



MEMORANDUM

Exhibit B2

To: Heidi Niggemeyer, NPDES Program Manager, City of Salinas
From: Kate Elliott and The Harris Team
RE: **Scope of Work for the Santa Rita Creek Flood Control Project and CCWG Ryder Ranch Mitigation Bank Evaluation**
Date: July 25, 2024

Introduction

The Harris Team (Harris & Associates, EcoSystems West Consulting Group, Albion Environmental, and Waterways Consulting, Inc.) will assist the City of Salinas (City) with the **Santa Rita Creek Flood Control Project¹** (Project), including flood control management, mitigation, and habitat enhancement of Santa Rita Creek. To capture opportunities to assess sensitive resources in the proper seasons, the following scope of work is proposed to be implemented from December 2024 through September 1, 2026.

This proposed Project involves two discrete sections of the creek within the City limits, the lower portion of the creek from Van Buren Avenue to Highway 101, which was the subject of past studies by the Harris Team, and the upper portion of the creek from Russel Road to Van Buren Avenue. Recently (finalized in January 2024) Waterways Consulting, Inc. conducted a Feasibility Study of both reaches of the creek to identify critical locations along Santa Rita Creek to target for flood control actions, including sediment removal and bank slope stabilization. Past studies on the lower portion of Santa Rita Creek and the Feasibility Study of the entire creek within City limits would inform this Project.

To facilitate the Project, the Harris Team will perform the following tasks:

1. Project Management and Detailed Project Description
2. Technical Studies
3. CEQA Compliance/Documentation
4. Regulatory Compliance/Permitting
5. Santa Rita Creek Maintenance Plan and Conceptual Mitigation Plan
6. Conceptual and Engineering Design Plans
7. CCWG Ryder Ranch Mitigation Evaluation
8. Permit Fees

Working with the City to understand their needs, the Harris Team will draft a detailed Project Description describing proposed flood control actions. The first step will be to work with City and Waterways to develop Project Area/s proposed for management actions. Conceptual Designs and Engineering Design Plans for the Project and the Harris Team will focus aquatic, biotic, and cultural resources assessments on the specified locations (Project Areas) identified from the Feasibility Study and based on communication with the City regarding maintenance needs. The Project Description, plans and assessments will provide the basis for project permitting, conceptual mitigation, and inform future maintenance activities.

¹ This discrete Project is part of the **City of Salinas Creeks and Wetlands Maintenance Plan and Mitigation and Enhancement Program**.

Task 1. Project Management and Detailed Project Description

Task 1.1 – Project Management and Coordination

The Harris Team will work closely with the City to meet the City’s needs for flood control (sediment management and maintenance), mitigation, and habitat enhancement. Our primary goal for Task 1.1 will be to effectively track Project meetings, tasks, timelines, and schedule to ensure cost effectiveness and efficiency at accomplishing Project goals to move the Project to implementation. The Harris Team will prepare the detailed Project Description for review by the City (Task 1.3) as the Project advances toward Permitting (Task 4).

Task 1.2 – Meetings with City Staff

The Harris Team will meet with City Staff to define current and future maintenance practices that the City performs/will perform within Santa Rita Creek. Maintenance Plan actions may include, but are not limited to, flood management/sediment control, bank stabilization, erosion control, outfall structure maintenance and repair, flood gate maintenance and repair (coordinate with NPDES program), culvert maintenance, repair and replacement, and vegetation management.

NPDES MS4 Program

The Harris Team reviewed those features, structures, and maintenance actions subject to the City’s National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Program. Municipal discharges of stormwater and non-stormwater from all municipal separate storm sewer system (MS4) discharge points within the City’s boundaries are subject to waste discharge requirements under Order R3-2019-0073 and NPDES as issued by the Central Coast Regional Water Quality Control Board for the period October 1, 2019 through September 30, 2024. These MS4 discharges are regulated under Section 402 of the Clean Water Act (CWA) as well as Porter-Cologne Water Quality Control Act and other applicable state, federal, and regional regulations.

The creeks within the City’s jurisdiction and the Salinas River are considered receiving waters for municipal discharges and, as such, under the NPDES MS4 Program, are subject to the City’s Pollutant Load Reduction Plan (PLRP), Stormwater Resource Plan (SRP), List of Structural Best Management Practices (BMPs)², and Maintenance Plan for MS4 components (for both the conveyance system and structural BMPs).

Only features that are in federal jurisdiction are in need of additional permitting for impacts associated with flood control and other maintenance activities. The Harris Team will clearly define the features and activities already covered under existing NPDES permit and identify potential overlap and interaction between NPDES maintenance activities and those activities proposed for flood control and other preventative maintenance.

Santa Rita Creek Elementary School

Flood control actions, habitat restoration, and mitigation for Santa Rita Creek will incorporate and dovetail with existing enhancements conducted at Santa Rita Creek Elementary School. The Harris Team will investigate opportunities to expand the existing program and/or create habitat continuity along the portion of Santa Rita Creek that consists of an earthen channel (from Santa Rita Street to Russel Road) where these actions would not conflict with the City’s maintenance needs.

² Structural BMPs are infrastructure/facilities that are constructed or installed to prevent pollutants in storm water runoff from leaving a developed property, entering storm drains, and impacting our local waterways, and include sediment basins, vegetated swales, and other types of catchments. All types of structural BMPs require regular inspection and maintenance to ensure that they are operating effectively, so the City maintains all of their existing sediment basins and some creeks under the maintenance requirements of the NPDES permit.

Task 1.3 – Draft and Final Detailed Project Description

Harris & Associates and EcoSystems West will continue to work with the City to prepare the Detailed Project Description. The Detailed Project Description includes an overview of the Santa Rita Creek and creek-related resources within City boundaries, a description of the existing maintenance activities, proposed flood control actions (Project), and anticipated future maintenance. The Project Description will utilize Waterways Feasibility Study to identify management and maintenance actions along with the City's needs for sediment removal and other key maintenance activities. Together with the City, the Harris Team will identify the Project Area/s (see also Task 2.2 below) and Area of Potential Effect (APE) (see also Task 2.4 below)

The Detailed Project Description will be developed in compliance with existing regulatory requirements and guidance documents (e.g., NPDES programs, relevant City planning documents), as determined in coordination with the City. The Detailed Project Description will identify future maintenance activities based on hydrologic analysis, proposed mitigation and enhancement sites, the type of feature proposed, construction requirements, and a descriptive overview of the activities required to maintain these features. These activities would be subject to approval by the relevant regulatory agencies and would be developed in consultation with the agencies, which are anticipated to include the US Army Corps of Engineers (USACE), California Department of Fish and Wildlife (CDFW), and Central Coast Regional Water Quality Control Board (Regional Board or RWQCB).

Task 1 Meetings, Deliverables, and Assumptions:

- The Harris Team will attend up to 4 field meetings with City personnel to discuss the City's current and future maintenance activity needs.
- With City approval, the Harris Team will attend up to 3 meetings with Project stakeholders, as relevant (e.g. Santa Rita Elementary School and the Community Foundation regarding creek enhancement opportunities and Central Coast Wetlands Group for potential mitigation opportunities) to identify opportunities to avoid, minimize, and mitigate for potential impacts associated with the Project.
- This scope assumes that the partnerships and coordination with other stakeholders will be developed to a viable conceptual level, which will be further developed as part of the Conceptual Mitigation Plan (Task 5).
- The Harris Team will prepare the Draft and Final Project Description for City. This scope assumes there will be one round of review of the draft Project Description (Task 1.3), the City will provide one set of consolidated comments, and the comments will not require major changes to the document.
- Working with the City, the Harris Team will identify the proposed Project Area/s and Area of Potential Effect (APE) (see also Task 2.2 and Task 2.4)

Task 2. Technical Studies

Technical assessments and studies will be prepared for aquatic resources, biological resources, and cultural resources, as well as hydrologic and hydraulic analysis, to provide the scientific basis for the permitting process, and to allow the Harris Team to provide a quantitative impact assessment to the regulatory agencies. The technical studies also enable us to work with the City to minimize impacts through careful design of current and future maintenance activities, and to identify suitable locations for mitigation and enhancement.

Task 2.1 – Assessment of Aquatic Resources (Jurisdictional Delineation)

A reconnaissance assessment of aquatic resources was conducted for the lower portion of the creek during previous (2020) studies. Within the Project Areas identified for flood control activities, the wetlands specialist will update the existing map of aquatic features for the lower portion of the creek and map the upper portion of

the creek. The wetlands specialist will collect sample points at representative locations, as needed, to support the aquatic resources delineation.

Waters and wetlands (aquatic resources) of the U.S. are protected under the federal Clean Water Act (CWA), and impacts to these resources require mitigation. An aquatic resources delineation determines the extent of wetlands and waters of the U.S. within the City's defined Maintenance Plan areas and will be submitted to the US Army Corps of Engineers (USACE) during permitting. An aquatic resource delineation is valid for 3 years following verification by the USACE (with subsequent renewal possible).

EcoSystems West will map the relevant aquatic features and adjacent habitats using ArcGIS and resource-grade GPS. Waterways and EcoSystems West will identify and map the Ordinary High-Water Mark (OHWM) of the creek and wetland boundaries to determine the jurisdiction of the USACE. EcoSystems West will delineate the break in bank and/or boundary of the riparian habitat to determine the jurisdiction of the Regional Board and CDFW. These boundaries will be depicted in ArcGIS shapefiles, geodatabase, and maps.

EcoSystems West will prepare a draft aquatic resources delineation report for the proposed Project Areas within Santa Rita Creek. This delineation of wetlands and "other waters" of the U.S. would be prepared using protocols outlined in the USACE Wetlands Delineation Manual (Environmental Laboratory 1987) and the Regional Supplements to the Corps of Engineers Wetland Delineation Manual: Arid West Region, Version 2.0 (Environmental Laboratory 2008). The USACE defines three criteria to delineate wetlands: (1) hydrophytic vegetation, (2) wetland hydrology, and (3) hydric soils. The OHWM is defined as *"that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas."* The draft of the delineation report would be submitted to the City for review, comment, and approval prior to submittal of the final report to the USACE.

Task 2.1 Meetings, Deliverables, and Assumptions:

- GIS files and maps of aquatic features and riparian habitat subject to maintenance activities within the City's boundaries.
- Draft and final Aquatic Resources Delineation for Santa Rita Creek.
- EcoSystems West will attend one (1) meeting in the field with USACE personnel, as needed, to confirm the aquatic resources delineation.

Task 2.2 – Recommended Project Actions and Hydrologic/Hydraulic Modeling

Waterways will identify key areas along Santa Rita Creek proposed for management and maintenance actions, based on the Feasibility Study performed in 2023 and completed in January 2024. Together with the City, Waterways and the Harris Team will identify the Project Area/s and Waterways will develop Conceptual Plans for the purposes of discussion and analysis. As determined to be necessary, Waterways will perform topographic mapping at selected sediment management zones to update channel geometry based on current sediment accumulations. Waterways will develop a hydraulic model of the channel and floodplain, as needed to support the proposed Project actions. These studies will inform design geometry and channel and bank treatments. A FEMA-certified no-rise analysis of the 100-year floodplain will also be conducted to demonstrate the project will not increase flood heights in the surrounding areas.

Task 2.2 Deliverables and Assumptions:

- Recommended Project Actions
- Hydrologic and Hydraulic Modeling
- GIS Files and Maps of Relevant Data
- Mapping/Modeling of the OHWM

Task 2.3 – Biotic Assessment

A biotic assessment, which characterizes the biological resources within the proposed Project Areas is required for regulatory compliance and will be submitted to the City, USACE [which may consult with US Fish and Wildlife Service (USFWS) if federal Endangered Species Act (FESA)-listed species are present], Regional Board, the California Department of Fish and Wildlife (CDFW) during the permitting process.

The Harris Team will identify sensitive biological resource data from USFWS, CDFW, California Natural Diversity Database (CNDDDB); and other recognized lists of sensitive resources focusing on the specified Project Areas. Additionally, the team has communicated with other local experts about occurrences of sensitive wildlife species, including federally Threatened California red-legged frog (CRLF) that have not been recorded in official databases. Based on this research and these sources, we will develop target lists of sensitive plant and wildlife species with potential to occur in the Santa Rita Creek.

The biotic assessment will describe the biological resources present or potentially present in Santa Rita Creek. The biotic assessment will include a discussion of existing habitat conditions, documented occurrence of sensitive species in the maintenance areas, potential impacts, and measures to avoid, minimize, or mitigate for adverse impacts.

The Harris Team will use resource grade-GPS and ArcGIS to map sensitive habitats adjacent to aquatic features.

All biological resources will be presented in detailed maps or mapbooks. The mapbooks will also depict potential impacts and inform protective measures as well as the development of the Conceptual Mitigation Plan (**Task 5**) and Conceptual and Engineering Design Plans (**Task 6**).

A draft of the biotic assessment will be submitted to the City for review, comment, and approval prior to submittal to the agencies.

Task 2.3 Deliverables and Assumptions:

- Draft and Final Biotic Assessment for Santa Rita Creek.
- Map/s of Biological Resources (sensitive habitats, plants, wildlife species, and wildlife movement).
- This scope assumes that there will be one round of review of the Draft Biotic Assessment, the City will provide one set of consolidated comments, and the comments will not require major changes to the document.

Task 2.4 – Cultural and Historical Resources Report

Maintenance activities that fall under the jurisdiction of the USACE (and are subject to Section 404 of the Clean Water Act) also must comply with Section 106 of the National Historic Preservation Act (NHPA) through consultation with the State Historic Preservation Officer (SHPO) and Native American tribes.

The Harris Team will identify and map the Project Area [Area(s) of Potential Effect (APE)], on which direct ground disturbance may occur. The APE boundaries will define the limits of cultural resources studies including

background research, an updated records search, tribal outreach, and field survey. Albion Environmental will assess whether any cultural and historic built resources are located directly in or adjacent to the areas of proposed ground disturbance.

Albion's background research will include conducting a cultural and historic resources records search at the Northwest Information Center (NWIC), requesting information related to Native American resources from the Native American Heritage Commission, and any Native American contacts that are identified by the Commission, reviewing historical maps and documents, and conducting a desktop geoarchaeological review of local soil conditions for evidence of potential buried cultural resources. When possible, the results of these efforts will be used to help guide ground disturbing activities that may impact known cultural resources or refine proposed work in areas that have been identified as sensitive for supporting cultural resources.

A pedestrian field survey will be conducted to identify previously undocumented archaeological and historic built resources visible on the ground surface. The archaeologist will carefully inspect the ground surface to identify artifacts, features, and infrastructure, and assess the local geomorphic context. If resources are identified, the survey team would document them for future study.

The results of Albion's study will be compiled into a technical report to be used for regulatory compliance. The report will contain an abstract, introduction, natural and cultural context, results of background research, results of Tribal outreach, field methods, survey results, summary and discussion of cultural resource sensitivity for the APE, and if needed, recommendations for additional work needed to complete requirements under NHPA regulations. The report will also include completed site records for any sites or isolates identified during survey.

Task 2.4 Deliverables and Assumptions:

- Draft and Final Cultural Resources Report
- Outreach letters to Native American stakeholders

Task 3. CEQA Compliance/Documentation

In compliance with the requirements of the California Environmental Quality Act (CEQA), Harris will prepare the appropriate CEQA documentation for the Plan. We will first explore the use of an exemption from CEQA. If the plan does not meet the requirements for an exemption, an initial study/mitigated negative declaration (IS/MND) would likely be required.

Task 3.1 – CEQA Exemption

The Harris team in coordination with the City will explore the use of the following exemptions.

Categorical Exemption – Minor Alterations to Land (CEQA Guidelines 15304). **Class 4** consists of minor public or private alterations in the condition of land, water, and/or vegetation which do not involve removal of healthy, mature, scenic trees except for forestry or agricultural purposes. Examples include but are not limited to:

- Maintenance dredging where the spoil is deposited in a spoil area authorized by all applicable state and local regulatory agencies (g).

Task 3.1 Deliverables and Assumptions:

- Draft and Final Notice of Exemption with Supporting Documentation
- For the purposes of this scope of work and cost estimate, it is assumed that an exemption applies. However, the appropriate CEQA documentation will be determined once the detailed Project Description is complete.

Task 4. Regulatory Compliance/Permitting

This regulatory compliance/permitting task includes on-going consultation with the agencies, the preparation of permit application packages, and additional agency coordination/consultation to finalize permit requirements. For one-time sediment removal, EcoSystems will utilize the hydrologic and hydraulic modeling conducted by Waterways (Task 2.2) to identify impacts associated with construction activities (sediment removal, construction of an alternate flow channel, and bank slope stabilization and reconstruction) to restore flood capacity in each creek. We will also calculate on-going impacts associated with new proposed maintenance regimes.

Task 4.1 –Agency Consultation

The Harris Team will coordinate with the agencies in advance to facilitate permit approval for the actions proposed in the project such that the City will comply with the federal Clean Water Act, federal and state Endangered Species Acts, National Historic Preservation Act, and Fish and Game Codes.

Once the permit applications and reports are submitted to the agencies [USACE (USFWS, NOAA Fisheries, SHPO), Regional Board, and CDFW] (Task 4.2 below), there is typically additional agency coordination and information required to finalize and obtain the permits.

As a result of studies conducted in 2020, Harris and EcoSystems West have had several communications with the resources agencies regarding the proposed project and agency requirements for avoidance, minimization, and mitigation.

The Harris Team will continue to coordinate with the agencies regarding mitigation, monitoring, and adaptive management requirements to offset impacts from implementation of the Project. The Conceptual Mitigation Plan (Task 5.2) would be developed in conjunction with the regulatory agencies.

Task 4.1 Deliverables and Assumptions:

- After permit application submittal, Harris will provide regular email updates to the City.
- This scope assumes that the agencies will not require major changes to the permit packages, other than the refinement of the Conceptual Mitigation Plan. In the event that additional coordination is determined to be necessary (e.g. if it is determined that a more developed Habitat Mitigation and Management Plan is required by the agencies), a scope and budget augment would be requested.

Task 4.2 Permit Packages

Impacts to natural resources associated with Project implementation (including impacts that occur within the 100-year flood elevation to riparian habitats, wetlands, and other biological resources) require regulatory compliance with CWA Section 404 (USACE), CWA Section 401 (Regional Board), and California Fish and Game Codes (CDFW).

US Army Corps of Engineers (USACE)

This task includes preparation of the relevant USACE permit application form with a detailed description of the Project and permanent and temporary impacts to waters of the U.S. The figures for this report will be prepared using Engineering Design Plans for flood control actions. The Aquatic Resources Delineation (Task 2.1) will illustrate the type and extent of aquatic resources, including creeks and wetlands, within the Project Areas. The Harris Team will depict impacts to aquatic resources by overlaying Engineering Design Plans onto the aquatic resources shape files using ArcGIS.

The permit package will include the Aquatic Resources Delineation report (prepared in Task 2.1), the Biotic Assessment (prepared in Task 2.3), and the Cultural and Historical Resources report (prepared in Task 2.4). A

draft application package will be submitted to the City for review, comment, and approval prior to submittal to the USACE.

US Fish and Wildlife Service (USFWS)

If adverse effects to federally-listed species or critical habitat may occur, the USACE would initiate consultation with USFWS pursuant to Section 7 of the FESA. Our qualified biologists will prepare sufficient documentation, with a thorough review of federally-listed species and/or habitats present at or near the Project Areas, for submittal to the USACE for formal consultation with USFWS.

Regional Water Quality Control Board (Regional Board)

A Section 401 Water Quality Certification (WQC) must be obtained from the Regional Board for impacts to wetlands, waters of the U.S. and/or waters of the state. Therefore, this task includes preparing an application for WQC/WDR, as appropriate, for submittal to the Regional Board that would be based, in large part, on the information developed for the USACE permit application.

The application package will include a cover letter, description of existing conditions, discussion of impacts to aquatic features (including riparian habitat), description of avoidance and minimization measures, and a completed application form. The application package will also include demonstration of CEQA compliance (**Task 3**) and analysis of impacts to biological resources (**Task 2.3**). A draft of the WQC application package would be submitted to the City for review, comment, and approval prior to submittal to the Regional Board. A permit processing/filing fee will be required from the City at the time of application submittal. The fee amount will be based on the extent of temporary and permanent impacts.

California Department of Fish and Wildlife (CDFW)

The CDFW has jurisdiction over creeks below the break-in-bank and/or associated riparian habitat that may be impacted by project activities. As such, this task includes preparing an application for a Lake and Streambed Alteration Agreement (LSAA) pursuant to Section 1602 of CFGC. The application would include a cover letter, standard notification form, CEQA compliance (**Task 3**), and other necessary attachments (wetland delineation, figures, plans, biological assessment (**Task 2.3**)). A draft of the LSAA application package will be submitted to the City for review, comment, and approval prior to submittal to CDFW. An application filing/processing fee will be required from the City at the time of application submittal. The fee amount is based on the cost of the proposed work in CDFW's jurisdiction.

Task 4.2 Deliverables and Assumptions:

- Permitting packages for USACE (and USFWS), Regional Board, and CDFW regulatory compliance.
- This scope assumes that, for each permitting package, there will be one round of review, the City will provide one set of consolidated comments, and the comments will not require major changes to the permitting package.
- All permit fees are included in this scope of work (Task 8).
- This task includes 4 sites visits with agency personnel.



Task 5. Santa Rita Creek Maintenance and Conceptual Mitigation Plan

The Harris Team will work with the City to develop a plan for future maintenance activities necessary to retain flood control within Natividad Creek and Gabilan Creek (a component of the Project). In addition, we will draft a conceptual plan to mitigate for impacts associated with all aspects of the Project, including proposed flood control actions and future maintenance activities.

Task 5.1 Santa Rita Creek Maintenance Plan

Future maintenance activities will likely be required to retain flood capacity within Santa Rita Creek to protect public safety. The Maintenance Plan will include a descriptive overview of the activities required to maintain these features, ideally at discrete accessible locations designed to capture sediments. These activities would be subject to approval by the relevant regulatory agencies including USACE, CDFW, and the Regional Board. The overall goal of the Project is to reduce the need and increase the interval for on-going maintenance. The Harris Team will work with the City to develop a feasible future maintenance plan.

Task 5.2 Conceptual Mitigation Plan

Implementation of the Project (flood control actions, one-time sediment removal and on-going maintenance activities) will require a Conceptual Mitigation Plan to compensate for impacts to aquatic resources and adjacent riparian habitats.

Substantial comprehensive work has been done over a period of many years to describe and analyze regional, County-wide, and City-wide aquatic resources, stormwater, pollution, and sediment loads in the City and Monterey County, and in the Salinas River watershed. Our goal is to avoid duplication of efforts, to draw upon the resources developed to date, and take advantage of existing programs that could improve efficiency and reduce costs. To that end, the Conceptual Mitigation Plan includes the following components:

- A) Flood Control Actions Conceptual Designs and Engineering Design Plans (**Task 6**); and
- B) Habitat Restoration/Enhancement opportunities within the City limits.

To this end, the Conceptual Mitigation Plan would include the following sections:

- Project Description (**Task 1**), including existing flood management/sediment control; bank stabilization; erosion control; and future proposed maintenance actions required to maintain flood control.
- Summary of Hydrologic and Hydraulic Modeling.
- Ecological enhancement opportunities within City creeks and wetlands.
- Reduce pollution in City creeks using natural vegetative treatment filtration systems such as bioswales positioned at key locations.
- Enhance ecological functions and values of aquatic and riparian habitat in creek corridors and wetlands through invasive species removal, and native plant restoration compatible with flood management objectives (i.e., this would not include planting willows in flood corridors).
- Improve in-stream and near-stream infiltration/percolation of surface flows into the aquifer through design where possible.
- Manage open spaces adjacent to creeks and wetlands to improve the community benefits of the creeks and riparian corridors, and to deter unregulated encampments and the associated potential impacts on public safety (including fire prevention), water quality, and on the ecological integrity of the City's creeks and wetlands.

Task 5 Deliverables and Assumptions:

- Up to three (3) meetings with City personnel to discuss Maintenance Plan and Mitigation Plan goals
- The Harris Team will attend meetings partners to further coordinate and develop agreements to avoid, prevent, minimize, and mitigate for potential impacts associated with the Project (**Task 1**)
- Draft and Final Maintenance Plan (electronic format)
- Draft and Final Conceptual Mitigation Plan (electronic format)
- This scope assumes that meetings with partners will not exceed six (6) total hours. In the event that additional coordination is determined to be necessary, a scope and budget augment would be requested.
- This scope assumes that there will be one (1) round of review, the City will provide one set of consolidated comments, and the comments will not require major changes to the program.

Task 6. Conceptual and Engineering Design Plans

Based on the Feasibility Study conducted during 2023 and finalized in January 2024, Waterways will prepare plans and specifications detailing proposed sediment and vegetation management actions, ideally so that maintenance (sediment and vegetation removal) would occur in discrete locations to improve maintenance efficiency, reduce maintenance costs, and reduce on-going impacts to the City's creeks. These plans will be developed in communication with the City to meet the City's needs for on-going flood control, management, and maintenance.

Waterways will prepare conceptual designs, and 65% and 100% engineering design plans.

Task 6 Deliverables and Assumptions:

- Up to three (3) meetings with City personnel to discuss proposed features and designs
- Conceptual Plans (electronic format)
- 65% and 100% Engineering Design Plans and Technical Specifications
- This scope assumes that there will be two (2) rounds of review for conceptual plans and two (2) rounds of review for engineering design plans.

Task 7. CCWG Ryder Ranch Mitigation Bank Evaluation

To support the City's pursuit of Ryder Ranch as a mitigation site, Central Coast Wetlands Group (CCWG) will evaluate the site and develop the mitigation project as follows.

Task 7.1 Site Evaluation

- Participate in meetings and conduct preliminary field visit
- Conduct site evaluations to define restoration project opportunities and constraints
- Complete land appraisal process as needed for grant funding
- Iteratively present concept projects to identify opportunities and define constraints

Task 7.2 Project Development

- Develop cost estimates for full project design, construction, operations and maintenance, and an implementation timeline for each project
- Work with landowner to fully develop the acquisition agreement and project goals

Task 8. Permit Fees

The following permit fees are estimates (based on impact acreages and project construction costs), and the final fee amounts will be determined by the regulatory agencies.

8.1 Lower Gabilan Permit Fees - \$10,000

8.2 Upper Gabilan Permit Fees - \$10,000

8.3 Upper Natividad Permit Fees - \$20,000

8.4 Santa Rita Permit Fees - \$20,000

Cost Estimate

The cost estimate to conduct the work described above is \$332,325.00 (**Attachment A**).

Attachments

- A. Cost Estimate

Attachment A. Santa Rita Creek Flood Control Project* and Ryder Ranch Mitigation Bank Evaluation

Task Description	STAFF HOURS												DIRECT COSTS					Fee	
	Harris & Associates				EcoSystems West				Waterways				Central Coast Wetlands Group	Albion	Central Coast Wetlands Group	EcoSystem s West	EcoSystem s West		Waterways
	Kate Elliott Project Director	Biologist/Planner	Lindsay Mosner Tech Editor	Randy Deodat GIS Specialist	William Davilla Principal	Justin Davilla Senior Ecologist	Erin McGinty Sr Wildlife Biologist/ Project Manager	Biologist	Matt Weld Principal Engineer	Craig Stewart Engineer	Lovrin Hydrologist	2-Person Survey Crew	Mitigation	Cultural Resources	Appraisal Cost	Mileage	Permit Fees		Mileage
Task 1: Project Management and Detailed Project Description (Phase 01)	\$285.00	\$160.00	\$155.00	\$160.00	\$190.00	\$170.00	\$170.00	\$140.00	\$200.00	\$150.00	\$140.00	\$220.00							
1.1 Project Management and Coordination	40.0				24.0			40.0		20.0	8.0							\$ 27,960.00	
1.2 Meetings with City Staff (Bi-Weekly Dec 2024 - Dec 2025)	24.0				12.0	24.0		24.0		24.0								\$ 22,080.00	
1.3 Draft and Final Detailed Project Description	24.0		2.0	4.0	4.0	4.0		24.0		10.0								\$ 14,550.00	
Hours Subtotal	88	0	2	4	36	28	96	54	0	54	8	0	0						
Task 1 Subtotal	\$25,080.00	\$0.00	\$310.00	\$640.00	\$6,840.00	\$4,760.00	\$14,960.00	\$9,000.00	\$10,800.00	\$1,200.00	\$0.00	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$64,590.00
Task 2: Technical Studies (Phase 02)																			
2.1 Assessment of Aquatic Resources (Jurisdictional Delineation)					8.0	2.0	56.0	4.0		8.0	4.0					\$ 108.00		\$ 14,168.00	
2.2 Recommended Project Actions and Hydrologic/Hydraulic Modeling									24.0	24.0	40.0	20.0						\$ 18,400.00	
2.3 Biotic Assessment	4.0	20.0		16.0	2.0	40.0	40.0	28.0								\$ 216.00		\$ 25,016.00	
2.4 Cultural and Historical Resources Report	4.0													\$ 12,000.00				\$ 13,140.00	
Hours Subtotal	8.0	20	0	24	4	96	44	28	32.0	28	40	20							
Task 2 Subtotal	\$2,280.00	\$3,200.00	\$0.00	\$3,840.00	\$760.00	\$16,320.00	\$7,480.00	\$3,920.00	\$6,400.00	\$4,200.00	\$5,600.00	\$4,400.00	\$ -	\$ 12,000.00	\$ -	\$ 324.00	\$ -	\$ -	\$70,724.00
Task 3: CEQA Compliance/Documentation (Phase 03)																			
3.1 CEQA Exemption	8.0	16.0	1.0	2.0		2.0	2.0												\$ 5,996.00
Hours Subtotal	8.0	16	1	2	0	2	2	0	0	0	0	0							\$ 10,280.00
Task 3 Subtotal	\$2,280.00	\$2,560.00	\$155.00	\$320.00	\$0.00	\$340.00	\$340.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$5,995.00
Task 4: Regulatory Compliance/Permitting (Phase 04)																			
4.1 Agency Consultation					4.0	12.0	24.0	40.0	8.0	12.0			\$ -	\$ -					\$ 10,280.00
4.2 Permit Packages					8.0	4.0	32.0	96.0								\$ 200.00			\$ 29,600.00
Hours Subtotal	0.0	0	0	8	8	44	120	40	8	12	0	0							
Task 4 Subtotal	\$0.00	\$0.00	\$0.00	\$1,280.00	\$1,520.00	\$7,480.00	\$20,400.00	\$5,600.00	\$1,600.00	\$1,800.00	\$0.00	\$0.00	\$ -	\$ -	\$ -	\$ 200.00	\$ -	\$ -	\$39,880.00
Task 5: Santa Rita Creek Maintenance and Conceptual Mitigation Plan (Phase 05)																			
5.1 Santa Rita Creek Maintenance Plan	4.0				4.0	4.0	4.0	14.0		12.0									\$ 7,100.00
5.2 Conceptual Mitigation Plan	4.0				12.0	4.0	40.0	16.0											\$ 14,900.00
Hours Subtotal	8.0	0.0	0.0	12.0	4.0	16.0	44.0	16.0	14.0	12.0	0.0	0.0							
Task 5 Subtotal	\$2,280.00	\$0.00	\$0.00	\$1,920.00	\$760.00	\$2,720.00	\$7,480.00	\$2,240.00	\$2,800.00	\$1,800.00	\$0.00	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$22,000.00
Task 6: Conceptual and Engineering Design Plans (Phase 06)																			
6.1 Conceptual Design Plans						2.0	2.0	1.0	24.0	50.0									\$ 108.00
6.2 Engineering Design Plans						4.0	4.0	1.0	60.0	100.0									\$ 216.00
Hours Subtotal	0.0	0.0	0.0	0.0	0.0	6.0	6.0	2.0	84.0	150.0	0.0	0.0							
Task 6 Subtotal	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,020.00	\$1,020.00	\$280.00	\$16,800.00	\$22,500.00	\$0.00	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$324.00
Task 7: Central Coast Wetlands Group Support (Phase 07)																			
7.1 Site Evaluation																			
Participate in Meetings and Conduct Preliminary Field Visit													\$ 1,820.00						\$ 1,820.00
Conduct site evaluations to define restoration project opportunities & constraints													\$ 780.00						\$ 780.00
Complete land appraisal process as needed by City for grant funding													\$ 780.00	\$ 5,000.00					\$ 5,780.00
Iteratively present concept projects to identify opportunities and define constraints													\$ 4,160.00						\$ 4,160.00
7.2 Project Development																			
Develop cost estimates for full project design, construction, operations and maintenance, and an implementation timeline for each project													\$ 2,080.00						\$ 2,080.00
Work with landowner to fully develop the acquisition agreement and project goals													\$ 2,080.00						\$ 2,080.00
Hours Subtotal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	\$ 11,700.00	\$ -	\$ 5,000.00	\$ -	\$ -	\$ -	
Task 7 Subtotal	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$ 11,700.00	\$ -	\$ 5,000.00	\$ -	\$ -	\$ -	\$16,700.00
Task 8: Permit Fees* (Phase 08)																			
8.1 Lower Gabilan Permit Fees																			\$ 10,000.00
8.2 Upper Gabilan Permit Fees																			\$ 10,000.00
8.3 Upper Natividad Permit Fees																			\$ 20,000.00
8.4 Santa Rita Permit Fees																			\$ 20,000.00
Hours Subtotal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
Task 8 Subtotal	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$60,000.00
SUBTOTAL TASKS 1-8	\$31,920.00	\$5,760.00	\$465.00	\$8,000.00	\$9,880.00	\$32,640.00	\$51,680.00	\$12,040.00	\$38,400.00	\$31,500.00	\$5,600.00	\$4,400.00	\$11,700.00	\$12,000.00	\$ 5,000.00	\$ 524.00	\$ -	\$ 324.00	\$321,833.00
Subconsultant Markup (5%)					\$494	\$1,632	\$2,584	\$602	\$1,920	\$1,575	\$280	\$220	\$585	\$600					\$10,492
TOTAL																			\$332,325.00

*This scope includes not only getting the permits, but taking this to a shovel ready project (description, parameters, etc for DPW to implement).

**The permit fees are estimates and will be determined by the regulatory agencies.