

**REQUEST FOR PROPOSALS
FOR PROFESSIONAL SERVICES
FOR A
LANDOWNER ASSISTANCE PROGRAM
FOCUSED ON SALMON HABITAT RESTORATION
BY THE
MARIN COUNTY DEPARTMENT OF PUBLIC WORKS**

A. PROJECT DESCRIPTION AND BACKGROUND

The County of Marin Public Works Department is launching a Landowners' Assistance Program in the San Geronimo Valley and is seeking to hire consultants, aka a 'Technical Team' to assist in implementing the program. The Landowner Assistance Program is a collaborative effort between the County of Marin, the San Geronimo Valley Planning Group (a local non-profit), and UC Cooperative Extension, referred to hereafter as the 'Program Partners'. The Technical Team will serve as consultants in a contract with the County of Marin to implement the project on-the-ground. The program is being funded by grants from the State Coastal Conservancy and the Department of Fish and Game.

The objective of the program is to work with property owners to provide them with individual parcel evaluations followed by a report of findings and a set of written recommendations tailored to their property. A range of typical cost estimates for restoration actions will be provided where applicable. The recommendations will give property owners professional advice and specific direction for taking action on a range of landowner issues related to salmon protection and restoration. Site evaluations will be guided by the set of recommendations included in the recently completed San Geronimo Valley Salmon Enhancement Plan (SEP) (Feb 2010)¹. This list of recommendations is provided in the Attachments to this RFP and the full Salmon Enhancement Plan can be found at www.marinwatersheds.com. Look for the San Geronimo Valley under Program Partners link and follow the Final Salmon Enhancement Plan link.

A second component of the program is to develop designs and cost estimates for a set of ten on-the-ground projects. During the parcel evaluations, the Technical Team will identify potential restoration projects and will develop a portfolio of 20 potential projects to be slated for further field review. The 20 projects will be reviewed and ranked in the field by an advisory group comprised of the Technical Team, Program Partners and Local Resource Agency staff. The Technical Team will

¹ San Geronimo Valley Salmon Enhancement Plan; Prunuske Chatham February 2010. See www.marinwatersheds.org for the full plan.

then develop design drawings and cost estimates for a subset of 10 on-the-ground projects. Designs will be developed to a level that can be used for permitting and grant applications for future implementation.

A third component of the overall Landowner Assistance Program, (but NOT part of this RFP) is to provide participating landowners with two technical workshops on topics related to salmon habitat restoration such as riparian restoration, least toxic gardening, installation of rainwater catchment systems etc. The workshops will be developed by UC Cooperative Extension and the Program Partners, and the Technical Team will not be involved in organizing or implementing the workshops.

The goal of this RFP is to hire a Technical Team that will have the professional expertise and experience to work constructively with landowners to address the types of issues identified in the Salmon Enhancement Plan on private property. The selected Technical Team will have a combination of experience including a working knowledge of riparian ecosystems and stream channel dynamics, an understanding of the linkages between land use practices and salmonid habitat requirements, an ability to provide designs and cost estimates for functional and ecologically sensitive restoration projects, and a proven track record working amicably and productively with private landowners.

Background on the San Geronimo Valley Salmon Enhancement Plan (SEP)

The County of Marin committed to develop a San Geronimo Valley Salmon Enhancement Plan to address impacts to salmonid habitat associated with residential development and human activities within the watershed. The Salmon Enhancement Plan presents science-based recommendations to improve and maintain habitat conditions that will support viable populations of salmon and steelhead trout in San Geronimo Valley. The Lagunitas Watershed, which includes San Geronimo Valley, is the largest and most stable population of the endangered coho salmon south of Fort Bragg and presents one of the best opportunities to preserve and restore coho in central California. In addition to coho salmon, San Geronimo also supports threatened steelhead trout and a small fall run of Chinook salmon.

The first step in developing the SEP was to complete a science based document: Existing Conditions Report for San Geronimo (Stillwater Sciences 2009)². The ECR summarized existing information, supplemented that information with new field work, and established linkages between

² San Geronimo Valley Salmon Enhancement Plan: Existing Conditions; Stillwater Sciences January 2009.

land use in the San Geronimo Creek watershed and cumulative impacts on channel conditions, aquatic habitat, and salmon. The Existing Conditions Report provides the scientific basis for the recommendations in the SEP. The writing of the SEP was completed in parallel with a two year building moratorium in the San Geronimo Valley, which ended in February 2010, at which time the Marin County Board of Supervisors officially accepted the plan.

Implementation of the Salmon Enhancement Plan with Local Landowners

The Salmon Enhancement Plan's objective was to define restoration and enhancement goals, identify reach-scale priorities and recommend implementation actions focused on protecting and restoring salmonid habitat. Many of the final recommendations describe actions and avoidance measures that private landowners can implement on their properties and many landowners in the Valley have shown themselves eager and willing to move forward with implementing them.

Recommendations from the SEP are the foundation for the Landowner Assistance Program and can be found in full text in the Attachments to this RFP.

In preparation for implementing the Landowner Assistance Program, a survey went out to the residents in the San Geronimo Valley based on the recommendations in the SEP. The goal of the survey was to identify what property owners believe is their highest priority needs for technical assistance. Survey results showed a strong need for technical assistance for the issues listed below in no particular order:

- Stream bank stabilization and erosion control
- Least toxic gardening, native plant restoration and integrated pest management
- Removal of fish passage barriers
- Woody debris management
- Proper disposal of chemicals and other toxic materials
- Rainwater infiltration practices, managing storm water on-site and gully repair.
- Invasive weed removal and vegetation management for fire prevention

B. PROGRAM PARTNERS - ROLES AND RESPONSIBILITIES

The 'Program Partners' (PP) include the County of Marin, the San Geronimo Planning Group (a local non-profit), and UC Cooperative Extension. Program participants include up to 40 landowners in the San Geronimo Valley. The roles and responsibilities of each entity are described below.

County of Marin Public Works

The County of Marin is the lead on this program and will be responsible for securing and administering grant funds, hiring and administering the contract with the Technical Team, and collaborating with program partners on meetings and community outreach events and workshops. The County will also be responsible for scheduling parcel evaluation dates with the Technical Team and coordinating with the PG, who will schedule landowners to be available during site evaluations.

San Geronimo Planning Group (PG)

The San Geronimo Planning Group will fulfill a number of functions, including serving as an intermediary between the County and private landowners, who can be wary of having the County involved with issues on their land, due to the regulatory nature of local government. The Planning Group will participate in the selection of the Technical Team and will assist in the scheduling of site visits between landowners and the Technical Team. The PG will take the lead in organizing both the community orientation meeting to introduce the Technical Team and in the final wrap-up meeting between the Technical Team and the participating landowners.

UC Cooperative Extension

UC Cooperative Extension will participate in an advisory role to the County of Marin and the Planning Group for organization and development of site evaluation tools. They will also prepare content and delivery for two workshops that will occur during the project timeframe, with a focus on practices that can be implemented on private property such as non-native plant removal, riparian restoration and least toxic gardening. These workshops will occur during the program timeframe to provide engaged landowners information and resources for on-parcel implementation of salmon protection and restoration activities.

San Geronimo Valley Landowners

As program participants, the landowners will attend the orientation meeting with the Technical Team, and will be available for scheduled appointments with the Technical Team. Each landowner will receive a written report with site specific recommendations and up to ten landowners will receive technical assistance and designs for on-the-ground projects on their lands. With this information in hand, landowners will then be ready to move into the next phase of implementation and will be poised to seek grant funding to assist with this next step in salmon restoration on their properties. During the project, participating landowners will also attend two workshops hosted by the County of Marin and UC Cooperative Extension.

C. SCOPE OF WORK

The Technical Team will provide professional services for the following items:

TASK 1: PREPARATION FOR PARCEL ASSESSMENTS

- 1.1 Participation in a kick-off meeting with Program Partners. The meeting will allow the group to set a schedule and confirm roles, responsibilities and lines of communication, as the project gets underway.
- 1.2 Work with the Program Partners to develop evaluation tools for conducting parcel evaluations, utilizing protocols where available from existing sources. Parcel evaluations will be based on recommendations from the San Geronimo Valley Salmon Enhancement Plan. A DRAFT set of parcel evaluation tools shall be submitted to the County of Marin for review and approval before a FINAL set is adopted and utilized.
- 1.3 Participate in an orientation meeting with the Program Partners and Landowners to introduce participants to the Technical Team and to familiarize everyone with the core content of the parcel evaluations.

Task 1 Deliverables:

- Participation in a kick-off meeting with the Program Partners
- A Draft and Final set of tools to be used when conducting parcel evaluations.
- Content and delivery of one public orientation meeting with Landowners and Program Partners.

Program Partners to provide:

- List of parcels and schedule for landowners for site evaluations.
- Review of DRAFT evaluation tools (allow two weeks for review).
- Logistics for the landowner orientation meeting, including room rental and invitations to participating landowners.

TASK 2: CONDUCT PARCEL EVALUATIONS

- 2.1 Develop a DRAFT standard format for conducting parcel evaluations and submit to Program Partners for review and input.
- 2.2 Develop a FINAL standard format for conducting parcel evaluations.

- 2.3 Work with the County of Marin to schedule parcel evaluations with participating landowners.
- 2.4 Conduct parcel evaluations and collect data on 40 properties.
- 2.5 During the evaluations identify up to 20 locations where on-the-ground restoration projects may be warranted and describe those locations and potential projects to the level that could then be used in a prioritization process to select the best sub-set of projects for the design phase of the project.
- 2.6 Develop a DRAFT standard format for the evaluation reports and recommendations and submit to Program Partners for review and input.
- 2.7 Develop a FINAL standard format for parcel evaluation reports and written recommendations.
- 2.8 Write evaluation reports of site findings, including a set of recommendations and estimated range of cost where applicable for each parcel and deliver them to each participating landowner via US Postal Service.

Task 2 Deliverables:

- A DRAFT and FINAL standard format for conducting parcel evaluations.
- Completed parcel evaluations on 40 properties.
- Identify and collect preliminary identifying data on 20 potential restoration projects.
- A DRAFT and FINAL standard format for written reports, recommendations and cost estimates.
- Deliver written reports with a set of recommendations and estimated range of costs where applicable to each of the 40 participating landowner in a standard format.

Program Partners to Provide:

- Review of DRAFT format for written reports, recommendations and cost estimates (allow two weeks for review).
- Coordination on scheduling landowners for site visits.
- Liaison between landowners and Technical Team should the need arise.

TASK 3: PRIORITIZATION OF SITE SPECIFIC RESTORATION PROJECTS

- 3.1 Collaborate with Program Partners to develop criteria and a scoring system for evaluating up to 20 potential restoration projects. Criteria and scoring will be used to rank projects for final selection.
- 3.2 Conduct a second round of site visits to the identified 20 potential restoration projects (see Task 2.3). Evaluate each potential project for inclusion in the design phase of this project. Program Partners and representatives from resource agencies such as Department of Fish

and Game, NOAA, Coastal Conservancy and the Regional Water Quality Control Board will participate in one round of field visits and will assist in the prioritization and selection of projects for the design phase of this project.

3.3 Work with Program Partners to identify opportunities where adjacent landowners could implement projects collaboratively with the intention of promoting and achieving “reach-scale” restoration.

3.4 Confer with Program Partners on which sites have willing landowners that desire to move forward with implementation of on-the-ground restoration projects.

3.5 Participate in the final selection of up to 10 projects that will be included in the design phase of this program.

Task 3 Deliverables:

- Criteria for evaluating, scoring and prioritizing potential restoration projects.
- Field evaluations of 20 potential restoration projects with a working group of resource agencies, program partners and the technical team.
- Evaluation of potential projects with the goal of combining projects on adjacent properties to create a larger reach-based restoration project.
- Final ranking of all 20 potential restoration projects with a select list 10 highest priority projects to be developed into designs.

Program Partners to Provide:

- Scheduling with landowners for the agency site visits to evaluate and rank potential restoration projects.
- Work with program participants to identify landowners who are ready and willing to pursue restoration projects on their lands.
- Work with landowners to identify stream reaches and/or adjacent parcels where landowners could potentially collaborate on reach-based restoration goals and projects.

TASK 4: DEVELOP CONCEPTUAL DESIGNS AND COST ESTIMATES FOR 10 ON-THE-GROUND RESTORATION PROJECTS

4.1 Work with Program Partners and landowners at each project site to identify the physical extent (footprint) of each project.

4.2 Develop a list of additional information needed for project design at each site as applicable (e.g. topographic surveys, utility locations, property ownership boundaries, existence of easements, hydraulic and hydrology calculations).

4.3 Conduct topographic surveys where needed.

4.4 Conduct utility inquiries where needed.

4.5 Develop hydraulic and hydrology calculations as needed.

4.6 Work with Program Partners to obtain parcel boundaries and easement information.

- 4.7 Develop a DRAFT Technical Memo that describes design solution alternatives for each location and identifies additional information needed to support the final design of the project, such as access routes, extensive topographic surveys, structural or geo-technical engineering, property boundary surveys etc. Submit the DRAFT Technical Memo for review and input from Program Partners, resource agencies and landowners. Allow 3-4 weeks for review.
- 4.8 Receive agency, landowner and Program Partner input on proposed project designs and select a preferred project design for each site.
- 4.9 Develop designs for each project site with adequate detail that the landowner could use the design for environmental permits and grant applications. Adequate detail is defined as including topography, parcel level boundaries, location of utilities, location of all project elements, quantity and type of material(s), equipment needed to implement the project and access routes for equipment and materials. Technical Team should also note for each project site any additional special conditions that would affect the permitting of the project (e.g. the need to dewater the stream, impact to riparian habitat, removal of trees within the riparian corridor, etc...)
- 4.10 Develop cost estimates for each project site with adequate detail that includes type and quantity of materials and equipment needed to implement the project.

Task 4 Deliverables:

- Topography within the project site and adjacent areas as needed to develop project designs.
- DRAFT Technical Memo that describes preliminary conceptual design solutions for each location and includes the additional information needed to support the design of the project.
- 30% designs for selected set of 10 on-the-ground restoration projects, including topography, locations of utilities, property boundaries, easements, and type and quantity of material(s) needed to implement the project. Designs drawings should be submitted electronically in AutoCAD format along with 3 hard copies to the County of Marin.
- Preliminary cost estimates for selected set of 10 projects type and quantity of material(s) and type of equipment needed to implement the project. Cost estimates should be submitted electronically in Microsoft Excel format along with a hard copy.

Program Partners to Provide:

- Coordination and scheduling with landowners for access to property during design phase.
- Property boundaries and easements for each parcel.
- Review and input on Technical Memo of proposed project designs before proceeding with design drawings and cost estimates.

TASK 5- PROGRAM WRAP-UP

5.1 Lead a final wrap-up meeting to provide technical and scientific information to support the parcel evaluation results and to provide advice on how to begin seeking funding and permits for implementation.

Task 5 Deliverables:

Content for and participation in the wrap-up meeting with participating landowners.

Program Partners to Provide:

- Logistics for the wrap-up meeting, including invitations to participating landowners.

D. SCHEDULE- The proposed schedule below reflects timing related to grants, however consultants should propose a schedule that reflects their availability and projected time allotments for outlined tasks.

April 2011	Technical Team enters into contract with Marin County.
May 2011	Kick-off meeting with Program Partners; Develop evaluation tools.
June 2011	Orientation meeting with landowners. Begin scheduling with landowners.
July-Sept 2011	Conduct site evaluations on 40 parcels and collect information on 20 potential restoration projects.
Sept. - Oct. 2011	Conduct site visits of 20 potential restoration projects with review team. Develop priority list of 10 projects selected for conceptual designs.
Oct- Dec	Write parcel reports and recommendations and deliver to all landowners.
Nov.-Dec 2011	Develop technical memo for proposed approach(s) to project designs.
Jan-Feb 2012	Develop conceptual designs and cost estimates for 10 highest priority restoration projects.
Feb 2012	Deliver designs and cost estimates to landowners. Conduct final wrap-up meeting with all participants.

E. PROPOSAL FORMAT AND SUBMISSION

The deadline to submit proposals is Monday at 5:00 p.m. on March 14, 2011

Proposals can be sent via post to Kallie Kull at Marin County Public Works Dept. P.O. Box 4186, San Rafael, CA 94913-4186 or delivered to 3501 Civic Center Dr. Rm. 304 San Rafael, CA 94903 (pls. note different zip code for street address).

Please submit five copies of your proposal, and the proposal shall provide the following information:

- Experience of firm in performing the tasks related to this project along with client references.
- A list of the professionals that will be involved in this project and a summary of their qualifications, including a description of the abilities and experience of the project manager and additional key staff members.
- A work plan to complete the Scope of Work- Section C that includes descriptions of tasks and identifies deliverables where appropriate.
- A total budget/fee that should be broken down and segregated by tasks, as outlined in the Scope of Work, Section C. The total budget/fee should include travel, overhead and additional charges if any.
- A schedule detailing the milestones and time required to complete each task for the work proposed.

F. METHOD AND CRITERIA FOR SELECTION

The Marin County Department of Public Works (DPW) will review and consider all proposals. In such review, DPW will be particularly looking at the following items:

- Experience of both the firm and the individuals comprising the "Technical Team" including: a working knowledge of riparian ecosystems and stream channel dynamics, an understanding of the linkages between land use practices and salmonid habitat requirements, and a proven track record working amicably and productively with private landowners.
- Demonstrated understanding of the Salmon Enhancement Plan objectives and its recommendations.
- Clearly identified tasks and deliverables to complete the scope of work.
- The estimated fee to perform the requested services *per task*, with a detailed budget and fee schedule for all members of the proposed Technical Team.
- Ability to clearly communicate information related to the parcel evaluation tools, individual parcel evaluation reports, and potential restoration projects to Program Partners, participating landowners and resource agency staff.
- Qualifications of the persons assigned to specific tasks.
- The ability to deliver the requested services within the projected timeline.

Inquiries and proposals should be sent to Kallie Kull at P.O. Box 4186, San Rafael, CA 94913-4186, kkull@co.marin.ca.us (415) 499-6532.

This Request for Proposals is also available at the Marin County Watershed Program website at www.marinwatersheds.org - Follow the link under Program Partners to the San Geronimo Valley.

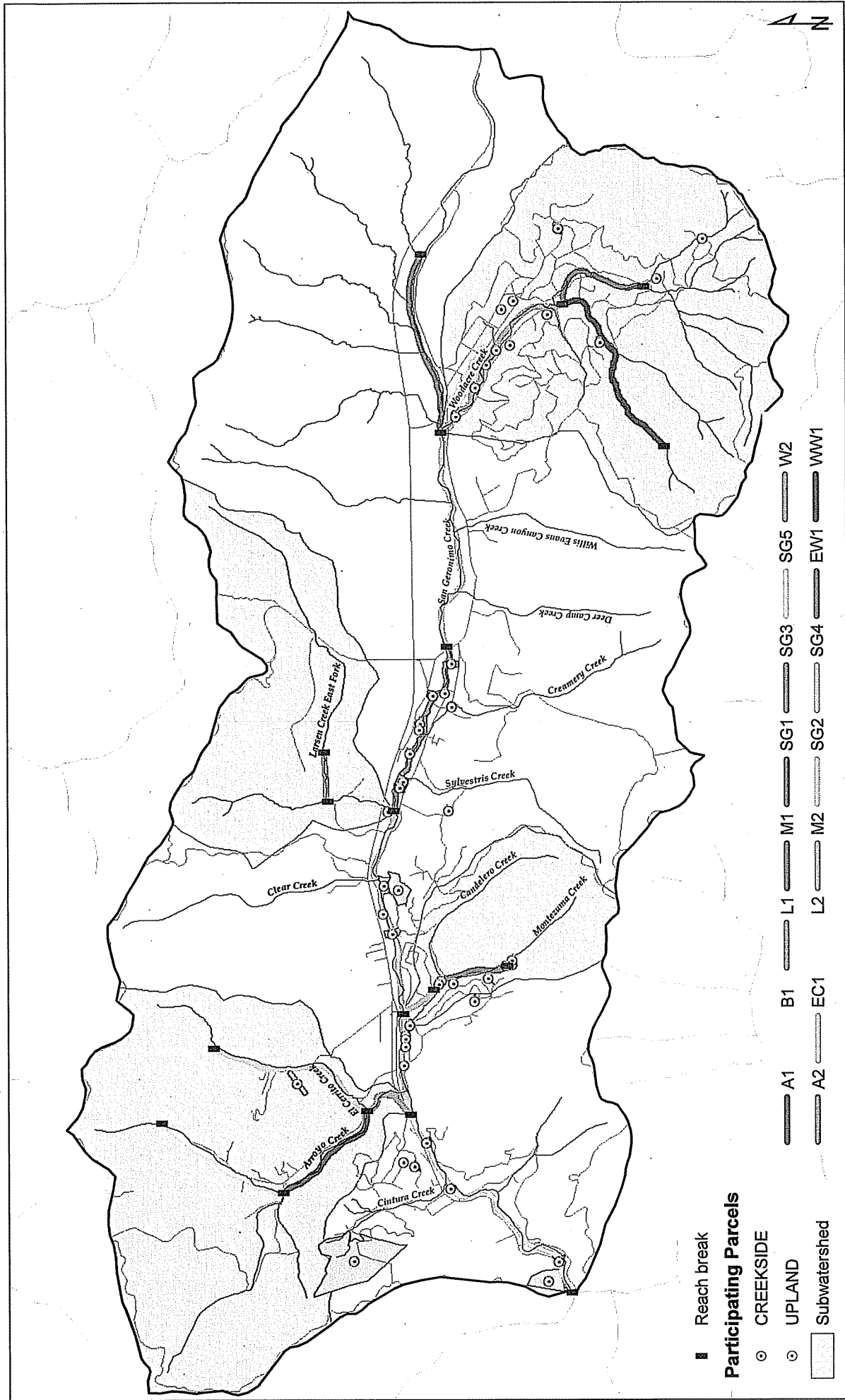
ATTACHMENTS

- 1) Parcel location map of participating landowners
- 2) Set of Recommendations from the Salmon Enhancement Plan
- 3) Tables of Reach Related Recommendations

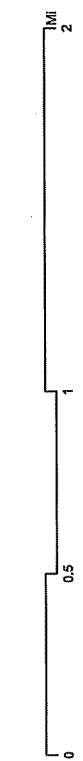
Salmon Enhancement Plan Recommendations

Recommendation Focus	Salmonid Habitat Supported	Recommendation	Priority
Applies to all	All salmonid life stages Rearing Habitat: Tall, dense riparian vegetation keeps water cool, provides food in the form of nutrient input and detritus for insects that nourish fish and their prey, and contributes undercut roots and large pieces of wood to help create the habitat variety salmonids need to thrive. Riparian plants also help filter fine sediments and excessive nutrients from entering streams. Spawning Habitat: Trees and large branches that fall into streams help trap and sort gravel. Winter/Spring High Flow Habitat: Fallen wood and living plants on flooded stream terraces provide direct shelter for fish during storms and also help form pools.	1 Establish and support a community outreach process to guide implementation	High
		2 Protect and enhance the riparian corridor to create healthy, self-sustaining habitat.	High
		3 Develop a riparian vegetation management strategy with fire officials to allow fire-safe practices while preserving riparian habitat.	Medium
Protect and restore riparian habitat		4 Apply policies, regulations, and guidelines to protect salmonid habitat and the ecological functions that sustain it to all new development and redevelopment currently allowable in the SCA.	High
		5 Conserve key undeveloped streamside parcels through easements or purchase of fee title	Medium
Enhance instream habitat structure		6 Promote the replacement, removal, and modification of unpermitted structures in the SCA that adversely effect fish habitat.	Medium - Low
		7 Increase channel complexity to improve habitat quantity, value, and resiliency for all life stages.	High
		8 Remove barriers to fish migration.	Medium - High

Recommendation Focus	Salmonid Habitat Supported	Recommendation	Priority
	<p>Spawning Habitat: Salmonids need access to clean, pea-to-orange size gravel for successful spawning and hatching.</p> <p>Winter/Spring High Flow Habitat: Over-wintering fish need places with-slower flowing water during storms. High-flow refugia are created by large pieces of wood, backwater areas where tributaries join the main stream, and low, vegetated terraces next to the stream channel.</p>	<p>9 Promote instream gravel delivery and retention.</p> <p>10 Minimize and reduce streambank armoring.</p> <p>11 Develop an Instream Habitat Implementation Plan.</p>	<p>Medium</p> <p>Medium - High</p> <p>High</p>
<p>Achieve and maintain high water quality.</p>	<p>All salmonid life stages: Salmon and steelhead need cool, well-oxygenated water to thrive. Excess levels of suspended particles in the water (i.e., turbidity or total suspended solids) can also cause stress, including reduced growth, feeding, and reproduction. Heavy metals, pharmaceuticals, and other chemicals can affect fish health and behavior, which in turn affects their ability to survive and reproduce.</p> <p>Spawning Habitat: Fine sediments can impair oxygen flow to eggs and impede the emergence of fry from the gravel. Cool water temperatures are also critical to the survival of the eggs.</p>	<p>12 Increase watershed-wide stormwater retention and disconnection.</p> <p>13 Develop a community-supported program to assist homeowners with addressing leaking septic systems. Give highest priority to systems within SCA and in reaches with higher nutrient levels.</p> <p>14 Promote minimal usage and proper disposal of chemicals, nutrients, and toxic materials.</p> <p>15 Reduce fine sediment delivery from roads and upland erosion.</p> <p>16 Protect and enhance summer streamflow.</p>	<p>High</p> <p>Medium</p> <p>Medium</p> <p>Medium - High</p> <p>High</p>
<p>Achieve and maintain sufficient water quantity.</p>	<p>Rearing Habitat: Sufficient summer baseflow is elemental to fish survival. It is also key to maintaining water quality.</p> <p>Spawning Habitat: Salmonids need sufficient flows during spawning season to move up into the tributaries and again in the early summer when young fish begin their out-migration to the ocean.</p>	<p>17 Develop and implement a coordinated monitoring program.</p>	<p>High</p>
<p>Applies to all</p>	<p>All salmonid life stages</p>		<p>High</p>



County of Marin
Flood Control and Water
Conservation District
June 2010



SAN GERONIMO VALLEY
Location of Parcels with Willing Landowners

San Geronimo Valley Salmon Enhancement Plan Landowner Assistance Program

The following tables list reach-scale recommendations and number and location of landowners who have expressed interest in participating in the Landowner Assistance Program. Final selection of 40 participating landowners will be completed by the Program Partners before the program begins.

Woodacre Creek –12 parcels total; 6 creekside parcels, 6 upland parcels

Woodacre Creek Reach	Recommendations
Specific Habitat Enhancement Needs	
Revegetate riparian zone for temperature control and LWD supply – increase cover and continuity, remove invasive non-natives	2, 4, and 6
Improve channel complexity for summer rearing and over-wintering. Remove barriers to migration.	7 through 11
Manage pollutant delivery. Reduce fine sediment delivery from watershed.	12 through 15
Maintain summer low flows for rearing	17

Upper San Geronimo mainstem- confluence of Woodacre Creek to Larsen Creek; 9 parcels total- All creekside

Upper San Geronimo Reach – Larsen to Woodacre	Recommendations
Specific Habitat Enhancement Needs	
Revegetate riparian zone for temperature control and LWD supply – increase cover and continuity, remove invasive non-natives	2, 4, 5 and 6
Improve channel complexity for summer rearing and over-wintering. Promote development of inset floodplains.	7, 8 and 11
Manage pollutants delivery	12, 13 and 14
Maintain summer low flows for rearing	17

San Geronimo Mainstem from Larsen to the Ink Wells- 11 parcels total- All creekside

Lower San Geronimo Creek Reach	Recommendations
Specific Habitat Enhancement Recommendations	
Revegetate riparian zone for temperature control and LWD supply – increase cover and continuity, remove invasive non-natives	2, 4, 5 and 6
Improve channel complexity for summer rearing and over-wintering. Improve spawning conditions.	7 through 11
Manage pollutants delivery	12, 13 and 14
Maintain summer low flows for rearing	16

Montezuma and Candelero Creeks + 1 parcel on Creamery Creek and 1 parcel on Sylvestries Creek; 12 parcels total; 9 creekside parcels, 3 upland parcels

Montezuma Creek Reach	Recommendations
Specific Habitat Enhancement Needs	
Maintain and revegetate riparian zone for channel complexity and LWD supply – increase cover and continuity, remove invasive non-natives.	2, 4 and 3
Improve channel complexity for spawning and over-wintering. Remove barriers to migration. Remove streambank armoring and constrictions.	7, 8, 11 and 12
Manage pollutants delivery	12 through 15

Arroyo Creek; El Cerritto Creek; Cintura Creek; 4 parcels total; 1 creekside parcel and 3 upland parcels

Arroyo/Barranca/El Cerrito Reach	Recommendations
Specific Habitat Enhancement Needs	
Maintain riparian zone vegetation for temperature control and LWD supply. Remove invasive non-natives.	2, 4 and 5
Improve channel complexity for summer rearing and over-wintering. Improve spawning conditions.	8, 9 and 11
Manage pollutants delivery	12, 14 and 15
Maintain summer low flows for rearing	17