated in 2011. The 2011 General Plan is comprised of eight reorganized elements, including the seven

state mandated elements, as well as optional elements of Economy and Fiscal Health and Historic Resources.

Santa Barbara is a mature city, and not much vacant land remains for residential or nonresidential development. The remaining vacant land is generally found in areas of steep topography where development potential is constrained. Over 60 percent of the land is in residential use, excluding the residential portion of mixed-use development in the Downtown or other commercial areas. To encourage infill development and due to concern over resources limitations, the General Plan has a Growth Management program to limit nonresidential growth. Conversely, one of the top priorities of the General Plan is to encourage workforce and affordable housing in the City's multi-family and commercial zones. Institutional and public facilities are mainly found all over the City while most of the City's government facilities are found in the historical center of the community. There are approximately 1,086 acres of land dedicated open space and parks (not including beaches).

Zoning Ordinance

Local land use controls also include the Zoning Ordinance, which shapes the form and intensity of residential development. Consistent with the General Plan, the City's Zoning Ordinance allows a range of zones and dwelling unit densities from one unit per acre (single-family) to 27 units per acre (studio units with variable density). These zones also allow mobile home and emergency shelter units.

Zoning ordinance regulations related to hazard mitigation include Development Along Creeks, which provides controls on development adjacent to Mission Creek to prevent undue damage or destruction of development from flood water; a prohibition of residential second units and mobile homes in designated high fire hazard areas; and a slope density regulation that increases the minimum lot area where the average slope from 10 to over 30 percent.

The Environmental Policy and Construction section of the Municipal Code includes regulations and general requirements for hazardous waste generators, seismic safety, flood plain management, erosion and sedimentation control for construction, and construction prohibited in the vicinity of the Conejo Road landslide due to special geologic hazard conditions.

Starting in 2015, the City is updating its Zoning Ordinance to bring it up to date to reflect current uses and practices. The City's goal is that this project will result in a new Zoning Ordinance that is:

- Restructured, simple and user friendly
- Modern and current
- Clear in decision making processes
- More flexible in administering the code
- Aligned with historic interpretations
- Responsive to nonconforming situations.

Floodplain Management

The City of Santa Barbara does not participate in the National Flood Insurance Program (NFIP). The City purchases property insurance on the commercial market that provides coverage for loss related to flood. However, Flood Insurance Rate Maps (FIRMs) were developed through the NFIP and were last updated in September 2005 and have been made available in GIS format as Digital Flood Insurance Rate Maps. These are on file with the Santa Barbara Operational Area Office of Emergency Services, County Flood Control, and the Santa Barbara City Public Library that identify floodplains, along with evacuation routes and locations of public shelters.

Safety Element

The Safety Element is a required component of the City's General Plan and is element most relevant to hazard mitigation and emergency response. The Safety Element was updated in 2013 and includes specific items as prescribed by the California Government Code as well as other relevant safety issues that are considered important. Hazard maps provided in the Safety Element depict the general locations and possible severity of various hazards and are important tools in identifying and reducing the potential effects of hazards and for hazard response planning. The Safety Element provides information to guide the evaluation of hazard-related effects, provides policies to protect the community from hazard-related risk, and supports the implementation of programs intended to enable and expedite the recovery of a community after a disaster occurs.

SECTION 5 HAZARD ASSESSMENT

Overview

The purpose of this section is to review, update and/or validate the identified and profiled hazards in 2016 City Santa Barbara Multi-Hazard Mitigation Plan (HMP). The intent is to confirm the list of hazards facing the city and determine if the current information and material is current and accurate. The importance of this is to ensure that all hazards are being considered and decisions are based on the most up-to-date information. Another purpose of this section is to screen the hazards; providing an understanding of the significance by ranking higher priority hazards in the community.

As part of this effort the City liaisoned with the Mitigation Advisory Committee (MAC) and as well as the City's local planning team. The MAC group assessed information at the county-level, while the City's planning team assessed the information relating our jurisdiction.

As part of process both groups leveraged other planning efforts and documents, including the State of California Multi-Hazard Mitigation Plan, the Santa Barbara County Comprehensive Plan Seismic Safety and Safety Element, the City's 2013 Emergency Management Plan, and the Santa Barbara County 2016 HMP; as well as other various City plans.

Local Hazard Mitigation Planning Team Hazard Assessment

Utilizing the information and material from the State of California Multi-Hazard Mitigation Plan, the Santa Barbara County Comprehensive Plan Seismic Safety and Safety Element, and the City of Santa Barbara 2011 HMP, the City's 2013 Emergency Management Plan, the Local Hazard Mitigation Planning team, the Santa Barbara County Mitigation Advisory Committee (MAC) reviewed and revised: 1) the list of hazards in the geographic area, 2) the information and material presented for each hazard, and, 3) the prioritization of the hazards. The following sections provide a summary of the work.

Hazard Identification

Based on the review of the Santa Barbara City 2016 HMP and incorporating information from other documents (i.e., the California State Multi-Hazard Mitigation Plan) and local experience and knowledge, the LHMP team identified the following hazards as being relevant to City of Santa Barbara (**Table 5.1**).

List of City Hazards
Earthquake
Wildfire
Landslide and other Earth Movements
Flood
Climate-Related Hazards
Sea Level Rise
Drought and Water Shortage
Severe Weather
Energy Shortage
Oil Spills
Dam Failure
Agricultural Pests
Epidemic/Pandemic/Vector Borne Disease
Hazardous Materials Release
Terrorism
Cyber Threats
Airline Crashes
Train Accidents
Tsunami
Civil Disturbance
Marine Invasive Species

Table 0.1 Relevant Hazards in the City of Santa Barbara

Hazard Screening/Prioritization

The intent of screening hazards is to help prioritize which hazard creates the greatest concern in the community. Because the original process used to rank hazards in the Santa Barbara City 2011

HMP is not being utilized, an alternative approach is being recommended. A summary of the process and the results of the revised hazard ranking for the 2016 HMP update are discussed below:

Ranking Tool Design

The ranking tool prioritizes hazards on two (2) separate factors:

- Probability of the hazard affecting the community
- Potential impacts of the hazard on the community

To further assist with the process, the following definition of "High", "Medium", and "Low" probability and impacts were utilized:

Probability

0000000	
High-	Highly Likely/Likely
Medium-	Possible
Low-	Unlikely

<u>Impact</u>

High-	Catastrophic/Critical: Major loss of function, downtime, and/or evacuations
Medium-	Limited: Some loss of function, downtime and/or evacuations
Low-	Negligible: Minimal loss of function, downtime and/or evacuations

Based on the revised list of hazards and utilizing the alternative approach, the LHMP team screened the hazards. The results of the assessment are in **Table 5.2**. The shading of the matrix boxes indicate the priority level: red = tier 1; green = tier 2; and gray = tier 3.

Table 0.2 Hazard Screening and Ranking

Rank	High Impact	Medium Impact	Low Impact
High Probability		 Drought/Water Shortage Energy Shortage Flooding Landslide/Other Earth Movements Oil Spill Sea Level Rise/Coastal Flooding Severe Weather Wildfire 	 Agricultural Pests/Disease Train Accident
Medium Probability	• Earthquake	HazMat ReleaseTerrorism	Commercial/Military Aircraft CrashCyber Threat
Low Probability	• Dam Failure	 Civil Disturbance Marine Invasive Species Natural Gas Pipeline/Shortage Tsunami 	

Hazard Profiles

The following sections represents work done by the MAC and confirmed by the LHMP team. The information provided below is relevant to the City of Santa Barbara. In other words, if the LHMP team considered a particular hazard not a threat it was not included in the HMP. The following material is intended to be an overview of the hazards; more information may be found in the State of California Multi-Hazard Mitigation Plan, the Santa Barbara County Comprehensive Plan Seismic Safety and Safety Element, City's 2013 Emergency Management Plan and other documents.

5.1.1 Earthquake

5.1.1.1 Description of Hazard

An earthquake is caused by a release of strain, within or along the edge of the Earth's tectonic plates, which produces ground motion and shaking, surface fault rupture, and secondary hazards, such as ground failure. The severity of the motion increases with the amount of energy released, decreases with distance from the causative fault or epicenter, and is amplified by soft soils. After just a few seconds, earthquakes can cause massive damage and extensive casualties.

The effect of an earthquake on the Earth's surface is called the intensity. The intensity scale consists of a series of certain key responses such as people awakening, movement of furniture, damage to chimneys, and finally, total destruction. The scale currently used in the United States is the Modified Mercalli Intensity (MMI) Scale. It was developed in 1931 by the American seismologists Harry Wood and Frank Neumann. This scale, composed of 12 increasing levels of intensity that range from imperceptible shaking to catastrophic destruction, is designated by Roman numerals. It does not have a mathematical basis; instead it is an arbitrary ranking based on observed effects.

Most people are familiar with the Richter scale, a method of rating earthquakes based on strength using an indirect measure of released energy (**Table 5.3**). The Richter scale is logarithmic. Each one-point increase corresponds to a 10-fold increase in the amplitude of the seismic shock waves and a 32-fold increase in energy released. An earthquake registering 7.0 on the Richter scale releases over 1,000 times more energy than an earthquake registering 5.0.

Richter Magnitudes	Earthquake Effects
Less than 3.5	Generally not felt, but recorded.
3.5-5.4	Often felt, but rarely causes damage.
Under 6.0	Slight damage to well-designed buildings. Can cause major damage to poorly constructed buildings over small regions.
6.1-6.9	Can be destructive in areas up to about 100 kilometers across residential areas.
7.0-7.9	Can cause serious damage over larger areas.
8 or greater	Can cause serious damage in areas several hundred kilometers across.

Table 0.3 Richter Scale

Peak ground acceleration (PGA) is a measure of the strength of ground shaking. Larger peak ground accelerations result in greater damage to structures. PGA is used to depict the risk of damage from future earthquakes by showing earthquake ground motions that have a specified probability (10%, 5%, or 2%) of being exceeded in 50 years return period. These values are often used for reference in construction design, and in assessing relative hazards when making economic and safety decisions.

Liquefaction is the phenomenon that occurs when ground shaking causes loose, saturated soils to lose strength and act like viscous fluid. Liquefaction causes two types of ground failure: lateral spread and loss of bearing strength. Lateral spreads develop on gentle slopes and entail the sidelong movement of large masses of soil as an underlying layer liquefies. Loss of bearing strength results when the soil supporting structures liquefies and causes structures to settle, resulting in damage and in some cases, collapse.

5.1.1.2 Location and Extent of Hazard in Santa Barbara

As previously mentioned, Santa Barbara County, including the City of Santa Barbara, is located in a high seismic activity zone. The County is located in the Transverse Range geologic province. Movement of continental plates manifest primarily along the San Andreas Fault system. The San Andreas fault is situated 7 miles northeast of Santa Barbara County; active faults in the San Andreas Fault system that fall within Santa Barbara County include the Nacimiento, Ozena, Suey, and Little Pine faults. Other active faults in the region include the Big Pine, Mesa, Santa Ynez, Graveyard-Turkey Trap, More Ranch, Pacifico, Santa Ynez, and Santa Rose Island faults. The Santa Barbara County Comprehensive Plan Seismic Safety and Safety Element provides descriptions of all faults in Santa Barbara County, including historically active, active, potentially active and inactive, as well as their location and fault length. A map of faults in the Santa Barbara County region is located below (**Figure 5.1**).

The City has areas of liquefaction that would cause severe damage in the downtown and lower eastside areas.



Figure 0.1 Earthquake Faults in Santa Barbara County

After earthquakes, some regions may be prone to liquefaction. On level ground, liquefaction results in water rising to the ground surface. On sloping ground, liquefaction will usually result in slope failure such as occurred at the Sheffield Dam in the 1925 Santa Barbara earthquake. Liquefaction risk is considered high if there were soft soils (Types D or E) present. The National Earthquake Hazards Reduction Program (NEHRP) rates soils from hard to soft, and gives the soils ratings from Type A through Type E, with the hardest soils being Type A, and the softest soils rated at Type E. The majority of the soils in Santa Barbara County are types A-C, with some areas having type D. There have been no Type E soils identified. (NOTE: A further discussion of soils can be found in the Santa Barbara County Comprehensive Plan Seismic Safety and Safety Element, along with maps of the expansive soils and collapsible soils problems ranking.) Liquefaction risk is also determined by depth to groundwater. Most of the low coastal plan and valley bottoms are underlain by alluvium and given a moderate rating with respect to liquefaction potential. Based on this information and work conducted as part of the Santa Barbara County (**Figure 5.2**).



Figure 0.2 Groundwater and Liquefaction Severity

5.114 History of Hazard in City of Santa Barbara

City of Santa Barbara is located in a high seismic activity zone and as such has a long history of earthquakes. Although most seismic activity in California occurs along the San Andreas Fault system, most historic seismic events in the City of Santa Barbara region have been centered offshore on an east-west trending fault between Santa Barbara and the Channel Islands. The below map (**Figure 5.3**) displays historical epicenters of earthquakes located in the Santa Barbara County from 1568 to 2009. The dates of the more significant earthquake events are provided adjacent to the epicenters.



Figure 0.3 Significant Earthquakes 1568 to 2009

While more extensive discussion of previous earthquakes in Santa Barbara County is available in the Seismic and Safety Element of the Santa Barbara County Comprehensive Plan, the following information provides an overview of the more recent, significant events:

In June of 1925, the City experienced this destructive earthquake that caused property damage estimated at \$8 million and killed 13 people. Most of the damage occurred at Santa Barbara and nearby towns along the coast, but the earthquake caused moderate damage at many points north of the Santa Ynez Mountains, in the Santa Ynez and Santa Maria River valleys. North of Santa Barbara, the earth dam of the Sheffield Reservoir was destroyed, but the water released caused little damage.

In Santa Barbara, few buildings on State Street escaped damage. Because parts of the main business district and the area near the seashore were built on land fill, many of the structures there were demolished, and others were so shattered that they had to be razed. In general, however, buildings of reinforced concrete were damaged little, except where workmanship was poor; frame buildings covered with stucco, sheathing, or lath also withstood the shock well. Loss to the sewage system was heavy only in areas of land fill, but the disposal plant was destroyed above the surface of the ground.

In March of 1978, and continuing sporadically through July of 1978, a swarm of small earthquakes, called micro-earthquakes occurred underneath the northeastern end of the Santa Barbara Channel. Toward the end of the micro-earthquake swarm, in July and early August of 1978, an unusually large amount of oil and tar was reported on local beaches in Santa Barbara. A common occurrence for the Santa Barbara area, the oil from these natural seeps was considered only a minor nuisance. On August 13, 1978, an earthquake occurred just to the southwest of the City of Santa Barbara, about 5 miles beneath the Santa Barbara Channel. There was minimal damage in the City. There were sixty-five people were treated for injuries at local hospitals. No deaths were reported.

On December 22, 2003 at 11:15 a.m. a magnitude 6.5 earthquake struck the central California coast. The event, known as the San Simeon Earthquake, was located 11 kilometers northeast of San Simeon, and 39 kilometers west/northwest of Paso Robles. Although the San Simeon Earthquake was felt in parts of the City there was no damage.

5.1.1.4 Probability of Occurrence

The United States Geological Survey (USGS) and their partners, as part of the latest Uniform California Earthquake Rupture Forecast Version 3 (UCERF3; 2015), have estimated the chances of having large earthquakes throughout California over the next 30 years (**Figure 5.4**).

Figure 0.4 Rates for Earthquake of Magnitude 6.7 or Larger in the Next 30 years (USGS, 2015)



Statewide, the rate of earthquakes around Magnitude 6.7 (the size of the 1994 Northridge earthquake) has been estimated to be one per 6.3 years (more than 99% likelihood in the next 30 years); in southern California, the rate is one per 12 years (93% likelihood in the next 30 years). Southern California's rates are given in **Table 5.4**.

Magnitude	Average Repeat	30-year likelihood
(greater than or	Time (years)	of one or more
equal to)		events
5	0.24	100%
6	2.3	100%
6.7	12	93%
7	25	75%
7.5	87	36%
8	522	7%

Table 5.4 Southern California Region Earthquake Likelihoods (UCERF3, 2015)

5.1.1.5 Climate Change Considerations

To date, no credible evidence has been provided that links climate to earthquakes; however, climate and weather does play a significant role in the response and recovery from earthquakes. Effects from climate change could create cascading complications and impacts.

5.1.2 Wildfire

5.1.2.4 Description of Hazard

Wildfires can be classified as either a wildland fire or a wildland-urban interface (WUI) fire. The former involves situations where wildfire occurs in an area that is relatively undeveloped except for the possible existence of basic infrastructure such as roads and power lines. A WUI fire includes situations in which a wildfire enters an area that is developed with structures and other human developments. In WUI fires, the fire is fueled by both naturally occurring vegetation and the urban structural elements themselves. According to the National Fire Plan issued by the U.S. Departments of Agriculture and Interior, the wildland-urban interface is defined as "...the line, area, or zone where structures and other human development meet or intermingle with undeveloped wildland or vegetative fuels."

The WUI fire can be subdivided into three categories (NWUIFPP, 1998): The <u>classic wildland-urban interface</u> exists where well-defined urban and suburban development presses up against open expanses of wildland areas. The <u>mixed wildland-urban interface</u> is characterized by isolated homes, subdivisions, and small communities situated predominantly in wildland settings. The <u>occluded wildland-urban interface</u> exists where islands of wildland vegetation occur inside a largely urbanized area. Generally, many of the areas at risk within the Santa Barbara County fall into the classic wildland-urban interface category.

Certain conditions must be present for a wildfire hazard to occur; a large source of fuel must be present, the weather must be conducive (generally hot, dry, and windy), and fire suppression sources must not be able to easily suppress and control the fire. The cause of a majority of wildfires is human-induced or lightning; however, once burning, wildfire behavior is based on three primary factors: fuel, topography, and weather. Fuel will affect the potential size and behavior of a wildfire depending on the amount present, its burning qualities (e.g. level of moisture), and its horizontal and vertical continuity. Topography affects the movement of air, and thus the fire, over the ground surface. The terrain can also change the speed at which the fire travels, and the ability of firefighters to reach and extinguish the fire. Weather as manifested in temperature, humidity and wind (both short and long term) affect the probability, severity, and duration of wildfires.

5.1.2.5 Location and Extent of Hazard in Santa Barbara

The climate, topography, and vegetation in Santa Barbara County is conducive to wildfires. California Department of Forestry and Fire Protection, Fire and Resource Assessment Program (CDF-FRAP) were mandated to map areas of significant fire hazards based on fuels (vegetation), terrain, weather, and other relevant factors. These zones, referred to as Fire Hazard Severity Zones, define the application of various mitigation strategies to reduce risk associated with wildland fires. The most current mapping efforts by CDF-FRAP were conducted in 2007. The map below shows the Fire Hazard Severity Zones located in Santa Barbara County (**Figure 5.5**).



Figure 5.5 Fire Hazard Severity Zones

CDF-FRAP developed data that displays the relative risk to areas of significant population density from wildfire. This data is created by intersecting residential housing unit density with proximate fire threat, to give a relative measure of potential loss of structures and threats to public safety from wildfire. The map (**Figure 5.6**) was generated using this data but shows only the wildland-urban interface (WUI) in Santa Barbara County. The WUI map depicts areas where potential fuels treatments will be prioritized to reduce wildland fire threats.



Figure 5.6 Wildland-Urban Interface (WUI)

Fire representative on the LHMP team acknowledged that the WUI data shown in Figure 5.6 was developed on a statewide basis and does not consider the placement of local neighborhoods within the geography. Santa Barbara City Fire has created data at a more local level to convey communities at risk. Due to the threat, the City developed a 'Ready, Set, Go' guide for residents within the high fire area.

A list containing the federally regulated (communities which adjoin federal lands) communities at risk are within the Santa Barbara County's Hazard Mitigation Plan, which includes the City of Santa Barbara

The figure (**Figure 5.7**) below provides an overview of the location of the Communities at Risk.



Figure 0.7 Communities at Risk

5.1.2.6 History of Hazard in Santa Barbara

Because Santa Barbara County and the City are prone to wildfires. Because there are many areas in which the County and City intersect there is a long history of wildfires in the County that have affected the City (see shaded incidents). **Table 5.5** lists the major wildfires in Santa Barbara County from 1922-2015.

Year	Fire Name	Acres Burned
1922	Kellye Ranch	59,600
1923	Oso Canyon	70,000
1928	Aliso Canyon	42,880
1933	Indian Canyon	30,800
1950	San Marcos	9,500
1953	Big Dalton	73,450
1955	Refugio	84,770
1964*	Coyote	67,000
1966	Wellman	93,600

1971	Romero	14,538
1977*	Sycamore Canyon	805
1977	Hondo Canyon	8,087
1979	Spanish Ranch	1,190
1979	Eagle Canyon	3,765
1990*	Paint	4,424
1993	Marre	43,864
1994	Oak Hill	2,130
1997	Santa Rosa	3,074
1999	Spanish Ranch	22,296
1999	Camuesa	180
2000	Harris	8,684
2002	Sudden	7,500
2004	Gaviota	7,197
2006	Perkins	14,923
2007	Zaca	240,807
2008	Gap	9,443
2008*	Теа	1,940
2009*	Jesusita	8,733
2009	La Brea	89,489
2010	Bear Creek	1,252
2011	Figueroa	698
2013	White	1,984
2015	Miguelito	632

*Fires effecting the City of Santa Barbara

The CDF-FRAP compiles fire perimeters of wildfires and has established an on-going fire perimeter data capture process. The map below (**Figure 5.8**) shows historic, significant wildfire perimeters in Santa Barbara County. Fire perimeters provide a reasonable view of the spatial distribution of past large fires.



Figure 5.8 Santa Barbara County Fire History

Over the last ten years, Santa Barbara County has experienced seven (7) major fires. Three of these fires; Gap, Tea, and Jesusita; directly threatened the heavily populated Santa Barbara Front Country and areas of the City of Santa Barbara. Two of these fires, Tea and Jesusita, destroyed close to three hundred structures and burned a total 16 ½ square miles. Combined, the La Brea Fire and the Zaca Fire burned a total of 518 square miles, predominately in backcountry areas of the County. Although these two fires did not directly threaten urban areas, the smoke and ash produced created air quality issues for hundreds of miles. Recently the Miguelito and the Mesa fires threatened the Lompoc area (2015). While more extensive discussion of previous wildfires in Santa Barbara County is available, the following information provides an overview and the location (**Figure 5.9**) of the more recent, significant events:

- The Zaca Wildfire burned 240,207 acres, making the Zaca Fire one of the largest wildfires in California history. The total cost of suppression was over \$119 million.
- The Gap Wildfire charred 9,443 acres of forest in the Los Padres National Forest. The fire was located in the Santa Ynez Mountains north of the community of Goleta.
- The Jesusita Fire burned over 8,700 acres in the hills above the City of Santa Barbara. This wildfire was driven by a combination of a large dead fuel bed and sundowner winds gusting over 60 miles per hour. The damage, as a result of this fire, was significant, with

80 homes destroyed and another 15 homes badly damaged. No deaths were reported, but at least 30 firefighters were injured battling the fire.

• The La Brea Wildfire burned over 89,000 acres in the Los Padres National Forest in the County of Santa Barbara. The fire was fueled by very hot temperatures, low relative humidity and significant heavy fuels.



Figure 5.9 Recent Fires in Santa Barbara County

5.1.2.7 Probability of Occurrence

Vegetation and topography were the significant elements in the identification of the fire threat zones. A substantial amount of the vegetation in Santa Barbara is commonly called chaparral, it is a dense and scrubby bush that has evolved to persist in a fire-prone habitat. Chaparral plants will eventually age and die; however, they will not be replaced by new growth until a fire rejuvenates the area. Chamise, manzanita and ceanothus are all examples of chaparral which are quite common in Santa Barbara County.

Santa Barbara County was subject to 29 major wildfires over 88 years, resulting in a 33% chance of occurrence in any given year. In addition, the map below (**Figure 5.10**) shows the threat of fire to Santa Barbara County. Fire threat is a combination of two (2) factors: 1) fire frequency or the likelihood of a given area burning, and 2) potential fire behavior. These two factors are combined to create four (4) threat classes ranging from moderate to extreme.



Figure 5.10 Fire Threat

5.1.2.8 Climate Change Considerations

Climate change plays a significant role in wildfire hazards. The changing conditions from wet to dry can create more fuel; the increased possibility of high winds increase risk and present a challenge, and drought conditions could hinder ability to contain fires. Large wildfires also have several indirect effects beyond those of a smaller, local fire. These may include air quality and

health issues, road closures, business closures, and other forms of losses. Furthermore, large wildfires increase the threat of other disasters such as landslide and flooding.

5.1.3 Landslide and other Earth Movements

5.1.3.4 Description of Hazard

Landslides can be defined as the movement of a mass of rock, debris, or earth down an incline. Types of landslides include: rock falls, rock slides, deep slope failures, shallow debris flows, and mud flows.

- Slope failure occurs when there is erosion of slopes by surface-water runoff. The intensity of slope wash is dependent on the discharge and velocity of surface runoff and on the resistance of surface materials to erosion.
- Mudflows are defined as flows or rivers of liquid mud down a hillside on the surface of normally dry land. They occur when water saturates the ground, usually following long and heavy rain falls, or rapid snow melt. Mud forms and flows down slope if there is no ground cover such as brush or trees to hold the soil in place.
- Debris Flow is defined when water begins to wash material from a slope or when water sheets off of a newly burned stretch of land. Chaparral land is especially susceptible to debris flows after a fire. The flow will pick up speed and debris as it descends the slope. As the system gradually picks up speed it takes on the characteristics of a basic river system, carrying everything in its path along with it.

The most common cause of a landslide is an increase in the down slope gravitational stress applied to slope materials, also known as over-steepening. Over-steepening can be caused by natural processes or by man-made activities. Undercutting of a valley wall by stream erosion or of a sea cliff by wave erosion are ways in which over-steeping may occur naturally.

5.1.3.5 Location and Extent of Hazard in Santa Barbara

The location and extent of landslides are extremely difficult to predict consistently for a planning area the size of Santa Barbara County. Landslides and landslide prone sedimentary formations are present throughout the coastal plain of western Santa Barbara County (**Figure 5.11**). Landslides also occur in the granitic mountains of East Santa Barbara County, although they are less prevalent. Many of these landslides are thought to have occurred under much wetter climatic conditions than at present. Recent landslides are those with fresh or sharp geomorphic expressions suggestive of active (ongoing) movement or movement within the past several decades. Reactivations of existing landslides can be triggered by disturbances such as heavy rainfall, seismic shaking and/or grading. Many recent landslides are thought to be reactivations of ancient landslides.

Santa Barbara County Slope Stability, Landslides

 Problem Rating	Possible Variation from Assigned Rating
 1. Low	1. No Variation
1. Low	4. +2 (High)
2. Moderate	6. ±1 (Low, High)
3. High	52 (Low)
3. Nigh	31 (Moderate)

Figure 0.11 Slope Stability, Landslides SLOPE STABILITY, LANDSLIDES SANTA BARBARA COUNTY



The Santa Barbara County Comprehensive Plan Seismic Safety and Safety Element lists the areas in Santa Barbara County, that include a small portion of the City, where there is fairly severe land sliding and associated geologic formations. The areas are as follows:

- Foothills in the Summerland area
- Foothills of the South Coast from Santa Barbara west to Gaviota Pass
- Hope Ranch area west of Lavigia Hill to Goleta
- Sea cliffs along the coast from Santa Barbara to Gaviota, particularly those with out-ofslope dips
- Solvang area south of the Santa Ynez River in the vicinity of, and east of Alisal Ranch
- Areas east and northeast of Los Olivos near the Los Padres National Forest boundary
- Lompoc area south of Santa Ynez River
- Mountains south of Guadalupe and east of Point Sal
- Sycamore Canyon Road area between Alameda Padre Serra and Stanwood Drive; although in the county had a big effect on the City in regards to fire response and mutual aid in that area.

5.1.3.6 History of Hazard in Santa Barbara

As previously mention, Santa Barbara County is prone to landslides; however the City has not experience any significant slides. However, some slides within the county has affected a few transportation corridors and hampered first responders

5.1.3.7 Probability of Occurrence

Figure 5.13 shows the general locations of high and moderate landslide risk in Santa Barbara County These areas are considered to have a higher probability of landslide occurrence than the low landslide risk areas in Santa Barbara County.

In order for landslides to occur, the correct geological conditions, which include unstable or weak soil or rock, and topographical conditions, such as steep slopes, are necessary. Heavy rain often triggers these hazards, as the water adds extra weight that the soil cannot bear. Over irrigating has the same affect. Earthquakes can also affect soil stability, causing enough weakening to favor gravitational forces.



Figure 0.13 Landslide Incidence

5.1.3.8 Climate Change Consideration

Climate change can increase the frequency and/or intensity of landslides. Changes in precipitation, specifically the increased frequency of intense precipitation, can result in a water content the ground cannot tolerate, and may cause landslides. These landslides may happen more frequently due to the increased number of heavy rainfall events. Also, the increased heavy precipitation events may cause instability in areas where landslides we not as likely before. Therefore, resulting landslides may be larger or more widespread.

5.1.4 Flood

5.1.4.4 Description of Hazard

A flood is a general and temporary condition of partial or complete inundation on land that is normally dry. Several factors determine the severity of floods, including rainfall intensity and duration, antecedent moisture conditions, surface permeability, and geographic characteristics of the watershed such as shape and slope. Other causes can include a ruptured dam or levee, rapid ice or snow melting in the mountains, under-engineered infrastructure, or even a poorly placed beaver dam can overwhelm a river or channel and send water spreading over adjacent land or floodplains.

A large amount of rainfall in a short time can result in flash flood conditions, as can a dam failure or other sudden spill. The National Weather Service's definition of a flash flood is a flood occurring in a watershed where the time of travel of the peak of flow from one end of the watershed to the other is less than six hours.

Another form of flooding occurs when coastal storms produce large ocean waves that sweep across coastlines making landfall. Storm surges inundate coastal areas, destroy dunes, and cause flooding. If a storm surge occurs at the same time as high tide, the water height will be even greater. The County historically has been vulnerable to storm surge inundation associated with tropical storms and El Nino.

5.1.4.5 Location and Extent of Hazard in Santa Barbara

The geographical location, climate, and topography of Santa Barbara City and County make it prone to flooding. In regions such as Santa Barbara, without extended periods of below-freezing temperatures, floods usually occur during the season of highest precipitations or during heavy rainfalls after long dry spells. Additionally, due to the Mediterranean climate and the variability of rainfall, stream flow throughout the County is highly variable and directly impacted from rainfall with little snowmelt or base flow from headwaters. Watercourses can experience a high amount of sedimentation during wet years and high amounts of vegetative growth during dry and moderate years.

The drainages in the City of Santa Barbara are characterized by high intensity, short duration runoff events, due to the relatively short distance from the top of the Santa Ynez Mountains to the Pacific Ocean. Runoff from high intensity, short duration storm events can cause inundation of over bank areas, debris including sediment, rock, downed trees in the water that can plug culverts and bridges, erosion and sloughing of banks, and loss of channel capacity due to sedimentation.

Another contributing factor to flooding is the City's location along the Pacific Ocean. With its six (6) miles of coastline, the City is susceptible to storm surge events following storms off the coast. Additionally, portions of the City's subject to flooding due to flash flooding, urban flooding, watershed channel overflow, and downstream flooding.

5.1.4.6 History of Hazard in Santa Barbara

Flooding has been a major problem in the City of Santa Barbara. The City has several watershed areas that have different types of flooding problems, including over bank riverine flooding, flash floods, tidal flooding/tsunamis, and dam failure. The most common flooding in Santa Barbara is due to watershed channel flooding and flash flood events.

Between 1862 and the 2014, Santa Barbara City and County experienced 19 significant floods. Eight of these floods received Presidential Disaster Declarations. **Table 5.6** lists these floods, as well as information concerning the nature of the flooding and the extent of the damages. Shaded events occurred in the City of Santa Barbara.

Date	Damages	Source of Estimate	Comments
1862	Not available	1993 Precipitation Report	Largest discharges ever in California
1907	Significant damage to structures, crops	1993 Precipitation Report	4 straight days of rain, entire Lompoc Valley engulfed
1914	Twelve houses and six bridges lost	County of Santa Barbara Sanitation and Flood Control	Destroyed 2 dams, 22 deaths
1952	50+ homes inundated, large-scale evacuations	EIR, 1993 Precipitation Report	Propagated the formation of the Flood Control District
1964	Millions of dollars	Floodplain Information Montecito Streams Vicinity of Montecito, SB County	Relatively light rain fell on recently burned areas. 20' walls of water, mud, boulders, and trees
1969	\$4.5 million	Floodplain Information Montecito Streams Vicinity of Montecito, SB County	Highest flows in 2900 years on Santa Ynez River, 16" of rain in 24 hours at Juncal Dam
1971	Federal Disaster Declaration	Floodplain Information Montecito Streams Vicinity of Montecito, SB County	High flows and flooding along Romero Canyon Creek, Garrapata Creek, and Toro Canyon Creek
1978	Millions of dollars, Presidential Disaster Declaration	1993 Precipitation Report and Hydrology Methods	Inundation of agricultural areas and mudslides.
1980	Presidential Disaster Declaration	n/a	Severe flooding, mudslides, and high tides throughout County
1982-1983	2 Presidential Disaster Declarations	n/a	Parts of southern California received over 200% of normal rainfall
1993	\$1.4 million in disaster recovery funds received from FEMA	1993 Precipitation Report and Hydrology Methods	180%-209% of normal rainfall, with highest-ever intensity for the County recorded at Buellton Fire Station: 11/4 inches in 15 minutes.
January 1995	\$50 million, Presidential Disaster Declaration	1995 Floods	Flooding on most major channels in Goleta, Santa Barbara, Montecito, and Carpinteria
March 1995	\$30 million, Presidential Disaster Declaration	1995 Floods	Major flooding in Goleta, Santa Barbara, and Montecito, many of the same structures flooded in January were flooded again

Table 0.6 Historical Records of Large Floods in Santa Barbara County

Date	Damages	Source of Estimate	Comments
1998	\$15 million, Presidential Disaster Declaration	1998 Flood Report	21.36" of rainfall that month in Santa Barbara, many areas at 600% of normal February rainfall
February 2005	\$2 million	NCDC	In Santa Barbara county, flash flooding and mudslides closed down Highway 101 at Bates Road.
January 26, 2011	Total Individual Assistance: \$1,909,557 Total Public Assistance: \$75,414,223 Countywide per capita impact: Santa Barbara County- \$9.43, Presidential Disaster Declaration	FEMA	Severe winter storms, flooding, and debris and mudflows occurred from December 17, 2010 to January 4, 2011. The counties affected include: Inyo, Kern, Kings, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, and Tulare.
March 2011	\$1.7 Million	County Insurance Claims	A severe winter storm occurred in March 2011 that included flooding, debris and mudflows flows throughout Santa Barbara County
March 1 [,] 2014	\$500k	Television Reports	A strong winter storm caused significant damage to coastal properties on the south coast of Santa Barbara County. Coastal Damage; Goleta Pier partially closed
December 12, 2014	<\$100k	County Flood Control District	A brief but intense rainfall, portions of which covered a limited area that exceeded a 200-year return period, caused damage county-wide, mostly in the form of downed trees, bank erosion and sediment and debris deposition.

While there is extensive detailed documentation of historical flood events in Santa Barbara County, the following section provides a summary of the more recent significant flood events:

1992 Flood- The 1992 – 1993 rainy season was one of the wettest recorded in Santa Barbara County, areas of the County received 180% to 209% normal rainfall. One of the County's highest short-duration rainfall intensities was recorded during 1993; 1-¼-inches fell in fifteen minutes at the Buellton Fire Station. Following a 25-year storm event that occurred in late March, Santa Barbara was declared a federal disaster area with 12 creeks substantially damaged along with several detention basins and residences. Santa Barbara County received approximately \$1.4 million in disaster recovery funds from FEMA. (1993 Precipitation Report and Hydrology Methods) (Presidential Disaster Declaration)

1995 Flood- The floods of 1995 brought widespread flooding to Santa Barbara County. The most severe flooding occurred on the South Coast while the rest of the County was largely

spared from serious damages. On the South Coast, the 1995 Flood was more severe and wide spread than either the 1969 or 1967 floods. Flooding occurred on most major streams from Goleta to Montecito. Estimated public and private damages were around \$100 million and the area was declared a federal disaster area. (1995 Floods)

January 1995- Flooding occurred on most major channels in Goleta, Santa Barbara, Montecito, and Carpinteria. Approximately 510 structures were reported flooded and/or damaged along the South Coast, with a total cost resulting from public and private damages of approximately \$50,000,000. All modes of transportation in and out of the South Coast were cut off for several hours; some modes of transportation were not restored for several days. (1995 Floods) (Presidential Disaster Declaration)

March 1995- During the March 10th 1995 storm, major flooding occurred again in the areas of Goleta, Santa Barbara, and Montecito. More than 300 structures were reported flooded and/or damaged; many of the same structures flooded or damaged during the January 1995 storm event. Approximately 30 million dollars of public and private property were damaged during the storm. There was also one death due to this storm in the Sycamore Canyon area of the City. Once again, all modes of transportation in and out of the South Coast were cut off for several hours. (1995 Floods) (Presidential Disaster Declaration)

1998 Flood– February 1998 brought several record-breaking rainfalls with 50-year storm event intensities. The City of Santa Barbara recorded its wettest month in history, 21.36-inches of rainfall. By the end of the month, many areas in the County had received 600% of normal February rainfall. Flood related damages within Santa Barbara occurred during three major storm periods: February 1-4, February 6-9, and February 22-24. The cost to repair extensive flood damage to public and private property was estimated at \$15 million. Just like in 1995, transportation throughout the County was disrupted through closures of roads, the Santa Barbara Airport, and train service. Flood damage was spread throughout the County and the County was declared a Federal Disaster Area on February 9. (Presidential Disaster Declaration)

Although the February storms had higher annual rainfalls, flooding in 1998 was considered less severe than other historical events due to flood control improvements, such as Cachuma Reservoir, and channel and debris dam maintenance performed by the County. (1998 Flood Report)

5.1.4.7 Probability of Occurrence

The probability of flooding in Santa Barbara County, which includes the City of Santa Barbara, is shown in **Figure 5.14**. The map shows the location of the special flood hazard zones in Santa Barbara County. The flood hazard zones depicted on the map are derived from FEMA's Flood Insurance Rate Maps (FIRM) and indicate the probability of flooding happening over a given period of time. Flood zones are geographic areas that defined varying levels of flood risk. Each zone reflects the severity or type of flooding in the area. The FIRM boundaries are developed by FEMA to convey flood risk.



Figure 5.14 Special Flood Hazard Area

Within the coastal special flood hazard area, there are two primary flood zones: Zone VE and Zone AE. Zone VE, also known as the Coastal High Hazard Area, has a wave component that is greater than three feet in height. Coastal Zone AE has a wave component of 0-3 feet in height.

The Federal Emergency Management Agency is conducting a coastal flood study for Santa Barbara County as part of the California Coastal Analysis and Mapping Project. Results from this Open Pacific Coast Study will produce flood and wave data for the National Flood Insurance Program, Flood Insurance Study reports, and regulatory Flood Insurance Rate Map panels.¹

This coastal study will result in floodplain mapping that is anticipated to become effective in 2018. Current indications are that the resulting base flood elevations will be several feet higher than the current flood mapping.

¹ Source: FEMA; Santa Barbara, California Open Pacific Coast Study, California Coastal Analysis and Mapping Project, April 2016

The following below describes the different flood hazard zones and their associated probabilities.

Zone A

Zone A is the flood insurance rate zone that corresponds to the 100-year floodplains that are determined in the Flood Insurance Study (FIS) by approximate methods. Because detailed hydraulic analyses are not performed for such areas, no BFEs or depths are shown within this zone. Mandatory flood insurance purchase requirements apply.

Zone AE and A1-A30

Zones AE and A1-A30 are the flood insurance rate zones that correspond to the 100-year floodplains that are determined in the FIS by detailed methods. In most instances, BFEs derived from the detailed hydraulic analyses are shown at selected intervals within this zone. Mandatory flood insurance purchase requirements apply.

Zone AH

Zone AH is the flood insurance rate zone that corresponds to the areas of 100-year shallow flooding with a constant water-surface elevation (usually areas of ponding) where average depths are between 1 and 3 feet. The BFEs derived from the detailed hydraulic analyses are shown at selected intervals within this zone. Mandatory flood insurance purchase requirements apply.

Zone AO

Zone AO is the flood insurance rate zone that corresponds to the areas of 100-year shallow flooding (usually sheet flow on sloping terrain) where average depths are between 1 and 3 feet. The depth should be averaged along the cross section and then along the direction of flow to determine the extent of the zone. Average flood depths derived from the detailed hydraulic analyses are shown within this zone. In addition, alluvial fan flood hazards are shown as Zone AO on the FIRM. Mandatory flood insurance purchase requirements apply.

Zone AR

Zone AR is the flood insurance rate zone used to depict areas protected from flood hazards by flood control structures, such as a levee, that are being restored. FEMA will consider using the Zone AR designation for a community if the flood protection system has been deemed restorable by a Federal agency in consultation with a local project sponsor; a minimum level of flood protection is still provided to the community by the system; and restoration of the flood protection system is scheduled to begin within a designated time period and in accordance with a progress plan negotiated between the community and FEMA. Mandatory purchase requirements for flood insurance will apply in Zone AR, but the rate will not exceed the rate for unnumbered A zones if the structure is built in compliance with Zone AR floodplain management regulations.

For floodplain management in Zone AR areas, elevation is not required for improvements to existing structures. However, for new construction, the structure must be elevated (or floodproofed for non-residential structures) such that the lowest floor, including basement, is a maximum of 3 feet above the highest adjacent existing grade if the depth of the base flood elevation (BFE) does not exceed 5 feet at the proposed development site. For infill sites, rehabilitation of existing structures, or redevelopment of previously developed areas, there is a 3 foot elevation requirement regardless of the depth of the BFE at the project site.

The Zone AR designation will be removed and the restored flood control system shown as providing protection from the 1% annual chance flood on the NFIP map upon completion of the restoration project and submittal of all the necessary data to FEMA.

Zone A99

Zone A99 is the flood insurance rate zone that corresponds to areas of the 100-year floodplains that will be protected by a Federal flood protection system where construction has reached specified statutory milestones. No BFEs or depths are shown within this zone. Mandatory flood insurance purchase requirements apply.

Zone D

The Zone D designation on NFIP maps is used for areas where there are possible but undetermined flood hazards. In areas designated as Zone D, no analysis of flood hazards has been conducted. Mandatory flood insurance purchase requirements do not apply, but coverage is available. The flood insurance rates for properties in Zone D are commensurate with the uncertainty of the flood risk

Zone V

Zone V is the flood insurance rate zone that corresponds to the 100-year coastal floodplains that have additional hazards associated with storm waves. Because approximate hydraulic analyses are performed for such areas, no BFEs are shown within this zone. Mandatory flood insurance purchase requirements apply.

Zone VE

Zone VE is the flood insurance rate zone that corresponds to the 100-year coastal floodplains that have additional hazards associated with storm waves. BFEs derived from the detailed hydraulic analyses are shown at selected intervals within this zone. Mandatory flood insurance purchase requirements apply.

Zones B, C, and X

Zones B, C, and X are the flood insurance rate zones that correspond to areas outside the 100-year floodplains, areas of 100-year sheet flow flooding where average depths are less than 1 foot, areas of 100-year stream flooding where the contributing drainage area is less than 1 square mile, or areas protected from the 100-year flood by levees. No BFEs or depths are shown within this zone.

5.1.4.8 Climate Change Consideration

Climate change is both a present threat and a slow-onset disaster. It acts as an amplifier of existing hazards. Extreme weather events have become more frequent over the past 40 to 50 years and this trend is projected to continue. Rising sea levels, changes in rainfall distribution and intensity are

expected to have a significant impact on coastal communities, including portions of Santa Barbara County. This section presents a discussion of how climate change might impact the frequency, intensity and distribution of flood hazards.

5.1.5 Climate-related Hazards

This section assesses hazards that are related to climate and weather. NASA defines weather as the way the atmosphere is behaving, mainly with respect to its effects upon life and human activities. The difference between weather and climate is that weather consists of the short-term (minutes to months) changes in the atmosphere. Most people think of weather in terms of temperature, humidity, precipitation, cloudiness, brightness, visibility, wind, and atmospheric pressure, as in high and low pressure. In most places, weather can change from minute-to-minute, hour-to-hour, day-to-day, and season-to season. Climate, however, is the average of weather over time and space. Fifty-eight long-term changes in the atmosphere, are expected to change short-term weather patterns and thus change weather-related impacts, both short- and long-term. Most prominently, climate change is warming the average global temperatures, which will result in more frequent and intense extreme events related to changes in temperature and precipitation, such as heat waves, flooding.

In the State Hazard Mitigation Plan, climate change is treated as a condition that will change and potentially exacerbate the impact of other hazards rather than being treated as a distinct hazard with unique impacts. For example, extreme heat and heat waves is an existing hazard that will be exacerbated by climate change. Impacts of climate change on the frequency, timing, and magnitude of flooding varies with the geography throughout the state. Areas that experience early run off from snow melt coupled with intensified rain or coastal areas experiencing sea level rise may be more greatly impacted by flooding. Hazards that have the potential to be affected by climate change are grouped in this subsection.

The following section are the relevant climate-related hazards in Santa Barbara.

5.1.5.4 Sea Level Rise and Erosion

5.1.5.4.1 Description of Hazard

Sea level rise (SLR) is defined as the rising of the level of the sea as a result of the so-called greenhouse effect or global warming. SLR can occur through one or more of three (3) processes that include eustasy, isostasy, or thermal expansion. Erosion is a natural process which alters existing geomorphic features. Erosion can occur due to a number of factors, including winter storms, tidal action, wind-generated high surf, wave action, and rising sea levels.

In 2014, the City received a grant from the CCC to update the LUP, not including the Airport. The primary goals are to update and clarify LUP text, policies, and maps and to amend a targeted portion of the IP to include climate change adaption actions. The draft LUP update and targeted IP amendment are scheduled to be completed in spring 2016, followed by Planning Commission and City Council adoption and Coastal Commission certification.

One of the grant tasks was to conduct a sea level rise vulnerability assessment for the City. This task was fulfilled by a team of University of California Santa Barbara Bren School Master degree candidates. The <u>City of Santa Barbara Sea Level Rise Vulnerability Assessment (March 2015)</u> is

being used to inform policy development and the development of practical short term measures for the targeted IP amendment.

5.1.5.4.2 Location and Extent of Hazard in Santa Barbara

The impacts from SLR and erosion in Santa Barbara City will be felt along its six (6) mile long coastline. SLR coupled with increased frequency, severity, and duration of high tide and storm events related to climate change will result in more frequent and severe extreme events along the coast. These events could expose the coast to severe flooding and erosion, damage to coastal structures and real estate, and salinity intrusion into delta areas and coastal aquifers (Projecting Future Sea Level, A Report from the California Climate Change Center, 2006).



5.1.5.4.3 History of Hazard in Santa Barbara

Typically, the highest sea level readings along California's coastline occur during periods of heavy rain that coincide with high tides, causing coastal flooding, coastal bluff erosion, and landslides such as were experienced during the 1998 El Nino storms. Sea levels are already rising along the Santa Barbara County and City coastlines as is evident in long term tidal gauge records from

Station 9411340 since 1973, where the rate of rise has been approximately 0.41 feet per century² (**Figure 5.15**).





5.1.5.4.4 Probability of Occurrence

As discussed above, the potential impacts of global warming and climate change include increased opportunities for severe weather that may result in sea level rise and erosion. Santa Barbara County's land mass includes more than 110 miles of coastline, which includes six (6) miles in the City of Santa Barbara, with varying geologic features including steep coastal bluffs, beaches, wetlands, bays, and deltas. It also supports varying levels of development and land use, including recreational, agricultural, industrial, commercial, and residential.

A growing consensus of scientists believes that sea level rise will continue and the rate of rise will increase. The Intergovernmental Panel on Climate Change (IPCC) suggests that global SLR on the order of 0.2 m (0.66 ft.) and 0.6 m (1.97 ft.) is possible by 2100 with other scientists indicating this rise could be over 1 meter (3.28 ft.). ³ Figure 5.16 depicts areas (dark blue along and near the Santa Barbara County coastline that may be vulnerable to sea level rise in a 1.4 meter sea level rise scenario. ⁴ From the figure, it is apparent that a considerable number of buildings and infrastructure may be impacted.

² NOAA: <u>http://tidesandcurrents.noaa.gov/sltrends/sltrends_station.shtml?stnid=9411340</u>; retrieved April 6, 2011.

³ M. Vermeer and S. Rahmstorf. 2009. Global sea level linked to global temperature. Proceedings of the National Academy of Sciences, USA.

⁴ M. Heberger, H. Cookley, P. Herrera, The Pacific Institute, May 2009. The Impacts of Sea-Level Rise on The California Coast.



Figure 0.16 Sea Level Rise Santa Barbara Quadrangle

5.1.5.4.5 Climate Change Considerations

This entire section is dedicated to climate change hazards, and as such, is focused on climate change's effects on the community. However, it is important to highlight climate change's potential direct impact.

As mentioned above, SLR can be caused by three (3) different processes. Two (2) of which, melting of ice sheets and/or thermal expansion of water, are a result of climate change and/or global warming.

Erosion can be increased by climate change in two (2) ways. First, sea level rise, over time, will cause more rapid erosion of more inland areas than in previous years. This will be chronic erosion, however it will reach new, more inland areas, in the future due to higher average sea levels. Secondly, while the topic of increased frequency of storms is up in debate, if more severe or frequent storms do occur, it will increase coastal erosion events. More frequent storms will impact how frequently acute coastal erosion events occur, while more intense events will cause the erosion to extend further inland than before.

5.1.5.5 Drought and Water Shortages

5.1.5.5.1 Description of Hazard

Drought and water shortages are a gradual phenomenon and generally are not signified by one or two dry years. California's and Santa Barbara's extensive system of water supply infrastructure (reservoirs, groundwater basins, and interregional conveyance facilities) generally mitigates the effects of short-term dry periods for most water users. However, drought conditions are present when a region receives below-average precipitation, resulting in prolonged shortages in its water supply, whether atmospheric, surface, or ground water. A drought can last for months or years, or may be declared after as few as 15 days.

5.1.5.5.2 Location and Extent of Hazard in Santa Barbara

The entire county is subject to drought conditions and water shortages.

5.1.5.5.3 History of Hazard in Santa Barbara

Santa Barbara County has had three (3) State and/or Federally declared drought disasters since 1950; in 1990, 1991, and 2001. The State of California and Santa Barbara are currently in a drought. The average rainfall in downtown Santa Barbara City is <u>18.25</u> inches; however, since 2016, Santa Barbara has experienced significantly less than normal rainfall. The effects of the drought are most visible when looking at the current capacity and maximum storage of the two main water reservoirs in the county, Lake Cachuma and Twitchell. On February 16, 2016, Cachuma was reported to be at 14.9% capacity, and Twitchell was at 0.2% capacity.

5.1.5.5.4 Probability of Occurrence

In any given year, Santa Barbara County, which includes the City of Santa Barbara, can be subject to drought conditions and water shortages. For this reason, the City is currently in the process of building a desalination plant which should be operational in the fall of 2016. <u>Click here</u> for updated information on the progress of the plant.

5.1.5.5.5 Climate Change Considerations

This entire section is dedicated to climate change hazards, and as such, is focused on climate change's effects on the community. However, it is important to highlight climate change's potential direct impact.

Climate change has the potential to make drought events more common in the West, including California. Extreme heat creates conditions more conducive for evaporation of moisture from the ground, thereby increasing the possibility of drought. A warming planet could lead to earlier melting of winter snow packs, leaving lower stream flows and drier conditions in the late spring and summer. Snow packs are important in terms of providing water storage and ensuring adequate supply in the summer, when water is most needed. Changing precipitation distribution and intensity have the potential to cause more of the precipitation that does fall to run-off rather than

be stored. The result of these processes is an increased potential for more frequent and more severe periods of drought.

5.1.5.6 Severe Weather and Storms

5.1.5.6.1 Extreme Heat

5.1.5.6.1.1 Description of Hazard

Extreme Heat is a function of heat and relative humidity. A Heat Index describes how hot the heathumidity combination makes the air feel. As relative humidity increases, the air seems warmer than it actually is because the body is less able to cool itself via evaporation of perspiration. As the Heat Index rises, so do health risks such as heat exhaustion, sunstroke, and heatstroke. Some Heat Index Program Alert procedures are implemented when the high temperature is expected to exceed 105° to 110° (depending on local climate) for at least two consecutive days.

5.1.5.6.1.2 Location and Extent of Hazard in Santa Barbara

The entire county, which includes the City of Santa Barbara, is subject to extreme heat conditions, particularly inland areas.

5.1.5.6.1.3 History of Hazard in Santa Barbara

Santa Barbara County and City has experienced several extreme heat events in the past; however, they are not well documented. One documented event occurred in September 1856 where a U.S. Coast Guard vessel recorded a record temperature of 135 degrees Fahrenheit during a sundowner event on the Santa Barbara coast.

5.1.5.6.1.4 Probability of Occurrence

In any given year, Santa Barbara can be subject to extreme heat conditions.

5.1.5.6.1.5 Climate Change Considerations

As temperatures rise due to climate change, Californians will face greater risk of death from dehydration, heat stroke/exhaustion, heart attack, stroke, and respiratory distress caused by extreme heat. By mid-century, extreme heat events in urban centers could cause two to three times more heat-related deaths than occur today. By 2100, hotter temperatures are expected throughout the state, with an increase of 3 to 5.5°F under the lower emissions scenario and 8 to 10.5°F under the higher emissions scenario (**Figure 5.17**).


Figure 5.17 Comparison between Historic and Projected Temperature



5.1.6.4 Description of Hazard

Energy shortages (or disruptions) are considered a form of lifeline system failure. Disruptions can be the consequence of another hazard, or can be a primary hazard, absent of an outside trigger. A failure could involve one, or a combination of the potable water system, power system, natural gas system, wastewater system, communication system, or transportation system. Most power blackouts are not human caused. They are the result of situations involving unintended events, such as an overwhelming need for power due to weather conditions, equipment failure, or accidents. They may also fail due to natural hazards such as earthquakes, floods, and landslides. These outages can last anywhere from a few minutes to several weeks.

Santa Barbara County has two service providers. Pacific Gas and Electric (PG&E) provides electricity in the northern part of the County, with termination of services north of the Gaviota area. Southern California Edison (SCE) provides power to the Southern parts of the County, with termination of services in Gaviota. The two systems are not connected. Thus, is there is a major interruption of service in the Santa Barbara area, then all serviced could be denied in either direction.

Both power companies are well aware of the restrictions on their systems and are making planned systematic changes to address the shortcomings. SCE has temporarily deployed several portable generators in the Goleta Valley to mitigate any problems that may occur during the El Nino rain season.

The City of Santa Barbara is served by the Southern California Edison Company. There are two lines that serve the southern portion of the County that includes the City.

5.1.6.5 Location and Extent of Hazard in Santa Barbara

The entire county, which includes the City of Santa Barbara, is subject to energy shortages.

5.1.6.6 History of Hazard in Santa Barbara

Energy disruptions on a small scale have occurred on a regular basis in Santa Barbara City; especially during strong wind / storm events.

5.1.6.7 Probability of Occurrence

In any given year, Santa Barbara City can be subject to energy shortages. A large disruption due to a power failure or rotating brown out a highly likely during strong storm events or during times of extreme heat.

5.1.6.8 Climate Change Considerations

With increased changes in weather and climate, the demands on energy will shift too. This shift in demand could have significant impacts on energy supply and demand.

5.1.7 Oil Spills

5.1.7.4 Description of Hazard

An oil spill is a release of liquid petroleum hydrocarbon into the environment due to human activity or technological error that results in pollution of land, water, and air. Oil releases also occur naturally through oil seeps either on land or under water. Marine oil spills, whether accidental or intentional, can result from the release of crude oil from offshore oil platforms, drilling rigs, wells, pipelines, tank trucks, and marine tank vessels (tankers). Refined petroleum products such as gasoline, diesel, and heavier fuels such as bunker fuel used by cargo ships are also sources of potential oil spill releases. Depending on the origin, size, and duration of the release, an oil spill can have serious impacts on air and water quality, public health, plant and animal habitat, and biological resources. Clean up and recovery is time and cost consuming, and dependent on weather conditions such as wind and rain. Tidal and Current conditions may also make the spill more dynamic.

5.1.7.5 Location and Extent of Hazard in Santa Barbara

This hazard can occur in any part of Santa Barbara City where existing oil & gas operations are located, including off shore where there are several platforms and undersea pipelines.

5.1.7.6 History of Hazard in Santa Barbara

Santa Barbara City has experienced the following large oil spills

- January 28, 1969 Platform A 80,000 to 100,000 barrels
- May 19, 2015 Plains All American Pipeline at Refugio 3,400 barrels

5.1.7.7 Probability of Occurrence

In any given year, Santa Barbara City could be subject to oil spills offshore.

5.1.7.8 Climate Change Considerations

With increased changes in weather, climate, and economics, the demands for oil & gas production may shift. This shift in demand could increase production, distribution, and transportation of oil products; thus increasing the potential oil spill occurrences.

5.1.8 Dam Failure

5.1.8.4 Description of Hazard

Dams fail due to old age, poor design, structural damage, improper siting, landslides flowing into a reservoir, or terrorist actions. Structural damage is often a result of a flood, erosion, or earthquake. A catastrophic dam failure could inundate the area downstream. The force of the water is large enough to carry boulders, trees, automobiles, and even houses along a destructive path downstream. The potential for casualties, environmental damage, and economic loss is great. Damage to electric generating facilities and transmission lines could impact life support systems in communities outside the immediate hazard area.

5.1.8.5 History of Hazard in Santa Barbara

The State of California and the federal government have a rigorous Dam Safety Program. This is a proactive program that ensure proper planning in the event of failure but also sets standards for dam design and maintenance. Because of this, many potential issues have been addressed and/or resolved. Prior to the implementation of this program Santa Barbara did experience a dam related incident.

Built in 1917, the Sheffield Dam only survived for eight years, failing catastrophically during an earthquake in 1925 in the City of Santa Barbara. It was built on sandy soil which liquefied during the event. The center 300-feet of the 720-feet long dam broke off and was carried away on the liquefied soil, spilling 30 million gallons of water. Damage estimates are unavailable.

5.1.8.6 Location and Extent of Hazard in Santa Barbara

There are two (2) dams in the City; of these one is owned and operated by the City of Santa Barbara; Gibraltar Dam. These dams range in purpose from water supply to flood control. Dam failure inundation zones mapped by the State of California indicate areas that would be inundated should a dam fail catastrophically. The inundation mapping is considered confidential by the State of California.

Gibraltar Dam and reservoir are located on the Santa Ynez River in Santa Barbara County, about 9 miles north of the City and upstream from Lake Cachuma. The City owns and operates the dam and reservoir pursuant to a Notice of Appropriation posted on October 11, 1904. Stored water is diverted through Mission Tunnel to the Cater Water Treatment Plant. The dam is a constant radius, concrete arch dam constructed in 1920 with an original capacity of 14,500 AF; it was raised to current elevation in 1949 and strengthened in 1991.Gibraltar Reservoir is the source of about one-third of the City of Santa Barbara's water supply. Loss of storage capacity due to siltation has been an issue since the dam was constructed. To monitor changes in capacity, and pursuant to the requirements of the Upper Santa Ynez River Operations Agreement, the City commissions a bathymetric survey of Gibraltar Reservoir at approximately three year intervals.

The other dam and reservoir in the City is Lauro Dam, which is owned and operated by the Bureau of Reclamation. Lauro Dam and Reservoir are located on Diablo Creek near Santa Barbara. The dam is an earth fill structure with a crest length of 540 feet and a height of 137 feet. The reservoir has a capacity of 640 acre-feet.

(Figure 5.18).

Figure 5.19 displays the dam failure inundation areas along with the location of major dams in the County.



Figure 0.18 Dam Locations

Figure 0.19 Dam Inundation Zones

<mark>NEED MAP</mark>

5.1.8.7 Probability of Occurrence

Dam failure events are infrequent and usually coincide with the events that cause them, such as earthquakes, landslides and excessive rainfall and snowmelt. There is a "residual risk" associated with dams; residual risk is the risk that remains after safeguards have been implemented. For dams, the residual risk is associated with events beyond those that the facility was designed to withstand.

However, the probability of occurrence of any type of dam failure event is considered to be low in today's regulatory and dam safety oversight environment.

5.1.8.8 Climate Change Considerations

Increased rainfall from changing climate conditions could present a risk to dams in Santa Barbara County if volume of runoff is greater than the dam's capacity. This could cause the County to release stored water into the downstream water courses in order to ensure the integrity of the dam.

5.1.9 Agricultural Pests

5.1.9.4 Description of Hazard

Agricultural pests and disease infestation occur when an undesirable organism inhabits an area in a manner that causes serious harm to agriculture crops, livestock or poultry, and wild land vegetation or animals. Countless insects and diseases live on, in, and around plants and animals in all environments. Most are harmless, while some can cause significant damage and loss. Under some conditions, insects and diseases that have been relatively harmless can become hazardous. For example, severe drought conditions can weaken trees and make them more susceptible to destruction from insect attacks than they would be under normal conditions.

5.1.9.5 History of Hazard in Santa Barbara

The City of Santa Barbara does not have any historical record regarding agricultural pests that have caused any type of incident

5.1.9.6 Location and Extent of Hazard in Santa Barbara

The County's agricultural emergency events does effect the city except in regard to loss revenue.

Figure 5.20 shows land that, under the Williamson Act, has been zoned as agricultural, open space, or recreational. These lands are susceptible to agricultural pests and diseases. **Figure 5.21** portrays crop land. These areas are also susceptible to agricultural pests and diseases.



Figure 0.20 Agricultural Preserves, 2010



Figure 0.21 Agricultural Crops

5.1.9.7 Probability of Occurrence

Due to its interaction with the global economy, its mild Mediterranean climate, and its diversified agricultural and native landscape, Santa Barbara County currently experiences and will continue to experience periodic losses due to agricultural pests and diseases. The probability in the City of Santa Barbara is low; but the City would feel loss as it does interact with the County in regards to economics.

5.1.9.8 Climate Change Consideration

California farmers contend with a wide range of crop-damaging pests and pathogens. Continued climate change is likely to alter the abundance and types of many pests, lengthen pests' breeding season, and increase pathogen growth rates. For example, the pink bollworm, a common pest of cotton crops, is currently a problem only in southern desert valleys because it cannot survive winter frosts elsewhere in the state. However, if winter temperatures rise 3 to 4.5°F, the pink bollworm's range would likely expand northward, which could lead to substantial economic and ecological consequences for the state.

Temperature is not the only climatic influence on pests. For example, some insects are unable to cope in extreme drought, while others cannot survive in extremely wet conditions. Furthermore, while warming speeds up the lifecycles of many insects, suggesting that pest problems could increase, some insects may grow more slowly as elevated carbon dioxide levels decrease the protein content of the leaves on which they feed (California Climate Change Center 2006).

5.1.10 Epidemic/Pandemic/Vector Borne Disease

5.1.10.4 Description of Hazard

Infectious disease emergencies are circumstances caused by biological agents, including organisms such as bacteria, viruses or toxins, with the potential for significant illness or death in the population.

Infectious disease emergencies may be caused by:

- Naturally occurring diseases spread person to person (e.g., measles, mumps, meningococcal disease, tuberculosis)
- Foodborne (e.g.: salmonella, E.coli, botulinum toxin, etc.)
- Vectors such as a mosquito that spread disease (e.g.: West Nile virus, dengue, Zika, malaria).
- Newly emerging infectious diseases (e.g.: Ebola, Zika, SARS, MERS, avian influenza).
- Intentionally caused spread of disease or toxins known as bioterrorism. Past bioterrorism events include the contamination of restaurant food with E.coli in Oregon (1984) and the release of Sarin gas in the Tokyo subway (1995).

The impact of infectious disease emergencies on the local community and its critical infrastructure will depends on:

- The type of biological agent and availability of treatment for victims
- The availability of prophylaxis for responders and the public
- The scale of exposure and ongoing exposure
- The mode of transmission and whether transmission can be interrupted
- Whether the event is affecting staffing for critical infrastructure within and outside of the county such as transportation, law enforcement, health care, and the medical and food supply chains.

Outbreaks, Epidemics, and Pandemics

An **outbreak** is when there are more cases than would be normally expected, often suddenly, of an infectious disease in a community or facility.

An **epidemic** is when there are more cases than would be normally expected of an infectious disease, often suddenly, in a population of a large geographic area.

A **pandemic** refers to an epidemic that has spread over several countries or continents, usually affecting a large number of people. Examples include pandemic influenza and Severe Acute Respiratory Syndrome or "SARS".

Outbreaks, epidemics, or pandemics can occur when a new virus emerges to which the population has little immunity. The 20th century saw three such pandemics, the most notable of which was the 1918 Spanish influenza pandemic that was responsible for 20 million deaths throughout the world. Secondary impacts include significant economic disruption to a community's infrastructure

due to loss of employee work time, essential services and products, and costs of treating or preventing spread of the disease.

Public health measures are used to control outbreaks, epidemics, or pandemics of infectious diseases, and are especially important for diseases with high morbidity or mortality and limited medical prophylaxis and/or rapid treatment.

Measures to control disease include:

- Legal measure such as isolation and quarantine of persons or products, and legal closure of food establishments.
- Control of contaminated food or water through recall of product or, for water, "Do Not Use", "Do Not Drink" or "Boil Water" orders issued by state or local health departments.

Vector control to eliminate vectors such as mosquitos that carry the disease from person to person. The Vector Borne Disease Section of the California Department of Public Health identifies the following types of diseases:

•	Africanized Honeybees	•	Bed Bugs	•	Body Lice
•	Cat Scratch Disease	•	Conenose Bugs	•	Hantavirus Cardiopulmonary Syndrome
٠	Head lice	•	Lyme Disease	•	Mosquitoes
٠	Murine Typhus	٠	Plague	٠	Ticks
•	West Nile Virus	•	Red Imported Fire Ants	•	Scabies
•	Swimmer's Itch	•	Tularemia	•	Zike Virus

5.1.10.5 Location and Extent of Hazard in Santa Barbara

An infectious disease hazard can occur throughout the entire County, which would include the City of Santa Barbara.

5.1.10.6 History of Hazard in Santa Barbara

- 1. Foodborne outbreaks occur every year in Santa Barbara County, which includes the City, commonly the result of Norovirus, and have sickened up to 100 individuals at a single facility.
- 2. 2009 H1N1 "Swine Flu" pandemic required rationing and prioritization of influenza vaccine. Public was given 27,000 vaccinations at large and small scale clinics. One hundred thirty-two thousand (132,000) doses of vaccine were distributed Countywide through response partners. The Santa Barbara Public Health Department Operations Center was activated for more than three months.

5.1.10.7 Probability of Occurrence

Disease outbreaks and flu epidemics occur on an ongoing basis. Occasionally these outbreaks require the initiation of the Santa Barbara County Public Health Department Infectious Disease Response Plan but have required little to no support from the City Emergency Operations Center.

There is a continued threat from a novel influenza virus or other emerging epidemic or pandemic disease that would require a disaster response at the EOC level. The disease could affect the city infrastructure, and the ability of the EOC and other city departments to respond due to disease related loss of staff.

5.1.10.8 Climate Change Consideration

- While many vector born and zoonotic diseases (VBZD), such as malaria, yellow fever, dengue, and murine typhus, are rarely seen in the United States, we are directly susceptible to VBZD that are found in warmer climates and vulnerable due to global trade and travel.
- Many VBZD are climate sensitive and ecological shifts associated with climate change are expected to impact the distribution and incidences of these diseases.
- Changes in temperature and precipitation directly affect vector born disease transmission through pathogen-host interaction, and indirectly through ecosystem changes and species composition.
- As temperatures increases vectors can spread into new areas that were previously too cold. For example, two mosquito vectors that carry malaria are now found at the U.S.-Mexico border.

5.1.11 Hazardous Materials Release

5.1.11.4 Description of Hazard

Hazardous Waste/Materials are widely used or created at facilities such as hospitals, wastewater treatments plants, universities and industrial/manufacturing warehouses. Several household products such as cleaning supplies and paint are also considered hazardous materials. Hazardous materials include:

- Explosives;
- Flammable, non-flammable, and poisonous gases;
- Flammable liquids;
- Flammable, spontaneously combustible, and dangerous when wet solids;
- Oxidizers and organic peroxides;
- Poisons and infectious substances;
- Radioactive materials; and
- Corrosive materials.

Both mobile and external hazardous materials releases can spread and affect a wide area, through the release of plumes of chemical, biological, or radiological elements or leaks or spills. Conversely, internal releases are more likely to be confined to the structure the material is store in.

Chemical may be corrosive or otherwise damaging over time. A hazardous materials release could also result in fire or explosion. Contamination may be carried out of the immediate area of the incident by people, vehicles, wind, and water. Weather conditions can increase the size and intensity of the Hazardous Materials Release. Typography, such as hills and canyons, can increase the size of the release or make it more difficult to contain.

5.1.11.5 Location and Extent of Hazard in Santa Barbara

The locations and identity of facilities that store hazardous materials are reported to local and federal governments. Many facilities have their own hazardous materials guides and response plans, including transportation companies who transport hazardous materials.

The release of hazardous materials into the environment can cause a multitude of problems. Although these incidents can happen almost anywhere, certain areas of the City are at higher risk, such as near roadways that are frequently used to transport hazardous materials and locations with industrial facilities that use, store, and/or dispose of such materials. Areas crossed by railways, waterways, airways, and pipelines also have increased potential for mishaps.

5.1.11.6 History of Hazard in Santa Barbara

In 1984, there was a chemical release from a chemical disposal truck on Hwy 101 in Santa Barbara City. The truck held a mixture of chemicals that were to be delivered to the Casmalia Chemical Dump (currently closed) in Santa Barbara County. The chemical release not only caused a cloud, but it released some of the liquid into the Mission Creek watershed area. This caused the evacuation of over 200 residents in the Westside areas of the city. The incident closed the Highway 101 north and south, which cause surface street gridlock for several hours.

5.1.11.7 Probability of Occurrence

The release of hazardous materials can occur throughout the entire county. Incidences can occur during production, storage, transportation, use or disposal of hazardous materials. Communities can be at risk if a chemical is used unsafely or released in harmful amounts into the environment. Hazardous materials can cause death, serious injury, long lasting health effects, and damage to buildings, the environment, homes, and other property.

5.1.11.8 Climate Change Consideration

As mentioned above, weather can play a significant factor in hazardous material releases. While there is little evidence to link climate change increase occurrences of hazardous material releases, it could impact the response and recovery efforts.

5.1.12 Terrorism

5.1.12.4 Description of Hazard

The term terrorism refers to intentional, criminal malicious acts. There is no single, universally accepted definition of terrorism, and it can be interpreted in many ways. Terrorism is defined in the Code of Federal Regulations as "...the unlawful use of force and violence against persons or property to intimidate or coerce a government, the civilian population, or any segment thereof, in furtherance of political or social objectives." (28 CFR, Section 0.85). For the purposes of this plan, terrorism refers to the use of weapons of mass destruction, including biological, chemical, nuclear, and radiological weapons; arson, incendiary, explosive, and armed attacks; industrial sabotage and intentional hazardous materials releases; and cyber terrorism. Conventional Attacks/Active Shooter incident is initiated by humans. It can be a well-planned coordinated attack with multiple suspects, or the result of a lone individual on a rampage.

5.1.12.5 Location and Extent of Hazard in Santa Barbara

Terrorism can occur throughout the entire city but due to its intended purpose would most likely happened in more populous urban areas where more devastation (and fear) will ensue.

5.1.12.6 History of Hazard in Santa Barbara

There has been no recorded history of terrorism in the City of Santa Barbara.

5.1.12.7 Probability of Occurrence

All City businesses and facilities are perceived as a soft target resulting in increased property crimes by criminals who live outside the City. Climate Change Consideration

While there is little evidence to link climate change increase occurrences of terrorism, depending on the type of attack, it could impact the response and recovery efforts.

5.1.13 Cyber Threats

5.1.13.4 Description of Hazard

A cyber security threat is a circumstance or event that has or indicates the potential to exploit vulnerabilities and to adversely impact organizational operations, organizational assets (including information and information systems), individuals, other organizations, or society. Critical infrastructure, such as utilities and telecommunications, are also potential targets. Examples of cyber threats include malware, phishing, denial of service attacks, ransomware, and state-sponsored hacking.

5.1.13.5 Location and Extent of Hazard in Santa Barbara

This hazard can happen anywhere within the County or City but will generally be targeted towards larger corporations or government.

5.1.13.6 History of Hazard in Santa Barbara

While there have been several smaller cyber threats and hacking, none have reached a level of significance.

5.1.13.7 Probability of Occurrence

Cyber threats are on the rise globally, national, and locally. The probability of occurrence of cyber threats is rapidly increasing, especially with increased reliance on the Internet and cloud-based computing.

5.1.13.8 Climate Change Consideration

While there is little evidence to link climate change to increase in occurrences of cyber threats, the target could be related to persons/groups with issues with individuals or companies they perceive to have effect on the climate (i.e., greenhouse gas producers).

5.1.14 Aircraft Crashes

5.1.14.4 Description of Hazard

Airline crashes are defined as any accident of private, commercial, or military aircraft on land or over sea. Airline crashes, like other transportation accidents, are less likely to lead to a state or federal disaster declaration, than other hazards previously and afore mentioned.

5.1.14.5 Location and Extent of Hazard in Santa Barbara

In addition to being within the flight pattern of many airports providing regional flights (i.e., Los Angeles International, San Francisco International, Oakland, San Jose International, Burbank Airport, John Wayne Airport, Long Beach Airport, Ontario International Airport), Santa Barbara has one (1) general aviation airport

The Santa Barbara Airport (SBA) is located near Goleta, west of Santa Barbara. On any given day, an average of 2,100 passengers arrive and depart from the airport. Santa Barbara is the busiest airport on the California coast, between Los Angeles and San Jose; serving more than 700,000 passengers annually. Five passenger airlines and one cargo carrier operate approximately 40 daily flight departures at the airport.

5.1.14.6 History of Hazard in Santa Barbara

Currently in the City of Santa Barbara there has not been a record of a large aircraft incident.

5.1.14.7 Probability of Occurrence

With the amount of general aviation operations, private flights, and its position between Los Angeles/San Diego and the Bay Area, there is a notable possibility of Santa Barbara City experiencing an airline crash.

5.1.14.8 Climate Change Consideration

There is no none linkage between climate change and airline crashes. Although bad weather does play a factor in some airline crashes, current technology does a good job of forecasting potential conditions.

5.1.15 Train Accidents

5.1.15.4 Description of Hazard

Train accidents are defined as any accidents involving public or private trains carrying passengers or cargo along the rail corridor. Train accidents, like other transportation accidents, are less likely to lead to a state or federal disaster declaration, than other hazards previously and afore mentioned.

5.1.15.5 Location and Extent of Hazard in Santa Barbara

Trains running through Santa Barbara City, and in close proximity to U.S. Highway 101, carry both commuters and commodities. Such commodities include hazardous materials, fuel (including oil), agriculture, meats, and non-consumables. A hazardous materials incident on the rails or roadway has the potential to shut down both rail and highway transportation routes where the two are within close proximity to another.

5.1.15.6 History of Hazard in Santa Barbara

In 1991 the Seacliff Incident, in neighboring Ventura County, occurred when a train released 440 gallons of aqueous hydrazine. The accident required the evacuation of the nearby Seacliff Community along with the shutting down of Highway 101, and took 5 days to cleanup. The City has not experienced this type of incident; but there is a history of many fatalities on the tracks running through Santa Barbara.

5.1.15.7 Probability of Occurrence

Train accidents are generally localized and the incidents result in limited impacts at the community level. However, if there are volatile or flammable substances on the train and the train is in a highly populated or densely forested area, death, injuries, and damage to homes, infrastructure, and the environment, including forest fires can occur.

5.1.15.8 Climate Change Consideration

There is no none linkage between climate change and train accidents; however, because of rail road track proximity along the Pacific Ocean, sea level rise could impact service. It is expected that conditions would be gradual in nature and would not create unforeseen problems or complications.

5.1.16 Tsunami

5.1.16.4 Description of Hazard

A tsunami is a series of long waves generated in the ocean by a sudden displacement of a large volume of water. Underwater earthquakes, landslides, volcanic eruptions, meteoric impacts, or onshore slope failures cause this displacement. Tsunami waves travel at speeds averaging 450 to 600 miles per hour. As a tsunami nears the coastline, its speed diminishes, its wavelength decreases, and its height increases. Depending on the type of event that creates the tsunami, as well the remoteness of the event, the tsunami could reach land within a few minutes or after several hours. Low-lying areas could experience severe inland inundation of water and deposition of debris more than 3,000 feet inland.

5.1.16.5 Location and Extent of Hazard in Santa Barbara

The City of Santa Barbara is located on or near several offshore geological faults, the more prominent faults being the Mesa Fault, the Santa Ynez Fault in the mountains, and the Santa Rosa Fault. There are other unnamed faults in the offshore area of the Channel Islands. These faults have been active in the past and can subject the entire area to seismic action at any time.

5.1.16.6 History of Hazard in Santa Barbara

The relative threat for local tsunamis in Santa Barbara can be considered low due to low recurrence frequencies. Large, locally-generated tsunamis are estimated to occur once every 100 years. Thirteen possible tsunamis have been observed or recorded from local earthquakes between 1812 and 1988. These tsunami events were poorly documented and some are very questionable. There is no doubt that earthquakes occurring along submarine faults off Santa Barbara could generate large destructive local tsunamis (<u>http://www.drgeorgepc.com/Tsunami1812SantaBarbara.html</u>). Internet research provides some documentation that two tsunamis were generated from two major earthquakes in the Santa Barbara City region in December of 1812. The size of these tsunamis may never be known with certainty, but there are unconfirmed estimates of 30-35 feet waves in Santa Barbara City. The estimates are found in various literature and based on anecdotal history only.

Major faults of the San Andreas zone, although capable of strong earthquakes, cannot generate any significant tsunamis. Only earthquakes in the Transverse Ranges, specifically the seaward extensions in the Santa Barbara Channel and offshore area from Point Arguello, can generate local tsunamis of any significance. The reason for this may be that earthquakes occurring in these regions result in a significant vertical displacement of the crust along these faults. Such tectonic displacements are necessary for tsunami generation.

Two separate events, occurring in 1877 and 1896, are listed in NOAA's online database as having heights of 1.8 and 2.5 feet waves. However, tsunami heights from historical records are estimated and should not be regarded as exact. Other recorded tsunamis affecting Santa Barbara during the 20th century are in the 0.1 - 1.0 foot range.

On February 27, 2010, a magnitude 8.8 earthquake occurred along the central coast of Chile and produced a tsunami. For the coast of Southern California, it was one of the largest tsunami episodes since 1964. In general, tsunami waves between 2 and 4 feet were reported. Tsunami waves of around 3 feet were reported by tide gauges across the Santa Barbara Channel. At Santa Barbara Pier, significant beach erosion was reported along with displacement of buoys. The tsunami surge lasted in excess of 20 hours. The most significant damage occurred along the coasts of Ventura and southern Santa Barbara counties. Numerous reports of dock damage were reported along with beach erosion.

On March 11, 2011, a magnitude 9.0 earthquake occurred off the Pacific coast of Tohoku, Japan. This earthquake devastated many communities in Japan and caused tsunami effects across the ocean in Santa Barbara City. The only significant impact to Santa Barbara City was to the dredging contractor for the City of Santa Barbara harbor. The City harbor operations documented approximately \$1,500 of damages (Public Assistance).

5.1.16.7 Probability of Occurrence

The University of Southern California (USC) Tsunami Research Group has modeled areas in Santa Barbara County, which include the City, which could potentially be inundated in the event of a tsunami. This model is based on potential earthquake sources and hypothetical extreme undersea, near-shore landslide sources. The data was mapped by Cal OES for the purpose of Tsunami Evacuation Planning. Extreme tsunami inundation areas were mapped and used to profile maximum potential exposure. The figure below (**Figure 5.24**) shows tsunami run up limits for Santa Barbara County. The tsunami inundation map helps to assist cities and counties in

identifying their tsunami hazard areas. The inundation line represents the maximum considered tsunami run up from a number of extreme, yet realistic, tsunami sources.



Figure 0.25 Tsunami Inundation Area

Based on the tsunami inundation map above, several areas along the coast of Santa Barbara have the potential to be inundated by a tsunami. However, since the probability of an earthquake occurring is rare, the probability of a tsunami is also rare.

5.1.16.8 Climate Change Consideration

Tsunamis are created by earthquakes or other earth movements, to date, no relationship has been made between climate change and the occurrences of earthquakes or other earth movements.

5.1.17 Civil Disturbance

5.1.17.4 Description of Hazards

Civil Disturbance is a term generally used to describe disorderly conduct or a breakdown of orderly society by a large group of people. Civil Disturbance can range from a form protest against major socio-political problems to riots.

5.1.17.5 Location and Extent of Hazard in Santa Barbara

Civil Disturbance can occur in any part of Santa Barbara City; however, it will generally be located within larger metropolitan areas.

5.1.17.6 History of Hazard in Santa Barbara

There is no data in the City of Santa Barbara regarding civil disturbances.

5.1.17.7 Probability of Occurrence

There are no studies that predict the probability of civil disturbance occurrences.

5.1.17.8 Climate Change Consideration

While there is no direct linkage between climate change and civil disturbances, there could be indirect linkages. As climate change impacts are either felt or perceived to be felt it could ignite passions within people to demonstrate against possible causes or enablers.

5.1.18 Marine Invasive Species

5.1.18.4 Description of Hazard

The introduction of non-indigenous species (NIS) into coastal marine and estuarine waters can cause significant and enduring economic, human health, and environmental impacts. In coastal environments, commercial shipping is the most important vector for species introductions. Commercial ships transport organisms through two primary mechanisms (vectors): ballast water and vessel biofouling. Ballast water is taken on and released by a vessel during cargo loading and discharging operations to maintain the vessel's trim and stability. Biofouling organisms are aquatic species attached to or associated with submerged or wetted hard surfaces. Ships transfer organisms to California waters from throughout the world. The transfer of ballast water from "source" to "destination" ports results in the movement of many organisms from one region to the next. Additionally, as vessels move from port to port, biofouling communities are transported along with their "host" structure. Once introduced, invasive species are likely to become a permanent part of an ecosystem and may flourish, creating environmental imbalances, presenting risks to human health, and causing significant economic problems. Examples include the zebra and quagga mussel infestations in the Colorado River Aqueduct System and California waterways, and the propagation of aquatic weeds, such as water hyacinth, in the California Delta.

5.1.18.5 Location and Extent of Hazard in Santa Barbara

All water bodies that are subject to recreational/commercial vessels and/or hydraulically connected to potential sources of infestation.

5.1.18.6 History of Hazard in Santa Barbara

In 2015, the start of crab-fishing was delayed for several month's due to a massive coastal algae bloom fueled by El Nino. The potentially fatal toxin delayed crab-fisheries to begin their trade, which caused several businesses to suffer economic loss.

5.1.18.7 Probability of Occurrence

There is always a potential for threat of indigenous species occurrence that is subject to many factors in the Santa Barbara City's coastal channel.

5.1.18.8 Climate Change Consideration

With the climate change water temperature can rise and fall; causing disruption to the ecosystem of the ocean. This can cause many instances of invasive marine life to cause ecological and economic devastation throughout the City's coastal channel.

SECTION 6 VULNERABILITY ASSESSMENT

6.1 Overview

The purpose of this section is to estimate the potential vulnerability (impacts) of hazards within the county and city on the built environment (residential, non-residential, critical facilities, etc.) and population. To accomplish this, three (3) different approaches will be used: 1) application of scientific loss estimation models; 2) analysis of exposure of critical facilities to hazards; and 3) a qualitative estimate of the impacts to hazards. It is important to note that the first two approaches can only be applied to hazards that have an exposure area (footprint). For those hazards where an exposure layer does not exist, a brief qualitative assessment of the potential vulnerability will be presented. This will be done for hazards that are within the city.

6.1.1 Scientific Loss Estimation Models

The scientific loss estimation modeling efforts will include the utilization of the Federal Emergency Management Agency (FEMA) Hazus-MH 3.0 model. Hazus-MH is a nationally applicable standardized methodology that estimates potential losses from earthquakes, hurricane winds and floods. Hazus-MH uses state-of-the-art Geographic Information Systems (GIS) software to map and display hazard data and the results of damage and economic loss estimates for buildings and infrastructure. It also allows users to estimate the impacts of earthquakes, hurricane winds and floods on populations. Estimating losses is essential to decision-making at all levels of government, providing a basis for developing mitigation plans and policies, emergency preparedness and response and recovery planning. This modeling will be done for Earthquake and Flood hazards only.

Hazus standard configuration allows for "out-of-the-box" regional or community-wide loss assessment using default ("Level 1) building inventory databases, aggregated to the census tract (earthquake) or census block (flood) level. A summary of Hazus default building inventory data for Santa Barbara County, and the unincorporated areas of the County, are given in **Table 6-1** (by general occupancy) and **Table 6-2** (by general building type). The distribution of buildings across the various construction classes given in Table 2 is estimated using Hazus default relationships (e.g., x percent of offices may be built of concrete frame, y% of offices may be built of reinforced masonry, etc.). The actual distribution of building across these construction types may be different. For example, the California Seismic Safety Commission (CSSC) published results of unreinforced masonry building surveys (CSSC, 2006), which indicate that the 23 URM buildings in Unincorporated Santa Barbara County have been retrofitted (vs. 185 URM buildings predicted by the default database).

	county	by General O	ccupancy		
Jurisdiction	General Occupancy	Building Replacement Value (\$1,000)	Contents Replacement Value (\$1,000)	Building Square Footage (1,000 Sq. Ft.)	Building Count
	Residential	\$34,724,716	\$17,364,871	231,312	116,304

 Table 6-1: Hazus-MH 3.0 Default Building Inventory Data for Santa Barbara

 County by General Occupancy

Jurisdiction	General Occupancy	Building Replacement Value (\$1,000)	Contents Replacement Value (\$1,000)	Building Square Footage (1,000 Sq. Ft.)	Building Count
Santa Barbara	Commercial	\$6,387,442	\$6,837,941	38,617	7,325
County	Industrial	\$1,307,134	\$1,815,947	9,609	1,934
	Other	\$1,805,563	\$1,905,059	11,455	1,810
	TOTAL	\$44,224,855	\$27,923,818	290,993	127,373
City of Santa	Residential	\$8,533,634	\$4,267,361	54,637	24,775
Barbara	Commercial	\$2,361,823	\$2,512,267	14,116	2,320
	Industrial	\$291,582	\$392,884	2,169	580
	Other	\$449,423	\$479,574	2,582	452
	TOTAL	\$11,636,462	\$7,652,086	73,503	28,127
	%	33.8%	31.9%	33.1%	35.2%

Table 6-2: Hazus-MH 3.0 Default Building Inventory Data for Santa Barbara
County by General Building Type

Jurisdiction	General Building Type	Building Replacement Value (\$1,000)	Building Replacement Value (%)	Estimated Building Count	% of Building Count
Santa Barbara	Concrete	\$2,492,739	5.6%	2,396	2%
County	Manufactured Housing	\$415,023	0.9%	7,669	6%
	Precast Concrete	\$1,556,413	3.5%	2,005	2%
	Reinforced Masonry	\$3,088,459	7.0%	3,858	3%
	Steel	\$2,461,502	5.6%	2,614	2%
	Unreinforced Masonry	\$614,394	1.4%	727	1%
	Wood Frame (Other)	\$1,733,790	3.9%	2,001	2%
	Wood Frame (Single- family)	\$31,862,522	72.0%	106,108	83%
	TOTAL	\$44,224,842		127,378	
City of Santa	Concrete	\$796,670	6.8%	755	3%
Barbara	Manufactured				
	Housing	\$29,950	0.3%	492	2%
	Precast Concrete	\$481,237	4.1%	613	2%
	Reinforced				
	Masonry	\$987,969	8.5%	1,108	4%
	Steel	\$723,963	6.2%	796	3%

Jurisdiction	General Building Type	Building Replacement Value (\$1,000)	Building Replacement Value (%)	Estimated Building Count	% of Building Count
	Unreinforced				
	Masonry	\$212,342	1.8%	232	1%
	Wood Frame				
	(Other)	\$659,422	5.7%	637	2%
	Wood Frame				
	(Single-				
	family)	\$7,744,911	66.6%	23,489	84%
	TOTAL	\$11,636,464		28,122	
	%	33.8%		35.2%	

Table 6-3 provides a summary of the Hazus-MH essential facilities default data (police stations and public schools) for anta Barbara County, and the unincorporated County Areas. The Hazus-MH essential facilities default data for fire station was augmented to account for a significant number of missing facilities for Santa Barbara County. Table 6-3 also indicates the construction type and design level assumed by Hazus-MH for these facilities; all are assumed to be wood frame of either High or Moderate code design level. A more accurate risk assessment could be conducted if additional facility information was collected, such as structural system, number of stories, year of construction/seismic code used for design, building square footage, building replacement value, and content replacement value. It should be noted that the Hazus-MH default database represents each school campus with a single building record of an assumed construction type. In reality, most public schools are multi-building campuses, built over a period of years (i.e., buildings may be designed to different seismic codes). To improve the risk assessment for public schools, information on each individual building would need to be collected.

Notes:

1) Totals may not match due to rounding

2) The distribution of buildings across the various construction classes is estimated using Hazus' default relationships. The actual distribution may be different. For example, the California Seismic Safety Commission published results of unreinforced masonry building surveys (2006), which indicated that there are 263 URM buildings in Santa Barbara (100% retrofitted) vs. 232 predicted by the default database.

	County		
Essential Facility Type	HAZUS-MH Default Structural Class and Design Level	Santa Barbara County	City of Santa Barbara
Fire Stations*	W1 (Wood Frame ≤ 5,000Sq.Ft.), Moderate Code Design Level	41	8
Police Stations	W1 (Wood Frame ≤ 5,000Sq.Ft.), Moderate Code Design Level	16	1

Table 6-3: Hazus-MH 3.0 Default Essential Facilities Data for Santa Barbara Country

Public Schools	W1 (Wood Frame ≤	123	13
	5,000Sq.Ft.), High Code		
	Design Level		

* For the current assessment, the default fire station data has been revised to include missing stations.

The lifeline inventory within HAZUS-MH is divided between transportation and utility lifeline systems. There are seven transportation systems that include highways, railways, light rail, buses, ports, ferries and airports; and six utility systems that include potable water, wastewater, natural gas, crude & refined oil, electric power, and communications. The lifeline inventory data are provided in **Tables 6-4** and **Table 6-5**.

System	Component	# Locations/ # Segments	Replacement value (millions of dollars)
Highway	Bridges	360	407.90
	Segments	270	3 299 40
	Tunnels	1	1.70
		Subtotal	3,709.10
Railway	Bridges	6	0.60
	Facilities	5	13 30
	Segments	157	263 90
	Tunnels	0	0.00
		Subtotal	277.80
Light Rail	Bridges	0	0.00
	Facilities	0	0.00
	Segments	0	0.00
	Tunnels	0	0.00
		Subtotal	0.00
Bus	Facilities	5	6.40
		Subtotal	6.40
Ferry	Facilities	3	4.00
-		Subtotal	4.00
Port	Facilities	0	0.00
		Subtotal	0.00
Airport	Facilities	5	53.30
	Runways	8	303.70
		Subtotal	357.00
		TOTAL	4,354.30

Table 6-4: Transportation System Lifeline Inventory

System	Component	# Locations / Segments	Replacement value (millions of dollars)
Potable Water	Distribution Lines	NA	323.20
	Facilities	0	0.00
	Pipelines	0	0.00
		Subtotal	323.20
Waste Water	Distribution Lines	NA	193.90
	Facilities	8	628.70
	Pipelines	0	0.00
		Subtotal	822.60
Natural Gas	Distribution Lines	NA	129.30
	Facilities	0	0.00
	Pipelines	0	0.00
		Subtotal	129.30
Oil Systems	Facilities	2	0.20
	Pipelines	0	0.00
		Subtotal	0.20
Electrical Power	Facilities	4	519.20
		Subtotal	519.20
Communication	Facilities	42	5.00
		Subtotal	5.00
		TOTAL	1,799.50

Table 6-5: Utility System Lifeline Inventory

6.1.2 Analysis of Exposure of Critical Facilities to Hazards

The City's Local Hazard Mitigation Planning Team (LHMP) reviewed its list of critical facilities and generated a summary of the facilities by major categories: Law, Fire, Public Works, Health and Human Services, Administrative, Communications, and Other (**Table 6-6**). This list of critical facilities presents the buildings and structures that are the City's primary concern for ensuring resiliency; they include City owned or operated facilities. Information for City owned or operated facilities (building replacement cost) were reviewed and updated as needed. However, available information for the privately owned or operated facilities will be a Mitigation Project for the LHMP Team.

Using Geographic Information Systems (GIS) software, each critical facilities was geolocated on maps to illustrate the geographic location of each facility. Based on each facility's geolocation, GIS software was then used to identify facilities within the hazard exposure area (footprint). The results were a map and a table summarizing the total number of exposed critical facilities by the major categories; and a total of the building replacement cost and building content costs for county owned or operated facilities. This approach was done for Wildfire, Dam Failure, Tsunami, Landslides/Earth Movements, and Climate-related (some).

Category of Facility	Total Structures	Total Worth	
Law	1	\$8,339,233	
Fire	8	\$6,291,348	
Public Works	8	\$93,105,465	
Airport	3	55,245,587	
Administrative	1	\$14,562,625	
Waterfront (does not include marina)	2	\$548,754	
Total Value	32	\$460,213,034	

Table 6-6 Critical Facilities in Santa Barbara County

6.1.3 Qualitative Estimate of Impacts

The approach used to complete this effort involves utilizing readily available data (i.e., Census) to extrapolate and estimate potential vulnerability. In some cases, the estimation will build upon historic events but it may also include projecting worst case potentials. The MAC and the LHMP Team summarized the remaining hazards which the City is vulnerable and assessed the amount and type of damage that could be expected. This approach was done for Droughts/Water Shortage, Energy Shortage, , Hazardous Material Release, Terrorism, Aircraft Crashes, Civil Disturbance, Climate-related (some) Oil Spill, Epidemic/Pandemic, Radiological Incident, Cyber Threat, Train Accident, , and Marine Invasive Species.

6.2 Scientific Loss Estimation Analysis

6.2.1 Earthquake and Liquefaction (High Impact/Medium Probability)

The entire geography of Santa Barbara County is exposed to some risk of shaking from an earthquake. The many fault lines, soil types, and construction types lead to a complicated assessment of vulnerability to earthquake. However, most of the land-based faults are either inactive or potentially active. Nearly all of the seismicity has been in the Santa Barbara Channel.

6.2.1.4 HAZUS-MH Earthquake Risk Assessment

Two earthquake scenarios developed by the United States Geological Survey (USGS), as shown in **Figure 6.1** and **Figure 6.2**, were selected to assess the range of impacts across the city. County-level maps of ground shaking for the same scenarios are shown in **Figure 6.3** and **Figure 6.4**.



SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	none	none	none	Very light	Light	Moderate	Mod_/Heavy	Heavy	Very Heavy
PEAK ACC.(%g)	<0.1	0.5	2.4	6.7	13	24	44	83	>156
PEAK VEL.(cm/s)	<0.07	0.4	1.9	5.8	71	22	43	83	>160
INSTRUMENTAL	1	0-00	IV	V	VI	VII	VIII	- CK	X+
Scale based upon W.	ald, et al.; 19	999							

Figure 6-2 Scenario 2 M7.2 Earthquake on the San Luis Range Fault, South Margin





PERCEIVED	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	none	none	none	Very light	Light	Moderate	Mod./Heavy	Heavy	Very Heavy
PEAK ACC.(%g)	<0.1	0.5	2.4	6.7	13	24	44	83	>156
PEAK VEL.(cm/s)	<0.07	0.4	1.9	5.8	11	22	43	83	>160
INSTRUMENTAL	1	11-10	IV	V	VI	VII	VIII	IX	X+

Figure 6.3: USGS ShakeMap Ground Motions for Santa Barbara County for a M7.4 Earthquake on the Red Mountain Fault (Scenario 1) 1







As noted above, the latest version of Hazus (Hazus 3.0, released in November, 2015) was used to conduct county-wide earthquake risk assessments. The Hazus results, computed at the census tract level, were aggregated to produce city-level impact summaries. An overview of the city-wide results for both scenarios is provided in **Table 6.7**, along with the sub-set of results that represent the unincorporated county areas. As shown, the M7.4 Red Mountain Fault earthquake scenario (which impacts the southern part of the county) generates more building damage and loss in the County and in the unincorporated county areas, than the M7.2 San Luis Range Fault earthquake scenario (which impacts the northern part of the County).

Table 6.8 provides a breakdown of estimated building damage (building count by Hazus damage state) by general building type, allowing for an understanding of the distribution of predicted damage in the modeled scenarios.

Functionality of essential facilities included in the Hazus default database (with additional fire station facilities added) in the two scenario earthquakes is summarized in **Table 6.9** for Santa Barbara County and the unincorporated county areas.

		Earthquak	e Scenario
		M7.4 Red Mountain Scenario	M7.2 San Luis Range South Margin Scenario
	Direct Economic Losses for Build	lings (\$1,000)	
	Total Building Exposure Value	11,63	6,462
sses	Cost of Structural Damage	218,144	750
Ľ	Cost of Non-Structural Damage	883,301	11,024
ock	Total Building Damage (Str. + Non-Str.)	1,101,445	11,775
l St	Building Loss Ratio %	9.5%	0.1%
pita	Cost of Contents Damage	334,401	5,887
Cal	Inventory Loss	6,814	124
0	Relocation Loss	100,633	115
- me	Capital-Related Loss	78,502	106
	Rental Income Loss	69,218	193
	Wage Losses	96,347	126
	Total Direct Economic Loss	1,787,360	18,325
	% Of Countywide Loss	50.9%	2.2%
	Casualties		
s	Casualties - 2 pm		
sualtie	Level 1 - minor injuries, basic first aid	568	1
	Level 2 - hospital treat & release	150	0
/ Ca	Level 3 - injuries requiring hospitalization	24	0
Da)	Level 4 - fatalities	45	0
	Total Casualties	787	1
S	Casualties - 2 am		
altio	Level 1 - minor injuries, basic first aid	193	1
asu	Level 2 - hospital treat & release	42	0
t C	Level 3 - injuries requiring hospitalization	6	0
Nigh	Level 4 - fatalities	11	0
	Total Casualties	252	1
	Shelter		
elter	Number of Displaced Households	1,456	0
hS	Number of People Requiring Short-term Shelter	893	0
	Debris (thousands of to	ns)	
ebris	Brick, Wood & Other (Light) Debris	112.5	0.6
Δ	Concrete & Steel (Heavy) Debris	320.4	0.3

Table 6-7: Estimated Impacts for Two Earthquake Scenario Events Affecting the City of Santa Barbara

	Earthquak	Earthquake Scenario	
		M7.2 San Luis	
	M7.4 Red	Range South	
	Mountain	Margin	
	Scenario	Scenario	
Total Debris	432.9	0.9	

Table 6-8: Estimated Building Damage (Building Count by General Building type, by Damage State) for Two Earthquake Scenario Events Affecting the City Santa Barbara

		Earthquake Scenario	
		M7.4 Red Mountain Scenario	M7.2 San Luis Range South Margin Scenario
	None	73	740
e	Slight	213	13
cret	Moderate	245	1
ouc	Extensive	143	0
0	Complete	80	0
	TOTAL	754	754
50	None	0	439
nisr	Slight	1	49
Ног	Moderate	71	6
uf.	Extensive	286	0
Jan	Complete	136	0
2	TOTAL	494	494
te	None	27	590
icre	Slight	113	18
Con	Moderate	273	2
ast	Extensive	148	0
rec	Complete	49	0
4	TOTAL	610	610
	None	165	1101
ed >	Slight	301	9
orc	Moderate	420	1
einf Mas	Extensive	166	0
Ϋ́Υ	Complete	60	0
	TOTAL	1,112	1,111
	None	26	776
Stee	Slight	87	21
	Moderate	278	3

	Extensive	305	0
	Complete	103	0
	TOTAL	799	800
	None	5	220
ced :	Slight	31	12
for	Moderate	77	1
rein	Extensive	66	0
n n n	Complete	53	0
	TOTAL	232	233
	None	64	627
me	Slight	238	9
Fra	Moderate	229	0
p t	Extensive	84	0
Ň	Complete	21	0
	TOTAL	636	636
	None	5410	23260
me	Slight	14555	228
Fra	Moderate	3490	1
pod	Extensive	34	0
V V O	Complete	0	0
	TOTAL	23,489	23,489
	None	5,770	27,753
DZ	Slight	15,539	359
	Moderate	5,083	15
BU 1	Extensive	1,232	0
ALL	Complete	502	0
	TOTAL	28,126	28,127

Notes:

1) Totals may not match due to rounding

Table 6-9: Predicted Essential Facility Functionality in Two Earthquake Scenario
Events Affecting The City of Santa Barbara

		Earthquak	e Scenario	
			M7.2 San Luis	
		M7.4 Red	Range South	
		Mountain	Margin	
	FACILITY TYPE	Scenario	Scenario	
	Santa Barbara Fire Department			
suo	Total Number of Facilities in Hazus Default Database*	8 (Statio	ons 1-8)	
e Statio	Default Structural Class and Design Level	W1 (Wood Fram Moderate Cod	ne ≤ 5,000 SqFt), e Design Level	
Fire	Damage:			
	# Facilities with >50% Probability of Moderate or Greater Damage	0	0	

	# Facilities with >50% Probability of Complete Damage	0	0
	Functionality:		
	Functionality < 50 % on Day 1	8	0
	Functionality 50 - 75% on Day 1	0	0
	Functionality >75% Day 1	0	8
	Santa Barbara Police Departme	nt	
	Total Number of Facilities in Hazus Default Database	1	L
su	Default Structural Class and Design Level	W1 (Wood Fram Moderate Cod	ne ≤ 5,000 SqFt), e Design Level
atic	Damage:		
st:	# Facilities with >50% Probability of Moderate or Greater Damage	0	0
lice	# Facilities with >50% Probability of Complete Damage	0	0
Ъо	Functionality:		
	Functionality < 50 % on Day 1	1	0
	Functionality 50 - 75% on Day 1	0	0
	Functionality >75% Day 1	0	1
	Santa Barbara Unified School Dist	rict	
	Total Number of Facilities in Hazus Default Database	26 Sch	ools **
	Default Structural Class and Design Level	W1 (Wood Fram High Code I	ne ≤ 5,000 SqFt), Design Level
ols	Damage:		
ň	# Facilities with >50% Probability of Moderate or Greater Damage	0	0
Sc	# Facilities with >50% Probability of Complete Damage	0	0
	Functionality:		
	Functionality < 50 % on Day 1	26	0
	Functionality 50 - 75% on Day 1	0	0
	Functionality >75% Day 1	0	26

* Note: The default fire station database was revised to include missing stations

** The Hazus default database includes 26 schools, but review of California Department of Education data indicate that 3 may be closed.

Critical Facility	Potential Groundwater/ Liquefaction Severity
Public Works Buildings	Moderate/High
Public Yards	Moderate/High
Ortega treatment Well	Moderate/High
Main Desalination Plant	High/High
El Estero Wastewater Treatment Plan	High/High
Stearns Wharf	High/High
Airport Administration	High/High
Airport Terminal Museum	High/High

Critical Facility	Potential Groundwater/ Liquefaction Severity
New Airline Terminal	High/High
Harbor Patrol	High/High
Waterfront Operations	High/High
Marina 1	High/High
Marina 2	High/High
Marina 3	High/High
Marina 4	High/High
Navy Pier	High/High
City Hall	Moderate/High
Community Development	Moderate/High
Fire Station 3	Moderate/Moderate
Fire Station 2	Moderate/High
Fire Station 8	Moderate/Moderate
Police Department Headquarters	Moderate/High
Lower Westside Community Center	Moderate/Moderate
Franklin Community Center	Moderate/Moderate

6.2.2 Flood and Coastal Storm Surge (Medium Impact/High Probability)

Hazus 3.0 was used to develop a flood depth grid for the 1-percent annual chance (100-year) flood, using Hazus 3.0 built-in, basic (i.e., Level 1) flood depth estimation methodology. The Hazus 3.0 flood hazard assessment methodology uses available information and local river and floodplain characteristics, such as frequency, discharge and ground elevation to estimate flood elevation, and ultimately flood depth. Digital elevation model (DEM) data with 30-meter resolution, available from the USGS' National Elevation Dataset (see: <u>http://nationalmap.gov/elevation.html</u>) has been utilized in the current assessment.

It should be noted that the flood depth grid generated by Hazus 3.0 *is not* equivalent to regulatory floodplain data contained in FEMA's Digital Flood Insurance Rate Maps (DFIRMs), which are the result of extensive, detailed engineering study. The Hazus-generated flood depth grid is a hypothetical representation of a potential flooding scenario, intended for non-regulatory uses. Further, it should also be noted that the DEM data used in the default analysis do not reflect the presence of channels and levees. A more detailed assessment would utilize higher resolution DEM data, such as LIDAR-based DEM data, and/or would require GIS-based revisions to the DEM to better reflect local flood control structures. Given that the Hazus 3.0 Level 1 approach does not consider the presence of levees, Hazus 3.0 loss and damage estimates produced for areas with levees (e.g., along the Santa Maria River) should be considered "worst-case" flood losses, reflecting potential flood damage that could occur in the event that the levees fail. Hazus-estimated flood depths across Santa Barbara County are provided in **Figure 6.5**.

An overview of the county-wide Hazus results for the 100-year flood scenario is provided in **Table 6.10**, along with the sub-set of results that represent the unincorporated county areas. **Table 6.11**

provides a breakdown of estimated building damage (building count by percent damage range) by general occupancy. As shown, most of the flood-damaged buildings are single family homes. Functionality of essential facilities included in the Hazus default database (with additional fire station facilities added) in the flood scenario is summarized in **Table 6.12** for Santa Barbara County.





 Table 6-10: Hazus -Estimated Impacts for the 1-Percent Annual Chance (100-Year)

 Flood Scenario Affecting the City of Santa Barbara

	0,	
		Flood
		Scenario
		1-percent
		chance annual
		flood (100-
		year noou)
Dire	ct Economic Losses for Buildings (\$1,000)	
	Total Building Exposure Value	11,636,462
ķ	Total Building Damage	11,149
Stoc	Building Loss Ratio %	0.1%
ital	Cost of Contents Damage	7,790
Cap	Inventory Loss	24
0	Relocation Loss	79
ů mě	G Capital-Related Loss	268
lnc	Rental Income Loss	50

		Flood
		Scenario
		1-percent
		chance annual
		flood (100-
		year flood)
	Wage Losses	158
	Total Direct Economic Loss	19,518
	% Of Countywide Loss	1.7%
Shelt	er	
		2,099
5	Number of Displaced Households	
elte		1,964
She	Number of People Requiring Short-term Shelter	
Debr	is (thousands of tons)	
	Finishes	1.1
	Structures	0.4
oris	Foundations	0.4
Dek	Total Debris	2.0

 Table 6-11 Estimated Building Damage (Building Count by General Occupancy, by Percent Damage Range) for a 1-percent Annual Chance (100-year) Flood Scenario Affecting the City of Santa Barbara

		Flood Scenario
		1-percent chance annual flood (100- year flood)
Single Family Homes	None	106
	1 - 10%	37
	11 - 20%	33
	21 - 30%	2
	31 - 40%	3
	41 - 50%	1
	Substantial Damage	4
	TOTAL	186
Manufactured Housing	None	0
	1 - 10%	0
	11 - 20%	0
	21 - 30%	0
	31 - 40%	0
	41 - 50%	0
	Substantial Damage	0
-----------	--------------------	-----
	TOTAL	0
ntial	None	10
	1 - 10%	0
	11 - 20%	2
side	21 - 30%	0
Re	31 - 40%	0
her	41 - 50%	0
ð	Substantial Damage	0
	TOTAL	12
	None	6
	1 - 10%	1
ial	11 - 20%	0
erc	21 - 30%	0
un M	31 - 40%	0
Col	41 - 50%	0
	Substantial Damage	0
	TOTAL	7
	None	0
	1 - 10%	0
-	11 - 20%	0
stria	21 - 30%	0
snp	31 - 40%	0
<u> </u>	41 - 50%	0
	Substantial Damage	0
	TOTAL	0
	None	0
ies	1 - 10%	0
anci	11 - 20%	0
edno	21 - 30%	0
000	31 - 40%	0
her	41 - 50%	0
ō	Substantial Damage	0
	TOTAL	0
	None	122
ES	1 - 10%	38
CCUPANCIE	11 - 20%	35
	21 - 30%	2
	31 - 40%	3
Ŏ	41 - 50%	1
ALL	Substantial Damage	4
	TOTAL	205

Table 6-12 Predicted Essential Facility Functionality for a 1-percent AnnualChance (100-year) Flood Scenario Affecting the City of Santa Barbara

		Flood Scenario
	FACILITY TYPE	1-percent chance annual flood (100-year flood)
	Santa Barbara Fire Department	
	Total Number of Facilities in Hazus Default Database*	8 (Stations 1-8)
SU	Flood Exposure	-
tiol	# facilities located within flooded areas	0
Sta	Damage:	1
ire	# Facilities with Moderate or Greater Damage	0
ш	# Facilities with Substantial Damage	0
	Functionality:	1
	# facilities expected to be non-functional on Day 1	0
	Santa Barbara Police Department	1
	Total Number of Facilities in Hazus Default Database	1
suo	Flood Exposure	1
tati	# facilities located within flooded areas	0
e Si	Damage:	1
olic	# Facilities with Moderate or Greater Damage	0
Ъ	# Facilities with Substantial Damage	0
	Functionality:	1
	# facilities expected to be non-functional on Day 1	0
	Santa Barbara Unified School District	1
	Total Number of Facilities in Hazus Default Database	26 Schools **
	Flood Exposure	1
ols	# facilities located within flooded areas	0
cho	Damage:	1
Š	# Facilities with Moderate or Greater Damage	0
	# Facilities with Substantial Damage	0
	Functionality:	1
	# facilities expected to be non-functional on Day 1	0

* Note: The default fire station database was revised to include missing stations

** The Hazus default database includes 26 schools, but review of California Department of Education data indicate that 3 may be closed.

6.3 Critical Facilities Analysis

6.3.1 Flood and Coastal Storm Surge (Medium Impact/High Probability)

Although Flood and Coastal Surge damage was well delineated in the previous section (Scientific Loss Estimation modeling), the County Planning Team and the MAC wanted to include additional vulnerability e data for the Critical Facilities. The exposure of the critical facilities to flood zones is summarized in **Table 6.13** and depicted on **Figure 6.6**.

Critical Facilities
Public Works Yanonali Yard
Public Works Communications
Stearns Wharf
Airport Administration
Airport Runways
Airport Terminal Museum
New Airline Terminal
Stearns Wharf
Waterfront/Harbor Patrol
All Waterfront Marinas
Fire Station 2
Parks & Recreation Administration
Parks & Recreation Maintenance Yard
Ortega Well
El Estero Water Treatment Plant

Table 6-13 Critical Facilities by Category in Flood Zones

Figure 6.6 Critical Facilities in 100 Year Flood Zone MISSING FIGURE

6.3.2 Wildfire (*Medium Impact/High Probability*)

In looking at critical facilities' vulnerability to wildfire, there were three measures that were evaluated. The first is whether a critical facility is within the Fire Severity Zone (FSZ). The FSZ is mapped by the CA Department of Forestry and Fire Protection. It shows the geographic extents for areas of significant fire hazards based on fuels, terrain, weather, and other relevant factors. The second measure for vulnerability is the Wildland Urban Interface which is the potential treatment zone where projects could be conducted to reduce wildland fire threats to people. For the purposes of this analysis, "within the WUI" represents those critical facilities that are in the geographical area where the three factors of "threat to people", "communities at risk",

and "distance to developed areas" intersect. The final measure is that of "Fire Threat". Fire Threat is a combination of the factors of fire frequency and potential fire behavior. The two factors are combined to create five (5) threat classes ranging from "Little or No Threat" to "Extreme". The exposure of the critical facilities to these three measures is indicated in the tables (**Table 6.14**, **Table 6.15**, and **Table 6.16**) and figures (**Figure 6.7**. **Figure 6.8**, and **Figure 6.9**) below. It is worth noting that all critical facilities have at least some threat from one or more of the three measures. Because of this, the exposure has been color coded low too high in a yellow, orange, red scheme to make it easier for the reader to discern the different designations.

Critical Facility within the windland Urban Interface Zone
Public Works Yard
Cater Treatment Plant
Sheffield Treatment Plant
Tunnell Reservoir
El Cielito
Hope Reservoir
Escondido Pump Station
Skofield Pump Station
Bothin Pump Station
Skofield Park
Fire Station 7
Fire Station 6
Franklin Community Center
Ortega Well
Franchesci Park – Communication Building

Table 6-14 Critical Facilities by Name in Fire Hazard Severity Zone



Figure 6.7 Critical Facilities in Fire Hazard Severity Zone

6.3.3 Landslide and other Earth Movement (Medium Impact/High Probability)

In an effort to assess vulnerability for landslides, data was collected from the United States Geological Survey (USGS) that represents landslide incidence and susceptibility. The geographies impacted are categorized into low, moderate, and high zones. These layers were intersected with the critical facilities to estimate exposure and show that there is approximately \$14.4 million in structure value and just under \$4 million in contents with at least moderate risk to landslides. The table below (**Table 6-17**) summarizes the total exposure and **Figure 6-10** depicts the location of those facilities that fall into a moderate risk. None of the County's critical facilities have a high risk of landslide vulnerability. All facilities not shown fall into the low risk category.

Table 6-17 Critical Facilities by Category in Landslide Zones

Currently in the Santa Barbara City there are no impacts to critical facilities in the landslide areas identified. The City continues to assess its vulnerabilities with the continued collection of data. This will assist in improving the City's risk assessment process in order to direct planning and mitigation decisions.



Figure 6.10 Critical Facilities and Landslide Incidence

6.3.4 Sea Level Rise, Coastal Storm Surge and Erosion (*Medium Impact/High Probability*)

Santa Barbara County will be vulnerable to Sea Level Rise (SLR) along its 110 mile long coastline. SLR coupled with increased frequency, severity, and duration of high tide and storm events related to climate change will result in more frequent and severe extreme events along the coast. These events could expose the coast to severe flooding and erosion, damage to coastal Critical Facilities and real estate, and salinity intrusion into delta areas and coastal aquifers (Projecting Future Sea Level, A Report from the California Climate Change Center, 2006).

Table 6-18 illustrates the potential impact to Critical Facilitates from SLR, while **Figure 6.11** illustrates the vulnerability of the County's Critical Facilities to Sea Level Rise over the next 30 years.

Table 6-18 Critical Facilities by Category in SLR Zones

Currently, the City of Santa Barbara is continuing to assess data to develop policies for planning and mitigation. No critical facilities have been identified.



Figure 6-11 Critical Facilities and Sea Level Rise

6.3.5 Dam Failure (*High Impact/Low Probability*)

There are nine major dams in the County: Alisal Creek, Bradbury, Dos Pueblos, Gibraltar, Glen Anne, Juncal, Ortega, Rancho Del Ciervo, and Twitchell. Bradbury dam has the largest concern of failure because floodwaters from this dam would affect Cachuma Village, Solvang, Buellton, Lompoc City, Lompoc Valley, and south Vandenberg AFB. A failure of the remaining eight (8) dams would affect portions of populated cities and communities, forest and agricultural lands, roads, and highways. The dam failure vulnerability is simply a look at those critical facilities exposed to risk as indicated by whether they fall into a geographic region that represents a dam inundation zone. There are 39 County critical facilities within the dam inundation zones. The 39 critical facilities represent approximately \$XX million in building value and almost \$XX million in contents exposed to the risk (**Table 6-19**); however, over half of the critical facilities, nineteen

(19) of the 39 at risk facilities, did not have any dollar information available. **Figure 6-12** depicts the location of the critical facilities in relation to the dam failure inundation zones.

Table 6-19 Critical Facilities by Category in Dam Inundation Zones

Currently, there are no critical facilities within the path of a dam failure. However, the City continues to assess its vulnerabilities with the continued collection of data. This will assist in improving the City's risk assessment process in order to direct planning and mitigation decisions.

Figure 6-12 Critical Facilities and Dam Failure Inundation Areas



6.3.6 Tsunami (Medium Impact/Low Probability)

Tsunami waves travel at speeds averaging 450 to 600 miles per hour. As a tsunami nears the coastline, its speed diminishes, its wavelength decreases, and its height increases. Depending on the type of event that creates the tsunami, as well the remoteness of the event, the tsunami could reach land within a few minutes or after several hours. Low-lying areas could experience severe inland inundation of water and deposition of debris more than 3,000 feet inland.

The University Of Southern California Tsunami Research Group has modeled areas in Santa Barbara County that could potentially be inundated in the event of a tsunami. This model is based on potential earthquake sources and hypothetical extreme undersea, near-shore landslide sources were mapped and used to profile maximum potential exposure.

Critical facilities provided by the City were compared against the extreme tsunami inundation zone overlay to see whether they fell within the geographic extent of the hazard. (**Table 6-21**). **Figure 6-14** depicts the critical facilities in relation to the extreme tsunami inundation zone.

Table 6-21 Critical Facilities by Category in Extreme Tsunami Inundation Zone

It is worth noting that a majority of the Santa Barbara City critical facilities evaluated could be moderately impacted by a Tsunami event. The City continues to assess its vulnerabilities with the continued collection of data. This will assist in improving the City's risk assessment process in order to direct planning and mitigation decisions. Below is a table of critical facilities that are within the Tsunami Inundation Map develop in 2009.

Critical Facility	
El Estero Wastewater Treatment Plan	
Stearns Wharf	
Airport Terminal Museum	
New Airline Terminal	
Waterfront/Harbor Patrol	
All Harbor Marinas	



Figure 6-14 Critical Facilities and Tsunami Inundation Areas

6.4 Qualitative Estimate of Impacts Analysis

6.4.1 Drought and Water Shortage (Medium Impact/High Probability)

A drought is present when a region receives below-average precipitation, resulting in prolonged shortages in its water supply, whether atmospheric, surface, or ground water. A drought can last for months or years, or may be declared after as few as 15 days. The effects of the drought are most visible in Santa Barbara County; including the City of Santa Barbara, when looking at the current capacity and maximum storage of the two main water reservoirs in the county, Lake Cachuma and Twitchell. On February 16, 2016, Cachuma was reported to be at 14.9% capacity, and Twitchell was at 0.2% capacity.

Climate change has the potential to make drought events more common in California, including Santa Barbara. Extreme heat creates conditions more conducive for evaporation of moisture from the ground, increasing the possibility of drought. A warming planet could lead to earlier melting of winter snow packs, leaving lower stream flows and drier conditions in the late spring and summer. Snow packs in northern California are important for water storage and ensuring adequate supply in the summer months when water is most needed. Changing precipitation distribution and intensity have the potential to cause more of the fallen precipitation run-off rather than be stored. The result is an increased potential for more frequent and more severe periods of drought.

Past experience with Santa Barbara droughts tells us that drought impacts are felt first by those most dependent on or affected by annual rainfall – fire departments, ranchers engaged in dryland grazing, rural residents relying on wells in low-yield rock formations, or other small water systems lacking a reliable water source. Drought and water shortage can happen countywide; and have significant impacts on the populations and the economy. Significant economic impacts on Santa Barbara's agriculture industry can occur as a result of short- and long-term drought conditions; these include hardships to farmers, farm workers, packers, and shippers of agricultural products. In some cases, droughts can also cause significant increases in food prices to the consumer due to shortages. Drought can also result in lack of water and subsequent feed available to grazing livestock, potentially leading to risk of livestock death and resulting in losses to the Santa Barbara's agricultural economy.

Drought can have secondary impacts. For example, drought is a major determinant of wildfire hazard, in that it creates greater propensity for fire starts and larger, more prolonged conflagrations fueled by excessively dry vegetation, along with reduced water supply for firefighting purposes.

6.4.2 Severe Weather (Medium Impact/High Probability)

6.4.2.4 Extreme Heat

Extreme heat can have significant impacts on the populations, lifeline infrastructure, and the economy. Heat events also highlight the importance of thoughtful social vulnerability analyses, consideration for socially isolate elderly populations, and illustrate how seemingly unrelated phenomena combine to create disaster, such as when increased use of air conditioners during heat waves can lead to power outages, which makes the events even more deadly.

The California Climate Adaptation Strategy (CAS), citing a California Energy Commission study, states that "over the past 15 years, heat waves have claimed more lives in California than all other declared disaster events combined." For example, the 1989 Loma Prieta Earthquake resulted in 63 deaths, the 1992 Northridge Earthquake was responsible for the loss of 55 lives, and the 2003 Southern California Firestorms resulted in 24 deaths; however, the worst single heat wave event in California occurred in Southern California in 1955, when an eight-day heat wave is said to have resulted in 946 deaths. The July 2006 heat wave in California caused the deaths of about 140 people over a 13-day period.

Because of this, the following groups could be considered vulnerable or at greater risk in a heat emergency:

- People with developmental/intellectual disabilities refers to a severe and chronic disability that is attributable to a mental or physical impairment that begins before an individual reaches adulthood. These disabilities include cerebral palsy, epilepsy, mobility and autism.
- Blind/low vision
- Deaf/Hard of hearing
- Mobility Injuries: from auto accidents, falls, sports, and or war. These injuries can cause damage to the brain, spinal cord, hearing, sight and mobility
- Chronic Conditions: Diabetes, Arthritis, dialysis, asthma and epilepsy
- Older adults: Have age-related limitations. (move slower, sight and sound limitations, etc.)

- Children: Challenges include dependency not only for care, but decision-making, processing information and trauma differently than adults, they may be unable to articulate their needs, may decompensate faster than adults, and are generally more susceptible to thirst, hunger, temperature, etc. than adults.
- Animals, including domestic pets, livestock, and poultry are also susceptible to extreme heat. For example, dogs and cats are in danger of heat stroke in temperatures of 110°F. The heat wave of 2006 resulted in 15 reported pet deaths and more than 25,000 cattle, and 700,000 fowl heat- related deaths. Heat wave impacts to livestock can lead to financial losses in California's agricultural economy.

The Spatial Hazard Events and Loss Data for the United States (SHELDUS), estimates that approximately 47 heat events occurred in California between the years 1960 and 2008. Adjusted to 2008 dollars, SHELDUS reports that severe heat events in California caused roughly \$1.8 million in property damage and \$531.7 million in crop damage.

6.4.2.5 Freeze

Sustained temperatures below freezing in Santa Barbara's generally mild weather regions can cause life loss and health risks to vulnerable populations; and have significant impacts on the lifeline infrastructure and the economy. Similar to Extreme Heat events, the same populations, lifeline infrastructure, and parts of the economy are vulnerable to and could be impacted by Freeze events.

Although infrequent, freezes can severely affect Santa Barbara agriculture. Freezing temperatures occurring during winter and spring growing seasons can cause extensive crop damage. Secondary impacts of freeze disasters can include major economic impacts on farmers, farm workers, packers, and shippers of agricultural products. Freezes can also cause significant increases in food prices to the consumer due to shortages. Freezing spells are likely to become less frequent as climate temperatures increase; if emissions follow higher pathways, freezing events could occur only once per decade in a sizable portion of the state by the second half of the 21st century. While fewer freezing spells would decrease cold-related health effects, too few freezes could lead to increased incidence of disease as vectors and pathogens do not die off.

6.4.2.6 Hailstorm

Although ranked as part of the Serve Weather, hailstorms are rare in Santa Barbara County and as such represent a relatively low risk for most areas, compared to areas in the Midwest and southern United States where risk exposure is severe and many lives and millions of dollars are lost annually due to this hazard. In the event of a large hailstorm event, it is not expected to have significant impact on the population, built environment, lifeline infrastructure, or the economy.

6.4.2.7 Windstorm

Also ranked as part of the Serve Weather. Santa Barbara County is predominately known to have damaging hot winds known as Sundowners. These winds can reach up to 80 mph and fuel raging wildfires on the south coast. In the north county, the winds can damage agriculture if they are

severe enough. In the unlikelihood of a significant event, windstorms could have a considerable impact on the population, built environment, lifeline infrastructure, and the economy.

6.4.3 Energy Shortage and Energy Resilience (Medium Impact/High Probability)

Energy disruptions are considered a form of lifeline system failure. Disruptions can be the consequence of another hazard, or can be a primary hazard, absent of an outside trigger. Santa Barbara County has two power providers. Pacific Gas and Electric provides electricity in the northern part of the county, with termination of services north of the Gaviota area. Southern California Edison provides power to the Southern part of the county, with service terminating in Gaviota. The two systems are not connected. Thus, if there is a major interruption of service is denied west of the outage to Gaviota. Likewise, if there is a major interruption of service coming from the north, power south to Gaviota from the outage may be affected.

Santa Barbara continues to experience both population growth and weather cycles that contribute to a heavy demand for power. Predicted increases in heat waves as well as increasingly severe winter storms will put ever greater strain on Santa Barbara's two electricity providers and the Southern California Gas Company. In the event of a significant energy shortage it will have a significant impact on the population, built environment, lifeline infrastructure, and the economy.

6.4.4 Oil Spill (Medium Impact/High Probability)

In the event of a significant oil spill it will have a significant impact on the environment and the economy. The environmental impacts contribute to short- and long-term impacts on economic activities in areas affected by oil spills. Moratoriums may be temporarily imposed on fisheries, and tourism may decline in beach communities, resulting in economic hardship on individuals dependent on those industries for their livelihood and on the economic health of the community as well. Currently, there are 11 Oil Platforms off of the Santa Barbara County Coast and nearly (NEED NUMBER) oil and gas wells in Santa Barbara County. **Figure 6.12** show the Oil Platforms and their proximity to Santa Barbara.



Figure 6.12 Oil Platform Map of Santa Barbara Coast

6.4.5 Agricultural Pests and Disease (Low Impact/High Probability)

In the event of a significant agricultural pest or disease event it will have a significant impact on the environment and the economy. The actual acreage of agriculture exposed to pests and disease, as well as other hazards, is 546,512.61 acres including 138,723.18 acres of crop land.

6.4.6 Epidemic/Pandemic/Vector Borne Disease (Low Impact/Medium Probability)

The county, as well as the state and country, has been subject recent increases in epidemic/pandemic/vector borne diseases. While a significant epidemic/pandemic/vector borne disease event can have a considerable impact on the population, environment, and economy, the epidemic/pandemic/vector borne disease response plan, developed through the coordination efforts of 75 county employees and partner agencies, establishes a solid foundation for improved coordination and intervention by all participants not only in response to a pandemic but for the prevention as well. Implementation of this plan will enable County Department's to fulfill their significant roles and responsibilities for a coordinated strategy aimed at protecting the public's health and minimizing the impact of the pandemic influenza in Santa Barbara County.

6.4.7 Hazardous Materials Release (Medium Impact/Medium Probability)

The release of hazardous materials into the environment can cause a multitude of problems for the population, built environment, lifeline infrastructure, environment, and the economy. Although these incidents can happen almost anywhere, certain areas of the County are at higher risk, such as near roadways that are frequently used to transport hazardous materials and locations with

industrial facilities that use, store, and/or dispose of such materials. Aras crossed by railways, waterways, airways, and pipelines also have increased potential for mishaps.

Incidences can occur during production, storage, transportation, use or disposal of hazardous materials. Communities can be at risk if a chemical is used unsafely or released in harmful amounts into the environment. Hazardous materials can cause death, serious injury, long lasting health effects, and damage to buildings, the environment, homes, and other property.

The locations and identity of facilities that store hazardous materials are reported to local and federal governments. Security measures at these facilities can be heightened. Many facilities have their own hazardous materials guides and response plans, including transportation companies who transport hazardous materials.

6.4.8 Radiological Incident (High Impact/Low Probability)

Minor radiological accidents are possible at several facilities in Santa Barbara County that utilize some form of uranium including UCSB and area hospitals; however, a major concern for residents of Santa Barbara County is the Diablo Canyon Power Plant (DCPP). A significant radiological incident will have significant impacts on the population, built environment, lifeline infrastructure, environment, and the economy.

6.4.9 Terrorism (Medium Impact/Medium Probability)

In the unlikelihood of a significant terrorism event, there could be considerable impact on the population, built environment, lifeline infrastructure, environment, and the economy.

As of this date, there have been no know terrorist incidents in the City.

6.4.10 Cyber Threat (Low Impact/Medium Probability)

In the unlikelihood of a significant cyber event, there could be considerable impact on the population, built environment, lifeline infrastructure, environment, and the economy.

A cyber threat can infiltrate many institutions including banking, medical, education, government, military, and communication and infrastructure systems. The majority of effective malicious cyber-activity has become web-based. Recent trends indicate that hackers are targeting users to steal personal information and moving away from targeting computers by causing system failure. The duration of a cyber-attack is dependent on the complexity of the attack, how widespread it is, how quickly the attack is detected, and the resources available to aid in restoring the system. A cyber-attack could be geared toward one organization, one type of infrastructure and/or a specific geographical area. The affected area could range from small to large scale. Cyber-attacks generated toward large corporations can negatively affect the economy. A 2014 report from the MacAfee Corporation stated that the annual global loss to the global economy is between \$375B and \$500B. Attacks geared toward critical infrastructure and hospitals can result in the loss of life and the loss of basic needs, such as power and water, to the general public. Cyber-attacks can lead to the loss of operational capacity.

Most jurisdictions have several levels of security in place, dependent upon security levels of individuals and the geographical locations (onsite or remote). Redundant dispatch centers with separate systems that can function if the primary center isn't functioning are desirable.

Humans are the weakest link in a chain of cyber security. It remains difficult to continuously monitor and manage human/operator vulnerability. However, to address this weakness it is suggested the all jurisdictions in the Santa Barbara County continue, or develop a security training program which all employees are required to complete or renew annually.

6.4.11 Aircraft Crash (Low Impact/Medium Probability)

In the unlikelihood of a significant aircraft crash, depending on the location, there could be considerable impact on the population and the built environment.

The City of Santa Barbara has one airport with commercial flights are available. In addition to flights in and out of the municipal airport, commercial and private air traffic passes over the county. Military aircraft utilize Vandenberg Air Force Base. The City's airport maintains an emergency response plan that is tested at regular intervals with local government response agencies in accordance with FAA regulations.

A major air accident that occurs in a heavily populated residential area can result in considerable loss of life and property. Damage assessment and disaster relief efforts associated with an air accident will require support from other local governments, private organizations, and in certain instances, from the State and Federal governments.

It is anticipated that the mental health needs of survivors and surrounding residents will have to be addressed resulting from the trauma associated with the accident. A coordinated response team, comprised of mental health professionals, should take a proactive approach meeting the mental health needs from any traumatic disaster.

6.4.12 Train Accident (Low Impact/High Probability)

In the unlikelihood of a significant train accident there could be considerable impact on the population, economy, and the environment.

Trains running through Santa Barbara County, and in close proximity to U.S. Highway 101 in some areas, carry commuters and all other types of commodities including hazardous materials, fuel (including oil), agriculture, meats, and non-consumables. A hazardous material incident on rails or roadway has the potential to shut down both rail and highway transportation routes where the rail line and Highway101 are in close proximity.

This was the case in the 1991 Seacliff Incident, in neighboring Ventura County where a train accident released 440 gallons of aqueous hydrazine. The accident required the evacuation of the nearby Seacliff community along with the shutting down of Highway 101, and took 5 days to cleanup.

6.4.13 Natural Gas Pipeline/Storage Facility Accidents (Medium Impact/Low Probability)

In the unlikelihood of a significant natural gas pipeline or storage facility accident there could be considerable impact on the population, built environment, lifeline infrastructure, economy, and the environment.

Natural gas transported via the interstate pipelines, and some of the California-produced natural gas, is delivered into the Pacific Gas & Electric (PG&E) and Southern California Gas (SoCal Gas) intrastate natural gas transmission pipeline systems (commonly referred to as California's "backbone" natural gas pipeline system). Natural gas on the utilities' backbone pipeline systems is then delivered into the local transmission and distribution pipeline systems, or to natural gas storage fields. PG&E and SoCal Gas own and operate several natural gas storage fields that are located in Northern and Southern California.

Generally speaking, transmission lines are large-diameter steel pipes carrying natural gas at high pressure and compressed to provide higher carrying capacity. Transmission lines are both interstate and intrastate, with the latter connecting to smaller distribution lines delivering gas directly to homes and businesses.

6.4.14 Civil Disturbance (Medium Impact/Low Probability)

In the unlikelihood of a civil disturbance, depending on the cause and effect, there could be considerable impact on the population, built environment, lifeline infrastructure, economy, and the environment.

While Santa Barbara County does not have a history of riots there is no record of Civil Unrest in the City.

6.4.15 Marine Invasive Species (Medium Impact/Low Probability)

The introduction of non-indigenous species (NIS) into Santa Barbara County coastal marine, estuarine and lake waters can cause significant and enduring economic, human health, and environmental impacts. Ships transfer organisms to California waters from throughout the world. The transfer of ballast water from "source" to "destination" ports results in the movement of many organisms from one region to the next.

The Santa Barbara Coast and Lake Cachuma are vulnerable to Marine Invasive Species and close monitoring of marine and lake vessels as well as water dropping (snorkeling) aircraft is needed.

SECTION 7 MITIGATION STRATEGY

In preparation of the 2016 update of this plan, the City's Local Hazard Mitigation Planning (LHMP) Team made no revisions to the countywide goals and objectives due to the fact that they continue to reflect the needs of the City. This section contains the City's updated and most current mitigation strategy as of March 2016.

Mitigation Priorities

The City's LHMP Team accepted and agreed to the following Goals and Objectives.

Goal 1: Promote disaster-resistant future development.

Objective 1.A: Facilitate the development (or updating) of the Comprehensive Plan, City's General Plans and zoning ordinances to limit (or ensure safe) development in hazard areas.

Objective 1.B: Facilitate the incorporation and adoption of building codes and development regulations that encourage disaster resistant design.

Objective 1.C: Facilitate consistent implementation of plans, zoning ordinances, and building and fire codes.

Goal 2: Building support capacity and commitment for existing assets, including people, critical facilities/infrastructure, and public facilities, to become less vulnerable to hazards.

Objective 2.A: Mitigate vulnerability structures and public infrastructure including facilities, roadways, and utilities

Objective 2.B: Mitigate vulnerable populations

Objective 2.C: Support a coordinated permitting processes and consistent enforcement

Goal 3: Enhance hazard mitigation coordination and communication.

Objective 3.A: Address data limitations identified in Hazard Profiling and Risk Assessment

Objective3.B: Increase awareness and knowledge of hazard mitigation principles and practice among local government officials

Objective 3.C: Provide technical assistance to implement mitigation plans

Objective 3.D: Educate the public to increase awareness of hazards, potential impacts and opportunities for mitigation actions

Objective 3.E: Monitor and publicize the effectiveness of mitigation actions implemented within the City

Objectives 3.F: Educate the professional community on design and construction techniques that will minimize damage from the identified hazard

Objective 3.G: Participate in initiative that have mutual hazard mitigation benefits County-wide

Objective 3.H: Encourage other organizations, within the public, private, and no-profit sectors, to incorporate hazard mitigation activities into their existing programs and plans

Objective 3.I: Continue partnership between the state, county, local and tribal governments to identify, prioritize and implement mitigation actions

Objective 3.J: continuously improve the County's capability and efficiency at administering pre- and post-disaster mitigation programs, including providing technical support to the special districts within the City

Mitigation Progress

The City's Local Hazard Mitigation Planning (LHMP) Team reviewed the mitigation actions listed in the 2011 plan to determine the status of each action. Once reviewed, deferred projects from 2011 were renumbered to reflect 2016 updates. NOTE: All projects deferred from 2011 are due to lack of funding. All projects from 2011 have been deferred to 2016.

Mitigation Approach

The following table presents mitigation actions identified in the 2011 plan that were deferred and those that have been added to this plan by the LHMP Team in March 2016. The projects that were deferred were given new action numbers in the format of 2016 - # to allow all the current actions to be numbered. Projects deferred from 2011 are identified in the Comments Section. As actions are added in future updates they will be numbered in similar format to allow for tracking the year each action was added, deferred or deleted to the list (e.g. 2016 - #). The actions below and their status will be tracked and updated annual by the City's Office of Emergency Services, the Emergency Managers Task Team and LHMP Team.

Table Mitigation Projects			
2016 Mitigation Action #	Mitigation Action Description	Status	Comments
2016-1	Pedregosa Storm Drain	Deferred	Previously from 2011 – construction will significantly reduce flooding in the Mission Creek area around Pedregosa
2016-2	Replacement Storm Drain Outfall (Airport)	Deferred	Previously from 2011 – This project is planned but not budgeted. Will significantly reduction flooding on Hollister Avenue.
			Flood Wall Construction - Around buildings 223, 304, 314, and 315 to protect these structures from flooding. Eliminate frequent water intrusion into buildings subsequent
2016-3	Flood Wall Construction (Airport)	Deferred	clean-up costs due to storm events, many of which are less than 10 year events.
2016-4	Honda Valley Hillside Stabilization in location of High Pressure Gas Line Serving City	Deferred	Previously from 2011- High pressure gas line serving the City is located in an areas of Honda Valley where stabilization of soil is needed.

Table Mitigation Projects				
2016 Mitigation Action #	Mitigation Action Description	Status	Comments	
2016-5	Hidden Valley Park Slope Stability	Deferred	Previously from 2011 – To reduce risk to life and property from slides and flooding.	
			Previously from 2011 – Benefit to secure life and property and the preservation of an effective	
2016-6	Stevens Park Eastern Access Erosion Remediation Francheschi Park/Mission Ridge Hillside	Deferred	and ecologically sound creek system. Previously moved from in-progress to defer in 2011 due to lack of funding – retaining wall is crucial to evacuation and emergency response.	
2016-7	Bluff Retreat Management at Shoreline Park	Deferred	Previously moved from in-progress to deferred in 2011 due to lack of funding – This project is on-going due to continuous bluff erosion.	
2016-9	Rebuild 1000 Steps	Deferred	Previously moved from In-Progress in 2011 to Deferred in 2016 due to lack of funding – coastal erosion to beach access.	
2016-10	Police Department Remodel	Deferred	Previously New in 2011 now Deferred due to lack of funding.	
2016-11	High Fire Area Roadways	Deferred	Previously from 2011 - Erosions and landslides due to steep slopes and unreinforced retaining walls will hamper evacuation and emergency response.	
2016-12	Laguna Pump Station	Deferred	Previously from 2011 - If the pump station is not replaced and/or repaired there will be massive closures in the downtown area.	
2016-13	Replace deluge system on Stearns Wharf	Deferred	Previously from 2011 – Continues to be an on-going maintenance Project to promote firefighting on Stearns Wharf, which is an historical site in the Waterfront area	
2016-14	Backup generator for Waterfront Department Operating Center.	Deferred	Previously from 2011 - Upgraded power needed for Harbor Patrol and Waterfront DOC.	
2016-15	Current Harbor facilities are old early 60s type construction – seismic renovation needed for safety	Deferred	Previously from 2011 - Current Harbor facilities are early 60s' type construction that would not withstand a large earthquake.	
2016-16	Mesa Lane Coastal Access	Deferred	Previously from 2011 - Coastal erosion has already damaged a good portion of this coastal access.	
2016-17	Salsipuedes Street Storm Drain Improvement	NEW	Potential improvements include connection of storm drain inlets on Micheltorena Street to existing storm drain on Salsipuedes Street and the construction of a new storm drain pipe along Salsipuedes and Victoria Streets	

Table Mitigation Projects				
2016 Mitigation Action #	Mitigation Action Description	Status	Comments	
2016 -18	Corrugated Metal Pipe Repairs	NEW	Repair through slip lining or to completely replace the highest priority corrugated metal pipe drain lines annually.	
2016 10	Guitarraz Storm Drain Improvaments	NEW	Construct additional storm drains to reduce the duration and severity of flooding when the upstream storm drain system is overwhelmed. The project is intended to improve the ability to remove runoff from the area by providing increased inlet capacity and by providing larger conduits between the street inlets and the box	
2010-19	Guneriez Storm Drain Improvements	INE W	culverts under Hwy 101.	
			Project will control the water level in the Goleta Slough to minimize flood hazard, mosquito population blooms, and waterfowl attractants that pose a greater bird-strike risk. The project will be designed to minimize adverse effects to the Federally-endangered tidewater goby and steelhead trout, while avoiding significant flood and	
2016-20	Goleta Slough Mouth Management	NEW	experienced in November 2012, May 2013 and February 2014.	
			The project includes establishing new swales to connect to an existing culvert emptying to Carneros Creek. To preserve the wetland habitat within the project site, the swales will be "eco- channels" which are constructed to allow a certain depth of water to still fill the wetlands, but now allow the water to overflow into Hollister	
2016-21	Hollister Drainage Improvement	NEW	Avenue. There will be a significant component of wetland enhancement/planting to offset any detrimental impacts of the project to the wetland habitat. Develop a comprehensive Sea Level	
			Rise Adaptation Plan for the low-lying coastal area from Ledbetter Point to the coastal bluffs at the eastern City	
2016-22	Sea Level Rise Adaptation Plan	NEW	limits to identify, manage, and reduce sea level rise effects on coastal resources and critical City facilities.	
2016-23	Review/Revise the City's Critical Facilities List	NEW	Develop a more comprehensive list of Critical Facilities that would include hospitals, skilled nursing facilities and private companies; as applicable.	

Implementation Plan

Mitigation Action # 2016 – 1	Deferred from 2011			
Project Description: Pedregosa Storm Drain				
This is a cooperatively funded project of the County Flood Control and the City to solve drainage problem along Pedregosa Avenue to De la Vina Street. This is scheduled to be constructed next year. The affected area is from Mission Creek to Sheridan Avenue vicinity.				
	Applicable Hazards			
High	Medium	Low		
☐ Earthquake ⊠ Flooding	 Agricultural Pests / Disease Epidemic/Pandemic 	 Tsunami Dam Failure 		
☐ Wildfire	HazMat Release	Commercial Aircraft		
Sea Level Rise	Oil Spills	Terrorism		
Drought	Landslide/Coastal Erosion	Cyber Threat		
Existing and Potential Resources: Santa Barbara County Flood Control District Benefits Assessments/Streets Capital Fund – estimated cost of project \$700,000				
Responsible Department: Santa Barbara County Flood Control - Tom Fayram, Deputy Public Works Director				
Target Completion Date: Undetermined due to funding				
Additional Comments / Status Report:				
Construction will significantly reduce flooding.				
Generating Department/Division: Public Works – Streets Division				

Mitigation Action # 2016 – 2	Mitigation Action # 2016 - 2Deferred from 2011			
Project Description: Replacement S	Storm Drain Outfall			
Replace steel pipe culvert at Carneros Creek and improve associated drainage channels. As recommended in Santa Barbara Airport "Master Drainage Plan". This will assist in eliminating over bank flooding along Hollister Ave near Carneros Way up to a 10 year storm event				
	Applicable Hazards			
High	Medium	Low		
Earthquake	Agricultural Pests / Disease	🔲 Tsunami		
⊠ Flooding	Epidemic/Pandemic	Dam Failure		
☐ Wildfire	HazMat Release	Commercial Aircraft		
Sea Level Rise	Oil Spills	Terrorism		
Drought	Landslide/Coastal Erosion	Cyber Threat		
Responsible Department: Owen Thomas Supervising Engineer City of Santa Barbara Airport Department				
Target Completion Date: 2021				
Additional Comments / Status Report: This Project is planned but not budgeted. Targeted to complete in 5 Years Planning/Permitting and Design approximately 9 months. Construction time estimated at approximately 60 days.				
Significant reduction in flooding of Hollister Ave (main through fare) eliminating this traffic hazard for up to 10-year storm event and traffic.				
Generating Department/Division: Airport Engineering				

Mitigation Action # 2016 - 3Deferred from 2011			
Project Description: Flood Wall	Construction - Around buildings 22	23, 304, 314, and 315 to protect	
these structures from flooding.			
	Applicable Hazards		
High	Medium	Low	
Earthquake	Agricultural Pests / Disease	🔲 Tsunami	
⊠ Flooding	Epidemic/Pandemic	Dam Failure	
Wildfire	HazMat Release	Commercial Aircraft	
Sea Level Rise	Oil Spills	Terrorism	
	Landslide/Coastal Erosion	Cyber Threat	
Existing and Potential Resource	es: Airport revenue and/or FEMA	funds.	
Design and Construction cost of S	Storm walls - approximately \$120,0	00	
Responsible Department: Owe	n Thomas Supervising Engineer		
City of Santa Barbara Airport Dep	partment		
Target Completion Date: Undet	ermined due to funding		
Additional Comments / Status Report:			
Eliminate frequent water intrusion into buildings subsequent clean-up costs due to storm events,			
many of which are less man of year events.			
Generating Department/Division: Airport Engineering			

Mitigation Action # 2016 – 4Deferred from 2011				
Project Description: Honda Valley Hillside Stabilization in location of High Pressure Gas line Serving the				
An area near a roadway and private property where high pressure gas lines are buried erodes frequently due to runoff and the steepness of the slope. This necessitates stabilization of the continually eroding hillside containing the gas line. An engineering consultant would prepare plans for slope stabilization and native revegetation, and infrastructure relocation if necessary.				
 Identify Funding Prepare scope of work Hire consultation firm to design job Acquire all necessary permits. Write Specifications Bid construction Construct project 				
	Applicable Hazards			
<u>High</u>	<u>Medium</u>	Low		
Earthquake	Agricultural Pests / Disease	🗌 Tsunami		
⊠ Flooding	Epidemic/Pandemic	Dam Failure		
Wildfire	HazMat Release	Commercial Aircraft		
Sea Level Rise	Oil Spills	Terrorism		
Drought	Landslide/Coastal Erosion	Cyber Threat		
Existing and Potential Resources: Funding has not been specified				
Responsible Department: City of Santa Barbara Parks and Recreation Department working with City of Santa Barbara Public Works and the Gas Company				
Target Completion Date: Undetermined due to funding				
Additional Comments / Status Report: The benefits of public safety and a secure utility delivery would outweigh the likely fiscal costs of planning and implementation of a slope stabilization project.				
Generating Department/Division: Parks & Recreation – Parks Division				

Mitigation Action # 2016 - 5Deferred from 2011		
Project Description: Hidden Valley Park Slope Stability		
Project Description: Hidden Valley Park Slope Stability At numerous locations throughout the park, slope stability problems are reoccurring along steep creek banks causing public safety hazards from slides and flooding, as well as stability issues on private and public property that lines the park. Potential hazards to park users and public and private economic losses would be reduces if the slopes were stabilized. Identify Funding Hire consultation firm to design job Acquire all necessary permits. Write Specifications Bid construction Construct project		
	Applicable Hazards	
High	Medium	Low
Earthquake	Agricultural Pests / Disease	🗌 Tsunami
⊠ Flooding	Epidemic/Pandemic	Dam Failure
Wildfire	HazMat Release	Commercial Aircraft
Sea Level Rise	Oil Spills	Terrorism
Drought	Landslide/Coastal Erosion	Cyber Threat
Existing and Potential Resources: Funding has not been specified Responsible Department: City of Santa Barbara Parks and Recreation working with County of Santa Barbara Flood Control, and City of Santa Barbara Creeks Division.		
Target Completion Date: Undetermined due to funding. Additional Comments / Status Report: Reduced risk to life and property from slides and flooding would outweigh likely fiscal costs.		
Generating Department/Division: Parks & Recreation – Parks Division		

Action # 2016 - 6Deferred from 2011			
Project Description: Stevens Park Eastern Access Erosion Remediation			
The sole emergency access point to the majority of Stevens Park is subject to severe erosion, undercutting, potential slope failure and substantial sedimentation into San Rogue Creek from storm damage and poor drainage. In order to reduce the hazard to life and property from slides and flooding and to maintain a functional flood control system the area must be repaired by means of bank stabilization, revegetation, and appropriate drainage control.			
 Identify Funding Prepare scope of work Hire consultation firm to design job Acquire all necessary permits. Write Specifications Bid construction Construct project 			
	Applicable Hazards		
High	<u>Medium</u>	Low	
Earthquake	Agricultural Pests / Disease	🗌 Tsunami	
⊠ Flooding	Epidemic/Pandemic	Dam Failure	
Wildfire	HazMat Release	Commercial Aircraft	
Sea Level Rise	Oil Spills	Terrorism	
Drought	Landslide/Coastal Erosion	Cyber Threat	
Existing and Potential Resources: Fund	ding has not been specified		
Responsible Department: City of Santa Barbara Parks and Recreation Department			
Target Completion Date: Undetermined due to funding.			
Additional Comments / Status Report: The benefit of secure life and property and the preservation of an effective and ecologically sound creek system would outweigh the likely fiscal costs.			
Generating Department/Division: Parks & Recreation – Parks Division			

Mitigation Action # 2016 - 7Deferred from 2011			
Project Description: Francheschi Park/Mission Ridge Hillside geotechnical stabilization of retaining wall			
Improve storm drain infrastructure impro	Improve storm drain infrastructure improvements.		
	Applicable Hazards		
High	Medium	Low	
Earthquake	Agricultural Pests / Disease	Tsunami	
⊠ Flooding	Enidemic/Pandemic	Dam Failure	
☐ Wildfire	HazMat Palosco		
Sea Level Rise			
Drought		Terrorism	
	Landslide/Coastal Erosion	Cyber Threat	
Existing and Potential Resources: No current funding sources.			
Responsible Department: Parks & Recreation and Community Development			
Target Completion Date: Undetermined	due to funding.		
Additional Comments / Status Report:			
Retaining wall is crucial to ingress and egress in the area; especially for evacuation and emergency response			
Generating Department/Division: Parks & Recreation – Parks Division and Community Development - Planning			

Mitigation Action # 2016 – 8	Deferred from 2011	
Project Description: Bluff Retreat Management at Shoreline Park		
Since the late 90's the Park's bluff has b parkway needs to be continually address	een subject to numerous slides. Man ed.	agement of sidewalks and
	Applicable Hazards	
High	Medium	Low
Earthquake	Agricultural Pests / Disease	🗌 Tsunami
⊠ Flooding	Epidemic/Pandemic	Dam Failure
Wildfire	HazMat Release	Commercial Aircraft
Sea Level Rise	Oil Spills	Terrorism
Drought	☐ Landslide/Coastal Erosion	Cyber Threat
Existing and Potential Resources: Cu	rrently an unfunded project	
Responsible Department: Parks & Recreation		
Target Completion Date: Undetermined due to funding.		
Additional Comments / Status Report	:	
Currently the erosion to the park continues and will continue into the future. Keeping the management of sidewalks and vegetation in the area is an on-going issue.		
Generating Department/Division: Park & Recreation – Parks Division and Public Works - Engineering		

Mitigation Action # 2016 – 9	Deferred from 2011		
Project Description: Rebuild 1000 Steps			
Coastal erosion to the access on the beach has been on-going. The steps need to be rebuilt for safety of coastal access.			
	Applicable Hazards		
High	Medium	Low	
Earthquake	Agricultural Pests / Disease	🖂 Tsunami	
⊠ Flooding	Epidemic/Pandemic	Dam Failure	
Wildfire	HazMat Release	Commercial Aircraft	
Sea Level Rise	Oil Spills	Terrorism	
Drought	☐ Landslide/Coastal Erosion	Cyber Threat	
Existing and Potential Resources: Cu	Existing and Potential Resources: Currently an unfunded project		
Responsible Department: Parks & Recreation and Public Works			
Target Completion Date: Undetermine	d due to funding.		
Additional Comments / Status Report:			
Generating Department/Division: Parks & Recreation – Parks Division and Public Works – Engineering Division			

Mitigation Action # 2016 – 10	# 2016 – 10 Deferred from 2011			
Project Description: Police Department				
Police Building has been assessed by outside architectural firm and has been determined that the building needs seismic renovation.				
	Applicable Hazards			
High	Medium	Low		
 Earthquake Flooding Wildfire Sea Level Rise Drought Existing and Potential Resources: No	 Agricultural Pests / Disease Epidemic/Pandemic HazMat Release Oil Spills Landslide/Coastal Erosion 	 Tsunami Dam Failure Commercial Aircraft Terrorism Cyber Threat 		
Responsible Department: Police Department and Community Development Target Completion Date: Undetermined due to funding.				
Additional Comments / Status Report:				
Concept designs have been submitted. The Communication Center, housed on the first floor (basement) of the Police Department has been relocated to another facility off site due to the safety issues. Completion date for the building is dependent on securing funding.				
Generating Department/Division: Police Department and Community Development – Planning Division				

Mitigation Action # 2016 – 11	Deferred from 2011		
Project Description: High Fire Area Road			
• Many steep slopes in the high fire areas are subject to erosion and has already failed in areas in past flooding events			
• Gravity/unreinforced retaining w	alls subject to land slide and earthq	uake	
	Applicable Hazards		
High	<u>Medium</u>	Low	
Earthquake	Agricultural Pests / Disease	🔲 Tsunami	
⊠ Flooding	Epidemic/Pandemic	Dam Failure	
⊠ Wildfire	HazMat Release	Commercial Aircraft	
Sea Level Rise	Oil Spills	Terrorism	
Drought	☐ Landslide/Coastal Erosion	Cyber Threat	
Existing and Potential Resources: Cu	Existing and Potential Resources: Currently an unfunded project		
Degrandible Departmente Dublie Weg	lea		
Responsible Department: Public wor	KS		
Target Completion Date: Undetermine	d due to funding.		
Additional Commonts / Status Donort			
Additional Comments / Status Reports	man ar man dans from a social that	a high fine anos and will	
drastically slow down calls times if these roads are hampered.			
Generating Department/Division: Public Works – Engineering and Fire Department – Fire Prevention Bureau, Wildland Fire Specialist			

Mitigation Action # 2016 – 12	ion Action # 2016 – 12 Deferred from 2011		
Project Description: Laguna Pump Station			
Replace and repair pump station.			
	Applicable Hazards		
High	<u>Medium</u>	Low	
🔀 Earthquake	Agricultural Pests / Disease	Tsunami	
⊠ Flooding	Epidemic/Pandemic	Dam Failure	
☐ Wildfire	HazMat Release	Commercial Aircraft	
🗌 Sea Level Rise	— Dil Spills		
Drought	Landslide/Coastal Erosion	Cyber Threat	
Existing and Potential Resources: Currently an unfunded project			
Degnongible Department: Public Works			
Responsible Department. Tublic Wolf	A.O		
Target Completion Date: Undetermined	d due to funding.		
Additional Comments / Status Report:			
If pump station goes out, the downtown area will have massive closure between Anacapa and Quenientos			
Street and Ortega and Canon Perdido Street. It will also cause upstream flooding and coastal erosion.			
Generating Department/Division: Public Works – Water Resources and Engineering Divisions			

Mitigation Action # 2016 – 13	Deferred fr	om 2011	
Project Description: Replace deluge system on Stearns Wharf			
In the past Stearns Wharf, which is an historical site, has suffered three massive fires. The current deluge system is not adequate if there is another fire.			
	Applicable Hazards		
High	Medium	Low	
Earthquake	Agricultural Pests / Disease	🗌 Tsunami	
Flooding	Epidemic/Pandemic	Dam Failure	
⊠ Fire	HazMat Release	Commercial Aircraft	
Sea Level Rise	Oil Spills	Terrorism	
Drought	Landslide/Coastal Erosion	Cyber Threat	
Existing and Potential Resources: Currently an unfunded project; however is part of the City's Capital Improvement Project (CIP)			
Responsible Department: Waterfront			
Target Completion Date: Undetermined due to funding.			
Additional Comments / Status Report:			
This is life essential equipment for the wharf			
Generating Department/Division: Waterfront – Operations Division			

Mitigation Action # 2016 – 14	Deferred	from 2011	
Project Description: Backup generator for Waterfront Department Operating Center (DOC)			
Upgrade power for Harbor Patrol and De	Upgrade power for Harbor Patrol and Department's DOC		
	Applicable Hazards		
High	<u>Medium</u>	Low	
🔀 Earthquake	Agricultural Pests / Disease	🖂 Tsunami	
\boxtimes Flooding	Epidemic/Pandemic	Dam Failure	
Wildfire	HazMat Release	Commercial Aircraft	
Sea Level Rise	Oil Spills	Terrorism	
Drought	Landslide/Coastal Erosion	Cyber Threat	
Existing and Potential Resources: Cu	rrently no funding sources		
Responsible Department: Waterfront			
Target Completion Date: Undetermine	d due to funding		
Target Completion Date: Ondetermine	a due to funding.		
Additional Comments / Status Report	:		
Planning design work is currently being generated.			
Generating Department/Division: Waterfront – Operations Division			

Mitigation Action # 2016 – 15	Deferred from 2011		
Project Description: Seismic Upgrades to City Facilities in the Harbor			
Current Harbor facilities are old early 60	s type construction – seismic renova	tion needed for safety	
	Applicable Hazards		
High	Medium	Low	
🔀 Earthquake	Agricultural Pests / Disease	🗌 Tsunami	
☐ Flooding	Epidemic/Pandemic	Dam Failure	
Wildfire	HazMat Release	Commercial Aircraft	
Sea Level Rise	🗌 Oil Spills	Terrorism	
Drought	Landslide/Coastal Erosion	Cyber Threat	
Existing and Potential Resources: Cu	rrently an unfunded project		
Responsible Department: Waterfront			
Target Completion Date: Undetermine	d due to funding		
Target Completion Date. Undetermine	a due to funding.		
Additional Comments / Status Report:			
Generating Department/Division: Waterfront – Operations Division and Public Works – Engineering			
Division			
Mitigation Action # 2016 – 16	Deferred fr	rom 2011	
---------------------------------------------	---------------------------------	---------------------	
Project Description: Mesa Lane Coasta	al Access		
Coastal Erosion has damaged a good port	ion of the access to the beach.		
_			
	Applicable Hazards		
High	Medium	Low	
Earthquake	Agricultural Pests / Disease	🖂 Tsunami	
⊠ Flooding	Epidemic/Pandemic	Dam Failure	
Wildfire	HazMat Release	Commercial Aircraft	
Sea Level Rise	Oil Spills	Terrorism	
Drought	Landslide/Coastal Erosion	Cyber Threat	
Existing and Potential Resources: Cu	rrently an unfunded project		
Responsible Department: Parks & Red	creation		
Target Completion Date: Undetermined	d due to funding.		
	C		
Additional Comments / Status Report:			
A significant storms could element this be	each access		
Generating Department/Division: Park	s & Recreation – Parks Division		

Mitigation	Action	# 2016 -	- 17
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NEW

Project Description: Salsipuedes Street Storm Drain Improvements

The project first involves the study of existing public and private storm drain facilities beginning on Salsipuedes Street at Micheltorena Street and continuing south to Victoria Street. Potential improvements include connection of storm drain inlets on Micheltorena Street to an existing storm drain on Salsipuedes Street and the construction of a new storm drain pipe along Salsipuedes and Victoria Streets.

	Applicable Hazards	
High	<u>Medium</u>	Low
 Earthquake Flooding Wildfire Sea Level Rise 	 Agricultural Pests / Disease Epidemic/Pandemic HazMat Release Oil Spills 	 Tsunami Dam Failure Commercial Aircraft Terrorism
Drought	Landslide/Coastal Erosion	Cyber Threat
Existing and Potential Resour	ces: No current funding sources	
Responsible Department: Cit	ty of Santa Barbara Public Works Depar	tment
Target Completion Date: Und	letermined due to funding.	
Additional Comments / Status	s Report:	
Public Works will pursue comp grant funding or a cost sharing a the cost for construction.	letion of an initial study and design for t agreement with County Flood Control ca	his project in the event that in be secured to cover 50% of
Generating Department/Divis	ion: Public Works- Engineering Division	on

Mitigation Action # 2016 – 18	N	EW
Project Description: Corrugat	ed Metal Pipe Repairs	
Studies done in the several areas replaced. This project would see priority corrugated metal pipe du	within the City noted many corrug k to repair through slip lining or to rain lines annually.	ated metal pipes will need to be completely replace the highest
	Applicable Hazards	
<u>High</u>	<u>Medium</u>	Low
 □ Earthquake □ Flooding □ Wildfire □ Sea Level Rise □ Drought 	 Agricultural Pests / Disease Epidemic/Pandemic HazMat Release Oil Spills Landslide/Coastal Erosion 	 Tsunami Dam Failure Commercial Aircraft Terrorism Cyber Threat
Responsible Department: Cit Target Completion Date: Und	y of Santa Barbara Public Works Do	epartment
Additional Comments / Status	Report:	
Many of the City owned corruga replacement. Due to lack of func- emergency maintenance projects sinkholes following rain events)	tted metal pipes were installed over ling for this project, repairs are typi in response to failures evident at th	50 years ago and may require cally only completed as ne street level (typically as
Generating Department/Divisio	n: Public Works – Engineering Div	vision

Mitigation Action # 2016 – 19 NEW

Project Description: Gutierrez Storm Drain Improvements

The project would construct additional storm drains to reduce the duration and severity of flooding when the upstream storm drain system is overwhelmed. The project is intended to improve the ability to remove runoff from the area by providing increased inlet capacity and by providing larger conduits between the street inlets and the box culverts under Hwy 101.

Applicable Hazards	2	
High	<u>Medium</u>	Low
 Earthquake Flooding Wildfire Sea Level Rise Drought 	 Agricultural Pests / Disease Epidemic/Pandemic HazMat Release Oil Spills Landslide/Coastal Erosion 	 Tsunami Dam Failure Commercial Aircraft Terrorism Cyber Threat
Existing and Potential Resourc	es: To be determined	
Responsible Department: City	of Santa Barbara Public Works Dep	artment
Target Completion Date: Unde	etermined	
Additional Comments / Status	Report:	
The area north of Hwy 101 withi During flooding events where the overflow travels overland to the The local storm drain system in t flooding occurs.	n the Laguna Channel watershed is v e City's storm drain system is unable area along Gutierrez Street between his area is inadequate to handle these	within the 100-year flood plain. e to transport peak runoff, the Rose Avenue and Olive Street. e overflow events and local
Generating Department/Division	on: Public Works – Engineering Div	ision

Mitigation Action # 2016 – 20	NEV	V
Project Description: Goleta SI Narrative: This project will commosquito population blooms, ar project will be designed to mini steelhead trout, while avoiding so November 2012, May 2013 and	ough Mouth Management atrol the water level in the Goleta Slou ad waterfowl attractants that pose a gree mize adverse effects to the Federally-e significant flood and bird-strike hazard February 2014.	gh to minimize flood hazard, eater bird-strike risk. This endangered tidewater goby and ls such as those experienced in
	Applicable Hazards	
<u>High</u>	<u>Medium</u>	Low
Earthquake	Agricultural Pests / Disease	🗌 Tsunami
K Flooding	Epidemic/Pandemic	Dam Failure
Wildfire	HazMat Release	Commercial Aircraft
Sea Level Rise	Oil Spills	Terrorism
Drought	Landslide/Coastal Erosion	Cyber Threat
Existing and Potential Resour and are expected to be finalized Airport.	ces: Project formulation and biologic in May 2015. Funding sources include	cal assessment are underway e funding from FAA and the
Responsible Department: Air	rport Department	
Target Completion Date: 2021		
Additional Comments / Status Report: The Federal Aviation Administration (FAA) requires that wildlife strike risk be avoided to the maximum extent feasible within environmental constraints. The Santa Barbara County Flood Control District completed an Environmental Impact Report for their maintenance activities, including slough mouth management in 2011.		
Generating Department/Division	on: Public Works - Engineering Divisi	on and Airport – Operations

Mitigation Action # 2016 – 21	NEV	V
Project Description: Hollister I Narrative: The project includes et to Carneros Creek. To preserve th channels" which are constructed t allow the water to overflow into H enhancement/planting to offset an	Drainage Improvement stablishing new swales to connect to e wetland habitat within the project o allow a certain depth of water to st follister Avenue. There will be a sig y detrimental impacts of the project	o an existing culvert emptying site, the swales will be "eco- till fill the wetlands, but now nificant component of wetland to the wetland habitat.
	Applicable Hazards	
<u>High</u>	Medium	Low
Earthquake	Agricultural Pests / Disease	🗌 Tsunami
⊠ Flooding	Epidemic/Pandemic	Dam Failure
Wildfire	HazMat Release	Commercial Aircraft
Sea Level Rise	Oil Spills	Terrorism
Drought	Landslide/Coastal Erosion	Cyber Threat
Existing and Potential Resource	s:	
Responsible Department: Airp	ort Department	
Target Completion Date: 2021		
Additional Comments / Status F Los Carneros Way is twelve acre several poorly defined swales whi event (3-5 year storms) the swales and flood over Hollister Avenue. and the road has to be closed for s Airport and needs to remain as sa The project is consistent with Pub adequately drained during a 10-year	Report: The area south of Hollister <i>A</i> moisture of upland and wetland habic ch have not been maintained for mass, which are severely choked by bulr The depth of water on Hollister Averafety reasons. Hollister Avenue is a fe and dependable route to the Airpolic Works Engineering standards that ar storm.	Avenue and east and west of itats. The area is drained by ny years. In moderate storm ush, back up with storm runoff nue is as much as 12 inches in important access route to the ort in moderate and heavy rains. at require roads to be
Generating Department/Division	: Airport – Operations Division	

Mitigation Action # 2016 – 22	NEV	W
Project Description: Sea Level Ris Develop a comprehensive Sea Leve Ledbetter Point to the coastal bluffs rise effects on coastal resources and	e Adaptation Plan. l Rise Adaptation Plan for the low at the eastern City limits to identi critical City facilities.	r-lying coastal area from fy, manage, and reduce sea level
	Applicable Hazards	
High	Medium	Low
 Earthquake Flooding Wildfire Sea Level Rise Drought Existing and Potential Resources:	 Agricultural Pests / Disease Epidemic/Pandemic HazMat Release Oil Spills Landslide/Coastal Erosion Currently an unfunded project. Output Development Department 	 Tsunami Dam Failure Commercial Aircraft Terrorism Cyber Threat
Additional Comments / Status Reuprush, and coastal flooding threate2060-2100 timeframe for medium ainundation were compounded with IAdaptation planning is needed to reproject is found in the 2013 Safety I	rmined port: Sea level rise modeling has ns City facilities along the shorelin nd high sea level rise scenarios. T high groundwater, local surface ru duce risks to critical City facilities Element.	shown that erosion, wave ne and downtown area in the This could worsen if tidal noff, and fluvial flooding. Dolicy direction for this
Submitted by: Generating Department/Division: Division	Community Development Depa	rtment, Long Range Planning

Mitigation Action # 2016 – 23	NEV	N
Project Description: Review/Review Develop a more comprehensive list of facilities and private companies; as a	se the City's Critical Facilities List of Critical Facilities that would inc pplicable.	lude hospitals, skilled nursing
	Applicable Hazards	
High	<u>Medium</u>	Low
Earthquake	Agricultural Pests / Disease	🔲 Tsunami
Flooding	Epidemic/Pandemic	Dam Failure
Wildfire	HazMat Release	Commercial Aircraft
Sea Level Rise	Oil Spills	Terrorism
Drought	Landslide/Coastal Erosion	Cyber Threat
Existing and Potential Resources	Cost of in-kind staff cost.	
	211.12	
Responsible Department: Finance	e – Risk Management	
Target Completion Date: 2020		
Additional Comments / Status Re the City will need to develop a critic such; hospitals, skilled nursing facil	port: In order to have a comprehe cal infrastructure list that includes lities, dialysis clinics, etc.	ensive Hazard Mitigation Plan, outside agencies and businesses,
Submitted by: Generating Department/Division:	Fire/Office of Emergency Servio	ces

SECTION 8 PLAN MAINTENANCE

This section of the Plan describes the formal process that will ensure that the Plan remains an active and pertinent document. The plan process includes a schedule for monitoring and evaluating the Plan annually, which will produce a plan revision every five (5) years.

This section will describe how the City will integrate public participation throughout the plan maintenance process.

<u>Plan Monitoring</u>

The City of Santa Barbara Office of Emergency Services (OES) will be responsible to ensure that the City's Local Hazard Mitigation Planning Team monitoring the overall Plan for updates on an annual basis.

Plan Evaluation

City OES will call the Local Hazard Mitigation Planning (LHMP) team together on an annual basis to evaluate the Plan and Mitigation Actions set forth in this plan and discuss effectiveness of the Plan. The LHMP team will develop a list of items to be updated, added, or removed in revisions of this Plan.

City OES will report the outcomes of the annual meeting to the County Office of Emergency Management (OEM) and the City's Disaster Council.

The Plan will also be a work item on the City's Emergency Managers Task Team (EMTT) agenda annually. Department heads and other emergency preparedness staff who serve in the City's Emergency Operations Center (EOC) will focus on evaluating the Plan in light of technological, budgetary, political changes, or other significant events that may occur during the year.

Plan Updates

Since the plan's first adoption in 2005, the LHMP Planning Team has participated in an annual review. The Planning Team reviewed all aspects of the plan and mitigation actions that were either deferred, begun, continued or completed during that year.

After FEMA approval and City Council adoption, the 2011 HMP was integrated into the Safety Element of the City of Santa Barbara's Comprehensive Plan by City Council Resolution 12-004. City planning efforts and Capital Projects directed by the City were influenced by the information taken from the 2011 HMP. The 2011 HMP was also utilized and referenced to update the 2013 City Emergency Operations Plan, City's General Plan, Tsunami Response Guidelines, and Watershed Response Guidelines.

The review process has been effective in identifying gaps and shortfalls in funding, support, and other resources. It has also allowed the re-prioritization of specific actions as circumstances change. It allows the City to maintain the plan as a living document.

All Planning Team members will continue to be responsible to provide City OES with updates annually. City OES will be responsible to take all revisions to the County Mitigation Advisory Committee (MAC) annually. However, major disasters affecting the City, legal changes, and/or other events may trigger a meeting of the LHMP team before the annual meeting. The Planning

Team will be responsible for determining the revisions to the plan after any activation due to an emergency or disaster.

Continued Public Involvement

The City and all stakeholders continue to be dedicated to involving the public directly in the review process and updates of the Plan. The Planning Team is responsible for monitoring, evaluating, and updating the Plan as described above. During all phases of plan maintenance the public will have the opportunity to provide feedback.

A copy of the Plan will be available for review on the City's OES website and Facebook page. In addition, hard copies will be available at City Hall, the main library at the reference desk, and the City's Office of Emergency Services (OES). In addition, to facilitate public comments, the OES website will contain an email address for the public's use which is monitored on a daily basis by the City's Emergency Services Manager or designee. Any questions or comments received on this website will be forwarded to the appropriate Planning Team member or Department for review and response.

A press release requesting public comments will also be used for each update and after each evaluation. City OES will also use social media (Facebook, Twitter, etc.) to notify the public of any changes they should be aware of. Coupled with the dedicated email address for comments, this provides the public a simple and easily accessible to allow them to express their concerns, opinions, or ideas about any updates/changes that are proposed to the Plan. The City will continue to be responsible for publicizing any changes to the Plan and maintaining public involvement.

The City will also make reference to the Plan at all community events and training, e.g. Community Emergency Response Team (CERT), Community Disaster Education (CDE), Listos (class for the Hispanic Community), etc.

Point of Contact

Comments or suggestions regarding this plan may be submitted at any time to Yolanda McGlinchey, City Emergency Services Manager using the following information:

Yolanda McGlinchey City of Santa Barbara Fire Department Office of Emergency Services 925 Chapala Street Santa Barbara, CA 93101 <u>YMcGlinchey@SantaBarbaraCA.gov</u> 805-564-5711 Attachment 4: Fiscal Year 2021 Water Rates

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WATER RATES AND FEES

Title 14.08 of the Santa Barbara Municipal Code authorizes the City Council to set fees for water meters and water service;

Section 14.12.010 of the Santa Barbara Municipal Code authorizes the City Council to set the rate for City water for private fire services when the use of a meter is not required; and

The City does currently and wishes to continue to have in effect a water rate structure that reflects an adequate supply of water and promotes the efficient use of such water by its customers.

1 Definitions

Wherever used in this resolution the following quoted words shall have the meanings set forth below:

- 1.1 **"Account holder"** means the person or entity responsible for payment for water service at a particular property, as shown in the City's water billing records.
- 1.2 "Master Meter" or "Auxiliary Master Meter" is defined in Santa Barbara Municipal Code 14.04.020
- 1.3 "Base allotment" means the average monthly consumption on record with the City for the most recent complete off-peak period calculated assuming the maximum days in a monthly billing cycle, or such other level of consumption determined by the Director to represent the average monthly off-peak water usage by a particular customer. An off-peak period for any given customer shall be a period comprised of the service periods charged on bills dated January through June.
- 1.4 **"Director**" means the Director of the Department of Public Works, or his or her designated representative.
- 1.5 **"Dominant use"** means for any meter serving multiple uses, such as an existing meter serving both a residence and a commercial establishment, the use consuming the most water on average. In cases where a meter serves more than one type of use, the meter will be classified based on the dominant use for billing purposes.
- 1.6 "HCF" means one Hundred Cubic Feet.
- 1.7 "**Service**" or "water service" means water provided by or through the water distribution facilities of the City.

2 Water Service Rates and Classifications

The following provisions shall govern all fees related to water service for metered connections to the City water system:

2.1 MONTHLY SERVICE CHARGES

A monthly service charge shall be collected for all connections, including City submeters, without regard to actual water use. Unless a master meter serves water directly to a dwelling unit without water passing through a City submeter, a monthly service charge shall not be collected for a City master meter. The monthly service charges shall be as follows:

Size of Water Service Connection	Rate (\$/meter/month) Effective August 15, 2017	Rate (\$/meter/month) Effective July 1, 2018	Rate (\$/meter/month) Effective July 1, 2019
5/8"	\$25.89	\$27.36	\$28.92
3/4"	\$37.65	\$39.81	\$42.10
1"	\$61.15	\$64.70	\$68.45
1 1/2"	\$119.91	\$126.92	\$134.34
2"	\$190.43	\$201.59	\$213.40
3"	\$413.74	\$438.05	\$463.80
4"	\$742.81	\$786.51	\$832.79
6"	\$1,530.25	\$1,620.34	\$1,715.72
8"	\$2,823.06	\$2,989.30	\$3,165.32
10"	\$4,459.38	\$4,712.41	\$4,979.80

2.2 MASTER METER (AUXILARY MASTER METER) OPERATIONS AND MAINTENANCE FEE

Unless a master meter directly serves water to a dwelling unit without water passing through a City submeter, a monthly operations and maintenance fee shall be collected for master water meters, without regard to actual water use, if any, as follows:

Size of Master Meter	Rate (\$/meter/month) Effective August 15, 2017	Rate (\$/meter/month) Effective July 1, 2018	Rate (\$/meter/month) Effective July 1, 2019
2"	\$62.00	\$62.00	\$62.00
3"	\$67.00	\$67.00	\$67.00
4"	\$70.00	\$70.00	\$70.00
6"	\$76.00	\$76.00	\$76.00
8"	\$82.00	\$82.00	\$82.00
10"	\$88.00	\$88.00	\$88.00

2.3 USER CLASSIFICATIONS

For the purposes of assessing metered water charges provided for below, user classifications shall be determined and corrected by Staff, using the categories below. Any meter serving multiple uses shall be classified based on the dominant use.

2.3.1 Residential Single Family

Applicable to all meters serving one detached dwelling unit.

2.3.2 Multifamily 1-4 Units

Applicable to all meters serving two or more detached dwelling units, all meters serving 1, 2, 3, or 4 attached dwelling units, and all meters serving accessory dwelling units.

2.3.3 Multifamily Over 4 Units

Applicable to all meters serving five or more dwelling units, any of which are attached.

2.3.4 Commercial

Applicable, without regard to meter size, to all accounts serving mercantile buildings, motels, and other short term lodging establishments, office buildings, institutional buildings, schools, churches, and other commercial establishments. Also applicable to accounts solely serving common areas on multifamily or mixed use properties including but not limited to communal laundry rooms.

2.3.5 Industrial

Applicable to all meters serving laundries (other than self-service laundries), manufacturing facilities, and other industrial facilities.

2.3.6 Irrigation-Potable

Applicable to meters limited to outdoor water use and subclassified as provided in subsections 2.3.6.1 through 2.3.6.4 below. All meters under this classification shall be subject to interruption upon declaration of a Stage Three Drought Condition. There shall be no connection between a meter served under this classification and any dwelling or commercial or industrial structure.

The first tier of all irrigation accounts shall be calculated using the following formula: Monthly Water Budget = $(ETo)(.62/748)((PF \times HA)/IE))$

Where

ETo = Reference evapotranspiration (weather factor) 0.62/748 = Conversion factor (inches to HCF) PF = Plant factor HA =Square footage of irrigated area(s) IE = Irrigation efficiency (80%)

The Monthly Water Budget shall be determined using real-time monthly ETo data from a local weather station, plant factors that relate plant type water use needs to the ETo, and irrigated area by plant type. Irrigation system efficiency is set at a constant value of 80% for all account types.

Monthly Water Budgets shall be based on irrigated area only. Accounts shall be subject to mandatory ground-truthing measurement at Staff discretion to verify measurement accuracy of irrigated areas and plant types. If ground-truthing measurements are not completed within two months after initial contact due to lack of customer response, service may be subject to suspension until irrigated landscaped areas are verified in the field.

2.3.6.1 Irrigation-Agriculture

Applicable only to Potable Irrigation meters that serve bona fide commercial agricultural enterprises, including nurseries. A bona fide commercial agricultural enterprise is one that grows and sells one or

more type of agricultural or horticultural products, for the purpose of producing income from the sale of these products. The amount of water made available in the first tier of metered water usage under this sub-classification shall be based on the square footage of the commercial crop area that is planted and irrigated as part of the enterprise. As a condition of the right to receive Irrigation-Agriculture service, the Director may require an Account holder to submit to the Director any documentary or other evidence necessary to establish to a reasonable degree of certainty that the property served by the meter is being used to conduct a bona fide commercial agricultural enterprise as defined above. Such evidence may include tax returns, bills of sale, or similar documents.

PFc = 75%

HAc = total crop irrigated area (square feet)

If the crop is a tree species the crop irrigated area is the number of irrigated trees multiplied by the average tree area. The average tree area is the area of a circle with a diameter equal to the average diameter of the drip line of the relevant species. An alternate method to calculate the irrigated area may be used as approved by the Director.

2.3.6.2 Irrigation-Recreation

Applicable only to Potable Irrigation meters that serve areas used primarily for passive or active recreational purposes, including parks, playgrounds, golf courses, school yards, and publicly owned open spaces and landscaped areas. The amount of water made available in the first tier of metered water usage under this sub-classification shall be based on the square footage of the irrigated area served by the meter.

HAt = total irrigated turf area (square feet) Turf PFt = 80%

HAs = total irrigated shrub area (square feet) Shrub PFs = 30%

2.3.6.3 Irrigation-Urban (Residential / Commercial):

Applicable to Potable Irrigation meters serving properties that are primarily residential in use or are zoned for residential use or commercial, industrial, or institutional in use. The amount of water made available in the first tier of metered water usage under this subclassification shall be based on the square footage of the irrigated area served by the meter.

HAt = total irrigated turf area (square feet)

For Residential Irrigation, HAt cannot exceed 20% of total irrigated area. If measurements are greater than 20%, the remainder square footage will be assigned to the HAs.

PFt = turf plant factor = 80%.

HAs = total irrigated shrub area (square feet)

For Commercial Irrigation, 100% of total irrigated area is considered HAs, unless a permitted exception of Landscape Design Standards has been approved.

PFs = shrub plant factor = 30%.

Plant Factor percentage allotments reflect the requirements of the City's Landscape Design Standards for Water Conservation per SBMC 22.80.

2.3.6.4 Bird Refuge

Upon finding that there are adequate water resources available to allow such use, the Director may also authorize the sale of up to a total of 21,780 HCF (50 acre feet) per year at the first block recreation rate for use in refilling the Andre Clark Bird Refuge.

2.3.7 Recycled Water

Applicable to all meters providing recycled water

2.3.8 State Institutional

Applicable to customers that are State agencies located in the unincorporated area of the County of Santa Barbara

2.4 METERED WATER CHARGES

In addition to all other charges imposed by Chapter 14.08 of the Santa Barbara Municipal Code, including but not limited to the monthly service charges set forth in subsection 2.1 above, water use shall be charged according to the following block rates for those user classifications defined in subsection 2.3 above. Usage shall be measured in units of 100 cubic feet (HCF).

The allocation of the City's six water sources to customer classes and tiers is based on priority level. Each tier is charged the weighted average cost of water based on the allocated sources. The highest priority customer tiers receive the least expensive sources of water, limited to that tier's percentage of each priorities' total demand times the water source (or remaining water source remaining from a higher priority).

1. Tier 1 Agriculture. The highest priority use is allocated to tier 1 agriculture (Ag) for efficient agricultural purposes.

 2. Tier 1 Residential Single Family (SFR)/Tier 1 Residential Multi-family (MFR)/Tier 1 Recreation (Rec) for essential health and safety purposes and efficient irrigation of parks and public spaces.
 3. Tier 1 Commercial/Industrial for efficient use of commercial and industrial purposes.

4. Tier 2 Residential SFR/MFR and Tier 1 irrigation for efficient irrigation needs for residential/commercial with dedicated irrigation meters.

5. Tier 2 Ag/Tier 2 Rec/Tier 3 Residential/Tier 2 Irrigation for residential and commercial dedicated irrigation meters/ Tier 2 Commercial or Industrial for inefficient use for agricultural, recreation, residential, commercial or industrial purposes

2.4.1 Single Family Residential

Monthly Usage QuantitiesEffective AugustEffective July 1,Effective15, 201720182

First 4 hcf (per dwelling unit)	\$4.44	\$4.44	\$4.44
Next 12 hcf (per dwelling unit)	\$12.96	\$12.96	\$12.96
Over 16 hcf (per dwelling unit)	\$23.98	\$23.98	\$23.98

2.4.2 Multi-Family Residential 1 - 4 Dwelling Units

Usage Quantities (Monthly, except as specified)	Rate (\$/HCF) Effective August 15, 2017	Rate (\$/HCF) Effective July 1, 2018	Rate (\$/HCF) Effective July 1, 2019
First 4 hcf (per dwelling unit)	\$4.44	\$4.44	\$4.44
Next 4 hcf (per dwelling unit)	\$12.96	\$12.96	\$12.96
Over 8 hcf (per dwelling unit)	\$23.98	\$23.98	\$23.98

2.4.3 Multi-Family Residential Over 4 Dwelling Units

Usage Quantities (Monthly, except as specified)	Rate (\$/HCF) Effective August 15, 2017	Rate (\$/HCF) Effective July 1, 2018	Rate (\$/HCF) Effective July 1, 2019
First 4 hcf (per dwelling unit)	\$4.44	\$4.44	\$4.44
Next 4 hcf (per dwelling unit)	\$12.96	\$12.96	\$12.96
Over 8 hcf (per dwelling unit)	\$23.98	\$23.98	\$23.98

2.4.4 Commercial

Monthly Usage Quantities	Rate (\$/HCF) Effective August 15, 2017	Rate (\$/HCF) Effective July 1, 2018	Rate (\$/HCF) Effective July 1, 2019
Up to 100% of base allotment	\$6.52	\$6.76	\$7.01
All other use	\$23.91	\$23.91	\$23.91

2.4.5 Industrial

Monthly Usage Quantities	Rate (\$/HCF) Effective August 15, 2017	Rate (\$/HCF) Effective July 1, 2018	Rate (\$/HCF) Effective July 1, 2019
Up to 100% of base allotment	\$6.52	\$6.76	\$7.01
All other use	\$23.91	\$23.91	\$23.91

2.4.6 Irrigation Agriculture

Monthly Usage Quantities	Rate (\$/HCF) Effective August 15, 2017	Rate (\$/HCF) Effective July 1, 2018	Rate (\$/HCF) Effective July 1, 2019
All Use within Monthly Budget	\$3.01	\$3.01	\$3.01
All other use	\$23.98	\$23.98	\$23.98

2.4.7 Irrigation Recreation

Monthly Usage Quantities	Rate (\$/HCF) Effective August 15, 2017	Rate (\$/HCF) Effective July 1, 2018	Rate (\$/HCF) Effective July 1, 2019
All Use within Monthly Budget	\$4.11	\$4.48	\$4.88
All other use	\$23.98	\$23.98	\$23.98

2.4.8 Irrigation Urban (Residential/Commercial)

Monthly Usage Quantities	Rate (\$/HCF) Effective August 15, 2017	Rate (\$/HCF) Effective July 1, 2018	Rate (\$/HCF) Effective July 1, 2019
All Use within Monthly Budget	\$12.96	\$12.96	\$12.96
All other use	\$23.98	\$23.98	\$23.98

2.4.9 Recycled Water

Monthly Usage Quantities	Rate (\$/HCF) Effective August 15, 2017	Rate (\$/HCF) Effective July 1, 2018	Rate (\$/HCF) Effective July 1, 2019
All HCF	\$3.42	\$3.88	\$4.40

2.4.10 State Institutional

Monthly Usage Quantities	Rate (\$/HCF) Effective August 15, 2017	Rate (\$/HCF) Effective July 1, 2018	Rate (\$/HCF) Effective July 1, 2019
Up to 100% of base allotment	\$6.52	\$6.76	\$7.01
All other use	\$23.91	\$23.91	\$23.91

3 Water Service Policies and Miscellaneous Fees

3.1 FAILURE TO CONNECT TO RECYCLED WATER SYSTEM

Where the Director has determined that use of recycled water is feasible at and on a particular property and has notified the account holder for the meter serving such property of this fact as described in Section 14.23.030 of the Santa Barbara Municipal Code, and thereafter the user has failed to substitute recycled water use for potable water use, the charge for provision of potable water use shall be double the otherwise applicable charge for metered water.

3.2 GRANTING OF ADJUSTMENTS TO EXTRAORDINARY WATER CHARGES

Upon an account holder's application that is 1) received within 45 days of a relevant billing date, 2) submitted on a form provided by the Finance Director, and 3) supported by detailed written documentation, the Finance Director, or a designee of the Finance Director, shall have the authority to make adjustments to extraordinary water charges in the event of hidden leaks, undetected line breaks, unexplained usage of at least five times the average use, or circumstances that are demonstrated to be beyond the reasonable control of the account holder. Such adjustments shall be made in accordance with written guidelines reviewed by the Water Commission and approved by the Finance Director and Public Works Director. However, such adjustments shall in no case result in a cost per HCF that is less than the lowest unit rate for residential customers located within the City limits. The decision of the Finance Director, or said designee, regarding any such adjustment shall be final and not subject to further appeal. Adjustments shall not be allowed for ordinary water use, such as filling of swimming pools, establishment of landscaping, or similar voluntary or customary uses of water. The Finance Director rescinds the prior adjustment at the request of the account holder.

3.3 WATER CONSUMPTION ESTIMATES

If an accurate meter reading is not obtained for any reason, including but not limited to, inability to access the meter and/or meter failure, the water consumption for the time period where the water meter read is not available may be estimated. If access is the issue, then estimation may only occur after two separate attempts within one reading cycle to gain access. If meter failure is the issue, then the water consumption will not be estimated for more than 90 days, unless plumbing on the customer side must be addressed prior to meter replacement or with mutual consent of the City and the customer.

City staff will utilize estimating functionality within the billing system to estimate use based on the six billing periods that most closely correspond to the time frame from the prior calendar year. The calculated daily average is multiplied by the number of days in the reading period where the meter read is not available to determine an estimated consumption for the reading period. Should there not be sufficient usage history on the customer's account, the last actual meter read will be used.

Once the water meter is repaired or replaced, if the customer's water consumption is found to be significantly lower than the estimated consumption calculation after three full months of meter reads on the new meter, the customer may request an evaluation of the estimated consumption calculation and consideration of a billing adjustment.

3.4 MISCELLANEOUS SERVICES

3.4.1 Service and Administration Fees

The following miscellaneous fees related to water service shall be charged and collected upon demand:

Fee Key	Fee	Fee Amount
3.4.1.1	Service Initiation Fee	\$47.00
3.4.1.2	Service Restoration Fee	\$64.00
3.4.1.3	Administrative Account Transfer Fee	\$21.00
3.4.1.4	Declined Payment Fee	See Finance Administrative Fees
3.4.1.5	Delinquent Payment Fee (per account, per month, for any billing period in which a delinquent unpaid balance exists)	\$8.00

If a payment is returned for insufficient funds for a second time in any 12 month period, payments will only be accepted via cash, cashier's check, money order or credit card.

3.4.2 Fire Hydrant Upgrade Fees

Upgrade of existing fire hydrant to City standard where only the fire hydrant head needs replacement:

Fee Key	Fee	Fee Amount
3.4.2.1	Upgrade to Standard Residential Hydrant	\$3,108
3.4.2.2	Upgrade to Standard Commercial Hydrant	\$3,158

3.4.3 Flow Test Fees

Fee Key	Fee	Fee Amount
3.4.3.1	Hydrant Flow Test	\$497
3.4.3.2	Meter Flow Test	\$85

3.4.4 Meter Services Fees

Fee Key	Fee	Fee Amount
3.4.4.1	Data Logger Fee*	\$37
3.4.4.2	After Hours Turn On Fee	\$72

* Data Logger Fee applies to the third request and each request thereafter, within the same fiscal year, for deployment of a data logger to the same water meter as requested by a customer. The fee is not applicable to deployments initiated by City staff.

3.5 TAMPERING FEES

In addition to the fees below, reconnection fees shall be applied. Unauthorized water use via tampering may also be subject to Administrative Penalties per S.B.M.C. Section 1.28.

Fee Key	Fee	Fee Amount
3.5.1	Damaged/Missing Locks	\$61
3.5.2	Damaged/Missing Locking Brackets	\$138

3.6 DAMAGE TO CITY WATER SYSTEM INFRASTRUCTURE

City shall be reimbursed for the time and material cost to repair damage inflicted on City water system infrastructure and for any water lost as a result of the damage. Any water lost as a result of damage to water system infrastructure shall be billed at the current second block Commercial rate.

3.7 LABORATORY ANALYSIS

City shall be reimbursed at cost for laboratory analyses performed on behalf of private parties.

3.8 CHANGE OF ACCOUNT HOLDER UPON TERMINATION OF TENANCY

Upon termination of utility service by an account holder who is a tenant, the property owner or agent thereof, shall automatically become the account holder, provided that the City has on file a written request from such property owner or agent authorizing such change. In the event that the account holder is transferred to a new account holder willing to take responsibility for all charges incurred after the most current bill, the Administrative Transfer Fee shall apply in lieu of the Service Initiation Fee.

4 Non-Metered Private Fire Services

Payable monthly, the rates for City water for private fire services when the use of a meter is not required pursuant to Section 14.12.010 of the Santa Barbara Municipal Code shall be as follows:

Size of Service	Monthly Rate Effective August 15, 2017	Monthly Rate Effective July 1, 2018	Monthly Rate Effective July 1, 2019
1″	\$2.88	\$3.01	\$3.14
1 ½"	\$3.83	\$4.03	\$4.24
2"	\$5.47	\$5.79	\$6.14
4"	\$21.45	\$23.02	\$24.70

6"	\$57.76	\$62.15	\$66.89
8"	\$120.38	\$129.65	\$139.63
10"	\$214.58	\$231.18	\$249.06
12"	\$345.13	\$371.89	\$400.73

Upon a determination that unauthorized use of water through a fire service or other private main connection has occurred, the Director may assess a fee for each HCF of such use at a rate equal to twice the rate for the first block allotment for Commercial customers.

5 Water Service Connections

All determinations of the size and location of water service connections, water main connections, and meters shall be subject to the approval of the Director. All water service connections must be installed per City standard details. If not, the customer shall be charged at a time and materials basis for the service to be brought up to City standards.

The Director may waive the fee for a service connection or main connection to the recycled water system upon a finding that such connection will promote the efficient and beneficial use of recycled water and will displace existing usage of the City's potable water supply. Fees related to water service connection to the City water system are as follows and are in addition to capacity charges established by the City Council in separate resolutions:

Type of Service Connection	Fee
Add (1) additional 5/8" or ¾" meter to an existing 1" service, where feasible:	\$1,379
1" service with a 5/8" meter:	\$3,105
1" service with a ¾" meter:	\$3,141
1" service with a 1" meter:	\$3,166
2" service with a 1 ½" meter:	\$5,389
2" service with a 2" meter:	\$5,485
1" service & manifold with two 5/8" meters installed at the time of manifold installation:	\$3,261
Add (1) additional 5/8", ¾", 1" or 1 ½" meter to an existing 2" service, where feasible:	\$1,379 per meter
2" service & manifold with multiple meters installed at the time of manifold installation:	\$5,096 plus:
5/8" meters (# of meters per manifold outlined in table below):	\$326 per meter

5.1 RETAIL WATER SERVICE CONNECTOINS

3/4" meters (# of meters per manifold outlined below):	\$362 per meter
1" meters (# of meters per manifold outlined below):	\$646 per meter
1 ½" meters (# of meters per manifold outlined below):	\$801 per meter
Over 2" service:	Sum of Connection Fee and Meter Set Fee
Abandon service	\$429 per service

Any new service installations that are greater than 4 feet deep and/or require a service trench longer than 20 feet shall be charged an additional time and materials fee.

A water service relocation of up to 5 feet or the addition of a meter to a service connection that has an existing meter, except as provided above, shall be charged at the cost of labor and materials plus overhead, provided that installation of a new service connection is not required. Water service relocations of greater than 5 feet shall require installation of a new service connection at fees as specified herein.

5.1.1 1 1/2", 1", 3/4", and 5/8" Meter Combinations Allowed on 2" Manifolds

# of 1 1/2" Meters	# of 1" Meters	# of 3/4" Meters	# of 5/8" Meters
	0	5	0
		4	2
0		3	3
0	0	2	5
		1	6
		0	8
	0	2	0
1		1	1
		0	3
1	1	0	0
	1	1	4
_		1	3
0		2	2
		3	1
		3	0
	2	0	3
0		1	1
		2	0

0 3	0	0
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5.2 FIRELINE AND PRIVATE WATER MAIN CONNECTIONS

Payable at the time of request, fees for water service main connections to the City water system, including private fire lines and other private mains, shall be as follows and shall be in addition to any applicable fees for trench inspections and encroachment permits:

CONNECTION SIZE	CONNECTION FEE			
4" MAIN (OR SMALLER)				
2"	\$1,401			
4"	\$2,337			
6"	MAIN			
2"	\$1,401			
4"	\$2,486			
6"	\$2,743			
8"	MAIN			
2"	\$1,401			
4"	\$1,999			
6"	\$2,935			
8 " \$3,611				
10"	MAIN			
2"	\$1,401			
4"	\$2,002			
6"	3,043			
8"	\$3,342			
10"	\$3,988			
12" MAIN				
2"	\$1,401			
4"	\$2,047			
6"	\$2,186			
8" \$3,510				

10"	\$4,207
12"	\$4,322

Fees for other combinations shall be charged at the cost of labor and materials, plus overhead. The fees for water service main connections shall include only the materials (tee, valve, and valve box) and labor for tapping into the City water system. Contractor is responsible for excavation of the existing water main, traffic control, pipe extension, backfilling, paving, backflow device with in-line detector meter and any other costs. In the event the existing water main or water service main connection is damaged during attachment, an additional fee of \$225 per lineal foot of water line needing repair or replacement shall be charged to the person(s) who caused such damage.

5.3 REVIEW AND INSPECTION FEES

5.3.1 Water Distribution

Fee Key	Fee	Fee Amount
5.3.1.1	Plan Review Fee	\$129/Hour
5.3.1.2	Pre Work Order Inspection Fee	\$126/Visit
5.3.1.3	Inspection Fee	\$126/Visit

5.3.2 Backflow Assemblies

Backflow assemblies are required for all private fireline connections and fire sprinklers, all private water main connections, all dedicated irrigation meters, and as dictated by the City building codes. Backflow devices shall be tested immediately after they are installed and then annually by a certified backflow tester. Payable at time of request, fees for plan review shall be as follows:

Fee Key	Description	Fee Amount
5.3.2.1	Backflow Plan Review – Firelines & Private Mains	\$128
5.3.2.2	Backflow Plan Review – Retail Meters	\$64
5.3.2.3	Backflow Inspection – Firelines & Private Mains	\$557
5.3.2.4	Backflow Inspection – Retail Meters	\$258
5.3.2.5	Enforcement Fee – 3rd Notice to Test	\$109
5.3.2.6	Enforcement Fee – Shutoff/Turn-on	\$222
5.3.2.7	Supplemental Backflow Inspection Fee	\$195/Visit

6 Setting and Pulling of Water Meters, Temporary Fire Hydrant Meters, and Temporary Recycled Water Meters

Fees related to setting and pulling of water meters, temporary fire hydrant meters and temporary recycled water meters shall be as follows:

6.1 METER SETTING AND PULLING

Fee Key	Description	Fee Amount
6.1.1	5/8" meter	\$163
6.1.2	3/4" meter	\$198
6.1.3	1" meter	\$482
6.1.4	1 1/2" meter	\$637
6.1.5	2" meter	\$733
6.1.6	3" meter and above	Time and Materials

6.2 METER REDUCTIONS

Fee Key	Description	Fee Amount
6.2.1	Reduction from 1" or 3/4" to 3/4" or 5/8"	\$207
6.2.2	Reduction from 1½" or 2" to 1½", 1", or 5/8" or 3/4"	\$416
6.2.3	Other reductions	Time and Materials

6.3 INCREASE IN METER SIZE

An enlargement of water service pipes and meters shall be charged before work order issuance at the regular charges set by Resolution pursuant to Section 14.08.050 of the Santa Barbara Municipal Code.

6.4 REPLACEMENT OF AN EXISTING METER WITH A METER OF LARGER SIZE

Replacement of an existing meter with a meter of larger size, where a larger service to the meter is not required:

Fee Key	Size of New Meter	Amount
6.4.1	3/4" or 1" meter	\$833
6.4.2	1½" meter	\$1,199
6.4.3	2" meter	\$1,605
A1	Other increases	Cost plus overhead

6.5 MOBILE METERS

The following fees and deposits shall be assessed and collected for mobile meters, including temporary fire hydrant meters, and meters installed on water trucks or trailers:

Fee Key	Description	Amount
	Deposit (collected prior to meter installation)	\$2,026
6.5.1	Any other equipment	\$78
6.5.2	Fee to install, remove, and complete backflow testing, or relocate a mobile meter	\$129

6.5.3	Fee to install and remove, or relocate a mobile recycled water meter	\$111
	Fixed Monthly Service Charge	Per Section 2.A.1.
	Metered water	For potable water, charged at the prevailing first block rate for commercial customers. For recycled water, charged at the prevailing unit rate for recycled water customers.

Water sold via mobile water meters cannot be re-sold to any private entity or used outside of the City water service area.

A charge will be deducted from the meter deposit for any damaged or missing equipment, and for assumed water use if the meter is returned in an inoperable or damaged condition. In such cases all relevant documentation, including but not limited to, log sheets and application use estimates shall be used to estimate water use.

Per Santa Barbara Municipal Code 14.25.040, only City staff may install, remove, or relocate mobile meters on, from, or to a fire hydrant. A violation is punishable as an infraction with a penalty of \$250 to \$500.

7 Effective Date

Rates and charges specified herein shall be effective July 1, 2020.

Attachment 5: Notifications

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May 3, 3021

City

Public Works Department

City of Santa Barbara

SantaBarbaraCA.gov

March 23, 2021

Main Office

630 Garden Street P.O. Box 1990 Santa Barbara, CA 93102-1990

Tel: (805) 564-5377 Fax: (805) 897-2613

Engineering

Tel: (805) 564-5363 Fax: (805) 564-5467

Facilities & Energy Management

Tel: (805) 564-5583 Fax: (805) 897-2577

Fleet Management

Tel: (805) 564-5402 Fax: (805) 897-2515

Streets Operations & Infrastructure Management

Tel: (805) 564-5454

Transportation Planning

& Parking

Tel: (805) 564-5385 Fax: (805) 564-5467

Water Resources

Tel: (805) 564-5387 Fax: (805) 897-1991

Ray Stokes Central Coast Water Authority 255 Industrial Way Buellton, CA 93427

Subject: Notice of Public Hearing on the City of Santa Barbara Draft 2020 Urban Water Management Plan, Draft 2021 Water Shortage Contingency Plan, and Draft Appendix O to the 2015 UWMP

Dear Mr. Stokes,

The City of Santa Barbara (City), as required every five years, is preparing its 2020 Urban Water Management Plan (UWMP) in compliance with the Urban Water Management Planning Act and the Water Conservation Act of 2009, commonly referred to as SBX7-7. The City's 2020 UWMP, titled the Enhanced Urban Water Management Plan, will include results of the City's recently updated long range water supply planning efforts, and reflect the growth that has occurred since the adoption of the 2015 UWMP; forecasted growth within its service area; the City's plan to reliably meet the water needs within its service area; and compliance with the SB X7-7.

The City is also updating and re-adopting its Water Shortage Contingency Plan (WSCP), which will be included as part of the 2020 UWMP. This document will describe how the City will respond to foreseeable and unforeseeable water shortages. In addition, City is preparing an appendix to both the 2015 UWMP and 2020 UWMP to demonstrate consistency with the Delta Plan Policy WR P1, Reduced Reliance on the Delta Through Improved Regional Water Self-Reliance (California Code Reg., tit.23, §5003). The 2015 UWMP is being amended only to report reduced reliance on the Delta and this action is separate from adoption of the 2020 UWMP and adoption of the 2021 WSCP.

The City is required to notify cities and counties within its service area that it is preparing its 2020 UWMP, 2021 WSCP, and Appendix O of the 2015 UWMP at least 60 days prior to holding a public hearing. This letter serves as City's official public hearing notice and intent to adopt the 2020 UWMP, 2021 WSCP, and Appendix O of the 2015 UWMP before the July 1, 2021 deadline.

A copy of the City's draft 2020 EUWMP and WSCP will be available for review on the City's website (<u>www.SantaBarbaraCA.gov/WaterVision</u>) by May 6, 2021. The City plans to have its public hearing to receive comments on the draft 2020 UWMP and WSCP on May 25, 2021, prior to adoption of the plans. The public hearing will be held at 2:00 PM via teleconference.

If you have any questions, comments, or input, please contact Dakota Corey, Water Supply Analyst, via email at Dcorey@SantaBarbaraCA.gov or by phone at (805) 564-5369.

Catherine Taylor Water Supply and Service Manager



May 3, 3021

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Water Resources

Tel: (805) 564-5387 Fax: (805) 897-1991

Janet Gingras Cachuma Operations and Maintenance Board 3301 Laurel Canyon Road Santa Barbara, CA 93105

City of Santa Barbara

Subject: Notice of Public Hearing on the City of Santa Barbara Draft 2020 Urban Water Management Plan, Draft 2021 Water Shortage Contingency Plan, and Draft Appendix O to the 2015 UWMP

Dear Ms. Gingras,

The City of Santa Barbara (City), as required every five years, is preparing its 2020 Urban Water Management Plan (UWMP) in compliance with the Urban Water Management Planning Act and the Water Conservation Act of 2009, commonly referred to as SBX7-7. The City's 2020 UWMP, titled the Enhanced Urban Water Management Plan, will include results of the City's recently updated long range water supply planning efforts, and reflect the growth that has occurred since the adoption of the 2015 UWMP; forecasted growth within its service area; the City's plan to reliably meet the water needs within its service area; and compliance with the SB X7-7.

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Catherine Taylor Water Supply and Service Manager



May 3, 3021

City of

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Water Resources

Tel: (805) 564-5387 Fax: (805) 897-1991

Matt Young Santa Barbara County Water Agency 130 E. Victoria Street, Suite 200 Santa Barbara, CA 93101

Subject: Notice of Public Hearing on the City of Santa Barbara Draft 2020 Urban Water Management Plan, Draft 2021 Water Shortage Contingency Plan, and Draft Appendix O to the 2015 UWMP

Dear Mr. Young,

The City of Santa Barbara (City), as required every five years, is preparing its 2020 Urban Water Management Plan (UWMP) in compliance with the Urban Water Management Planning Act and the Water Conservation Act of 2009, commonly referred to as SBX7-7. The City's 2020 UWMP, titled the Enhanced Urban Water Management Plan, will include results of the City's recently updated long range water supply planning efforts, and reflect the growth that has occurred since the adoption of the 2015 UWMP; forecasted growth within its service area; the City's plan to reliably meet the water needs within its service area; and compliance with the SB X7-7.

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May 3, 3021

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Tel: (805) 564-5387 Fax: (805) 897-1991

Robert McDonald Carpinteria Valley Water District 1301 Santa Ynez Avenue Carpinteria, CA 93013

Subject: Notice of Public Hearing on the City of Santa Barbara Draft 2020 Urban Water Management Plan, Draft 2021 Water Shortage Contingency Plan, and Draft Appendix O to the 2015 UWMP

Dear Mr. McDonald,

The City of Santa Barbara (City), as required every five years, is preparing its 2020 Urban Water Management Plan (UWMP) in compliance with the Urban Water Management Planning Act and the Water Conservation Act of 2009, commonly referred to as SBX7-7. The City's 2020 UWMP, titled the Enhanced Urban Water Management Plan, will include results of the City's recently updated long range water supply planning efforts, and reflect the growth that has occurred since the adoption of the 2015 UWMP; forecasted growth within its service area; the City's plan to reliably meet the water needs within its service area; and compliance with the SB X7-7.

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Catherine Taylor Water Supply and Service Manager



May 3, 3021

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Transportation Planning

& Parking

Tel: (805) 564-5385 Fax: (805) 564-5467

Water Resources

Tel: (805) 564-5387 Fax: (805) 897-1991 John McInnes Goleta Water District 4699 Hollister Avenue Goleta, CA 93110

Subject: Notice of Public Hearing on the City of Santa Barbara Draft 2020 Urban Water Management Plan, Draft 2021 Water Shortage Contingency Plan, and Draft Appendix O to the 2015 UWMP

Dear Mr. McInnes,

The City of Santa Barbara (City), as required every five years, is preparing its 2020 Urban Water Management Plan (UWMP) in compliance with the Urban Water Management Planning Act and the Water Conservation Act of 2009, commonly referred to as SBX7-7. The City's 2020 UWMP, titled the Enhanced Urban Water Management Plan, will include results of the City's recently updated long range water supply planning efforts, and reflect the growth that has occurred since the adoption of the 2015 UWMP; forecasted growth within its service area; the City's plan to reliably meet the water needs within its service area; and compliance with the SB X7-7.

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Catherine Taylor Water Supply and Service Manager



May 3, 3021

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Transportation Planning

& Parking

Tel: (805) 564-5385 Fax: (805) 564-5467

Water Resources

Tel: (805) 564-5387 Fax: (805) 897-1991 Paeter Garcia Santa Ynez River Water Conservation District Improvement District No. 1 PO Box 157 Santa Ynez, CA 93460

Subject: Notice of Public Hearing on the City of Santa Barbara Draft 2020 Urban Water Management Plan, Draft 2021 Water Shortage Contingency Plan, and Draft Appendix O to the 2015 UWMP

Dear Mr. Garcia,

The City of Santa Barbara (City), as required every five years, is preparing its 2020 Urban Water Management Plan (UWMP) in compliance with the Urban Water Management Planning Act and the Water Conservation Act of 2009, commonly referred to as SBX7-7. The City's 2020 UWMP, titled the Enhanced Urban Water Management Plan, will include results of the City's recently updated long range water supply planning efforts, and reflect the growth that has occurred since the adoption of the 2015 UWMP; forecasted growth within its service area; the City's plan to reliably meet the water needs within its service area; and compliance with the SB X7-7.

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Catherine Taylor Water Supply and Service Manager


Appendix E - Notifications PUBLIC DRAFT

May 3, 3021

City

Public Works Department

City of Santa Barbara

SantaBarbaraCA.gov

March 23, 2021

Main Office

630 Garden Street P.O. Box 1990 Santa Barbara, CA 93102-1990

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Tel: (805) 564-5387 Fax: (805) 897-1991

Nick Turner Montecito Water District 583 San Ysidro Road Montecito, CA 93108

> Subject: Notice of Public Hearing on the City of Santa Barbara Draft 2020 Urban Water Management Plan, Draft 2021 Water Shortage Contingency Plan, and Draft Appendix O to the 2015 UWMP

Dear Mr. Turner,

The City of Santa Barbara (City), as required every five years, is preparing its 2020 Urban Water Management Plan (UWMP) in compliance with the Urban Water Management Planning Act and the Water Conservation Act of 2009, commonly referred to as SBX7-7. The City's 2020 UWMP, titled the Enhanced Urban Water Management Plan, will include results of the City's recently updated long range water supply planning efforts, and reflect the growth that has occurred since the adoption of the 2015 UWMP; forecasted growth within its service area; the City's plan to reliably meet the water needs within its service area; and compliance with the SB X7-7.

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Sincerely,

Catherine Taylor Water Supply and Service Manager

From:	Dakota Corey		
То:	Bob McDonald; Nicholas Turner; John McInnes; Ryan Drake; Paeter Garcia; Ray Stokes; John L. Brady; Ja		
	Gingras; pcantle@ccrb-board.org; mjackson@usbr.gov		
Cc:	Rob Morrow; Catherine Taylor		
Subject:	Notice of Public Hearing (Pursuant to California Water Code, Section 10642)		
Date:	Monday, May 3, 2021 4:20:36 PM		

NOTICE IS HEREBY GIVEN that the City Council of the City of Santa Barbara will conduct a Public Hearing on Tuesday, May 25, 2021, during the afternoon session of the meeting, which begins at 2:00 p.m. The meeting will be conducted electronically. On Thursday, May, 20, 2021 an Agenda with all items to be heard on Tuesday, May 25, 2021 will be available online at www.SantaBarbaraCA.gov/CAP. The Agenda includes instructions for participation in the meeting. If you wish to participate in the public hearing, please follow the instructions on the posted Agenda.

The hearing is to consider the adoption of the City of Santa Barbara 2020 Enhanced Urban Water Management Plan, addendum to the 2015 Urban Water Management Plan, and 2021 Water Shortage Contingency Plan, according to the requirements of California Water Code Division 6, Part 2.6, Chapter 3, commencing with § 10620. A copy of the proposed Enhanced Urban Water Management Plan is available for public review online at <u>www.SantaBarbaraCA.gov/WaterVision</u>. The preparation and adoption of the Enhanced Urban Water Management Plan is exempt from the California Environmental Quality Act under California Water Code § 10652.

You are invited to attend this public hearing and address your verbal comments to the City Council. Written comments are also welcome up to the time of the hearing, and should be addressed to the City Council via the City Clerk's Office by sending them electronically to <u>Clerk@SantaBarbaraCA.gov</u>. In order to promote social distancing and prioritize the public's health and well-being, the City Council currently holds all meetings electronically. As a public health and safety precaution, the council chambers will not be open to the general public. Councilmembers and the public may participate electronically.

Please feel free to direct any questions to me.

Best,

Administrative Analyst II
 CITY OF SANTA BARBARA, Public Works
 (805) 564-5369 | dcorey@SantaBarbaraCA.gov
 SantaBarbaraCA.gov

a Corey	
tfayram@cosbpw.net; Young, Matt	
lorrow; Catherine Taylor	
Notice of Public Hearing (Pursuant to California Water Code, Section 10642)	
ay, May 3, 2021 4:12:57 PM	

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Best,

?	Dakota Corey
	Administrative Analyst II
	CITY OF SANTA BARBARA, Public Works
	(805) 564-5369 dcorev@SantaBarbaraCA.gov
	SantaBarbaraCA.gov

PUBLIC NOTICE City of Santa Barbara

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(SEAL)

Sarah Gorman, MMC City Clerk Services Manager 5/12/2021

Published May 12 and May 19, 2021 Montecito Journal

CITY OF SANTA BARBARA CITY COUNCIL

Cathy Murillo Mayor

Oscar Gutierrez *Mayor Pro Tempore*

Mike Jordan Ordinance Committee Chair

Eric Friedman *Finance Committee Chair*

Alejandra Gutierrez Meagan Harmon Kristen Sneddon



Paul Casey City Administrator

Ariel Pierre Calonne City Attorney

City Hall 735 Anacapa Street <u>http://www.SantaBarbaraCA.gov</u>

MAY 25, 2021, 2:00 PM AGENDA

IN ORDER TO PROMOTE SOCIAL DISTANCING AND PRIORITIZE THE PUBLIC'S HEALTH AND WELL-BEING, THE GOVERNOR OF THE STATE OF CALIFORNIA ISSUED EXECUTIVE ORDER N-29-20, WHICH ALLOWS THE CITY COUNCIL TO HOLD MEETINGS VIA TELECONFERENCES OR OTHER ELECTRONIC MEETING FORMAT WHILE STILL MEETING THE STATE'S OPEN AND PUBLIC MEETING REQUIREMENTS. AS A PUBLIC HEALTH AND SAFETY PRECAUTION, THE COUNCIL CHAMBERS WILL NOT BE OPEN TO THE GENERAL PUBLIC. COUNCILMEMBERS MAY PARTICIPATE ELECTRONICALLY. THE CITY OF SANTA BARBARA STRONGLY ENCOURAGES AND WELCOMES PUBLIC PARTICIPATION DURING THIS TIME. PUBLIC PARTICIPATION IS AVAILABLE THROUGH THE FOLLOWING OPTIONS:

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WEBINAR ID: 585-713-555

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MAY 25, 2021 AGENDA

ORDER OF BUSINESS

12:30 p.m. - Ordinance Committee Meeting, Council Chamber

ELECTRONIC PARTICIPATION: Register to Join Meeting Electronically at: https://attendee.gotowebinar.com/register/7524369701155483917

WEBINAR ID: 269-631-219

2:00 p.m. - City Council Meeting

ELECTRONIC PARTICIPATION: Register to Join Meeting Electronically at: https://attendee.gotowebinar.com/register/2144419723879283726

WEBINAR ID: 585-713-555

4:00 p.m. - Advisory Group Interviews (estimated time)

ORDINANCE COMMITTEE MEETING - 12:30 P.M. IN THE COUNCIL CHAMBER (120.03)

Subject: Proposed Ordinance Enacting A Prohibition Of Natural Gas Infrastructure In New Construction (630.02)

Recommendation: That Ordinance Committee forward to Council for introduction an Ordinance of the Council of the City of Santa Barbara Amending the Santa Barbara Municipal Code by Adding Chapter 22.100 Prohibiting Natural Gas Infrastructure in New Buildings, along with a Recommendation to Adopt.

REGULAR CITY COUNCIL MEETING – 2:00 P.M.

CALL TO ORDER

PLEDGE OF ALLEGIANCE

ROLL CALL

CHANGES TO THE AGENDA

PUBLIC COMMENT

CONSENT CALENDAR

1. Subject: Adoption Of Ordinance Amendments Related To The Architectural Board Of Review, Single Family Design Board, And Sign Committee Consistent With Revised Historic Resources Ordinance Amendments (630.02)

Recommendation: That Council:

- A. Adopt, by reading of title only, an Ordinance of the Council of the City of Santa Barbara Amending Sections 22.68.045 and 22.68.100 of the Santa Barbara Municipal Code Pertaining to the Architectural Board of Review Project Compatibility Analysis and Appeal to Council – Notice and Hearing and Finding the Project to Be Exempt from CEQA Pursuant to CEQA Guideline 15061(B)(3);
- B. Adopt, by reading of title only, an Ordinance of the Council of the City of Santa Barbara Amending Section 22.69.080 of the Santa Barbara Municipal Code Pertaining to the Single Family Design Board Appeal to Council – Notice and Hearing and Finding the Project to Be Exempt from CEQA Pursuant to CEQA Guideline 15061(B)(3); and
- C. Adopt, by reading of title only, an Ordinance of the Council of the City of Santa Barbara Amending Section 22.70.050 of the Santa Barbara Municipal Code Pertaining to Sign Permits and Finding the Project to Be Exempt from CEQA Pursuant to CEQA Guideline 15061(B)(3).

2. Subject: Adoption Of Amendments To The Santa Barbara Municipal Code And Zoning Map Related To The Historic Resources Ordinance And The Historic Resource Design Guidelines (640.06)

Recommendation: That Council adopt, by reading of title only, an Ordinance of the Council of the City of Santa Barbara Amending the Santa Barbara Municipal Code by Adding Chapters 30.57, 30.157, and 30.237; Adding Sections 30.200.080, 30.220.020, 30.220.030, 30.220.040; and 30.300.080 Subsection H to Establish Procedures for Protecting Historic Resources.

3. Subject: Adoption Of A Resolution Approving Santa Barbara Clean Energy Administrative Policies (630.02)

Recommendation: That Council adopt, by reading of title only, a Resolution of the Council of the City of Santa Barbara Approving Santa Barbara Clean Energy Administrative Policies Related to Customer Privacy, Cost Confidentiality and Collections.

4. Subject: April 2021 Investment Report (260.02)

Recommendation: That Council accept the April 2021 Investment Report.

5. Subject: Parking And Business Improvement Area Annual Assessment Report For Fiscal Year 2022 – Intention To Levy (550.1)

Recommendation: That Council:

- A. Approve the Parking And Business Improvement Area Annual Assessment Report 2022; and
- B. Adopt, by reading of title only, a Resolution of the Council of the City of Santa Barbara Declaring Council's Intention to Levy Parking and Business Improvement Area Assessment Rates for Fiscal Year 2022, at a Public Hearing to be Held on June 8, 2021, at 2:00 p.m.

6. Subject: Amendment To Settlement Agreement Of Design, Build, Operate Contract With IDE Americas, Inc. For The Charles E. Meyer Desalination Plant (540.1)

- A. That Council authorize the Acting Public Works Director to execute the First Amendment to Settlement Agreement with IDE Americas, Inc. related to construction of repairs to the raw water intake pipeline serving the Charles E. Meyer Desalination Plan; and
- B. Approve an increase in estimated revenue and appropriations in the Water Capital Fund in the amount of \$2,404,779, funded from monies paid to the City of Santa Barbara from IDE Americas, Inc. as a term of the Amendment to the Settlement Agreement.

7. Subject: Authorization To Execute \$1.5 Million Grant Funding Agreement For The Desalination Product Water Pump Station Upgrades Project (540.1)

Recommendation: That Council adopt, by reading of title only, a Resolution of the Council of the City of Santa Barbara Authorizing the Public Works Director to Negotiate and Execute a Grant Funding Agreement with the Federal Bureau of Reclamation for the Charles E. Meyer Desalination Plant Product Water Pump Station Upgrades Project.

8. Subject: Increase Grant Funding And Authorize Additional Work For The Cabrillo Boulevard And Union Pacific Railroad Bridge Project And The Los Patos Undercrossing Replacement Project (530.04)

- A. Authorize the City Administrator to sign Amendment No. 5 to the Memorandum of Understanding with the Santa Barbara County Association of Governments to increase the funding from the Santa Barbara County Association of Governments by \$103,862, from \$4,121,000 to \$4,224,862, for work to complete 30 percent design of the Los Patos Undercrossing Replacement Project, and separate the Cabrillo Boulevard and Union Pacific Railroad Bridge Project into two separate construction projects;
- B. Authorize the Public Works Director to execute Amendment No. 3 to the City Professional Services Agreement No. 26,031 with T.Y. Lin International in the amount of \$942,113 for design services, and authorize the Public Works Director to approve expenditures of up to \$94,212 for extra services of T.Y. Lin International that may result from necessary changes in the scope of work; and
- C. Approve an increase in appropriations and estimated revenues in the Streets Grant Capital Fund in the amount of \$103,862, funded by grant funds from the Santa Barbara County Association of Governments, for the Cabrillo Boulevard and Union Pacific Railroad Bridge Project and the Los Patos Undercrossing Replacement Project.

9. Subject: Reallocation Of Community Development Block Grant Funds From Housing Rehabilitation Loan Program To Other Eligible Uses (610.05)

Recommendation: That Council:

- A. Approve reallocation of \$361,715.53 in Community Development Block Grant (CDBG) funds from Program Year 2014; and
- B. Authorize the Interim Community Development Director to execute, subject to approval as to form by the City Attorney, an Amendment to Agreement No. 26,710 with the Parks and Recreation Department increasing the CDBG grant by \$95,100; and
- C. Authorize the Interim Community Development Director to execute, subject to approval as to form by the City Attorney, an Amendment to Agreement No. 26,711 with the Parks and Recreation Department increasing the CDBG grant by \$50,000; and
- D. Authorize the Interim Community Development Director to execute, subject to approval as to form by the City Attorney, an Amendment to Agreement No. 26,709 with the Parks and Recreation Department increasing the CDBG grant by \$90,373; and
- E. Authorize the Interim Community Development Director to execute, subject to approval as to form by the City Attorney, an Amendment to Agreement No. 26,450 with the Parks and Recreation Department increasing the CDBG grant by \$22,442.53; and
- F. Authorize the Interim Community Development Director to execute, subject to approval as to form by the City Attorney, an Amendment to Agreement No. 26,452 with Cliff Drive Care Center increasing the CDBG grant by \$103,800.

10. Subject: Homeless Emergency Aid Program (HEAP) Grant Agreement Amendments (660.04)

- A. Authorize the Interim Community Development Director to execute, subject to approval as to form by the City Attorney, an Amendment to Agreement No. 26,456A between the City and Santa Barbara Cottage Hospital decreasing the contract by \$113,000 for the SB Connect Home Program; and
- B. Authorize the Interim Community Development Director to execute, subject to approval as to form by the City Attorney, an Amendment to Agreement No. 26,394A between the City and City Net increasing the contract by \$113,000 for the SB Connect Home Program.

11. Subject: Bequest From The Trust Of Dorothy Holland-Kaupp To The City Of Santa Barbara Public Library (570.04)

Recommendation: That Council adopt, by reading of title only, a Resolution of the Council of the City of Santa Barbara Accepting a Donation from the Trust of Dorothy Holland-Kaupp in the Sum of or Around \$100,000 for the Exclusive Use and Benefit of the Santa Barbara Public Library.

SUCCESSOR AGENCY

12. Subject: Transfer And Appropriation Of Funds And Approval Of A Professional Services Agreement With RRM Design Group For The Chase Palm Park Arbor Project (570.05)

Recommendation: That the Successor Agency:

Approve a conveyance to the City of Santa Barbara's General Capital Outlay Fund in the amount of \$835,000 from the Successor Agency Capital Fund, funded from existing appropriations for the Chase Palm Park Arbor Project.

That the City Council:

Receive a conveyance of \$835,000 from the Successor Agency Capital 1. Fund, increase the estimated revenues and appropriate the full \$835,000 in the General Capital Outlay Fund for the Chase Palm Park Arbor Project; and 2. Authorize the Parks and Recreation Director to execute a professional services agreement with RRM Design Group in the amount of \$101,419 for architectural and engineering design services for the Chase Palm Park Arbor Project to be paid for from the General Capital Outlay Fund.

CONSENT PUBLIC HEARING

13. Subject: Enhanced Urban Water Management Plan And Water Shortage **Contingency Public Hearing (540.08)**

Recommendation: That Council:

- Hold a Public Hearing to review the Public Draft of the City's 2020 Enhanced Α. Urban Water Management Plan;
- Hold a Public Hearing to review the Public Draft of the City's 2021 Water Β. Shortage Contingency Plan;
- Hold a Public Hearing to review the Public Draft addendum to the City's C. 2015 Urban Water Management Plan; and
- Confirm the City's adoption of and compliance with a 2020 water use target D. of 117 gallons per capita per day, per legislative requirements of the Water Conservation Act of 2009 (SBX7-7), determined in Section 5 of the Urban Water Management Plan.

This concludes the Consent Calendar.

REPORT FROM THE ORDINANCE COMMITTEE

MAYOR AND COUNCIL REPORTS

14. Subject: Councilmember Sneddon And Mayor Pro Tempore Oscar Gutierrez Requesting A Presentation From Healing Justice And Local Black Organizations On Benefits Of A Black/African-American Cultural Resource Center (120.02)

Recommendation: That Council consider the request from Councilmember Sneddon and Mayor Pro Tempore Oscar Gutierrez requesting a presentation from Healing Justice Santa Barbara and a collective of local Black organizations and leaders on the multiple benefits of a Black/African American Cultural Resource Center.

CITY ADMINISTRATOR

15. Subject: Santa Barbara's Economic Development Plan (650.11)

Recommendation: That Council review and adopt a three year Economic Development Plan.

MAYOR AND COUNCIL REPORTS

16. Subject: Semi-Annual Interviews For City Advisory Groups (Not Including State Street Advisory Committee) (Est. time: 4:00 p.m.) (140.05)

Recommendation: That Council:

- A. Hold interviews of applicants to various City Advisory Groups; and
- B. Continue interviews of applicants to June 8, and June 15, 2021. (Est. time 4:00 p.m.)

CLOSED SESSIONS

17. Subject: Conference With City Attorney -- Anticipated Litigation -- Gov. Code § 54956.9(d)(4): Initiation Of Litigation On One Matter (160.03)

Recommendation: That Council hold a closed session to consider initiating litigation pursuant to subsection (d)(4) of Section 54956.9 of the Government Code and take appropriate action as needed. (one potential case).

Scheduling: Duration, 30 minutes; anytime Report: None anticipate

18. Subject: Conference With City Attorney -- Anticipated Litigation -- Gov. Code § 54956.9(d)(2) & (e)(3) (160.03)

Recommendation: That Council hold a closed session to consider significant exposure to litigation (one potential case) pursuant to Government Code Section 54956.9(d)(2) & (e)(3) and take appropriate action as needed.

The anticipated litigation is based upon significant exposure arising out of the May 13, 2021 litigation threat from the Santa Barbara Rental Property Association though the law firm of Fisher Broyles.

Scheduling: Duration: 15 minutes; anytime Report: None anticipated

19. Subject: Conference With City Attorney -- Existing Litigation -- Gov. Code § 54956.9(d)(1) and -- Anticipated Litigation -- Gov. Code § 54956.9(d)(4): Initiation Of Litigation On One Matter (160.03)

Recommendation: That Council hold a closed session to consider pending litigation pursuant to subsection (d)(1) of section 54956.9 of the Government Code and take appropriate action as needed.

The pending litigation is Theodore P. Kracke v. City of Santa Barbara, COA Case No. B300528; VSC Case No. 56-2016-00490376-CU-WM-VTA.

That Council hold a closed session to consider initiating litigation pursuant to subsection (d)(4) of Section 54956.9 of the Government Code and take appropriate action as needed. (one potential case).

Scheduling: Duration, 15 minutes; anytime Report: None anticipated

ADJOURNMENT

Attachment 6: Resolution Approving the WSCP

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CITY OF SANTA BARBARA CITY COUNCIL

Cathy Murillo Mayor

Oscar Gutierrez *Mayor Pro Tempore*

Mike Jordan Ordinance Committee Chair

Eric Friedman *Finance Committee Chair*

Alejandra Gutierrez Meagan Harmon Kristen Sneddon



Paul Casey City Administrator

Ariel Pierre Calonne City Attorney

City Hall 735 Anacapa Street <u>http://www.SantaBarbaraCA.gov</u>

JUNE 29, 2021, 2:00 PM AGENDA

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WEBINAR ID: 949-641-523

6:00 p.m. - State Street Advisory Committee Applicant Interviews (Time Certain)

REGULAR CITY COUNCIL MEETING – 2:00 P.M.

CALL TO ORDER

PLEDGE OF ALLEGIANCE

ROLL CALL

CHANGES TO THE AGENDA

PUBLIC COMMENT

CONSENT CALENDAR

1. Subject: An Ordinance Repealing Chapter 22.22 Of The Santa Barbara Municipal Code Pertaining To Historic Structures And Amending Santa Barbara Municipal Code Sections 22.68.015 And 22.69.015 To Include The Definition Of Project Design Approval (640.06)

Recommendation: That Council, introduce and subsequently adopt, by reading of title only, an Ordinance of the Council of the City of Santa Barbara Repealing Chapter 22.22 of the Santa Barbara Municipal Code Pertaining to Historic Structures and Amending Santa Barbara Municipal Code Sections 22.68.015 and 22.69.015 to Include the Definition of Project Design Approval.

2. Subject: Authorize A Contract With BAE Urban Economics For An Economic Feasibility Study And Introduce Amendments To SBMC Chapter 30.150 To Extend The Duration Of The Average Unit-Size Density Incentive Program (660.06)

- A. Make the California Environmental Quality Act findings contained in this Council Agenda Report;
- B. Introduce and subsequently adopt, by reading of title only, an Ordinance of the Council of the City of Santa Barbara Amending Santa Barbara Municipal Code Section 30.150.010 of the City's Average Unit-Size Density Incentive Program to Extend the Program from August 31, 2021 to February 28, 2022;
- C. Authorize the Community Development Director to execute a Professional Services Agreement contract with BAE Urban Economics in the amount notto-exceed \$70,000 for an economic feasibility study of proposed multi-unit housing standards and related affordable housing requirements; and
- D. Increase appropriations and estimated revenues in the Fiscal Year 2022 Community Development Miscellaneous Grants Fund in the amount of \$70,000, funded by the Regional Early Action Planning Grant.

3. Subject: Introduction Of Ordinance For Average Unit-Size Density Incentive Program Ordinance Amendments Related To Clarifying Rental Inclusionary Rates And Mobilehome Parks (640.09)

Recommendation: That Council introduce and subsequently adopt, by reading of title only, an Ordinance of the Council of the City of Santa Barbara Amending Santa Barbara Municipal Code Section 30.150.090 and 30.150.110 of the City's Average Unit-Size Density Incentive Program to Exclude Mobilehome Parks from Development Under the Program and Clarify That Rental Units Must Be Rented at Moderate Income Levels.

4. Subject: Adoption Of The Fee Schedule For Fiscal Year 2022 (210.01)

Recommendation: That Council adopt, by reading of title only, a Resolution of the Council of the City of Santa Barbara Amending the City of Santa Barbara Schedule of Penalties, Fees, Rates and Service Charges.

5. Subject: Updated Sales Or Transactions And Use Tax Records Disclosure Designations For The Finance Director To Review Tax Records And Authorize Muniservices, LLC To Review Tax Records On Behalf Of The City (210.01)

Recommendation: That Council:

- A. Adopt, by reading of title only, a Resolution of the Council of the City of Santa Barbara Authorizing Examination of Sales or Transactions and Use Tax Records; and
- B. Approve the Second Amendment and Novation Agreement for Sales and Use Tax Services, Assigning the Agreement with Municipal Resource Consultant to Muniservices.

6. Subject: May 2021 Investment Report (260.02)

Recommendation: That Council accept the May 2021 Investment Report.

7. Subject: Allocation Of Awarded California Department Of Resources Recycling And Recovery Grant Funds Reimbursement For Household Hazardous Waste Collection And Education (630.12)

Recommendation: That Council approve the allocation of \$10,000 in Fiscal Year 2022 of the City's California Department of Resources Recycling and Recovery Grant to fund staff costs related to grant administration and implementation of Household Hazardous Waste Collection and Education.

8. Subject: Best Interest Waiver For The Purchase Of A New Wastewater Collection Video Inspection Vehicle And Hardware System (540.13)

Recommendation: That Council:

- A. Find it in the City's best interest to waive the formal bid process as authorized by Municipal Code Section 4.52.070(L) and authorize the General Services Manager to issue a purchase order to Haaker Equipment Company in the amount of \$298,274 for the purchase, assembly, and delivery of one custom Wastewater Collection Video Inspection Vehicle and Hardware System;
- B. Authorize the General Services Manager to approve expenditures up to \$15,000 to cover any cost increases that may result from contract change orders for extra work or from necessary changes in the scope, for a total expenditure authority of \$313,274; and
- C. Approve the transfer of available appropriations in the Sanitary Sewer Overflow Compliance Project in the amount of \$244,328 from the Wastewater Capital Fund to the Fleet Replacement Fund, and approve an increase in appropriations and estimated revenue in the Fleet Replacement Fund in the amount of \$244,328 in Fiscal Year 2021, funded by the transfer, for the purchase of the Wastewater Collection Video Inspection Vehicle and Hardware System.

9. Subject: Authorization To Amend Agreement With Best Best & Krieger LLP For Special Appellate Counsel Support (160.01)

Recommendation: That Council:

- A. Authorize the City Attorney to execute an amendment to the legal services agreement with Best Best & Krieger, LLP, for special appellate support in Theodore P. Kracke v. City of Santa Barbara Ventura County Superior Court 56-2016-00490376-CU-WM-VTA, increasing the contract amount by \$25,000; and
- B. Increase appropriations in the Fiscal Year 2022 City Attorney's Office budget from the General Fund Reserve for Contingencies in the amount of \$25,000.

10. Subject: Amendment Of Professional Services Agreement With Hiltachk Marketing Group (560.09)

- A. Authorize the Airport Director to amend Professional Services Agreement No. 25,939 with Hiltachk Marketing Group for one additional year of services, and increase the contract amount by \$100,000.
- B. Approve an increase in FY 2021 appropriations in the Airport Operating Fund in the amount of \$100,000, funded from reserves, for the services of Hiltachk Marketing Group.

11. Subject: Contract For Airport Poly- And Per-Fluoroalkyl Substance (PFAS) Investigation Efforts (560.01)

Recommendation: That Council:

- A. Authorize the Airport Director to execute a Professional Services Agreement with GSI Environmental, Inc., in the amount of \$204,100 for site investigation work necessary to implement the Poly-and Per-Fluororalkyl Substance Supplemental Work Plan approved by the Regional Water Quality Control Board; and
- B. Approve an increase in FY 2022 appropriations in the Airport Operating Fund in the amount of \$204,100, funded from reserves, for Airport Poly- and Per-Fluororalkyl Substance (PFAS) investigation efforts.

12. Subject: Grant Agreement With South Coast Community Media Access Center, dba TV Santa Barbara (230.02)

Recommendation: That Council authorize the Finance Director to execute a one year grant agreement with the South Coast Community Media Access Center for management of the public, and educational access television channels in an amount of \$297,445 plus an amount for public, educational and government access (PEG) capital expenditures equal to 50% of the actual PEG fees received by the City for Fiscal Year 2022.

13. Subject: Potential Acquisition Of A Conservation And Access Easement At 1235 Veronica Springs Road (APN 047-010-039) For A Creek Restoration And Water Quality Improvement Project (540.14)

Recommendation: That Council receive a report and authorize negotiations on the potential acquisition of a conservation and access easement at 1235 Veronica Springs Road for a future creek restoration and water quality improvement project.

This concludes the Consent Calendar.

CITY COUNCIL ADMINISTRATIVE AND ATTORNEY REPORTS

PUBLIC WORKS DEPARTMENT

14. Subject: Water Supply Update And Adoption Of 2020 Enhanced Urban Water Management Plan, 2021 Water Shortage Contingency Plan, And Related Documents (540.01)

Recommendation: That Council:

- A. Receive a water supply update; and
- B. Adopt and authorize the Public Works Director to transmit the City's 2020 Enhanced Urban Water Management Plan to the California Department of Water Resources, such adoption to include modifications as may be approved by the Public Works Director to ensure compliance with State UWMP requirements; and
- C. Adopt and authorize the Public Works Director to transmit the City's 2021 WSCP to the California Department of Water Resources, such adoption to include modifications as may be approved by the Public Works Director to ensure compliance with State WSCP requirements; and
- D. Adopt and authorize the Public Works Director to transmit an addendum to the City's 2015 UWMP to the California Department of Water Resources.

SUSTAINABILITY AND RESILIENCE

15. Subject: Temporary Safe Shelter For Fire Prone Encampments Update (660.04)

Recommendation: That Council:

- A. Approve staff's recommendation of a hotel to provide temporary safe shelter and begin clean-up operations at fire-prone encampments;
- B. Direct staff on use of funding for a temporary safe shelter agreement; and
- C. Direct staff to execute a first amendment to Agreement No. 26,897 between the City of Santa Barbara and Kingdom Causes, Inc., DBA City Net to provide temporary bridge housing services.

MAYOR AND COUNCIL REPORTS

16. Subject: Appointments To City Advisory Groups, Not Including State Street Advisory Committee (140.05)

Recommendation: That Council make appointments to the City's Advisory Groups, not including the State Street Advisory Committee.

CLOSED SESSIONS

17. Subject: Conference With Real Property Negotiators (330.03)

Recommendation: That Council hold a closed session pursuant to Government Code Section 54956.8 to consider price and terms of payment for the potential acquisition of a conservation and access easement.

Real Property: Conservation and Access Easements on property at 1235 Veronica Springs Road (APN 047-010-039)

City Negotiators: Jill Zachary, Parks and Recreation Director; Cameron Benson, Creeks Restoration/Clean Water Manager; Dan Hentschke, Acting City Attorney

Negotiating Party: Hillside House

Under Negotiation: Price and terms of acquisition of easements

Scheduling: Duration, 15 min; anytime Report: None anticipated

18. Subject: Conference With City Attorney – Existing Litigation – Gov. Code §54956.9(d)(1) (160.03)

Recommendation: That Council hold a closed session to consider pending litigation pursuant to subsection (d)(1) of section 54956.9 of the Government Code and take appropriate action as needed.

The pending litigation is George Martinez v. COSB, et al. SBSC Case No. 20CV02839.

Scheduling: Duration, 15 min.; anytime Report: None anticipated

MAYOR AND COUNCIL REPORTS (Time Certain 6:00 pm)

19. Subject: State Street Advisory Committee Applicant Interviews (140.05)

Recommendation: That Council interview applicants to the State Street Advisory Committee (Time Certain 6:00 pm).

COUNCIL AND STAFF COMMUNICATIONS

COUNCILMEMBER COMMITTEE ASSIGNMENT REPORTS

PUBLIC COMMENT (IF NECESSARY)

ADJOURNMENT

CITY OF SANTA BARBARA CITY COUNCIL

MINUTE ORDER

DATE	June 29, 2021
ROLL CALL	Mayor Cathy Murillo; Councilmembers Eric Friedman, Alejandra Gutierrez, Oscar Gutierrez, Meagan Harmon, Mike Jordan, Kristen Sneddon. No. 14
	Subject: Water Supply Update And Adoption Of 2020 Enhanced Urban Water Management Plan, 2021 Water Shortage Contingency Plan, And Related Documents (540.01)
RECOMMENDATION	 That Council: A. Receive a water supply update; and B. Adopt and authorize the Public Works Director to transmit the City's 2020 Enhanced Urban Water Management Plan to the California Department of Water Resources, such adoption to include modifications as may be approved by the Public Works Director to ensure compliance with State UWMP requirements; and C. Adopt and authorize the Public Works Director to transmit the City's 2021 WSCP to the California Department of Water Resources, such adoption to include modifications as may be approved by the Public Works Director to ensure compliance with State WSCP requirements; and D. Adopt and authorize the Public Works Director to transmit an addendum to the City's 2015 UWMP to the California Department of Water Resources.
ACTION	Motion:

Councilmembers Sneddon/Friedman to approve the recommended action.

Vote:

Unanimous roll call vote.

STATE OF CALIFORNIA) COUNTY OF SANTA BARBARA) CITY OF SANTA BARBARA)

I, Robert Stough, Deputy City Clerk in and for the City of Santa Barbara, California, DO HEREBY CERTIFY that attached is a full, true and correct copy of a City of Santa Barbara City Council Minute Order pertaining to the Council's action for the adoption of 2020 Enhanced Urban Water Management Plan, 2021 Water Shortage Contingency Plan, and related documents (Item No. 14 of its June 29, 2021, meeting agenda).

IN WITNESS WHEREOF, I have hereunto set my hand and caused the official seal of said City to be affixed this 30th day of June, 2021.

(SEAL)



Robert Stough Deputy City Clerk