

Attachment 2
San Mateo County Community College District's Jurisdictional Annex
of the San Mateo County Hazard Mitigation Plan Update



Chapter 9.

San Mateo County Community College District

9.1 Hazard Mitigation Plan Point of Contact

Primary Point of Contact

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9.2 Jurisdiction Profile

9.2.1 Overview

San Mateo County Community College District (SMCCCD) serves approximately 40,000 people throughout San Mateo County at its three college campuses. Its academic and vocational program offerings vary widely in order to meet the educational needs of the community. These programs include transfer programs to the University of California and California State Universities, over 80 vocational degree and certificate programs, advanced professional training, and developmental education to prepare students for college studies.

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

- ❖ **Location and Description** — SMCCCD is located in San Mateo County, CA, and operates three college campuses:
 - Cañada College in Redwood City, CA
 - CSM in San Mateo, CA
 - Skyline College in San Bruno, CA
- ❖ **Date of Establishment** — 1922
 - Cañada College – opened in 1968
 - College of San Mateo (CSM) – opened in 1963
 - Skyline College – opened in 1969
- ❖ **Brief History** — SMCCCD opened in 1922 with only 35 students at its Baldwin campus in downtown San Mateo, CA. SMCCCD originally consisted of only the area within the San Mateo Union High School District; however, Jefferson Union and Half Moon Bay high school districts were added in



1937. Sequoia Union High School and South San Francisco Unified School Districts joined in the 1960s, and La Honda-Pescadero Unified School District joined in 1976.

In 1957, the Board of Trustees submitted a \$5.9 million bond request to voters that was approved by a three-to-one margin. The funding from this initiative allowed SMCCCD to acquire the CSM campus and Skyline campus. Cañada College’s location was purchased in 1962. A second bond issue, approved in 1964, funded a significant portion of the construction of the facilities for the Cañada and Skyline campuses.

- ❖ **Governing Body Format**—SMCCCD maintains boundary lines matching those of San Mateo County; however, the District Board of Trustees operates independently of the County government. The District Board of Trustees consists of five members elected by County voters every four years and one student member elected by students for a one-year term. Day-to-day operations are managed by the Board-appointed chancellor. Additionally, each college is fully accredited by the Western Association of Schools and Colleges, the recognized local accrediting agency for the western United States, affiliated with the Federation of Regional Accrediting Commissions of Higher Education.

9.2.2 Service Area and Trends

SMCCCD serves a population of approximately 40,000 students and almost 900 employees. Its primary service area is San Mateo County, CA, and the District manages funds of \$119.2 million.

The District tracks student and staff demographics to accurately meet community needs. Demographics include student enrollment, student achievement, program offerings (degree/certificate offerings), program planning data (productivity measures), faculty and staff data, budget, and County demographics (population, housing, economy). Although the District offers compiled data on its main website through its Fact Books, the most recent of which is from 2014, additional data for each campus can be found on the unique college websites.

THE FOLLOWING TABLES INDICATE RELEVANT TRENDS AND STATISTICS TO PROVIDE A MORE DETAILED UNDERSTANDING OF THE COMMUNITY NEEDS FOR SMCCCD.

Table 9.1 demonstrates the gender breakdown of student attendance by college. Table 9.2 indicates total headcounts (unduplicated) for the fall semester¹. Table 9.3 provides information on faculty and staff employment, by gender.

TABLE 9.1. STUDENT ATTENDANCE AT SMCCCD BY GENDER

Gender	Cañada			CSM			Skyline			District		
	Fa 2011	Fa 2012	Fa 2013	Fa 2011	Fa 2012	Fa 2013	Fa 2011	Fa 2012	Fa 2013	Fa 2011	Fa 2012	Fa 2013
Female	4,419	4,205	4,160	5,182	4,812	4,680	5,427	5,435	5,470	15,028	14,452	14,310
Male	2,452	2,456	2,491	5,110	4,901	4,983	4,633	4,516	4,808	12,195	11,973	12,282
Total	6,871	6,661	6,651	10,292	9,713	9,663	10,060	9,951	10,278	27,223	26,425	26,592

¹ Total headcounts for the full year exceed these numbers due to spring and summer enrollments.





TABLE 9.2. FALL FIRST CENSUS HEADCOUNT

	Cañada	CSM	Skyline	District	Change
Fall 2013	6,758	9,883	10,442	27,083	0.9%
Fall 2012	6,783	9,946	10,104	26,833	-3.1%
Fall 2011	6,922	10,540	10,236	27,698	-1.0%

TABLE 9.3. FACULTY AND STAFF COUNTS

	Faculty	Classified/Staff	Total
Female	174	308	482
Male	140	249	389
Total	314	557	871

9.2.3 Assets

Table 9.4 summarizes the critical assets of the district and their value. Values have been estimated to be as accurate as possible; however, information was not available for all assets.

TABLE 9.4. SPECIAL PURPOSE DISTRICT ASSETS

Asset	Value
Property	
595 acres of land (Total) ¹	Undetermined ²
132 acres of land (Cañada College)	N/A
154 acres of land (CSM)	N/A
125 acres of land (Skyline College)	N/A
184 acres of land (coastal property)	N/A
Critical Infrastructure and Equipment	
CSM Water Distribution System	\$30,000,000
CSM and Cañada Chiller Plants	\$25,000,000
DW Boiler Plants	\$50,000,000
Fixed (2) and Mobile Generators (4)	\$250,000
KCSM TV and FM Radio Broadcast Facilities	\$15,000,000
DW Radio Repeaters	\$1,350,000
DW Power Grid (12kv) and Cañada Solar Plant	\$70,000,000
District Office Data Center x 1 and DW MPOE x 3	\$45,000,000
DW Vehicle Fleet	\$12,000,000
CAN and SKY Fueling Stations	\$2,500,000
DW Online Education	\$6,000,000
CSM-Specific Critical Infrastructure and Equipment (Total)³	\$17,911,921
CATV	\$9,950
CW & HW	\$500,980
Comm	\$1,910,160



Asset	Value
<i>Elec</i>	\$1,685,941
<i>Fiber Optic</i>	\$300,840
<i>Fire Alarm</i>	\$457,520
<i>Fire Water</i>	\$187,740
<i>Gas</i>	\$833,050
<i>Lighting</i>	\$3,665,224
<i>Security</i>	\$113,440
<i>Sewer</i>	\$1,284,420
<i>Storm</i>	\$4,738,710
<i>Water</i>	\$2,173,175
<i>Unidentified</i>	\$50,771
Skyline-Specific Critical Infrastructure and Equipment (Total)³	\$11,643,632
<i>CATV</i>	\$1,317
<i>CW & HW</i>	\$255,349
<i>Comm</i>	\$769,006
<i>Elec</i>	\$874,492
<i>Fiber Optics</i>	\$34,985
<i>Fire Alarm</i>	\$174,852
<i>Gas</i>	\$115,404
<i>Lighting</i>	\$1,584,723
<i>Security</i>	\$226,440
<i>Sewer</i>	\$894,371
<i>Storm</i>	\$3,900,969
<i>Water</i>	\$913,724
<i>Unidentified</i>	\$11,000
<i>SUBTOTAL</i>	\$9,756,632
<i>Predicted</i>	\$1,887,000
Cañada-Specific Critical Infrastructure and Equipment (Total)³	\$12,946,410
<i>CATV</i>	\$179,045
<i>CW & HW</i>	\$783,304
<i>Comm</i>	\$924,078
<i>Elec</i>	\$1,053,687
<i>Fire Alarm</i>	\$448,858
<i>Gas</i>	\$140,288
<i>Lighting</i>	\$1,900,285
<i>Security</i>	\$166,404
<i>Sewer</i>	\$771,298
<i>Storm</i>	\$3,400,744
<i>Water</i>	\$1,462,919
<i>SUBTOTAL</i>	\$11,230,910
<i>Predicted</i>	\$1,715,500
Critical Assets Total:	\$299,601,963
Critical Facilities	
SMCCCD District Office (CSM Drive, San Mateo, CA 94402)	\$24,330,550.00
Cañada College	\$469,301,200.00





Asset	Value
CAN B1: Kinesiology	\$45,425,000.00
CAN B2: Book Store	\$9,472,550.00
CAN B3 Fine Arts	\$112,839,150.00
CAN B4 Athletic Field Restrooms	\$736,000.00
CAN B5 Student Center	\$45,011,000.00
CAN B6 University Conference Center	\$7,027,650.00
CAN B7 Facilities Maintenance Center	\$16,581,850.00
CAN B8 Administrative Services	\$10,261,450.00
CAN B9 Student Services	\$89,322,800.00
CAN B13 Classrooms	\$43,527,500.00
CAN B16 Science	\$23,155,250.00
CAN B17 Science	\$13,969,050.00
CAN B18 Science	\$31,790,600.00
CAN B19 Modular	\$2,176,950.00
CAN B20 Modular	\$2,176,950.00
CAN B21 Modular	\$2,176,950.00
CAN B22 Child Development Center	\$13,650,500.00
College of San Mateo	\$854,964,050.00
CSM B1 Public Safety	\$28,716,650.00
CSM B2 Music Classrooms	\$20,453,900.00
CSM B3 Theater	\$24,482,350.00
CSM B4 and 4A Fine Arts and Ceramics	\$25,510,450.00
CSM B5 Health and Wellness	\$102,448,900.00
CSM B6 Pool House	\$1,883,700.00
CSM B7 Facilities Maintenance Center	\$21,864,950.00
CSM B8 Gymnasium	\$64,184,950.00
CSM B9 Library/KCSM/Alt EOC	\$58,909,900.00
CSM B10 College Center	\$164,336,150.00
CSM B12 East Hall Classrooms	\$25,732,400.00
CSM B14 South Hall Classrooms	\$30,081,700.00
CSM B15 Faculty Offices	\$19,681,100.00
CSM B16 West Hall Classrooms	\$30,081,700.00
CSM B17 Faculty Offices	\$17,920,450.00
CSM B18 North Hall Classrooms	\$32,281,650.00
CSM B19 Emerging Technologies	\$38,322,600.00
CSM B20 Horticulture	\$21,448,650.00
CSM B30 Team House	\$8,953,900.00
CSM B31 Field/Athletic Support	\$441,600.00
CSM B32 Field/Athletic Support	\$2,033,200.00
CSM B33 Child Development Center	\$7,133,450.00
CSM B34 Fire Academy/ITS/Chiller Plant	\$15,136,300.00
CSM B35 Regional Public Safety	\$10,644,400.00
CSM B36 Science	\$76,652,100.00
CSM B37 tennis court Restroom	\$945,300.00
CSM B38 Press Box	\$828,000.00





Asset	Value
CSM B39 Athletic Field Restroom	\$736,000.00
CSM B39-45 Equipment and Events Storage	\$3,117,650.00
Skyline College	\$650,653,900.00
SKY B1 Fine Arts and Theater Complex	\$122,664,750.00
SKY B2 Campus Center	\$56,605,300.00
SKY B3 Physical Education	\$45,327,250.00
SKY B4 Multi Cultural/Cosmetic/Administrative	\$98,837,900.00
SKY B5 Library	\$54,228,250.00
SKY B6 Student and Community Center	\$45,688,350.00
SKY B7 Sciences and Allied Health	\$77,311,050.00
SKY B8 Academic Building	\$51,430,300.00
SKY B9 Automotive Lab 1	\$3,996,250.00
SKY B10 Automotive Lab 2	\$5,981,150.00
SKY B11 Automotive Lab 3	\$8,040,800.00
SKY B14 Child Development Center (Loma Chica)	\$12,713,250.00
SKY B15 Athletic Field Restrooms	\$604,900.00
SKY B16 Modular Building (Loma Chica)	\$3,160,200.00
SKY B17 track and Field House	\$1,348,950.00
SKY B18 Baseball Press Box	\$345,000.00
SKY B19 Pacific Heights Classrooms	\$42,192,350.00
SKY B21-24 Facilities Maintenance Center Buildings	\$20,177,900.00
Critical Facilities Total:	\$1,974,919,150.00

Note:

¹ = Acreage numbers were obtained through various published SMCCCD reports. Accurate property valuations could not be obtained in time for this report; however, the District is aware of the need to better evaluate and assess all real property, such as by assessor's parcel number.

² = Estimate property values significantly exceed assessed value due to land purchase dates (1963-1969) and the passage of Proposition 13 in 1978.

³ = In May 2016, "The InSite Report" was produced for each campus. This report used existing plan documents and other available information to account for as much infrastructure as possible. Each infrastructural element was then assigned a value per the cost of replacement in the market at the time of the report publishing.

9.3 Planning and Regulatory Capabilities

The following existing codes, ordinances, policies or plans are applicable to this hazard mitigation plan:

- ❖ SMCCCD-wide Plans
 - Facilities Master Plan, All Campuses, 2011
 - San Mateo County Community College District Emergency Operations Plan (EOP), October 2014
 - San Mateo County Community College District Strategic Plan, September 2015
 - SMCCCD Fact Book, 2014
 - Strategic Plan for Information Technology, 2012-2016
 - 2015 Amendment to Facilities Master Plan, 2015
 - Other Plans Available at: <http://collegeofsanmateo.edu/prie/smcccdplanningdocs.asp>
- ❖ Cañada College



- Cañada College EOP, October 2014
- Cañada Sustainability Plan, June 2013-2016
- Educational Master Plan, Cañada College, 2012-2017
- Other Plans Available at: <http://www.canadacollege.edu/plans/index.php>
- ❖ CSM
 - College of San Mateo EOP, October 2014
 - Educational Master Plan Update, 2012
 - CSM Sustainability Plan, June 2013 - 2016
 - Other Plans Available at: <http://collegeofsanmateo.edu/prie/planningdocs.asp>
- ❖ Skyline College
 - Business and Marketing Plan
 - Charter and Bylaws, Skyline College Institutional Planning Committee, 2005
 - Skyline College EOP, October 2014
 - Strategic Plan, 2012-2017
 - Skyline Sustainability Plan, June 2013 - 2016
 - Educational Master Plan Update, 2013-2019
 - Other Plans Available at: <http://www.skylinecollege.edu/prie/planning.php>

Note: All EOPs will be updated during 2016.

9.4 Fiscal, Administrative and Technical Capabilities

An assessment of fiscal capabilities is presented in Table 9.5. An assessment of administrative and technical capabilities is presented in Table 9.6.

TABLE 9.5. FISCAL CAPABILITY

Financial Resources	Accessible or Eligible to Use?
Capital Improvements Project Funding	Yes, Capital Outlay Projects
Authority to Levy Taxes for Specific Purposes	No
User Fees for Water, Sewer, Gas or Electric Service	No
Incur Debt through General Obligation Bonds	Yes
Incur Debt through Special Tax Bonds	Yes, Parcel tax for operations
Incur Debt through Private Activity Bonds	No
State-Sponsored Grant Programs*	Yes
Development Impact Fees for Homebuyers or Developers	No
Other	Yes
Enrollment Fees	Yes
Non-Resident Tuition	Yes
Other Student Fees	Yes

*Note: As a community-supported district, SMCCCD receives no State General Apportionment funding.





TABLE 9.6. ADMINISTRATIVE AND TECHNICAL CAPABILITY

Staff/Personnel Resources	Available?	Department/Agency/Position
Planners or engineers with knowledge of land development and land management practices	Yes	Facilities Department
Engineers or professionals trained in building or infrastructure construction practices	Yes	Facilities Department
Planners or engineers with an understanding of natural hazards	Yes	Public Safety Department, Facilities Department
Staff with training in benefit/cost analysis	Yes	Financial Services
Surveyors	No	-
Personnel skilled or trained in GIS applications	Yes	Geography Department (Academics)
Scientist familiar with natural hazards in local area	Yes	Geography Department (Academics)
Emergency manager	Yes	Vice Chancellor, Facilities Planning, Maintenance & Operations
Grant writers	Yes	Financial Services and through Foundation
Other	Yes	Subject matter experts (various), Academic Departments (i.e., professors), Information Technology (IT) services

9.5 Education and Outreach Capabilities

An assessment of education and outreach capabilities is presented in Table 9.7.

TABLE 9.7. EDUCATION AND OUTREACH

Criteria	Response
Do you have a Public Information Officer or Communications Office?	Yes, Marketing, Communications, and Public Relations Office, District Director of Community and Government Relations
Do you have personnel skilled or trained in website development?	Yes, Marketing, Communications, and Public Relations Office and IT Support
Do you have hazard mitigation information available on your website?	No
<ul style="list-style-type: none"> If yes, please briefly describe. 	Safety brochures and tips (not focuses on hazard mitigation, however) are available online.
Do you utilize social media for hazard mitigation education and outreach?	Yes (Partial)
<ul style="list-style-type: none"> If yes, please briefly describe. 	Each college campus has its own Facebook page, Twitter Account, LinkedIn, and Instagram account. Accounts are not targeted for hazard mitigation education and outreach but can be used to disseminate such information.
Do you have any citizen boards or commissions that address issues related to hazard mitigation?	Yes



Criteria	Response
<ul style="list-style-type: none"> If yes, please briefly specify. 	Safety Committee
Do you have any other programs already in place that could be used to communicate hazard-related information?	Yes
<ul style="list-style-type: none"> If yes, please briefly describe. 	Emergency Preparedness Webpage, Public Safety Department Websites (for each campus)
Do you have any established warning systems for hazard events?	Yes
<ul style="list-style-type: none"> If yes, please briefly describe. 	AlertU (Emergency Text Notifications)

9.6 Integration with Other Planning Initiatives

The following describe the jurisdiction’s process for integrating the hazard mitigation plan into existing plans and programs.

9.6.1 Existing Integration

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

- ❖ **Campus and District EOPs**—SMCCCD maintains EOPs for both the entire San Mateo Community College District (i.e., comprehensive to all locations) and its individual campuses. The documents are designed to be compliant with the National Incident Management System (NIMS), Incident Command Structure (ICS), and the Standardized Emergency Management System (SEMS) while addressing needs unique to the higher education environment. The EOPs provide an overview of operational concepts and aid the planned response to emergencies associated with large and complex human-caused events, natural hazards, and technological hazards. They consider responsibilities for response within the campus and coordination with outside, local entities. The documents reference and integrate with Federal and State regulations and policies, as well as remain consistent with other District policies.
- ❖ **Educational Master Plan**—The Educational Master Plan provides a College direction on implementing its strategy for educational goals and instruction. The planning process for such a document includes the Instructional Planning Council, Student Services Planning Council, Administrative Planning Council, College Planning Council, Academic Senate, and Classified Senate to ensure comprehensive input. It is designed to integrate with other College and District plans, and is similar to the Strategic Plan except focused more specifically on educational goals.
- ❖ **Facilities Master Plan**—SMCCCD maintains a Facilities Master Plan for each of its college campuses. Each college is addressed individually; however, the full document contains the proposed projects for all three campuses to ensure comprehensive planning and tactical development. The Facilities Master Plan is similar to a jurisdictional Capital Improvements Plan (CIP), and the projects identified within are designed to address changing educational needs, maintenance and upgrade of existing structures, and expansion of college services throughout the region. The Facilities Master Plan





integrates with each college's Educational Master Plan and contains strategic review, option development, solution development, and various documentations. The document contains a few projects which tie into hazard mitigation, specifically, with managing transportation accidents and hazardous materials.

- ❖ **Strategic Plan**—The San Mateo Community College District Strategic Plan serves as the colleges' vehicle to implement its mission and goals while acknowledging current (external and internal) community trends and needs. The Strategic Plan integrates with each College's Educational Master Plan and resource allocation, and it provides the District a way to demonstrate accountability to stakeholders, taxpayers, and students. Some of the data trends investigated for their impact on SMCCCD's ability to achieve its long-term goals include demographic trends, workforce trends, housing trends, community college trends, state education policy trends, and new educational paradigms.
- ❖ **Strategic Plan for Information Technology**—This guidance document provides SMCCCD a resource to ensure that its technology resources and services remain consistent with District and campus needs. It complies with other educational plans and considers the impact of hazard events and disasters. The Strategic Plan for Information Technology contains information on the Disaster Recovery Center and the District's processes for business continuity as it relates to technology.
- ❖ **Sustainability Plan**—Cañada College, CSM, and Skyline have each developed a sustainability plan. These documents contain information on the College's history of sustainability efforts, goals for sustainability planning, and possible projects and goals. The Sustainability Plan ties in well with hazard mitigation as many of these projects have the potential to reduce vulnerability to certain hazards and to increase overall resilience. Sustainability Plans specifically consider projects for onsite generation, renewable energy, power storage, and system integration (which could enhance power redundancy during disasters); transportation; water, wastewater, and landscaping; and solid waste reduction and management. Originally developed in 2013 the campus plans are currently being updated.

9.6.2 Opportunities for Future Integration

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

- ❖ **Unique Needs Planning for Higher Education**—Consider evaluating and integrating the unique needs of a higher education environment into both the District's and local governmental emergency planning processes. While many of these unique needs are implicitly considered in planning documents, they are not necessarily directly noted. Examples include the following:
 - SMCCCD Colleges maintain no on-campus housing. The District, therefore, is not responsible for any residential needs or sheltering (other than shelter-in-place scenarios). SMCCCD, however, may have difficulty in locating students post-event due to various residential locations.





- SMCCCD Colleges do offer international/study abroad programs. International students, while not living on campus (see point above) may require additional resources and aid during a hazard event due to language barriers, financial impacts, and healthcare access needs.
- The higher education atmosphere, particularly when there is no resident population, has rotating levels of vulnerability. During peak periods (Monday through Friday, 7 a.m. to 9:30 p.m.), the Colleges will have a higher density population, increasing risk and potential impacts to certain hazards. In contrast, during non-peak time periods (weekends, evenings), the campus population will be much lower. While this decreases risk to certain hazards, it may increase communication and response difficulties as well. Additionally, population density not only varies throughout the week but also the season as fall and spring semesters have higher attendance rates than summer and winter.
- In addition to constantly changing population densities on campuses, students, faculty, and staff also are not located in the same office or classroom while the campuses are open. The District does not currently have a way to track real-time attendance, and during a hazard event, it may be difficult to immediately determine whether anyone is missing. Although class rosters can serve as a tentative resource for identifying students, this resource would not account for students not in class or students that may be in a non-classroom setting, e.g., the library, computer labs, student center, etc.
- ❖ **Public Outreach**—SMCCCD and its Colleges have many platforms and capabilities to disseminate emergency and preparedness information to students, staff, and faculty. The District will consider developing a targeted public outreach program to utilize these resources in the most efficient and effective way possible, allowing SMCCCD to educate a large number of students, staff, and faculty on campus resilience initiatives, what individuals can do to prepare, and where to gain more information.
- ❖ **Greater Hazard Mitigation/Disaster Planning Integration In College Plans**—SMCCCD has developed numerous plans, both for individual colleges and for the District as a whole. While these plans integrate with each other to ensure consistency in higher education goals and implementation, many of them do not consider hazard mitigation or disaster planning even at a basic level. The District will begin to integrate the findings from its hazard mitigation annex and the County HMP update into future plans and updates to ensure that the schools have a thorough approach to all aspects of campus life, including safety and resilience.
- ❖ **Greater Integration with Jurisdictional Plans**—SMCCCD, San Mateo County, and the cities within San Mateo County have all developed numerous plans to facilitate long-term growth, implementation of strategic goals, increased resiliency, etc. SMCCCD plays a unique role in the County as it is a major stakeholder for the County, provides services to many residents, and is tied to the County through governance and funding. This HMP update marks one way in which SMCCCD, both as a District and with each College, will focus on increasing the coordination between District/College plans, County plans, and City plans to ensure that local governance considers the unique needs and capabilities of SMCCCD during a hazard event.



9.7 Jurisdiction-Specific Natural Hazard Event History

Table 9.8 lists all past occurrences of natural hazards within the jurisdiction.

TABLE 9.8. NATURAL HAZARD EVENTS

Type of Event	FEMA Disaster # (if applicable)	Date	Preliminary Damage Assessment
Fire	N/A	1/2015	Pacifica 6-Alarm Canyon Wildfire, operational impact to Skyline Campus.
Severe Storms/Flooding	N/A	12/2014	CSM Campus served as a mass care shelter for 100 as a result of flooding in Belmont, Redwood City, and South San Francisco. Operational costs for the shelter were \$45,000.
Fire	FM-2856	9/10/2010	Skyline Campus experienced an operational impact as a result of the San Bruno pipeline explosion.
Earthquake	DR-845	10/18/1989	All properties experienced an operational impact during the Loma Prieta earthquake event. Damage estimates are unknown.

9.8 Jurisdiction-Specific Vulnerabilities

Noted vulnerabilities in the jurisdiction include:

- ❖ Severe weather – Higher velocity winds are experienced on all campuses as a result of higher elevation of facilities along hillside. SMCCCD expressed concerns on the effect of these winds on older facilities, specifically as it relates to roofing failure.
- ❖ Wildfire fuel – All three campuses are adjacent to privately-owned property that contains unkempt wildfire fuel.
- ❖ Landslides – All three campuses are exposed to some degree of landslides, mudslides, or slumping from above or below facilities.

9.9 Hazard Risk Ranking

Table 9.9 presents the ranking of the hazards of concern.

TABLE 9.9. HAZARD RISK RANKING

Rank	Hazard Type	Risk Rating Score (Probability x Impact)	Category
1	Earthquake	54	High
2	Landslide	24	Medium
3	Wildfire	24	Medium
4	Severe Weather*	18	Medium
5	Drought	3	Low
-	Dam Failure	0	No impact/exposure
-	Flood	0	No impact/exposure
-	Tsunami	0	No impact/exposure

* The ranking increased from Low to Medium based on local knowledge of hazard susceptibility within SMCCCD.



9.10 Hazard Mitigation Action Plan and Evaluation of Recommended Actions

Table 9.10 lists the actions that make up the San Mateo County Community College District hazard mitigation action plan. Anticipated timelines are typically dependent on funding availability. Table 9.11 identifies the priority for each action. Table 9.12 summarizes the mitigation actions by hazard of concern and the six mitigation types.

TABLE 9.10. HAZARD MITIGATION ACTION PLAN MATRIX

Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
Action SMCCCD-1 —Continue to plan for and increase the frequency of discussions- and operations-based exercises for Emergency Operations Center (EOC) Activations within each college campus and with District Executives to expand capacity and consistency in plans and procedures for emergencies associated with large and complex human-caused events, natural hazards, and technological incidents.						
Existing	All	1, 2, 5, 6, 7, 9	SMCCCD District Facilities Planning & Operations Department	Medium	District/Campus Budgets, FEMA and DHS Grants	Ongoing
Action SMCCCD-2 —Review and update 2011 versions of Emergency Procedures (AKA: Waterfall Document) maintained in every room, on the property of the District, and within each college campus to ensure consistency in planned procedures to emergencies associated with large and complex human-caused events, natural hazards, and technological incidents.						
Existing	All	1, 2, 5, 7, 9	SMCCCD District Public Safety Department	Low	District/Campus Budgets	Short-Term then Ongoing
Action SMCCCD-3 —Review and update 2014 versions of Emergency Operations Plan (EOP) for the District and each college campus to ensure consistency in plans for emergencies associated with large and complex human-caused events, natural hazards, and technological incidents.						
Existing	All	1, 2, 3, 5, 6, 7, 8, 10	SMCCCD District Facilities Planning & Operations Department	Medium / Low	District/Campus Budgets, FEMA and DHS Grants	Short-Term
Action SMCCCD-4 —Review and update 2014 Injury and Illness Prevention Program (IIPP)-based Evacuation Plans, Exterior Assembly Points, and Safety Zones.						
Existing	All	1, 2, 3, 5, 6, 7, 8, 10	SMCCCD District Facilities Planning & Operations Department (Facilities Systems) and Campus Public Safety Department	Medium / Low	District/Campus Budgets, FEMA and DHS Grants	Short-Term
Action SMCCCD-5 —Review and update, as needed, Conditional Site Use Permit with the Pacific Gas and Electric Company for Emergency Base Camps and Staging Areas.						
Existing	All	1, 2, 3, 5, 10	SMCCCD District Facilities Planning & Operations Department	Low	District/Campus Budgets	Ongoing



Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
Action SMCCCD-6 —Annually review Memorandum of Understanding (MOU) with the San Mateo County Sheriff’s Area Office of Emergency Services to provide emergency shelters for disaster-displaced community members, emergency medical treatment/inoculations sites, access to KCSM radio, and logistic staging areas for emergency response and recovery efforts.						
Existing	All	1, 2, 3, 5, 8, 10	SMCCCD District Facilities Planning & Operations Department	Low	District/Campus Budgets	Ongoing
Action SMCCCD-7 —Review and annually update Facility Use Agreements with the American Red Cross to provide space for Public Emergency Shelters and Emergency Evacuation Centers.						
Existing	All	1, 2, 3, 5, 8, 10	SMCCCD District Public Safety Department	Low	District/Campus Budgets	Ongoing
Action SMCCCD-8 —Develop and maintain a series of Public Safety Video Program to disseminate information about safety services and emergency preparedness relative to hazards, particularly seasonal hazards, to students, faculty, and staff, and present materials on a regular and a routine basis (e.g., monthly, quarterly, etc.).						
New	All	1, 2, 3, 5, 6, 7, 8, 10	SMCCCD District Public Safety Department	Medium	District/Campus Budgets, FEMA and DHS Grants	Short-Term then Ongoing
Action SMCCCD-9 —Develop a District-wide multi-year Emergency Management-based Training and Exercise Program (TEP) as a living document to be updated, refined, and expanded annually. The multi-year TEP will identify the training and exercises that will help the organization build and sustain the core capabilities needed to address training and exercise program priorities in planning for emergencies in the higher education environment. (Note: Actions SMCCCD-1 and SMCCCD-10 should integrate into this action).						
New	All	1, 2, 5, 6, 7, 9	SMCCCD District Facilities Planning & Operations Department	Medium / High	District/Campus Budgets, FEMA and DHS Grants	Long-Term
Action SMCCCD-10 —Develop an Emergency Management Academy in-service Training Program to cultivate an ongoing, cost-effective training initiative for college faculty and staff that is complementary to the required FEMA basic, intermediate, and advanced levels of emergency management training. The SMCCCD Training Program will bridge practicum gaps between the theoretical FEMA emergency management subject matter and local application.						
New	All	1, 2, 5, 6, 7, 8, 9, 10	SMCCCD District’s Community, Continuing & Corporate Education Division	High	District/Campus Budgets, FEMA and DHS Grants	Long-Term
Action SMCCCD-11 —Develop a District multi-year Hazardous Materials (HAZMAT)-based TEP that will identify the training help the organization build and sustain a culture of safety needed to address priorities in mitigating HAZMAT storage, handling, exposure and spill emergencies in the higher education environment.						
New	Human-Caused Hazards	1, 2, 5, 6, 7, 8, 9, 10	SMCCCD District Facilities Planning & Operations Department	Medium / High	District/Campus Budgets; EPA, FEMA, and DHS Grants; Utility Company Resources	Long-Term
Action SMCCCD-12 —Develop a Continuity of Operations Plan (COOP) for, at a minimum, District-wide health and safety facilities, utilities, operational facilities, hazardous materials facilities and vital economic sustainability infrastructure.						





Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
New	All	1, 2, 3, 5, 6, 7, 8, 10	SMCCCD District Facilities Planning & Operations Department and Campus Administrations	Medium	District/Campus Budgets, FEMA and DHS Grants	Short-Term

Action SMCCCD-13—Continue to evaluate and assess the value of critical infrastructure and assets, with a focus on those assets whose replacement values are currently unknown.

Existing	Earthquake, Landslide	1, 4, 5, 6	SMCCCD District Facilities Planning & Operations Department	Low	Capital Outlay Funds, District/Campus Budgets	Ongoing
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Action SMCCCD-14—Continue to strengthen the relationship between SMCCCD, San Mateo County Sheriff’s Area Office of Emergency Services, and the three municipalities where the campuses are housed (unincorporated San Mateo County for Cañada, San Mateo for CSM, and San Bruno for Skyline) and first responder organizations for each campus, to promote an integrated emergency management and planning process, where the local governments consider the unique needs and capabilities of SMCCCD and where SMCCCD coordinates response plans that are accurate to County/City capabilities. (Note: Action SMCCCD-10 should integrate into this action).

Existing	All	1, 2, 3, 8, 10	SMCCCD District Facilities Planning & Operations Department and Campus Administrations	Low	District/Campus Budgets	Ongoing
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Action SMCCCD-15—Enhance emergency notification procedures to consider the campuses’ more vulnerable populations, most notably, international students and students with access and functional needs.

Existing	All	1, 2, 3, 8, 9, 10	SMCCCD District Facilities Planning & Operations Department and Campus Administration	Medium	District/Campus Budgets, FEMA and DHS Grants	Short-Term
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Action SMCCCD-16—Review existing non-emergency management/disaster preparedness plans and procedures (e.g., Educational Master Plans, Sustainability Plans, Facilities Master Plans) to integrate hazard mitigation and preparedness, where possible.

Existing	All	1, 2, 3, 5, 6, 7, 8, 10	SMCCCD District Office Administration and Campus Administrations	Low	District/Campus Budgets	Short-Term
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Action SMCCCD-17—Encourage the review of planned infrastructure and strategic growth to ensure that new buildings will be developed outside of hazard-prone areas or constructed to be hazard-proof (earthquake resistant, fire resistant, etc.)

New	All	1, 3, 4, 6, 7, 8, 11	SMCCCD District Office Administration and District Facilities Planning & Operations Department	Low	Capital Outlay Funds, District/Campus Budgets	Ongoing
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Action SMCCCD-18—Conduct an assessment on buildings, infrastructure, and open space on each campus to determine current vulnerability to hazards. Renovate or implement resilience projects to alleviate these concerns, as funding allows.





Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
New and Existing	Earthquake, Landslide, Wildfire	1, 3, 4, 6, 7, 8, 11	SMCCCD District Facilities Planning & Operations Department	Medium / High	Capital Outlay Funds, District/Campus Budgets	Ongoing

Action SMCCCD-19—Encourage a Whole Community approach, including the involvement of relevant academic and administrative departments, with plan revisions, and utilize SMCCCD’s unique knowledge sources to enhance data collection.

Existing	All	1, 2, 3, 8, 10	SMCCCD District Office Administration and SMCCCD District Facilities Planning & Operations Department	Low	District/Campus Budgets	Ongoing
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Action SMCCCD-20—ITS and Emergency Response System Upgrades: Upgrade Communications and information technology systems to provide for more resilience, greater redundancy, expanded and faster response time, and integration of systems infrastructure where appropriate. This includes the following: distributed Antenna and Emergency responder system upgrades; EAS coverage and infrastructure upgrades; and UPS system upgrades

New and Existing	All	1, 3, 4, 5, 6, 7, 9	SMCCCD District Office Administration and SMCCCD District Facilities Planning & Operations Department	High	District/Campus Budgets, FEMA Grants	3 years
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Action SMCCCD-21—CSM Project: Trees-Fire Mitigation and Safety Project: Removal of eucalyptus trees on and around campus to reduce the likelihood and effect of urban/wild area interface fire issues and adverse impacts from severe weather.

Existing	Severe Weather, Wildfire	4, 5, 6, 7	SMCCCD District Office Administration and SMCCCD District Facilities Planning & Operations Department	Medium	District/Campus Budgets, FEMA Grants	1 year
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Action SMCCCD-22—CSM Project: Water Distribution System Analysis and potential upgrade.

Existing	Drought	1, 3, 4, 5, 6, 7	SMCCCD District Office Administration and SMCCCD District Facilities Planning & Operations Department	High	District/Campus Budgets, FEMA Grants	Ongoing
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Action SMCCCD-23—CSM Project: Integrated Solar and Energy Storage: Installation of 300KW of solar and 300 KW of energy storage with energy management software.

New	All	1, 3, 4, 5, 6, 7	SMCCCD District Office Administration and SMCCCD District Facilities Planning & Operations Department	High	District/Campus Budgets, FEMA Grants	2 years
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Action SMCCCD-24—District-wide Project: Waste Management Services Contract: Provide range of waste management services to operations at all three campuses including hauling for FEMA/CAL OES qualifying events.





Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
New and Existing	All	1, 2, 3, 4, 5, 6, 8, 10	SMCCCD District Office Administration and SMCCCD District Facilities Planning & Operations Department	Low	District/Campus Budgets	6 months
Action SMCCCD-25 —Develop and regularly maintain SMCCCD real property/land value estimates. Information maintained should include parcel numbers, physical address/location, acreage, common name, Assessor’s Valuation (Ca. Proposition 13), and Owner’s Valuation.						
Existing	All	1, 4, 5, 6	SMCCCD District Facilities Planning & Operations Department	Low	Capital Outlay Funds, District/Campus Budgets	Ongoing
Action G-1 — Support the County-wide initiatives identified in Volume I of the hazard mitigation plan.						
New and existing	All	All	Jurisdictions	Low	General Fund	Short- and long-term
Action G-2 — Actively participate in the plan maintenance protocols outlined in Volume I of the hazard mitigation plan.						
New and Existing	All	1, 4	Jurisdictions	Low	Staff Time, General Funds	Short-term

TABLE 9.11. MITIGATION STRATEGY PRIORITY SCHEDULE

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





Action #	# of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Costs?	Is Project Grant-Eligible?	Can Project Be Funded Under Existing Programs/Budgets?	Implementation Priority ^a	Grant Priority ^a
Action SMCCCD-9	6	High	Medium / High	Yes	Yes	Partial	High	High
Action SMCCCD-10	8	High	High	Yes	Yes	Partial	High	High
Action SMCCCD-11	8	High	Medium / High	Yes	Yes	Partial	High	High
Action SMCCCD-12	8	High	Medium	Yes	Yes	Yes	High	Medium
Action SMCCCD-13	4	Low	Low	Yes	No	Yes	Low	Low
Action SMCCCD-14	5	Medium	Low	Yes	No	Yes	Medium	Low
Action SMCCCD-15	6	High	Medium	Yes	Yes	Yes	High	Medium
Action SMCCCD-16	8	Low	Low	Yes	No	Yes	Low	Low
Action SMCCCD-17	7	High	Low	Yes	No	Yes	Medium	Low
Action SMCCCD-18	7	High	Medium / High	Yes	No	Yes	Medium	Low
Action SMCCCD-19	5	Medium	Low	Yes	No	Yes	Medium	Low
Action SMCCCD-20	7	High	High	Yes	Yes	Yes	High	Medium
Action SMCCCD-21	4	Medium	Medium	Yes	Yes	Yes	Medium	Medium
Action SMCCCD-22	6	High	High	Yes	Yes	Yes	High	Medium
Action SMCCCD-23	6	High	High	Yes	Yes	Yes	High	Medium
Action SMCCCD-24	8	Medium	Low	Yes	No	Yes	High	Low
Action SMCCCD-25	4	Low	Low	Yes	No	Yes	Low	Low
G-1	11	Low	Low	Yes	No	Yes	High	Low
G-2	2	Low	Low	Yes	No	Yes	High	Low

a. See the introduction to this volume for explanation of priorities.





TABLE 9.12. ANALYSIS OF MITIGATION ACTIONS

Hazard Type	Action Addressing Hazard, by Mitigation Type ^a					
	1. Prevention	2. Property Protection	3. Public Education and Awareness	4. Natural Resource Protection	5. Emergency Services	6. Structural Projects
Drought	1, 2, 5, 8, 9, 10, 14, 16, 19, 20, 22	5, 10, 14, 16, 17, 18, 25	2, 4, 6, 8, 10, 15, 19	10	1, 2, 3, 4, 5, 6, 7, 9, 10, 12, 14, 20, 23, 24	10, 13, 17, 18, 22
Earthquake	1, 2, 5, 8, 9, 10, 14, 16, 19, 20, 22	5, 10, 14, 16, 17, 18, 25	2, 4, 6, 8, 10, 15, 19	10	1, 2, 3, 4, 5, 6, 7, 9, 10, 12, 14, 20, 23, 24	10, 13, 17, 18, 22
Landslide	1, 2, 5, 8, 9, 10, 14, 16, 19, 20, 22	5, 10, 14, 16, 17, 18, 25	2, 4, 6, 8, 10, 15, 19	10	1, 2, 3, 4, 5, 6, 7, 9, 10, 12, 14, 20, 23, 24	10, 13, 17, 18, 22
Severe Weather	1, 2, 5, 8, 9, 10, 14, 16, 19, 20, 21, 22	5, 10, 14, 16, 17, 18, 21, 25	2, 4, 6, 8, 10, 15, 19	10	1, 2, 3, 4, 5, 6, 7, 9, 10, 12, 14, 20, 23, 24	10, 13, 17, 18, 22
Wildfire	1, 2, 5, 8, 9, 10, 14, 16, 19, 20, 21, 22	5, 10, 14, 16, 17, 18, 21, 25	2, 4, 6, 8, 10, 15, 19	10	1, 2, 3, 4, 5, 6, 7, 9, 10, 12, 14, 20, 23, 24	10, 13, 17, 18, 22
Human-Caused Hazards	1, 2, 5, 8, 9, 10, 11, 14, 16, 19, 20, 22	5, 10, 11, 14, 16, 17, 18, 25	2, 4, 6, 8, 10, 11, 15, 19	10, 11	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 14, 20, 23, 24	10, 13, 17, 18, 22

a. See the introduction to this volume for explanation of mitigation types.

9.11 Future Needs to Better Understand Risk/Vulnerability

SMCCCD’s coastal property in Half Moon Bay has potential exposure to the tsunami hazard. SMCCCD does not anticipate development of this land within the next 5 years, but the District may work with local partners to establish a community service complex. Additional data concerning the tsunami risk to this land and subsequent development should be addressed at such a time when SMCCCD decides to pursue development of the land.

9.12 Additional Comments

In response to outreach and requests for support from the San Mateo County Sheriff’s Area Office of Emergency Services (OES) and San Mateo County Emergency Managers Association (EMA), SMCCCD is formally exploring the creation of an Emergency Management Academy and the delivery of certified emergency management training for public sector employees through the Community, Continuing & Corporate Education Division (CCCE) at the District. The initial indications are that this venture would be very complementary to the Police and Fire Academies conducted at CSM, and SMCCCD would begin by hosting this emergency management certification effort through its Community Education Division.





This SMCCCD division offers short, not-for-credit courses and workshops geared to educate and enhance the lives of people of all ages in the San Mateo County community. It is a self-supporting nonprofit entity; it is not funded by taxpayer money.

Community Education classes are open to everyone, with classes meeting at one of the three college campuses—Cañada College in Redwood City, CSM in San Mateo, and Skyline College in San Bruno—or at other locations within the County. SMCCCD anticipates the delivery of this Emergency Management Academy at hosted city government locations and delivered during the normal workday to provide the least disruption to the existing workforce. This program is being developed with great intention to bridge any potential gaps between the theory-based FEMA Emergency Management Institute (EMI)-sponsored classes and emergency management at the various level of practice within the local community. The figures below depict the initial public and private sector projected certifications.

FIGURE 9-1. SMCCCD EMERGENCY MANAGEMENT ACADEMY PUBLIC SECTOR PROJECTED CERTIFICATIONS





FIGURE 9-2. SMCCCD EMERGENCY MANAGEMENT ACADEMY PRIVATE SECTOR PROJECTED CERTIFICATIONS

