

Introduction:

The Resource Conservation District of Monterey County (RCDMC) will implement the Weston-Champagne Cachagua Creek Fish Passage project (Project) with the purpose of providing fish passage and improving flood conveyance while also providing and maintaining safe vehicle access to two private residences. The Project entails removing the existing concrete culvert (18-foot wide by 50-foot long with a three-foot-wide by one-foot-deep notch covered by a steel plate) and replace it with a single span low-flow bridge located in the existing crossing alignment in accordance with CDFW design standards. The new crossing will consist of a 45-foot-long precast concrete voided slab bridge founded on cast-in-place concrete footings. The bridge deck is set approximately 14 inches above the lowest point on the deck of the existing ford, with a low chord (soffit) elevation that leaves approximately 3 feet of clearance from the low chord to the finished grade of the design channel bed. The deck is 12.75 feet wide, with a 12-foot clear driving lane. The deck height was established by balancing the need to pass smaller floods and fish passage flows under the structure while minimizing the risk associated of debris loading during very large floods. The proposed bridge allows the full range of design fish passage flows to pass beneath the structures. The low flow channel geometry is informed by adjacent reaches in both cross section and profile slope. This will promote sediment transport continuity throughout the site and mimic hydraulic conditions upstream and downstream of the project site. A single pool will be constructed at the downstream face of the crossing, replacing an existing pool just downstream of the ford.

The Project is designed to remedy an existing concrete ford barrier that is identified as the second highest priority fish passage barrier in the Carmel River system and will open an additional 8.3 miles of upstream spawning and rearing habitat for adult and juvenile steelhead trout. Although Cachagua Creek is currently utilized by steelhead, there are four known concrete automobile fords (of which this site is one) in the watershed area of anadromy that affect migration in most flows. The Assessment of Steelhead Passage Barriers in Portions of Four Tributaries to the Carmel River (MPWMD IRWM - Project 3 Final Project Report - July 2014) prepared by the Monterey Peninsula Water Management District (MPWMD Assessment) states that even though lower Cachagua Creek dries up most years, this tributary system is one of the most productive in the Carmel River watershed. Fish rescue efforts have captured over 6,000 young-of-the-year steelhead in some years. The most downstream ford-barrier on Cachagua Creek will be replaced in summer 2021 with partial funding received from FRGP. The next barrier upstream from that is this second highest priority barrier.

In December 2020 after review with CDFW engineering and fisheries personnel and the landowner and landowner's neighbor, the preferred alternative of the lower-statured bridge was selected. The proposed design approach follows Stream Simulation design methodology in *California Salmonid Stream Habitat Restoration Manual* Volume 1, Section IX (<https://www.wildlife.ca.gov/Grants/FRGP/Guidance>) to provide fish passage hydraulics matching conditions observed upstream and downstream at reaches outside the influence of the crossing.

The Permittee shall not proceed with on the ground implementation until all necessary permits, consultations, and/or Notice to Proceed are secured. All habitat improvement(s) will follow techniques in the *California Salmonid Stream Habitat Restoration Manual* Volume II Section X11. Fish Passage Design and Implementation (<https://www.wildlife.ca.gov/Grants/FRGP/Guidance>)

Objective(s):

The Project will remove a ford which is a full barrier to fish passage and replace it with a free span bridge that will allow the full range of design fish passage flows for juvenile and adult steelhead to pass beneath the structures while satisfying the access needs of the landowner and his neighbors. A secondary objective of the project is to continue progress in the enhancement of the Carmel River system and further demonstrate to Cachagua Creek residents that solutions are available which work for the fish and work for the landowner without causing undue stress, expense or regulatory enforcement.

Project Description:

Location:

Project site is located on Cachagua Creek, tributary to the Carmel River in Monterey County, in unincorporated Carmel Valley. Project area is approximately 1.6 river miles upstream of the confluence of Cachagua Creek and the main-stem of the Carmel River, the confluence being approximately 1.5 miles downstream of Los Padres Dam on the Carmel River.

Access to the site is from an existing 2-lane county-maintained road, Cachagua Road. The concrete ford serves as the automobile access from the county road, across the creek, to existing rural residential homes. Project coordinates are Latitude 36.391714, Longitude -121.631107.

Project Set Up:

The RCDMC will be the Project Manager, Permit Coordinator, Biological Monitor and Grant Administrator. RCDMC will hire and oversee engineering, ecological and construction subcontractors, as well as coordinate grant reporting, invoicing and communications between landowner, CDFW and subcontractors. Paul Robins, RCDMC Executive Director will provide grant oversight, contracts management and track labor compliance under all tasks. RCDMC Program Coordinator will act as Project Manager under all tasks and will manage project reporting and budgeting, oversee photomonitoring, conduct weekly site checks throughout the construction process, maintain communication with subcontractors and landowners, and lead Task 4 revegetation. RCDMC Environmental Scientist will lead environmental permitting, compliance and reporting under Tasks 2, 3 and 4. Forest Health Coordinator will conduct any needed botanical surveys under Tasks 2 & 4. RCDMC Finance Manager, will manage project invoicing and expenses under Task 1.

Waterways Consulting Inc. (and their subcontractor team of Streeter Group and CMAG), registered civil engineers, structural and geotechnical engineers (the Project Design Team) will be sub-contracted to support project permitting, prepare final design revisions, and perform construction phase engineering services during Project implementation (Tasks 2, 3 & 4). Waterways Consulting Inc. will lead the Project Design Team coordinating efforts of the other subconsultants and will engage with RCDMC and the Grant Manager under Task 1. Tasks to be performed by the Project Design Team include the following: Provide technical support to permitting efforts (Task 2: Waterways Consulting Inc, Streeter and CMAG); Develop final bid documents (plans, specifications, and cost estimates) based on agency and contractor review and input of the 100% Project designs and specifications; Provide bid-support services including attendance of a pre-bid meeting, response to Request for Information and issuance of addenda (Task 2: Waterways Consulting Inc.); Provide construction observation during implementation (Task 3: Waterways Consulting Inc.); Perform Record survey and prepare final engineering approval letters (Task 3: Waterways Consulting Inc.); Perform passage flow testing post-construction (Task 4: Waterways Consulting Inc.). The above tasks will be performed by Matt Weld, Brent Zacharia, and Carter Hayes from Waterways Consulting Inc. as well as Brad Streeter from Streeter Group and Adrian Garner from CMAG Engineering.

Alnus Ecological will conduct and oversee biological services associated with Pre-Construction and Construction periods specifically regarding potential dewatering and special status species surveys and relocation. Principal Jim Robins will lead this service with one other colleague under Tasks 2 and 3.

Humboldt State University Cultural Resources Facility (CRF) will be contracted to conduct Cultural Resources (Archeological and Historical) surveys and Tribal consultation consistent with CEQA under Task 2.

Construction Contractor (to be selected through bid process), a qualified contractor with experience working on stream and stream restoration projects, will be selected in accordance the RCDMC Procurement Policy and contracted for all construction related items within Task 3 including removal of the existing ford, construction of the bridge and abutments, installation of rock slope protection, channel regrading, approach road drainage improvement, and selected willow transplanting.

Materials:

Materials for bridge construction, grading, drainage and bank protection will be purchased and installed by the construction contractor (to be selected by bid process after grant award). Those materials are specified in the engineer's estimated budget and include:

1. Cast-in-place concrete used for bridge deck (45-foot x1 2.75-foot), abutment, wingwalls, and foundation;
2. Prefabricated from reinforced concrete bridge girders;
3. Imported quarried rock slope protection used for channel armoring near abutments;
4. Imported baserock underlaid with 4-inch to 8-inch diameter quarried stone to pave road approaches and
5. 45 feet of High Density Polyethylene (HDPE) 18-inch diameter pipe with a precast concrete drop inlet for a storm drain to convey road runoff safely away from the bridge.

Streambed materials are currently anticipated to be entirely sourced from on-site native material. Plantings (willow transplants and canes) will be salvaged or sourced on site, with the exception of seed mix and mulch, to be purchased by RCDMC.

Tasks:

Task 1: Project Management and Administration

The RCDMC will provide Project management and administrative services associated with performing and completing the work for this Project, including engaging Project subcontractors as needed for meetings, Project and team oversight of Project performance, preparing and submitting invoices and progress reports, preparing Annual Reports, developing and managing subcontracts, convening project meetings and communications as needed to keep Project on track and communications clear, coordinating with funders and partners, coordinating with landowners during the project, and disseminating

Project materials and results, submitting final landowner access agreement and preparing final reports.

Task 2: Project Pre-Construction Activities and Surveys

RCDMC, Waterways Consulting Inc. Streeter Group, CMAG, Alnus Ecological, and Humboldt State University CRF will engage in Project preparations to ensure that all necessary permits, surveys, and consultations are in place; to provide any plan modifications needed in response to those consultations; to solicit, contract, and schedule construction contractor; and to prepare the site and photo points for start of Construction work. RCDMC and subcontractors will engage in subtasks as follows:

Task 2.1. Permit Acquisition

RCDMC will secure all necessary permits not provided by FRGP, including CDFW 1600 Lake and Streambed Alteration Agreement (LSAA) and any county or local permits. Alnus Ecological will be responsible for holding any other permit or authorization required for capturing and handling steelhead and California red-legged frogs; Waterways Consulting Inc. and Streeter Group will provide permit review consultation with CDFW, and the County of Monterey as needed and make and provide any associated modifications to Project Plans. A copy of all permits and resolution obtained for the project will be submitted to the Grant Manager prior to the commencement of construction.

Task 2.2. Submission of Plans and Work Schedule

Waterways Consulting Inc. will provide and RCDMC will submit a hard and electronic copy of Final Engineered Plans and specifications for the Project within two (2) weeks after execution of the grant, to CDFW. Any subsequent modifications of plans associated with Task 2.1 permit acquisition will be communicated to the CDFW by RCDMC, and Waterways Consulting Inc. will provide and RCDMC will submit them to the CDFW Grant Manager once signed off by CDFW and the County of Monterey permitting departments.

Task 2.3. Resource Surveys

Alnus Ecological will conduct pre-construction surveys following US Fish and Wildlife guidance protocol (2005). Surveys will be conducted by a qualified biologist (one holding appropriate permits) at least two weeks before the onset of construction activities. If needed, Alnus Ecological will move California red-legged frog and steelhead trout from the construction area and relocate them to appropriate habitat. In addition, monitoring of the channel will be conducted by a qualified biologist, permitted to handle the species, during the installation of coffer dams (or other dewatering structures) and during construction.

Task 2.4 Cultural Resources Survey

Humboldt State University CRF will conduct the necessary Cultural Resources Surveys including the archaeological and historical surveys, and Tribal consultations consistent with the requirements of CEQA for the subject site.

Task 2.5. Secure Construction Contractor:

RCDMC and Waterways Consulting Inc. will develop a contractor bid package and conduct a solicitation of formal bids in accordance with RCDMC Procurement Policy. Solicitation will be timed to procure a contractor in a timely manner for project implementation and will involve a site meeting, response to questions, and public notification of award. RCDMC will work with the selected contractor to develop the contract and provide a copy of the executed agreement to the CDFW Grant Manager.

Task 2.6. Photo Points Establishment

RCDMC Project Manager will establish photo points in consultation with Waterways Consulting Inc. and the landowner for use throughout the Project to document work site conditions.

Task 3: Construction

All construction will be done according to the accepted Project specifications and accepted Final Engineering Plans.

Task 3.1 Construction Period Communication

RCDMC will hold a pre-construction meeting with the Grant Manager, Grantor Engineer, and subcontractor representatives to establish roles and responsibilities and set expectations for record-keeping, scheduling, monitoring, safety, sensitive species, and invasive species protocols.

RCDMC will notify the Grant Manager a minimum of two weeks prior to the start of construction to enable the Grant Manager to begin monitoring of the project. Once each week during construction, the Permittee shall electronically submit to the Grant Manager and the Grantor Engineer a construction progress report and required photos.

Task 3.2 Dewatering and Rewatering

It is expected that the stream will be dry during construction which will eliminate the need for fish relocation. However, if dewatering is necessary due to unanticipated rainfall events, Waterways Consulting Inc. and Alnus Ecological will oversee dewatering and any fish or other wildlife rescue needed pre- or during-construction. All materials used for dewatering shall be removed and disposed of appropriately off site at the completion of the project.

A dewatering plan shall be provided at least one month before the commencement to dewatering, to the Grant Manager for review and acceptance.

Task 3.3 Project Construction

Project Construction to be undertaken by construction contractor and include the following:

- a. Staging and Mobilization: Conduct site preparation surveys to inform on-site operations for the safe movement of personnel, equipment, supplies, and incidentals to the work site; for the establishment of all offices and other facilities necessary for work on the project; and for all other work and operation which must be performed to complete tasks;
- b. Clearing and grubbing of vegetation and removal of debris from the construction site. All material removed shall be disposed of in accordance with all local regulations;
- c. Vegetation located beyond the limits for clearing and grubbing shall be protected from damage. Willows identified in the Engineered Plans for relocation will be removed and stored for post project transplanting per Engineered Plans;
- d. Demolish existing culvert/road crossing. Demolition will be done in accordance with all local regulations;
- e. The foundations, abutments, and wingwalls will be poured on site.
- f. The girders will be precast and placed onto the cured abutments with a crane or similar equipment. Following placement of the girders, a concrete slab would be poured in place to lock the girders together and provide a wearing surface;
- g. Channel excavation most likely to be performed using an excavator and loader. A grizzly will be used to sort excavated native materials into segregated piles for reuse as stream simulation material to be placed on the finished surface of the graded channel;
- h. Temporary pedestrian access will be provided by the existing pedestrian bridge. Vehicular access for residents will be infeasible during most portions of the work;
- i. Concentrated Road drainage from upslope areas will be collected into a concrete drop inlet and conveyed via HDPE pipe to outlet on to rock slope protection;
- j. Channel to be restored and rock slope protection to stabilize the banks at abutment and provide scour protection for newly installed bridge and
- k. Willows to be transplanted per plans.

Task 3.4 Engineering Oversight

Waterways Consulting Inc. and subcontractors will provide engineering oversight of the Project to assure proper completion and will develop and submit the As-Built Plans and Longitudinal Profile as well as final engineer's approval letters.

Task 3.5 Permit Compliance

RCDMC and Alnus Ecological will document compliance with all environmental permits and RCDMC will confirm Labor Compliance per the Department of Industrial Relations requirements.

Task 4: Post Construction Riparian Restoration and Monitoring

Post Construction activities will include additional revegetation by RCDMC personnel and residents, post-project monitoring of site stability and revegetation through winter and the following summer, and related permit reporting documenting compliance and outcomes.

Deliverables:

Task 1: Project Management and Administration

1. Invoices
2. Progress Reports
3. Annual Reports
4. Subcontractor Contracts
5. Copies of Project communications materials/links
6. Final Landowner Access Agreements
7. Draft Final Report, Final Report
8. Data generated because of this project

Task 2: Project Pre-Construction Activities and Surveys

1. Final construction plans, specifications, and cost estimate
2. Copies of all permits secured by the Permittee
3. Fish and California red-legged frog surveys reports
4. Final Work Schedule
5. Cultural Resources Survey Report
6. Pre-project photo documentation

Task 3: Construction

1. Weekly construction reports and photo documentation
2. De-Watering Plan (if used) prior to implementation; documentation of dewatering and any associated fish or wildlife relocation
3. Bridge, bank protection, channel grading and approaching road drainage installed per Engineered Plans
4. As-built plans, Longitudinal Profile, and final engineers' approval letters
5. Site visit reports and documented confirmation of permit compliance

Task 4: Post Construction Riparian Restoration and Monitoring

1. Photo documentation of revegetation
2. Photo monitoring imagery, site visit summaries, records of fish passage flow tests.

Timelines:

Task 1: June 1, 2022, to September 30, 2024

Task 2: June 1, 2022, to December 1, 2023

Task 3: July 1, 2023, to December 31, 2023

Task 4: November 1, 2023, to August 31, 2024

Additional Requirements:

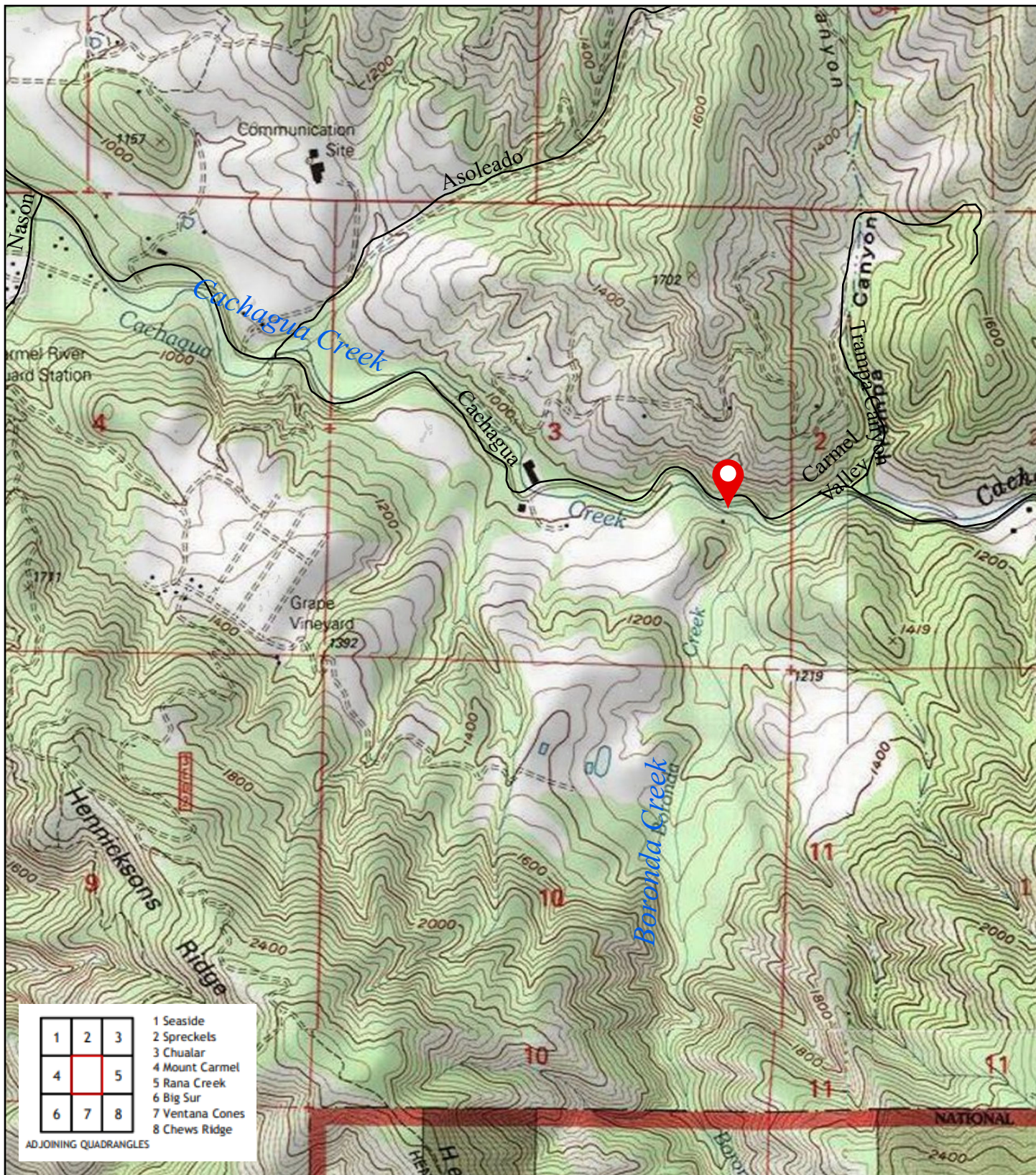
No equipment maintenance will be performed within or near the stream channel where pollutants (such as petroleum products) from the equipment may enter the channel via rainfall or runoff. Appropriate spill containment devices (e.g., oil absorbent pads, tarpaulins) will be used when refueling equipment. Any and all equipment will be removed from the streambed and flood plain areas at the end of each workday.

All equipment and gear will be brushed with a stiff brush prior to leaving each stretch of stream to avoid the transport of aquatic invasive species (AIS). All crew members will decontaminate equipment and shoes for AIS according to the standards detailed in the California Department of Fish & Wildlife Aquatic Invasive Species Decontamination Protocol.

During project activities, all trash that may attract predators will be properly contained, removed from the work site, and disposed of regularly. Following construction, all trash and construction debris will be removed from work areas.

The project will follow the National Marine Fisheries Service (NMFS 2001) Guidelines for Salmonid Passage at Stream Crossings and criteria for fish passage as described in Volume II, Part IX, of the *California Salmonid Stream Habitat Restoration Manual*. The engineered plans for the bridge (culvert) installation shall be visually reviewed and authorized by NOAA Fisheries or California Department of Fish and Wildlife engineers prior to commencement of work.

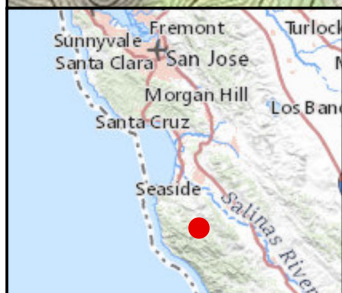
All habitat improvements will follow techniques described in the *California Salmonid Stream Habitat Restoration Manual*, Volume I, and Volume II Part XI and Part XII. The Permittee/landowner will maintain the new crossing, inspect the crossing in a timely manner and remove debris as necessary during the storm season.



1	2	3
4	5	6
7	8	9

- 1 Seaside
- 2 Spreckels
- 3 Chualar
- 4 Mount Carmel
- 5 Rana Creek
- 6 Big Sur
- 7 Ventana Cones
- 8 Chews Ridge

ADJOINING QUADRANGLES



Weston - Champagne Cachagua Creek Fish Passage Project Location Topographic Map Resource Conservation District of Monterey County



Project Location - 18972 Cachagua Rd

— County Road

Proposal ID
1725660

USGS 7.5-minute Carmel Valley Quadrangle



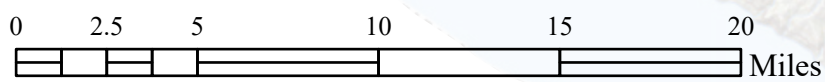
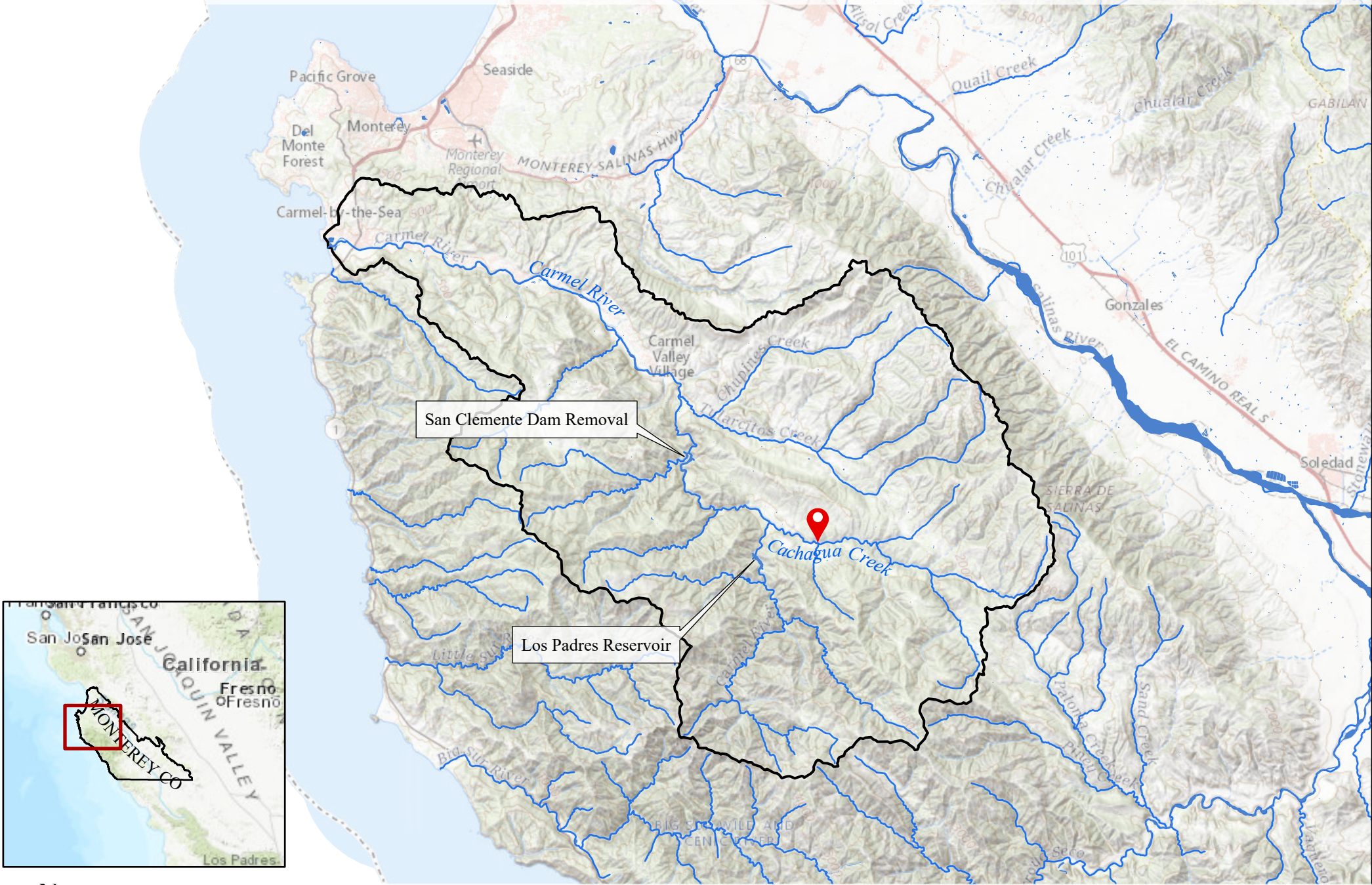
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Weston - Champagne Cachagua Creek Fish Passage Project

Watershed Map and Site Location



-  Project Location
-  Carmel River Watershed

Proposal ID
1725660



Map created April 6, 2021



Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad (Carmel Valley (3612146) OR Rana Creek (3612145) OR Chews Ridge (3612135) OR Ventana Cones (3612136) OR Big Sur (3612137) OR Mt. Carmel (3612147) OR Seaside (3612157) OR Spreckels (3612156) OR Chualar (3612155))

Possible species within the Carmel Valley and surrounding quads for 1725660 - Weston-Champagne Cachagua Creek Fish Passage Project, Monterey County

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Abies bracteata</i> bristlecone fir	PGPIN01030	None	None	G2G3	S2S3	1B.3
<i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020	None	Threatened	G1G2	S1S2	SSC
<i>Agrostis blasdalei</i> Blasdale's bent grass	PMPOA04060	None	None	G2	S2	1B.2
<i>Allium hickmanii</i> Hickman's onion	PMLIL02140	None	None	G2	S2	1B.2
<i>Ambystoma californiense</i> pop. 1 California tiger salamander - central California DPS	AAAAA01181	Threatened	Threatened	G2G3	S3	WL
<i>Anniella pulchra</i> Northern California legless lizard	ARACC01020	None	None	G3	S3	SSC
<i>Arctostaphylos edmundsii</i> Little Sur manzanita	PDERI04260	None	None	G2	S2	1B.2
<i>Arctostaphylos hookeri</i> ssp. <i>hookeri</i> Hooker's manzanita	PDERI040J1	None	None	G3T2	S2	1B.2
<i>Arctostaphylos montereyensis</i> Toro manzanita	PDERI040R0	None	None	G2?	S2?	1B.2
<i>Arctostaphylos pajaroensis</i> Pajaro manzanita	PDERI04100	None	None	G1	S1	1B.1
<i>Arctostaphylos pumila</i> sandmat manzanita	PDERI04180	None	None	G1	S1	1B.2
<i>Athene cunicularia</i> burrowing owl	ABNSB10010	None	None	G4	S3	SSC
<i>Bombus caliginosus</i> obscure bumble bee	IIHYM24380	None	None	G4?	S1S2	
<i>Bombus occidentalis</i> western bumble bee	IIHYM24250	None	Candidate Endangered	G2G3	S1	
<i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
<i>Calyptridium parryi</i> var. <i>hesseae</i> Santa Cruz Mountains pussypaws	PDPOR09052	None	None	G3G4T2	S2	1B.1
<i>Carex obispoensis</i> San Luis Obispo sedge	PMCYP039J0	None	None	G3?	S3?	1B.2
<i>Carlquistia muirii</i> Muir's tarplant	PDASTDU010	None	None	G2	S2	1B.3



Selected Elements by Scientific Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Central Maritime Chaparral Central Maritime Chaparral	CTT37C20CA	None	None	G2	S2.2	
Centromadia parryi ssp. congdonii Congdon's tarplant	PDAST4R0P1	None	None	G3T1T2	S1S2	1B.1
Charadrius nivosus nivosus western snowy plover	ABNNB03031	Threatened	None	G3T3	S2	SSC
Chorizanthe minutiflora Fort Ord spineflower	PDPGN04100	None	None	G1	S1	1B.2
Chorizanthe pungens var. pungens Monterey spineflower	PDPGN040M2	Threatened	None	G2T2	S2	1B.2
Cirsium occidentale var. compactum compact cobwebby thistle	PDAST2E1Z1	None	None	G3G4T2	S2	1B.2
Clarkia jolonensis Jolon clarkia	PDONA050L0	None	None	G2	S2	1B.2
Coelus globosus globose dune beetle	IICOL4A010	None	None	G1G2	S1S2	
Collinsia multicolor San Francisco collinsia	PDSCR0H0B0	None	None	G2	S2	1B.2
Cordylanthus rigidus ssp. littoralis seaside bird's-beak	PDSCR0J0P2	None	Endangered	G5T2	S2	1B.1
Corynorhinus townsendii Townsend's big-eared bat	AMACC08010	None	None	G4	S2	SSC
Cypseloides niger black swift	ABNUA01010	None	None	G4	S2	SSC
Dacryophyllum falcifolium tear drop moss	NBMUS8Z010	None	None	G2	S2	1B.3
Danaus plexippus pop. 1 monarch - California overwintering population	IILEPP2012	Candidate	None	G4T2T3	S2S3	
Delphinium californicum ssp. interius Hospital Canyon larkspur	PDRAN0B0A2	None	None	G3T3	S3	1B.2
Delphinium hutchinsoniae Hutchinson's larkspur	PDRAN0B0V0	None	None	G2	S2	1B.2
Delphinium umbraculorum umbrella larkspur	PDRAN0B1W0	None	None	G3	S3	1B.3
Emys marmorata western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
Ericameria fasciculata Eastwood's goldenbush	PDAST3L080	None	None	G2	S2	1B.1
Eriogonum nortonii Pinnacles buckwheat	PDPGN08470	None	None	G2	S2	1B.3
Erysimum ammophilum sand-loving wallflower	PDBRA16010	None	None	G2	S2	1B.2



Selected Elements by Scientific Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Euphilotes enoptes smithi</i> Smith's blue butterfly	IILEPG2026	Endangered	None	G5T1T2	S1	
<i>Euphydryas editha bayensis</i> Bay checkerspot butterfly	IILEPK4055	Threatened	None	G5T1	S1	
<i>Falco mexicanus</i> prairie falcon	ABNKD06090	None	None	G5	S4	WL
<i>Fritillaria falcata</i> talus fritillary	PMLIL0V070	None	None	G2	S2	1B.2
<i>Fritillaria liliacea</i> fragrant fritillary	PMLIL0V0C0	None	None	G2	S2	1B.2
<i>Galium californicum ssp. lucense</i> Cone Peak bedstraw	PDRUB0N0E3	None	None	G5T3	S3	1B.3
<i>Galium clementis</i> Santa Lucia bedstraw	PDRUB0N0H0	None	None	G2	S2	1B.3
<i>Gilia tenuiflora ssp. arenaria</i> Monterey gilia	PDPLM041P2	Endangered	Threatened	G3G4T2	S2	1B.2
<i>Horkelia cuneata var. sericea</i> Kellogg's horkelia	PDR0S0W043	None	None	G4T1?	S1?	1B.1
<i>Lasiurus blossevillei</i> western red bat	AMACC05060	None	None	G4	S3	SSC
<i>Lasiurus cinereus</i> hoary bat	AMACC05030	None	None	G3G4	S4	
<i>Lasthenia conjugens</i> Contra Costa goldfields	PDAST5L040	Endangered	None	G1	S1	1B.1
<i>Lavinia exilicauda harengus</i> Monterey hitch	AFCJB19013	None	None	G4T2T4	S2S4	SSC
<i>Lindieriella occidentalis</i> California lindieriella	ICBRA06010	None	None	G2G3	S2S3	
<i>Malacothamnus palmeri var. involucratus</i> Carmel Valley bush-mallow	PDMAL0Q0B1	None	None	G3T2Q	S2	1B.2
<i>Malacothamnus palmeri var. lucianus</i> Arroyo Seco bush-mallow	PDMAL0Q0B2	None	None	G3T1Q	S1	1B.2
<i>Malacothrix saxatilis var. arachnoidea</i> Carmel Valley malacothrix	PDAST660C2	None	None	G5T2	S2	1B.2
<i>Meconella oregana</i> Oregon meconella	PDPAP0G030	None	None	G2G3	S2	1B.1
<i>Meta dolloff</i> Dolloff Cave spider	ILARA17010	None	None	G1	S1	
<i>Microseris paludosa</i> marsh microseris	PDAST6E0D0	None	None	G2	S2	1B.2
<i>Monardella sinuata ssp. nigrescens</i> northern curly-leaved monardella	PDLAM18162	None	None	G3T2	S2	1B.2



Selected Elements by Scientific Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Monterey Pine Forest Monterey Pine Forest	CTT83130CA	None	None	G1	S1.1	
Neotoma macrotis luciana Monterey dusky-footed woodrat	AMAFF08083	None	None	G5T3	S3	SSC
North Central Coast Fall-Run Steelhead Stream North Central Coast Fall-Run Steelhead Stream	CARA2631CA	None	None	GNR	SNR	
Oncorhynchus mykiss irideus pop. 9 steelhead - south-central California coast DPS	AFCHA0209H	Threatened	None	G5T2Q	S2	
Optioservus canus Pinnacles optioservus riffle beetle	IICOL5E020	None	None	G2	S1	
Pedicularis dudleyi Dudley's lousewort	PDSCR1K180	None	Rare	G2	S2	1B.2
Phrynosoma blainvillii coast horned lizard	ARACF12100	None	None	G3G4	S3S4	SSC
Pinus radiata Monterey pine	PGPIN040V0	None	None	G1	S1	1B.1
Piperia yadonii Yadon's rein orchid	PMORC1X070	Endangered	None	G1	S1	1B.1
Plagiobothrys uncinatus hooked popcornflower	PDBOR0V170	None	None	G2	S2	1B.2
Rana boylei foothill yellow-legged frog	AAABH01050	None	Endangered	G3	S3	SSC
Rana draytonii California red-legged frog	AAABH01022	Threatened	None	G2G3	S2S3	SSC
Reithrodontomys megalotis distichlis Salinas harvest mouse	AMAFF02032	None	None	G5T1	S1	
Rosa pinetorum pine rose	PDR0S1J0W0	None	None	G2	S2	1B.2
Sanicula maritima adobe sanicle	PDAP11Z0D0	None	Rare	G2	S2	1B.1
Sidalcea malachroides maple-leaved checkerbloom	PDMAL110E0	None	None	G3	S3	4.2
Sorex ornatus salarius Monterey shrew	AMABA01105	None	None	G5T1T2	S1S2	SSC
Stebbinsoseris decipiens Santa Cruz microseris	PDAST6E050	None	None	G2	S2	1B.2
Taricha torosa Coast Range newt	AAAAF02032	None	None	G4	S4	SSC
Taxidea taxus American badger	AMAJF04010	None	None	G5	S3	SSC
Thamnophis hammondi two-striped gartersnake	ARADB36160	None	None	G4	S3S4	SSC



Selected Elements by Scientific Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Trifolium buckwestiorum</i> Santa Cruz clover	PDFAB402W0	None	None	G2	S2	1B.1
<i>Trifolium polyodon</i> Pacific Grove clover	PDFAB402H0	None	Rare	G1	S1	1B.1
Valley Needlegrass Grassland Valley Needlegrass Grassland	CTT42110CA	None	None	G3	S3.1	

Record Count: 84