

## **ANNEX 2**

### **CHAPTER 5 WEST GILROY**

#### **WILDLAND URBAN INTERFACE AREA DEFINED**

The WUI planning areas for the SSCFPD are delineated in Figure 2-5.1 below.

#### **NEIGHBORHOOD AND STRUCTURAL CHARACTERISTICS**

##### ***WEST GILROY/TREEHAVEN/REDWOOD RETREAT***

The West Gilroy WUI planning area is the area west of Gilroy to the Santa Cruz County line near Hecker Pass and Highway 152 and Redwood Retreat Road area. The area is an SRA and almost all is very high FHSZ with severe fire history.

**Building Characteristics:** The area west of Gilroy is diverse with older ranches and rapidly developing residential properties. New small ranch/farms and small parcel residential subdivisions are prevalent. Newer structures are designed and built under WUI building code standards and are more ignition resistant. This area routinely experiences westerly afternoon winds exceeding 20 miles per hour, which can spread fires faster and blow embers great distances to cause spot fires and ignite structures some distance away. Small parcels with closely spaced housing present a greater risk of house to house fire spread during wind driven fires.

Adjacent to this area, the City of Gilroy has annexed extensive open space area on the west side of their city at the WUI. Densely spaced housing developments are in planning and construction.

**Water Supply:** Some newer development areas have community water systems with fire hydrants however, by and large there are little to no fire hydrants in the less densely development areas. Water supplies are very limited except for the reservoirs in the area. However, many property owners recognize this danger and have private water tanks with fittings for use by fire engines. CAL FIRE helicopters use the reservoirs as a source of water to fight fires in this area.

**Road Access:** Roads in this area are generally good hard surface with primary evacuation routes two lanes. Some homes in this planning area are remote and not easy to access resulting in slow response times for emergency vehicles and evacuation concerns for residents. Many private roads are narrow, windy and unsurfaced. Redwood Retreat and Mount Madonna attract several visitors per year and have narrow, confusing roads with poor visibility for evacuation.

The area of Mount Madonna Park and Redwood Retreat have potential for prescribed burning to reduce hazardous fuel and restore healthy landscapes. With predominantly large private and public land ownerships, prescribed fire is an ecologically sound hazard reduction and land management tool and should be encouraged.

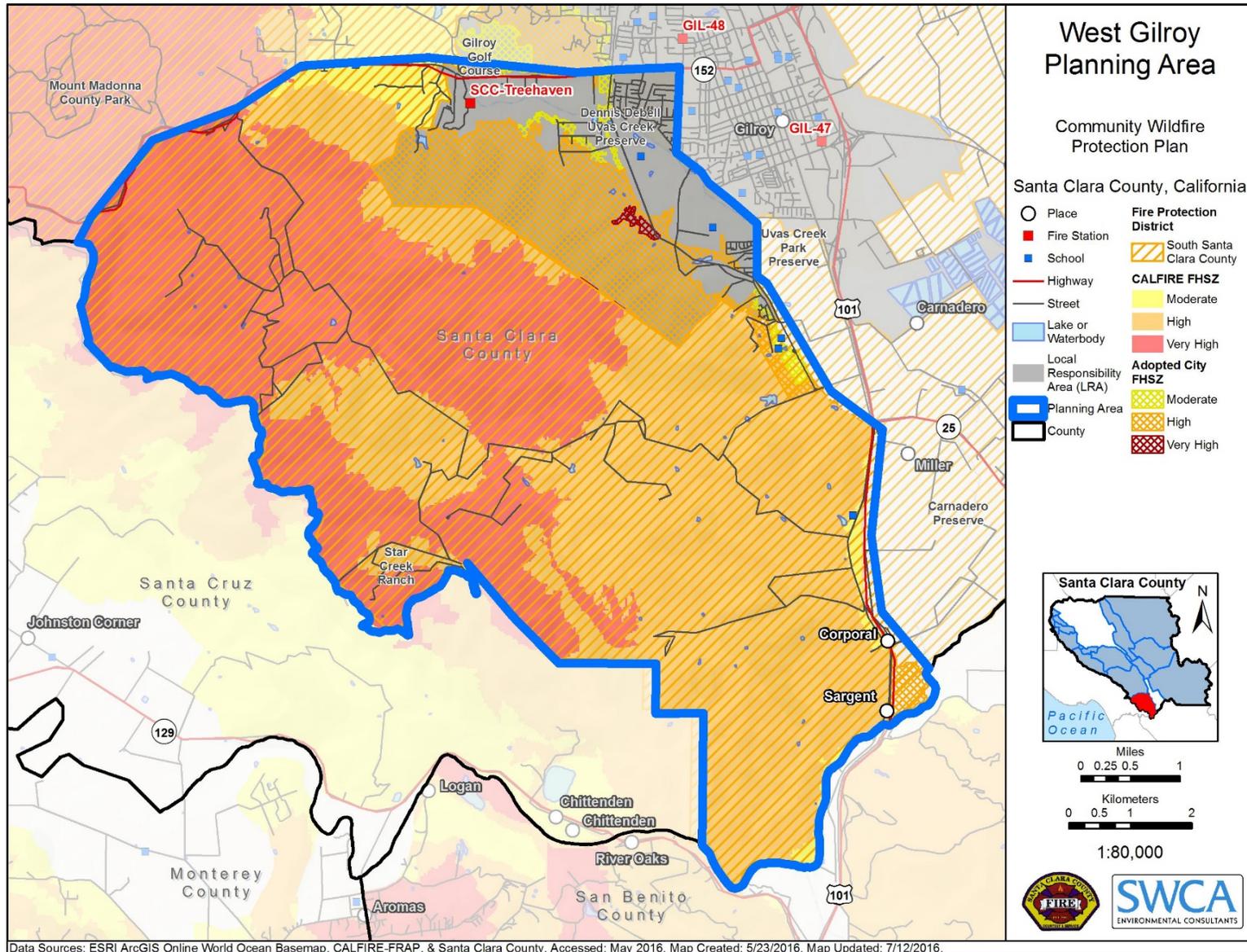


Figure 2-5.1. West Gilroy WUI planning area.

**EMERGENCY RESPONSE CAPACITY**

The area is an SRA and receives a full wildland fire response from CAL FIRE during fire season. Normal CAL FIRE wildland response includes chief officers, fire engines, air tankers (Hollister Air Attack Base), helicopter (Alma Heli Base), fire dozers, and hand crews (Ben Lomand Camp).

SCCFPD/CAL FIRE initial response to the planning area would be primarily from Treehaven Morgan Hill, Masten, Coyote, Corralitos, Almaden, Hollister, and Pacheco fire stations. Morgan Hill and Gilroy Fire Departments will also respond mutual aid.

**RISK/HAZARD ASSESSMENT**

Community hazard assessments include ratings of community conditions compared to best practices for WUI fire mitigation. Community Hazard ratings include consideration of applicable state codes, local ordinances, and recognized best practices guidelines.

The National Fire Protection Association Standard 1144 (NFPA 1144) defines WUI hazards and risks at the community and parcel level. This plan utilizes components of NFPA 1144, California laws and local ordinances to evaluate neighborhood WUI hazard and risk. CA PRC 4290 and 4291 sections address WUI community design and defensible space standards.

An on-the-ground hazard assessment was completed for West Gilroy. The following ratings are based on the NFPA 1144 structural hazard assessment form. Scores are rated as follows: (<40 = low, >40 = moderate, >70 = High, >112 = Extreme). Factors that contributed to the assessment are illustrated in tabular format below. Averages are taken across the community to give a rating for each parameters (individual parameter numerical ratings are not shown here, but instead are shown as a +, - or +/-). For more information on the methodology for the hazard assessment please see Section 4.6.6 in Chapter 4 of the countywide CWPP.

Parameter	Condition	Rating
Access	One road in and out, Redwood Retreat	-
	Narrow road width	-
	Poor fire access, dead end spurs, lack turnaround	-
	Street signs are present, some are non-reflective	+/-
Vegetation	Adjacent fuels: Moderate with high flammability	-
	Defensible space: >30 feet and < 70 feet around structure	+/-
Topography within 300 feet of structure	40% +	-
Topographic features	High concern	-
History of high fire occurrence	Moderate	+/-
Severe fire weather potential	Moderate	+/-
Separation of adjacent structures	Good separation	+
Roofing assembly	Flammable wooden and Class B/C	+/-
Building construction	Non-combustible siding, combustible deck	+/-
	Building set back <30 feet to slope	-
Available fire protection	Water unavailable	-
	Response: Station >5 miles from structure	-
	Internal sprinklers: for new build properties	+/-
Utilities	Both above ground	-
<b>Risk Rating - High (88)</b>		

In addition to the on-the-ground hazard assessment, the CWPP also includes a Composite Fire Risk/Hazard Assessment which uses fire behavior modeling to determine potential fire behavior and is based on fuel characteristics, topography, weather, and fire history. The Composite Risk/Hazard Assessment for the planning area is shown in Figure 2-5.2. For more information on the methodology for this assessment please refer to Section 4.6.1 in Chapter 4 of the CWPP.

***PARCEL LEVEL ASSESSMENT***

A model for determining parcel level risk and effect of mitigations has been developed through this CWPP project. The model can use information available through public record for basic analysis but can be further refined with a site visit with property owner for a thorough analysis of risk score. The County will be seeking funding to fully implement this parcel level assessment in the future. The goal is for the property owner to be able to use this analysis to determine the most effective steps they can take to take to reduce their risk. For more information refer to Chapter 4 in the countywide CWPP document.

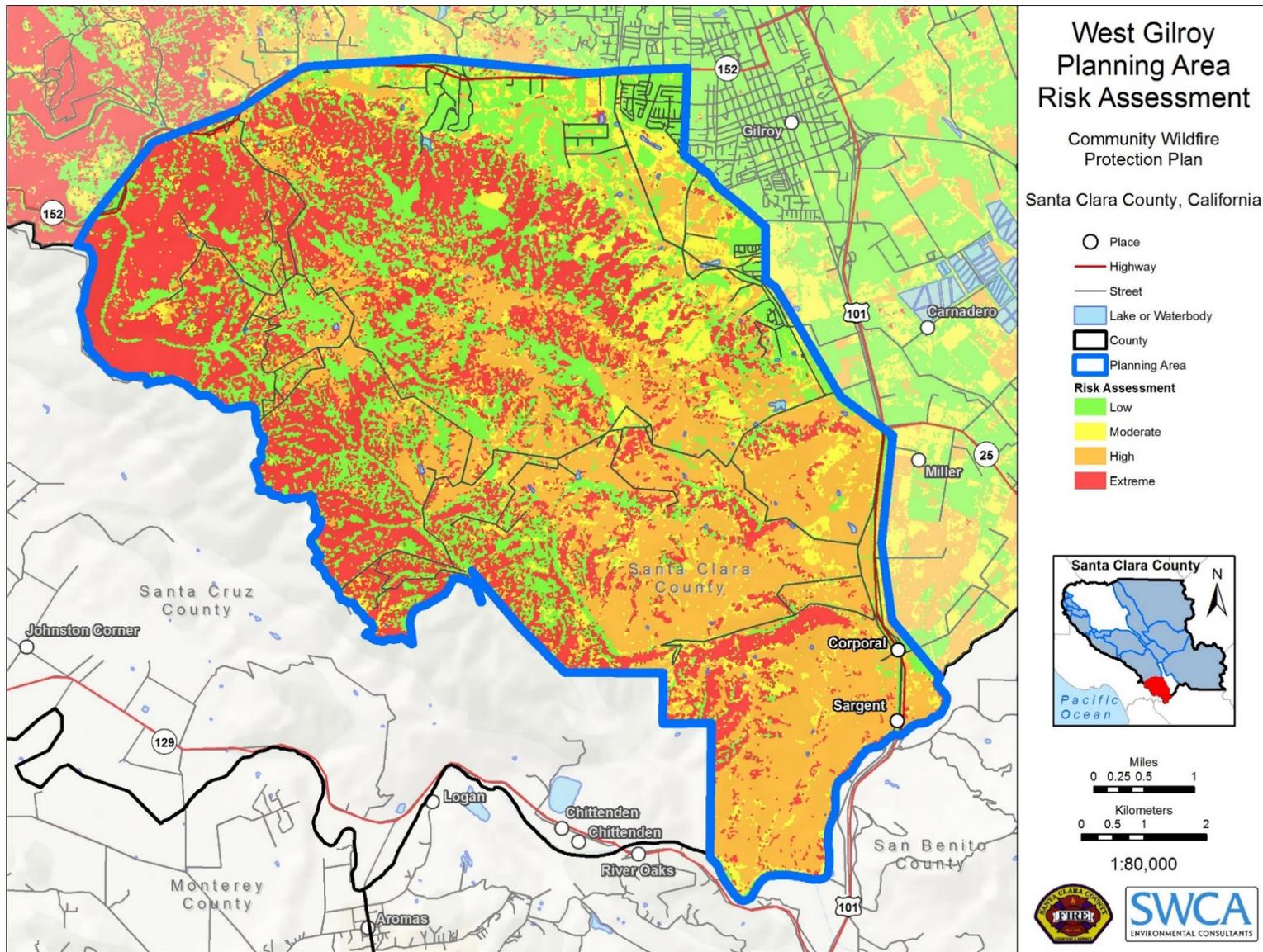


Figure 2-5.2. West Gilroy Composite Risk/Hazard Assessment.

## **MITIGATION PROJECTS AND PRIORITIZATIONS**

The following project matrixes have been developed by the community and Core Team to direct specific project implementation for SCCFPD (Table 2-5.1–Table 2-5.4). The matrixes below are tiered to the strategic goals presented in the body of the Santa Clara County CWPP through project IDs in the first column of each matrix. The matrixes are broken down into projects to address:

- Hazardous Fuel Reduction
- Firefighting Capability
- Public Education and Outreach
- Structural Ignitability

**Table 2-5.1. Recommendations for Fuel Reduction Projects in West Gilroy**

ID	Project Description	Location and land ownership	Method	Serves to:	Timeline for Action	Priority (1,2,3)	Monitoring	Resources/funding sources available
<b>Strategic Goal: FR7: Develop roadside fuel treatment program, including suite of methods available and sustainability mechanism</b>								
<b>SCC-FR7.1</b>	Improve ingress/egress capabilities through installation of fuel breaks and brushing.	SCC WUI areas. Public and privately owned/maintained road systems.	Limb trees and remove brush along roadways to at least reclaim full original width and height. Goal: minimum 20' clear width and 15' clear height.	Ensure the safe and rapid evacuation of residents during fire response and suppression activities.	Fall 2016	1	Regular maintenance needed to ensure the fuel break remains clear of vegetation. Monitor for erosion and invasive species.	County General Fund Budget. CAL FIRE crews – County Public Works budget. Local community groups - donations and grant funding.  USDA-NRCS
<b>SCC-FR7.2</b>	Install roadway buffers and cut grass earlier in the season	All WUI areas, Public and privately owned/maintained road systems.	Limb trees and remove brush along roadways to at least reclaim full original width and height. Goal: minimum 20' clear width and 15' clear height.  Cut grass earlier.	Ensure the safe and rapid evacuation of residents during fire response and suppression activities and reduce potential for fire spread across roadways.	Fall 2016	1	Regular maintenance needed to ensure the fuel break remains clear of vegetation. Monitor for erosion and invasive species.	CAL FIRE crews - Public Works budget. Local community groups - donations and grant funding.
<b>SCC-FR7.3</b>	Improve man-made fuel breaks around individual structures or groups of residences	All WUI areas. Public and privately owned/maintained road systems.	Clear brush, limb trees, and remove dead woody materials, located within 10' of road edges.	Ensure the safe and rapid evacuation of residents during fire response and suppression activities.	Spring 2017	H	Regular maintenance needed to ensure the fuel break remains clear of vegetation. Monitor for erosion and invasive species.	CAL FIRE crews - Public Works budget. Local community groups - donations and grant funding.

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ID	Project Description	Location and land ownership	Method	Serves to:	Timeline for Action	Priority (1,2,3)	Monitoring	Resources/funding sources available
<b>Strategic Goal: FR4: Encourage use of prescribed fires where ecologically sound and feasible</b>								
<b>SCC-FR4.1</b>	Encourage use of prescribed fires where ecologically sound and feasible	County Parks, State Parks, CAL FIRE, private lands	Utilize prescribed burn planning that follows agency and regulator protocols. Closely follow plan prescriptions	Reduce fuel loading of fine fuels and understory species to mitigate potential for intense fire behavior in the event of an unplanned ignition.	Ongoing	1	Regular monitoring needed to ensure against environmental damage and invasive species into burned areas. Monitoring to determine project success in reducing fuel loading.	Grants: CAL FIRE VMP program, SRA (only on SRA lands), CA FSC, CFIP, NRCS
<b>S. Santa Clara County FPD Specific Projects- non tiered</b>								
<b>SCC 1</b>	Establish fuel breaks	West side Gilroy fuel break and hazardous fuel reduction. Joint project with City of Gilroy that straddles Gilroy city limit line south of Hecker Pass Road (Highway 152)	Establish new fuel break	Slow the spread of fire up this slope. Reduce the intensity of possible flame fronts.	Spring 2018	2	Regular maintenance needed to ensure the fuel break remains clear of vegetation. Monitor for erosion and invasive species.	City of Gilroy - General Fund Budget. CAL FIRE crews and dozers - Public Works budget. Local community groups - donations and grant funding.
<b>SCC 3</b>	Establish fuel breaks and maintain existing fuel breaks	WUI private property and County Parks and Open Space Authority.	Create minimum 100ft fuel modifications from top slope structures.	Slow the spread of fire up slope to help address concerns with minimal set-back. Reduce the intensity of possible flame fronts.	Spring 2017	H	Annual maintenance needed to ensure the fuel break remains clear of vegetation. Monitor for erosion and invasive species.	Public Works budget. Local community groups - donations and grant funding.
<b>SCC 4</b>	Utility line clearance projects	Open space properties,	Enforcement of utility clearances will be crucial for minimizing the likelihood that fires are ignited from this potential source.	Reduce potential of ignition from utility lines and reduce potential impact to utility lines in event of wildfire	Spring 2017	H	Annual maintenance needed to ensure the ROW remains clear of vegetation. Monitor for erosion and invasive species.	Utility company funds.

**Table 2-5.2. Recommended Firefighting Capability Projects in West Gilroy**

ID	Project Description	Fire Department/Agency	Benefits of the Project to the community	Timeline/ Priority (1,2,3)	Resources/funding sources available
<b>Strategic Goal: FC13: Develop a coordinated approach between fire jurisdictions and water supply agencies to identify needed improvements to the water distribution system, initially focusing on areas of highest wildfire hazard.</b>					
SCC-FC13.1	Improve firefighting water supplies in rural areas.	SCC FPD	Increase available fire flow in these neighborhoods. Provide redundancy in water supply infrastructure Increase capacity of gravity fed water supplies	Fall 2018	General Fund
SCC FC13.2	Improve firefighting water supplies in areas with inadequate supplies and limited hydrants.	SCFSC CAL FIRE	Increase available fire flow in these neighborhoods. Add fire hydrants to areas dependent of private wells. Provide redundancy in water supply infrastructure Increase capacity of gravity fed water supplies	Fall 2016/1	General Fund
SCC FC13.3	Mapping of available private water supplies	SCFSC , CAL FIRE	Increase knowledge of available water sources prior to a wildfire event to improve fire response capability.	Fall 2016/1	
<b>Strategic Goal: FC8: Where road systems are antiquated and do not provide for proper evacuation or two way flow, require removal of obstructions or upgrade to minimum 2 lanes road system over time</b>					
SCC-FC8.1	Improve ingress/egress capabilities. All areas in SCC FPD	SCC FPD and CAL FIRE	Establish secondary access roads in current single access areas  Ensure the safe and rapid evacuation of residents during fire response and suppression activities	Fall 2018/ 2	County General Fund  - Public Works budget.  Local community groups - donations and grant funding
<b>Strategic Goal: Implement County wide program to replace existing house number markers with reflective markers that meet consistent standard.</b>					
SCC-FC12.1	Improve road, street, and address, identification.	WUI areas. Privately owned/maintained road systems.	Repaint, re-letter, or replace road/street signs that do not meet existing standards, install additional road/street signs to ensure identification from either direction of travel. Post community address signs to identify unmarked residences. Ensure the rapid identification of streets, roads, and addresses, during an emergency.	Spring 2017/2	General Fund Budget. Local community groups - donations and grant funding. HOAs - annual d
<b>Specific Project- non tiered</b>					
SCC-FC1	Add hand crew capabilities	CAL FIRE, Santa Clara County Juvenile Justice System	Utilize juveniles in corrections setting for public service Form hand crews from available inmates for rapid response and increased firefighting capacity.	Summer 2018/2	Undetermined

**Table 2-5.3. Recommended Public Education and Outreach Projects in West Gilroy**

ID	Project	Presented by	Target Date	Priority (1,2,3)	Resources Needed	Serves to
<b>Strategic Goal: EO3: Organize a community group made up of residents and agency personnel to develop materials and communicate relevant defensible space messages. Could coordinate with fire departments or Fire Safe Council.</b>						
<b>Possibility to coordinate actual implementation of defensible space and slash clear-up with the local Eagle Scout group or high school volunteers.</b>						
SCC EO3.1	Encourage retrofit of roofs and measures to “harden” property to wildfire	FireSafe Councils, SCC Fire, CAL FIRE	Within 2 years	1	Workshop expenses, personnel Workshop venues Demonstration site Strategize on avenues for engaging the public. Be opportunistic- engage residents following a local wildfire or at existing well-attended events- i.e. annual BBQ, Pancake Breakfasts, Open days offered by Fire Departments.	Increase compliance with County code. Reduce fire risk level for individual parcels and community as a whole.
SCC-EO3.2	Organize a community group made up of residents and agency personnel to develop materials and communicate relevant defensible space messages. Could coordinate with fire departments or Fire Safe Council.	FireSafe Council, fire departments, local residents, Eagle Scouts, High School Community Volunteer Program	Spring 2017	1	Funding to help cover costs of materials (green waste removal or chipper) and participation.  People trained in defensible space practices.	Engage diverse stakeholders in reaching out to community members and encourage defensible space practices. Empower homeowners to make affordable and effective changes to reduce the vulnerability of individual homes.
SCC-EO3.3	Homeowner's Guide  Provide copies of an existing guide for homeowners in the WUI to inform them and encourage them to prepare.	SCC FPD/CAL FIRE	Spring 2017	2	Funding to purchase and distribute 5000 copies of the guide.	Give Residents detailed and locally specific tools that they can use to improve preparedness
SCC-EO3.4	Defensible Space Education and outreach	SCC FPD, CLVFD, UVFD, CAL FIRE, Fire Safe Council	Within a year	1	Funding to help cover costs of materials (green waste removal or chipper) and participation. People trained in defensible space practices.	Engage diverse stakeholders in reaching out to community members and encourage defensible space practices. Empower homeowners to make affordable and effective changes to reduce the vulnerability of individual homes.
<b>Strategic Goal: EO12: Promote and increase the use of prescribed burning as a fuels reduction method.</b>						
SCC EO12.1	Where appropriate implement Prescribed burning programs.	County Parks, County Open Space Authority	Within 2 years	2	Prescribed burn prescription, Research and costs of producing	Protect communities and infrastructure by reducing fuel loads.

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ID	Project	Presented by	Target Date	Priority (1,2,3)	Resources Needed	Serves to
<b>Strategic Goal: EO7: Plan livestock evacuation routes and inform communities.</b>						
<b>Work with emergency management officials to plan evacuation routes for residents with livestock and then hold community meetings to disseminate to the public.</b>						
SCC-EO7.1	Address density of livestock in planning area and provide plan in event of wildfire	Emergency management officials, livestock agencies/ civic groups	Fall 2018	2	GIS software or maps-coordinate with EQ Clearing House- GIS sharing.	Protect communities, livestock and infrastructure through increased awareness.
<b>Strategic Goal: EO13: Implement Firewise Communities programs.</b>						
<b>Work with communities to participate in Firewise Communities and prepare for fire events. Hold Firewise booths at local events for example during the October Fire Awareness Week each year.</b>						
SCC-EO13.1	Encourage the SCC FPD neighborhoods to become certified under Firewise	Fire Safe Council, CAL FIRE, SCC FPD	Fall 2018	2	Firewise Communities educational materials.	Protect communities and infrastructure through increased awareness and defensible space.

**Table 2-5.4. Recommendations for Structural Ignitability Projects in West Gilroy**

ID	Project	Presented by	Programs Available	Description	Contact	Priority (1,2,3) /Date
<b>Strategic Goal: SI 1: Retrofit/eliminate flammable roofs</b>						
SCC-SI 1-1	Retrofit/Eliminate flammable roofs	County Planning in conjunction with County Fire and municipalities	FEMA grants	Require elimination of all flammable roofs through attrition or time deadline	County Planning	1/ By 2030
<b>Strategic Goal- SI 10: Public education program for embers and problems associated with embers, property hygiene, defensible space</b>						
SCC-SI10.1	WUI Fire Protection Workshops	Local Fire Marshals-  All residents would be encouraged to participate.	Firewise, agency outreach personnel, Ready-Set-Go. Tailor to specific risk/hazards in each community	Offer hands-on workshops to highlight individual home vulnerabilities and how-to techniques to reduce ignitability of common structural elements.	Fire Marshal, Firewise personnel, CAL FIRE	High/Spring 2017
<b>Strategic Goal- SI4: Adopt common defensible space standards throughout the county and Strategic Goal- SI 19: Create a countywide defensible space ordinance for parcels below certain size acreage (parcel size: i.e. 2 acres?), if not cleared by owner then county will clear. Could be tied to County weed abatement program.</b>						
SCC-SI4.1  and  SCC-SI9.1	Stronger defensible space regulations.	Regional Fire Marshals. To be adopted locally in the 2016 CFC cycle.	Based on existing State laws and standards.	New emphasis on maintenance. Presented in plain language and a logical progression. Eliminate current jurisdictional limitations.	Regional Fire Marshals.	Spring 2017
<b>Strategic Goal SI7: Promote Firewise Community recognition program countywide; consider SCL amendments to Fire wise; partner with CERT and Neighborhood Watch.</b>						
SCC-SI7.1  Links to SCC-EO-13.1	Firewise Communities certification  Establish and support a new Firewise Communities Group	Fire SafeCouncil, CAL FIRE, SCCFPD	Firewise Communities USA	Fire risk analysis of SCCFPD neighborhoods. Staff hours to facilitate and support.  Give residents ownership of the fire problem, provide resources and information necessary to inform and prepare the community for fire.	SCCFPD/CAL FIRE.	1/ Fall 2018