### Stream Conservation Area for San Geronimo Valley

Marin County Planning Commission June 13, 2022

Marin County Community Development Agency

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- Overview of Planning Commission Recommended SCA Ordinance
- Proposed Changes
- Recommendation
- Next Steps





## The "Three-legged Stool"



- Landowner Assistance
  Program
- Resource materials
- Community organizations



- Stream restoration
- Fish barrier removal program
- Voluntary use of BMP's
- Sedimentation reduction
- County maintenance activities (culvert replacements)

- Creek Permit (existing)
- Stream Ordinance (proposed)

## **Development in SCA Context**

#### **Development:**

An activity, use of land, or other improvement that would entail grading, expose soil, increase lot coverage, increase surface runoff, remove vegetation, or alter a bed or bank of a stream

 $\bigstar$ 

#### **Exemptions**

Land use permit not required.

People can continue to use and maintain their property

#### Site Plan Review Permit

Brings previously exempt development under permit <u>if it occurs in SCA!</u>

## **Overview of the Proposed SCA Ordinance for San Geronimo Valley**





## Planning Commission Recommended SCA Ordinance:

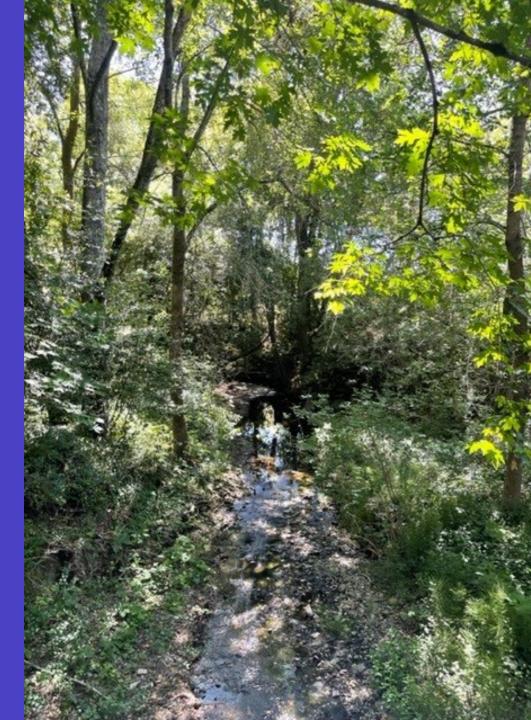
#### **Summary of Development Code Amendments**

- Rezone all lots within San Geronimo Valley to add SGV zoning "overlay"
- Establish new San Geronimo Valley development standards
- Establish SCA buffer along perennial, intermittent, & certain ephemeral streams
- Require Site Plan Review permit application
- Require site assessment

- Require projects incorporate Standard Management Practices (SMPs)
- Limit allowable land uses within the SCA
- Allow additions up to 500 s.f. of cumulative floor area
- Require finding that development does not adversely alter hydraulic capacity; result in a net loss of habitat acreage, value, or function; and/or degrade water quality
- Ensure LID applied throughout San Geronimo Valley watershed



Proposed Changes to the PC Recommended SCA Ordinance for San Geronimo Valley



### **1. Address Low Impact Development Standards**

#### **Staff proposed change:**

What: Modify Section 22.30.045 to add design standards for certain roads & driveways and development that would create & replace 500 s.f. of lot coverage.

Modify Section 22.52.020 to require Site Plan Review for the above.

Would apply throughout Valley.

**Why**: Control & reduce fine sediment to streams to protect salmonid winter rearing habitat.

#### Design Checklist **RAIN GARDENS** considerations are recommended. infiltration in very clayey soils. Contact municipal staff for guidance on how to properly Stormwater Control for Small Projects □ Locate the rain garden at least 10 feet from install an underdrain home foundation, 3 feet from public sidewalks, and 5 feet from private property lines. If rain gardens need to be located closer to buildings An overflow should been incorporated in the rain garden to move water that does not infiltrate to and infrastructure, use an impermeable barrier another pervious area and away from the home's foundation or neighboring property. □ Locate the rain garden to intercept and collect runoff from a roof downspout or adjacent Drought and flood resistant native plants are highly recommended and a variety of species impervious area. should be planted. Avoid invasive plants. Size the rain garden appropriately based on the Rain gardens are landscaped areas designed to capture and Contact municipal staff for a list of plants soil type and drainage area (see Page 1). reat rainwater that runs off roof and paved surfaces. Runoff is appropriate for rain gardens from the applicable Do not locate the rain garden over septic countywide stormwater guidance. A list of directed toward a depression in the ground, which is planted systems or shallow utilities. Locate utilities before digging by calling Underground Service with flood and drought-resistant plants. As the water nourishes invasive species may be found at the California the plants, the garden stores, evaporates, and infiltrates rainwater into the soil. The soil absorbs runoff pollutants, which Invasive Plant Council website (www.cal Alert at 811 or (800) 227-2600. ipc.org). are broken down over time by microorganisms and plant roots. Locate the rain garden on a relatively flat area, away from steep slopes. If you plan on moving a large quantity of soil, you may need a grading Rain gardens are a relatively low-cost, effective, and aesthetically pleasing way to reduce the amount of stormwater permit. Contact your local municipality for that runs off your property and washes pollutants into storm further assistance drains, local streams, and the San Francisco Bay, While protecting water quality, rain gardens also provide attractive landscaping and habitat for birds, butterflies, and other animals, especially when planted with native plants Maintenance Considerations Is a Rain Garden Feasible for My How Large Does My Rain Garden Once a rain garden is installed, the following steps will Standing water should not remain in a rain garde Need to Be? Project? help the garden function effectively. for more than 3 days. Extended periods of flooding will not only kill vegetation, but may result in the breeding of mosquitos or other A general recommendation for a garden with a 6-inch ponding depth is to size the rain garden to approximately 46 of the controlluting impervious area. Your soil type will affect how the rain garden should be sized because the water influention rate depends on the soil type, rain gardens should be larger in areas with slower influention. The following table can be used as □ Rain gardens should be irrigated periodically (as Rain gardens are appropriate where the following site needed) during dry months, especially while plants characteristics are present: are being established. Plants should be inspected for health and weeds should be removed as often as Rain gardens should be installed at least 10 feet from building foundations. The ground adjacent to the building should slope away at a 2% minimum slope. A downspout extension or "swale" (landscaped channel) can be used to convey rain from a roof directly into a rain garden. Rain gardens can also be located necessary Apply about 2 inches of mulch and replace as needed. Mulch with a material that will not float eneral ouidance away such as compost or a larger sized hardwood mulch (avoid microbark, for example). downstream from a rain barrel overflow path. Rain gardens should be at least 3 feet from public sidewalks (or have an appropriate impermeable barrier installed), 5 feet from property lines, and in an area where potential overflow will not run onto neighboring properties. Areas of erosion should be repaired. Further erosion Contributing Area (sq. ft.) Rain Garden Area (sq. ft.) can be prevented by stabilizing the eroding soil with around cover or using energy dispersion technique (e.g., splashblock or cobbles) below downspouts. The site should have well-drained soil and be relatively flat. Soil amendments can improve infiltration in areas with poor drainage. Add about 3 inches of compost to Avoid using synthetic fertilizers or herbicides in your rain garden because these chemicals are water pollutants any soil type and till it in to a depth of about 12 1,101 - 1,300 A front or backyard can work well for a rain garden, 1 501 - 200 especially in areas where the slope naturally takes the stormwater. The City of Los Angeles and Geosyntec Consultants are acknowledged for providing text, formatting and various images used in Projects adding roof or other impervious areas in ex f 2,000 sq. ft. should add 20 sq. ft. of rain garden urface area per every 500 sq. ft. of additional area. this fact sheet. Contra Costa County is acknowledged for an image used in the fact sheet oved August 23, 2012 -- corrected November 27, 2012

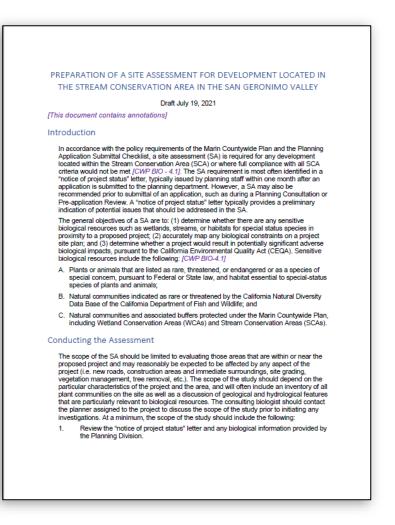
Source: BAASMA Rain Garden Fact Sheet



## **2. Modify Site Assessment Requirements**

#### **Proposed changes:**

- What: Modify Section 22.30.045 to clarify Site Plan Review requirements.
- Why: Codify standards to ensure compliance with the Standard Management Practices (SMPs) & "no net loss"





## **3. Expand SCA to all Ephemeral Streams**

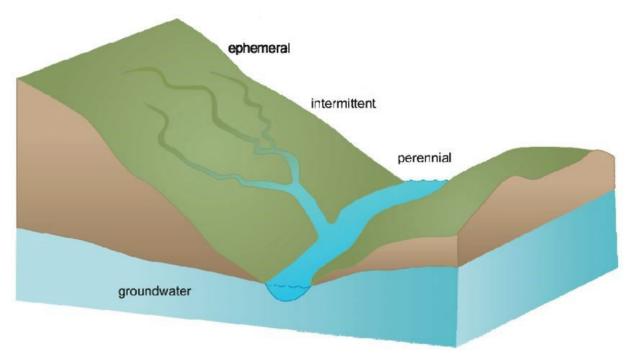
#### **Proposed change:**

**What**: Expand SCA to include all ephemeral streams regardless of extent of riparian vegetation or presence of sensitive resources.

Applies only to ephemerals within San Geronimo Valley.

Ephemerals are mapped and shown on marinmap.org.

**Why**: Ephemerals provide important hydrological functions and are important to overall watershed health.



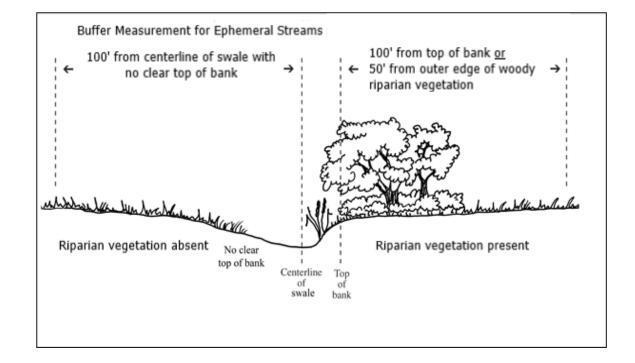
Source: McDonough, O.T. & Hosen, Jacob & Palmer, Margaret. (2011). Temporary streams: The hydrology, geography, and ecology of non-perennially flowing waters. River Ecosystems: Dynamics, Management and Conservation. 259-290.



## 4. Clarify measurement of SCA for Ephemerals

#### **Proposed Change:**

- What: Measure the SCA from top of stream bank or from the centerline of swale if there is no defined top of bank.
- **Why:** Provide clarity; approach consistent w/ 20' drainage setback (CWP Figure 2-2).

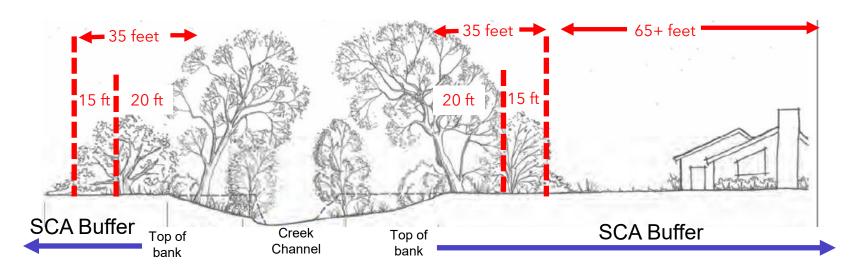




## 5. Create new 35-foot buffer

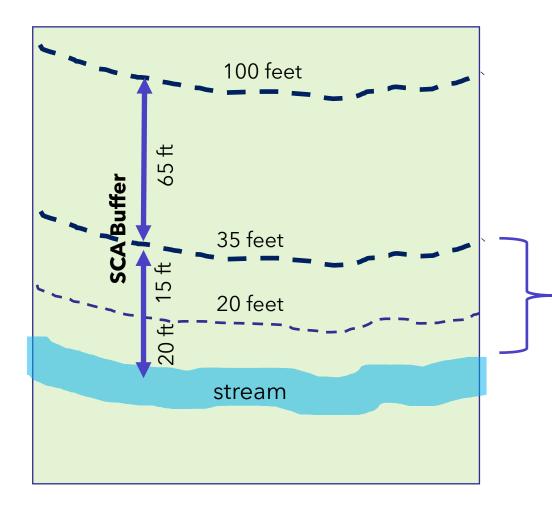
#### **Proposed change:**

- What: Creates new 35-foot buffer along all streams.
  - Measured from stream top of bank, or from centerline of swale for ephemerals without a defined top of bank.
- **Why:** Protect key riparian functions by promoting native vegetation





## What is allowed within the 35-foot buffer?

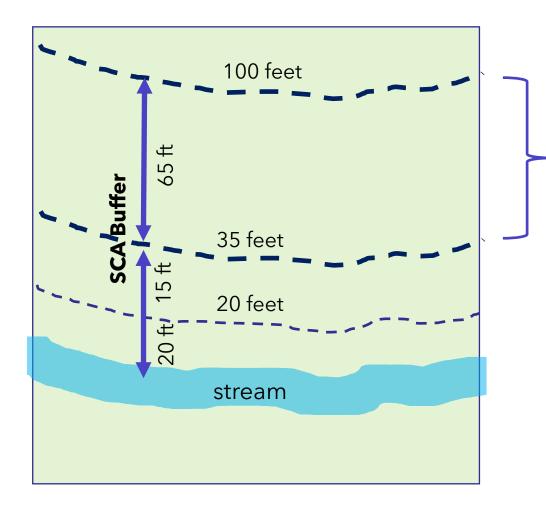


#### **Proposed change:**

<u>Allowable land use outside 35 ft from</u> top of bank within the SCA:

- Maintenance & repair of existing permitted structures within the existing footprint
- Driveway & road crossings
- Habitat improvement projects
- Water monitoring installations
- Passive recreation
- Necessary water & flood control projects

## What is allowed outside 35 ft and within rest of SCA ?



#### **Proposed change:**

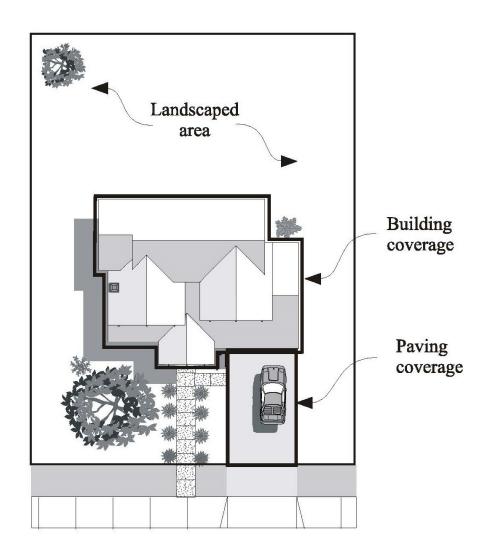
<u>Allowable land use outside 35 ft from top</u> <u>of bank within the SCA:</u>

- Maintenance & repair of existing permitted structures
- Additions up to 300 s.f. of lot coverage
- Driveway & road crossings
- Habitat improvement projects
- Water monitoring installations
- Passive recreation
- Necessary water & flood control projects
- Certain ag uses

## 6. Reduce additions to 300 s.f. of lot coverage

#### **Proposed change:**

- **What:** Reduce potential additions from 500 s.f. of floor area to 300 s.f. of lot coverage.
  - Vertical additions not counted towards lot coverage total.
  - No additional lot coverage once exhausted.
- **Why:** Limit total impervious surface in the SCA.





## What is Lot Coverage?

The percentage of a total site area occupied by buildings and other structures, impervious paving, and other hard surfaces that have water runoff factor of **0.5** or more.

Table 4.1 Runoff Factors for small storms	
Roofs and paving	1.0
Landscaped areas	0.1
Bricks or solid pavers - grouted	1.0
Bricks or solid pavers - on sand base	0.2
Pervious concrete or asphalt	0.1
Turfblock or gravel	0.1
Open or porous pavers	0.1

Source: BAASMA Post-Construction Manual Design Guidance for Stormwater Treatment and Control For Projects in Marin, Sonoma, Napa, and Solano Counties

## 7. Modify exceptions to SCA compliance

#### **Proposed Changes:**

- What: Allow exceptions only if the parcel is **undeveloped** and:
  - 1. A parcel falls entirely within the SCA; and/or
  - Development on the parcel outside the SCA cannot be accomplished even if limited to 1,000 s.f. of lot coverage on the entire parcel that minimizes SCA encroachment or relocated on another portion of the parcel to avoid SCA encroachment.
     No exceptions allowed for uses within
  - No exceptions allowed for uses within the 35-ft buffer.
- **Why:** Limit cumulative impervious surface in the SCA.





# 8. Modify exemptions for removal of pyrophytic vegetation

#### **Proposed Change:**

- What: Removal of any live tree or vegetation greater than 6" dbh that is below top of bank <u>would not be exempt</u> unless the tree or vegetation presents an immediate hazard to public safety.
- Why: Mature trees provide high quality habitat elements when located immediately adjacent to the stream channel.



Large trees provide roots to stabilize banks and provide habitat for fish.

Source: San Geronimo Valley Salmon Enhancement Plan

## 9. Clarify "no net habitat loss"

#### **Proposed change:**

- What: Clarifies "no net habitat loss" to mean complete replacement of habitat acreage, value and function.
- **Why:** Ensure rehabilitation of habitat quantity and quality.
- **How:** Onsite replacement with native vegetation at a 2:1 ratio.

Monitor at least five years to ensure effective replacement.

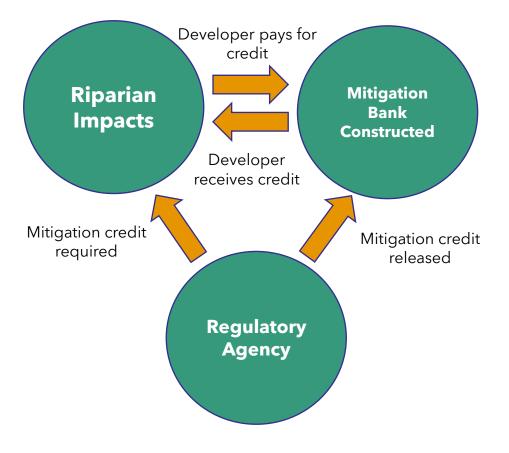




## **10. Require habitat restoration fee**

#### **Proposed Change:**

- **What:** All Site Plan Review permit approvals required to pay impact fee.
  - Program fee tbd nexus study.
  - Onsite mitigation until mitigation bank is established.
- **Why**: Offset development impacts to streams to provide funding for restoration and enhancement of riparian habitat in the Valley.



Mitigation Bank



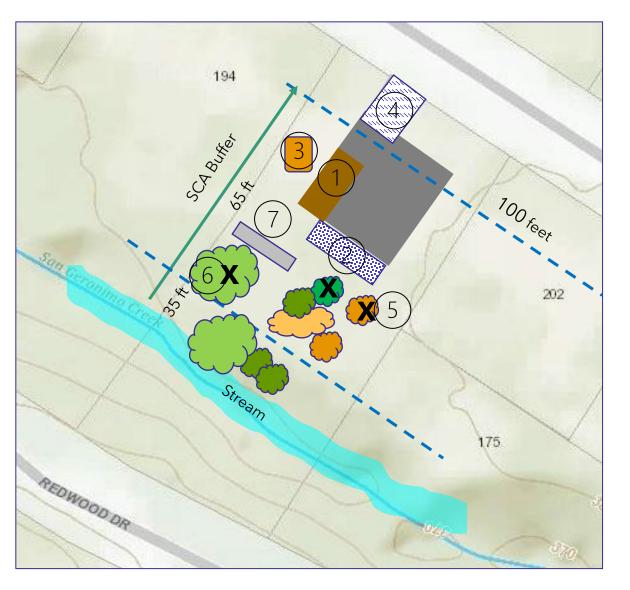
## **10. Enforce SCA Compliance**

#### **Proposed change:**

- **What:** Amplify violations of ordinance provisions are a public nuisance subject to abatement remedies, including administration citation fines.
  - <u>All</u> Marin County Code provisions are subject to the same process for correcting and/or abating a nuisance or violation.
- **Why**: Ensure adequate compliance and enforcement of measures for the protection of riparian habitat.



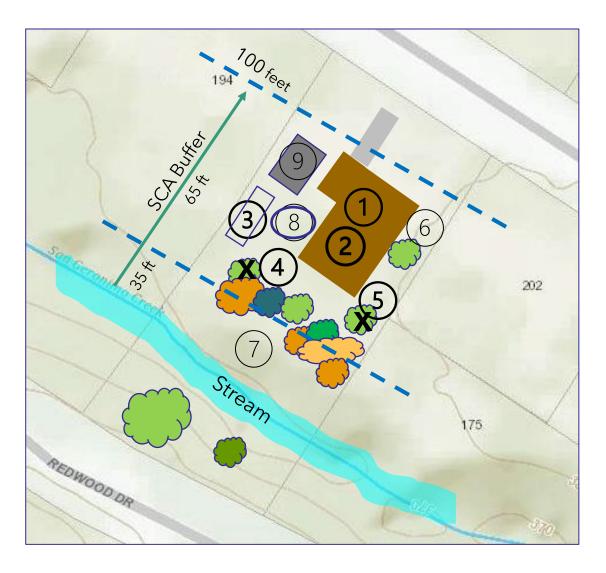
## **Examples of activities that will require a Site Plan Review permit**



- 1. Additions to existing structures
- 2. Accessory structures (deck, patio, shed, pool)
- 3. Dog run or chicken coop
- 4. New or expanded driveway
- 5. Removal of native vegetation
- 6. Tree removal (healthy native protected/heritage tree)
- 7. Retaining wall



## Examples of Activities exempt from Site Plan Review Permit



- 1. Interior remodeling
- 2. Repair & maintenance
- 3. Repair & maintenance of septic systems (including replacement)
- 4. Trim and removal of dead, exotic, & fire prone vegetation
- 5. Removal of pyrophytic live trees or vegetation
- 6. Planting of (non pyrophytic) native vegetation
- 7. Mowing, trimming, weeding
- 8. Temporary/movable objects (trampolines, RVs, etc)
- 9. Category 1 Accessory Dwelling Units
- 10. Solar energy systems & electronic vehicle charging stations



## **Other Changes**





## **Resource Materials**



Planning Application Submittal Guide



Site Assessment Requirements



Standard Management Practices San Geronimo Valley Fact Sheet



Landowner Resource Guide for Properties Near Streams



CWP riparian protection policies

Frequently Asked Questions SCA webpage

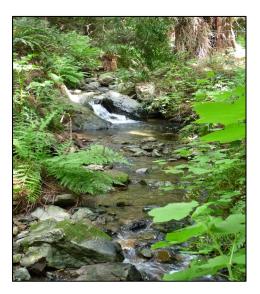


## Recommendation

Approve the following:

- Resolution to Amend the Development Code for the SCA Ordinance; and
- 2. Resolution to Adopt the Rezoning for the San Geronimo Valley











## **Next Steps**



Board of Supervisors action on Revised SCA Ordinance.

#### Summer/Fall

Community outreach, workshops, demonstration projects & technical assistance

9/1 Adopt point of sale pilot

#### 10/11

Settlement finalized; SCA Ordinance becomes effective

Launch anonymous complaint & inspection programs

#### Spring 2023

March: Launch point of sale pilot

Report to Board on SCA Ordinance status





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## Thank you

