

STAFF REPORT

To: Coastside County Water District Board of Directors

From: Mary Rogren, General Manager

Agenda: February 11, 2020

Date: February 7, 2020

Subject: Approval of Professional Services Agreement with WRA Environmental Consultants to prepare a California Environmental Quality Act Initial Study/Mitigated Negative Declaration and a Cultural Resources Report for the Pilarcitos Creek Crossing Pipeline Replacement Project

Recommendation:

Authorize the General Manager to execute a Professional Services Agreement with WRA Environmental Consultants (WRA) for preparation of the California Environmental Quality Act (CEQA) Initial Study/Mitigated Negative Declaration (IS/MND) and a Cultural Resources Report for the Pilarcitos Creek Crossing Pipeline Replacement Project for a cost not to exceed \$40,800.

Background:

The District's Pilarcitos Creek Pipeline is a ~450' crossing under the creek used to convey potable water to the southern portion of the District. The pipeline extends from Stawflower Village Shopping Center to the north and crosses underneath Pilarcitos Creek to Oak Avenue to the south. This is one of only two pipelines supplying water to areas of the District south of Pilarcitos Creek including downtown Half Moon Bay.

Due to the unknown age, condition and location of the existing pipeline, staff recommends that the District replace this pipeline with a fusible High Density PolyEthylene (HDPE) pipeline via a Horizontal Directional Drilling (HDD) methodology. EKI Environment & Water Inc. (EKI) has recently submitted a draft Preliminary Design for this project, and they identified required environmental and cultural resources work that should start immediately in order for the District to be able to construct the pipeline in the next fiscal year.

EKI solicited the attached proposal from WRA Environmental Consultants to prepare the CEQA IS/MND and Cultural Resources Report. Included in WRA's services is to prepare and publish a draft IS/MND, provide responses to public comments, and prepare an Administrative Final IS/MND. Note that WRA prepared the IS/MND for the El Granada Pipeline Replacement project in 2015.

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Fiscal Impact:

The District CIP (approved June 2018) includes \$700,000 in funding for this project in FY19/20.



CALIFORNIA ENVIRONMENTAL QUALITY ACT SERVICES
CCWD PILARCITOS CREEK CROSSING (STRAWFLOWER) PROJECT
HALF MOON BAY, CALIFORNIA

SCOPE OF WORK AND ESTIMATED BUDGET

Prepared for:
Jonathan Sutter, P.E.
EKI Environment & Water, Inc.

January 22, 2020
WRA Project Number: 29375

PROJECT PURPOSE AND UNDERSTANDING

The purpose of this Proposal is to prepare California Environmental Quality Act (CEQA) documentation for the installation of a new Coastside County Water District (CCWD) water pipeline beneath Pilarcitos Creek in Half Moon Bay, California. The approximately 450-foot long pipeline would be installed using horizontal directional drilling (HDD) under Pilarcitos Creek from the Strawflower Village Shopping Center to Oak Avenue and Oak Avenue Park. Staging would be provided in the shopping center and Pilarcitos Avenue. CCWD will serve as the CEQA Lead Agency.

WORK PRODUCTS AND SERVICES

Work products will include:

- CEQA Initial Study/Mitigated Negative Declaration (IS/MND)
- Cultural Resources Report (Optional Task)

SCOPE OF WORK

Task 1: Kick-Off Meeting, Information Review, and Project Description

WRA proposes to kick-off the environmental review process with EKI Environment & Water, Inc. (Client) and CCWD by: 1) collecting all relevant reports and drawings (or identify relevant documents for copying); 2) discussing the proposed project; 3) resolving issues regarding overall assumptions; 4) identifying other key CCWD contacts; and 5) discussing overall communication protocols. WRA will prepare a draft Project Description for the Initial Study/Mitigate Negative Declaration (IS/MND) which will include discussions of the following: 1) project site's regional and local location; 2) project objectives and goals; 3) project characteristics; and 4) a list of required approvals.

Task 2: Prepare CEQA Administrative Draft IS/MND

WRA will prepare an Administrative Draft IS/MND that will include a completed environmental checklist form, including a project description; an evaluation of impacts following the outline established in the checklist, including analysis of each issue; and mitigation measures. The Administrative Draft IS/MND will be submitted to the Client for review first. Upon making any revisions per Client comments, WRA will submit the Administrative Draft IS/MND to CCWD for review.

As an optional task the IS/MND can be supported by a Cultural Resources Report to be prepared by Alta Archaeological Consulting (ALTA). While all of the improvements would be below Pilarcitos Creek and in developed areas (e.g., shopping center, park, and roads), the potential for cultural resources is typically greater near creeks and other water bodies and thus WRA recommends including this optional task as a part of the IS/MND.

Task 2a: Cultural Resources Report (Optional Task)

At a minimum, the scope of work includes four tasks: (1) Background Research, (2) Native American outreach, (3) field survey, (4) preparation of an Archaeological Survey Report.

Background Research and Literature Review

Alta Archaeological Consulting (ALTA) will perform a records search at the California Historical Resources Information System, Northwest Information Center (NWIC) located on the campus of Sonoma State University. The NWIC is the primary repository for cultural resources information that covers an eighteen county area including San Mateo County. The purpose of archival research is to identify any previously conducted archaeological surveys or known archaeological sites located on the subject properties and within a one-half mile radius of the project area(s). In addition, ethnographic and historic literature will be reviewed to create background contextual information relevant to the project area. Existing geotechnical reports, historic maps, soil survey data, and geological reports will be reviewed in order to determine the overall sensitivity of the project area for containing unidentified cultural resources. Other archives and institutions where research may also be conducted include the local History Museum and / or the local Public Library.

Native American Outreach

Assembly Bill 52, which went into effect in July 2015, is an amendment to CEQA Section 5097.94 of the Public Resources Code. AB52 established a consultation process with all California Native American tribes identified by the Native American Heritage Commission (NAHC) with cultural ties to an area and created a new class of resources under CEQA known as Tribal Cultural Resources.

ALTA will request the NAHC review the Sacred Lands Files for any resources that may be present within the project area and to provide a list of local Native American tribes. ALTA (if the Lead Agency has not completed) will use regular mail to contact in writing Native American groups or individuals identified by the NAHC to inform them of the proposed project and to solicit their concerns about the undertaking. Follow up phone calls may be made to ensure that letters were received and to discuss any potential concerns with the project. Comments and information provided by the Native American community and government agencies will be provided in the draft and final reports.

Field Survey

ALTA staff will conduct an on-site field reconnaissance of the project area. The project area(s) will be intensively examined for cultural resources. A complete inventory entails systematic pedestrian examination of the ground surface. In accordance with established standards, field reconnaissance will be conducted using transects spaced no more than 10 meters apart. Transect interval spacing will be reduced in areas depending upon the sensitivity or the parcel. Areas of low sensitivity will be given cursory survey coverage. The survey may include surface scrapes, subsurface shovel probes and/or hand auguring. No artifacts will be collected as part of this reconnaissance. The field crew will maintain daily field notes and the findings will be made available immediately following the field investigation.

All resources identified within the project area will be recorded using the standard *State of California Department of Parks and Recreation Archaeological Site Forms*. A cultural resource shall have a minimum age of 45 years. As cultural resources are located during survey, approximate boundaries will be delineated and the location of the resource plotted on topographic maps. Global Positioning System (GPS) mapping of each site location will be undertaken. Site recordation will include site and feature mapping, completing of site record forms, and photography. All photographs will be done in a digital format. An evaluation of the impact agents and structural condition will be noted for each resource in the project area. As appropriate, a limited narrative will be provided to further describe the nature, extent, and location of resources.

Archaeological Survey Report

ALTA will prepare an Archaeological Survey Report (ASR) in accordance with the standard guidelines in *Archaeological Resource Management Reports* (1990). The ASR will include a summary of the identification efforts undertaken in the study, consultation with agencies and local governments, provide a summary of archaeological methods and findings, and make preliminary recommendations for appropriate treatment and/or evaluation of resources. The archaeological survey report will be sufficient to satisfy requirements defined by CEQA. One draft copy will be submitted to the Client in a digital format (MSWord and PDF) for review and comment. Revisions to the draft will be incorporated into the final document.

Task 3: Prepare Draft IS/MND per CCWD's Comments

After providing the Administrative Draft IS/MND to CCWD for review, WRA will address all of CCWD's comments. WRA will prepare one copy of a Screencheck Draft IS/MND that the Client can review before the document is submitted to CCWD. The purpose of the Screencheck Draft IS/MND is to allow the Client and CCWD to confirm that all comments have been addressed before publishing the Draft IS/MND for public review.

Task 4: Publication of the Draft IS/MND

Upon approval of the Screencheck Draft IS/MND, WRA will reproduce additional copies of the Draft IS/MND for CCWD's use during the 30-day public review period. Additionally, WRA will coordinate with CCWD in providing web-ready documents for publication on CCWD's website. WRA will also produce and circulate the Notice of Intent (NOI), as well as any other CEQA noticing requirements, including the Notice of Completion (NOC) and Notice of Determination (NOD) to the County Clerk and State Clearinghouse, as applicable.

Task 5: Prepare Final IS/MND and Response to Comments

Following completion of the 30-day public review period, WRA will respond to agency and public comments submitted on the Draft IS/MND. The extent of work necessary to complete the Final IS/MND is contingent upon the number and nature of public comments received after the Draft IS/MND is circulated. The Final IS/MND will include the response to comments, any edits required to the Draft IS/MND, and a Mitigation Monitoring and Reporting Program (MMRP). The Administrative Final IS/MND will be submitted to the Client for review prior to submittal to CCWD. In addition to the kick-off meeting, this scope of work includes attendance at up to one public hearing.

Task 6: Project Management and Team Meetings

Mr. Geoff Reilly of WRA will provide internal project management, tracking of detailed subtask progress, team coordination, and quality assurance in the preparation of our work products. Ongoing communication regarding progress on each work product, preliminary findings, and information exchange will also be coordinated by the WRA project manager. The project manager will be responsible for maintaining project cost estimates, scheduling for the project, and will be available by phone or email to answer technical questions and assist with ongoing project issues. In addition to WRA's attendance at the kick-off meeting and one public hearing, this proposal assumes one additional team meeting with the Client and/or CCWD to go over comments on the IS/MND.

Schedule

Tasks in this scope of work will be completed based on a schedule determined in consultation with the Client and CCWD based on overall project goals and expectations.

Assumptions

- Project description maps and related information will be provided by the project team prior to initiation of the CEQA analysis.
- Changes to the Project Description and/or Project Boundaries may require additional budget to update the environmental analysis.
- Estimated costs herein are on a time and materials basis, and completion of the project will not exceed the given budget without prior authorization from the client in writing. Should contingencies arise that will increase cost, WRA will inform the Client immediately to explain what is needed and obtain authorization to continue.
- Access to the site shall be provided by the Client and/or Property Owner, and any keys or combinations to locks, etc., shall be provided to WRA staff necessary to complete this Scope of Work. Any residents, caretakers, or other agents of Client on-site shall be informed of WRA's presence on-site. WRA will inform Client up to five business days prior to conducting site visits.
- Any available project plans or other site information will be provided in electronic spatial format such as GIS or CAD.
- Any previous correspondence with local, state, or federal regulatory resource agencies that relate to the project shall be provided for WRA.
- Other than the Optional Cultural Resources Task, this Scope of Work does not include other technical reports such as a Biological Resources Assessment.
- Regulatory permit applications are not included in this Scope of Work.

- The Optional Cultural Resources budget assumes that up to one prehistoric-era resource could be present within the project area that requires formal documentation. Recordation of additional resources would be completed at a rate of \$350.00 per occurrence and be in addition to the estimate budget listed below.

Estimated Cost

The estimated cost for the services described in this scope of work is provided below and is based on assumptions provided. The estimated cost is subject to change based on specific conditions that arise during the conduct of this work.

Task	Budget
Task 1. Kick-off Meeting, Information Review, Project Description	\$3,900.00
Task 2. Administrative Draft IS/MND	\$14,500.00
Task 2a. Cultural Resources Report (Optional Task)	\$4,800.00
Task 3. Draft IS/MND	\$4,900.00
Task 4. Publication of Draft IS/MND	\$2,400.00
Task 5. Final IS/MND	\$5,500.00
Task 6. Project Management and Team Meetings	\$4,800.00
Total (with Optional Task 2a)	\$40,800.00

Firm Description

WRA, Inc. provides a range of environmental services including environmental planning related to the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA), biological assessments, habitat restoration, mitigation design, resource agency permitting as well as expertise in wetlands, plant ecology, special status species studies, and landscape architecture. Formed in 1981, WRA is a California certified small business (#13333).

WRA has completed over 3,000 projects for public agencies, non-profit, and private organizations in California. Our wide range of project experience includes hundreds of projects in Marin County. WRA has provided on-call services to cities and counties throughout the State and worked with the City of San Rafael Public Works Department since 2016 through a Master Service Agreement.

Environmental Review

WRA is experienced in the application of federal and state environmental review, regulatory permitting, and ensuring compliance with environmental requirements during and after construction. WRA's approach to environmental review, permitting, compliance and monitoring for public agencies recognizes the importance of environmental protection of resources while accounting for practical aspects of projects that maintain the feasibility of project construction. Efficient completion of the environmental review and permitting process is important for keeping projects on schedule and within budget. Ensuring compliance with the various environmental laws and regulations maintains continued public support of projects, avoiding cost overruns that may result from non-compliance (and perceived non-compliance), and to enhance political capital with the general public, regulatory agencies, and potential state and federal funding sources.

Environmental review refers to documentation completed pursuant to CEQA/NEPA; including Caltrans Standard Environmental Review processes. Completing the environmental review may also require a public review period. Because of the public nature of the CEQA/NEPA processes, the level of potential controversy associated with a project is a key input into the approach to CEQA/NEPA documentation. Identifying key issues early on for any particular project, as well as any past environmental review documents previously completed for a site, are also important steps to scoping and delivering environmental review documents that provide the appropriate level of coverage under CEQA/NEPA in the most efficient way possible.

WRA specializes in wide-ranging identification of constraints and opportunities created by a project and the identification of CEQA mitigation measures and NEPA avoidance and minimization measures that reduce or avoid significant impacts to the environment. We frequently incorporate feasible design features and best management practices into the project description to "self-mitigate" project impacts and often reduce the amount of environmental review required (e.g., Categorical Exemption and Exclusion).

WRA'S PROFESSIONAL/TECHNICAL SERVICES

- CEQA/NEPA Analysis
- Aquatic resources (wetlands, streams, riparian, marine)
- Biological resource assessments
- Certified arborist services
- GIS analyses and remote sensing
- Landscape architecture design
- Mitigation services
- Rare and endangered plant and wildlife surveys
- Regulatory permitting (Corp, RWQCB, CDFW, USFWS, NMFS, BCDC, etc.)
- Trail design and open space management planning
- Vegetation mapping and biological inventories
- Water resources engineering
- Watershed assessments and planning
- Wetland and stream delineation and functional assessment
- Wetland and endangered species



GEOFF REILLY, AICP
Senior Environmental Planner

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Years of Experience: 28

Education

BA Resource and Environmental
Geography, Spanish Minor
San Diego State University

**Professional Affiliations/
Certifications**

American Institute of Certified Planners
(AICP)

Association of Environmental
Professionals (AEP)

American Planning Association (APA)

2013 NWETC NEPA Certification:
Writing the Perfect EA/FONSI or EIS

2013 Caltrans Local Assistance
Training Certification

**Specialized Training and
Presentations**

Annual AEP Advanced CEQA
Workshops

2012 Lorman Education Services
CEQA Presentation ("Completing the
CEQA Process")

Fall 2012 AEP CEQA Basics
Workshop Presentation

Mr. Reilly is a Senior Environmental Planner at WRA, Inc. He has over 28 years of experience in the preparation and management of environmental review documents pursuant to the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). He has a broad knowledge of environmental and regulatory issues that affect land development and has successfully managed the environmental review process for many complex and controversial projects. He has acted both as project manager and principal writer for a wide variety of projects, including residential subdivisions, commercial retail and office developments, mixed-use projects, institutions, recreational amenities, industrial facilities, and roadway improvements.

Mr. Reilly has supervised the preparation of all types of CEQA and NEPA documents for both public and private sector clients, including initial studies, mitigated negative declarations, environmental assessments, EIRs, EISs, constraints analyses, technical background reports, expert witness testimony, and third party review. He also has prepared many Program EIRs for Master Plans, Specific Plans and General Plan Updates throughout California. His responsibilities include marketing, client and subcontractor liaison, project budgeting and scheduling, QA/QC, and the presentation of environmental analyses, recommendations, and strategies at client meetings and public hearings.

Representative Projects

El Granada Pipeline Replacement Project Initial Study/Mitigated Negative Declaration, Half Moon Bay, California

Mr. Reilly managed the preparation of an Initial Study for the Coastside County Water District. The El Granada Pipeline Replacement project will replace an existing 10-inch welded steel pipeline mounted underneath the western walkway on the City of Half Moon Bay's Main Street Bridge, which crosses Pilarcitos Creek. The new pipe alignment will extend through private property on the north side of Pilarcitos Creek, underneath the creek, and east along Mill Street. WRA teamed with engineers Erler & Kalinowski, Inc. to create strategic design solutions and avoid any impacts to the riparian corridor.

Water Service Extension for Existing Facilities at Shamrock Ranch Initial Study/Mitigated Negative Declaration, San Mateo County, California

Mr. Reilly assisted with the preparation of an Initial Study for the North Coast County Water District. The Water Service Extension for Existing Facilities at Shamrock Ranch will install a water service connection to allow the District to provide a reliable water source for the existing development on the Shamrock Ranch property, which is outside the District's jurisdiction. The service connection includes the installation of a water meter, a pipeline connection from Peralta Road to the water meter, a pipeline connection from the water meter to the existing water tanks on the site, and a backflow preventer. He also assisted with the preparation of the San Mateo Local Agency Formation Commission application to extend the District's service outside its jurisdictional boundaries.

GEOFF REILLY

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Runnymede Storm Drain Improvement Project, City of East Palo Alto, California

WRA managed a team of consultants in support of a flood control/storm drain improvement project undertaken by the City of East Palo Alto along the margin of the San Francisco Bay. The project involves dredging an existing, unmaintained storm drainage channel and associated catchment basin. The water is then pumped into San Francisquito Creek, a tidally influenced creek that flows to the Bay. The channel and forebay support tidal marsh habitat and associated endangered species such as Salt Marsh Harvest Mouse and California Clapper Rail. Based on sediment sampling conducted between 1996 and 1998, elevated concentrations of arsenic have been found in sediments within the Runnymede storm drain channel. The project therefore required a soil and groundwater management plan to address the potential for contaminated soil with respect to fugitive dust during construction activities. Mr. Reilly served as the project manager for the Initial Study/Mitigated Negative Declaration which was adopted by the East Palo Alto City Council in 2015.

2017 Capital Improvement Project: Old River Road and Vicinity CEQA Categorical Exemption and NEPA Categorical Exclusion, Guerneville, California

Mr. Reilly oversaw the preparation of a Categorical Exemption pursuant to the California Environmental Quality Act (CEQA), and a Categorical Exclusion pursuant to the National Environmental Policy Act (NEPA) for the Sweetwater Springs Water District, who is receiving funding for the project from the U.S. Department of Agriculture. The project includes approximately 7,600 feet of water main replacements along Old River Road and River Road from Morningside Drive to Canyon 2 Road, Orchard Road, Foothill Boulevard, and Outlet Drive. WRA coordinated with the District and their engineers, as well as a cultural subconsultant, and internal staff to prepare a project description, archaeological survey report, and biological resource assessment providing evidence to support both the CEQA Categorical Exemption and NEPA Categorical Exclusion findings.

Sausal Vista Pump Station Improvements, West Bay Sanitary District, California

Mr. Reilly managed the preparation of an Initial Study/MND for the abandonment of the Corte Madera Sewer Pump Station (PS) and the upgrades of the Sausal Vista PS, both of which are located in the Town of Portola Valley. The project also includes a new gravity sewer line from each PS and the abandonment of the existing force main from the Corte Madera PS to Portola Road. The primary objective of the proposed project is to reduce the amount of wastewater system maintenance required by District staff, address odor issues in the project site, and to reduce the risk, from aging pipeline, of potential sewage spills into Corte Madera Creek.

25th Avenue Sanitary Sewer Relief Line Project Initial Study, City of San Mateo, California

Mr. Reilly managed the preparation of an Initial Study and Negative Declaration for a proposed sanitary sewer relief line along 25th Avenue in San Mateo. The need for the new relief sewer line was identified in the City's 2005 Citywide Sewer System Study. The City was also issued a Cease and Desist Order by the San Francisco Bay Regional Water Quality Control Board, which requires it to eliminate sanitary sewer overflows from being discharged into the storm drain system, surface waters, and ground waters.

Crestmoor Canyon Sewer Replacement Project, San Bruno, California

In 2016 Mr. Reilly assisted the City of San Bruno Public Works Department with a Site Inventory and Constraints Assessment that provided an overview of the potential environmental constraints at Crestmoor Canyon in the City of San Bruno. The Assessment helped guide the City's planning process for a new detention basin proposed for the City's 2014 Storm Drain Master Plan. WRA also assisted the Public Works Department with a CEQA Categorical Exemption for a proposed 1,600 linear foot high-density polyethylene sewer main within Crestmoor Canyon which tiered from the Constraints Assessment.

RWQCP New Outfall Project, City of Palo Alto, California

Mr. Reilly managed the preparation of an Initial Study/MND for this project which consists of a new effluent outfall pipe, rehabilitation of the existing outfall pipe, and replacement of the Renzel Marsh pump. The new effluent outfall pipe would extend approximately 2,402 linear feet, starting at the Plant and ending immediately adjacent to the existing outfall pipe's discharge point. Installation of the new effluent outfall pipe would require open trenching and backfilling. The existing outfall pipe would be rehabilitated with flexible joint seals and no open excavation would be required as construction workers would enter the pipe to install these repairs.



Rachael Carnes
Environmental Planner

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Years of Experience: 9

Education

M.E.M., Ecosystem Science and Conservation, Duke University, 2011
B.A., Environmental Science, Hendrix College, 2008

**Professional Affiliations/
Certifications**

Association of Environmental Professionals

American Planning Association

Certificate in Geospatial Analysis

Specialized Training

Wetlands Regulation and Mitigation, UC Davis Extension, 2017

Implementation of NEPA, Duke University, 2011

**Special Recognitions/
Publications**

Publication: "Landscape connectivity losses due to sea level rise and land use change" (Animal Conservation, 2016)

Publication: "The size of savannah Africa: a lion's (Panthera leo) view" (Biodiversity Conservation, 2013)

Rachael Carnes received a Master's degree in Environmental Management from Duke University in 2011, following her Bachelor's degree in Environmental Science in 2008. Since that time, Rachael has been gathering experience and expertise in land planning and management, environmental permitting, CEQA/NEPA review, habitat conservation, and technical writing while working within the public, private, and non-profit sectors.

Rachael is now an Environmental Planner at WRA, Inc., focused on guiding clients through the CEQA/NEPA process and consulting with agencies regarding planning entitlements and development review applications. She coordinates teams and information flow and prepares documents for a project's initial study (IS), mitigated negative declaration (MND), environmental assessment (EA), Environmental Impact Report (EIR), Environmental Impact Statement (EIS), constraints analysis, and technical background reports. Rachael has worked with clients and agencies such as the U.S. Fish and Wildlife Service (USFWS), the U.S. Customs and Border Patrol (CBP), the California Department of Fish and Wildlife (CDFW), the California Department of Transportation (Caltrans), PG&E, City and County governments, and special districts to provide environmental planning needs and coordinate the environmental review process.

Representative Projects

Town of Hillsborough, San Mateo Creek Bank Restoration IS/MND Addendum, Hillsborough, California

Ms. Carnes prepared the CEQA IS/MND Addendum and coordinated with the project team to guide preparation of various technical reports for a creek bank stabilization at 773 El Cerrito Avenue in Hillsborough. The Town of Hillsborough proposed to provide bank stabilization to an existing creek bank along the San Mateo Creek and protect the bank from erosion during future storm events. A pier wall is currently providing stabilization to the existing roadway and utilities located within the roadway, but storm events in the winter of 2016-2017 have caused erosion to occur along the pier wall and exposed the bottom of the grade beam and the top 12 to 18 inches of a few of the cast-in-drilled-hole piers.

City of San Rafael, San Quentin Pump Station Replacement IS/MND, San Rafael, California

Ms. Carnes prepared the IS/MND for the project, including the coordination of information from various project team members and subconsultants. The proposed project, directly north of the Target property at 123 Shoreline Parkway in San Rafael, is located on former marshland abutting San Rafael Bay approximately 0.20 miles to the east. The current pump station and outfall pipe have become deteriorated with age and exposure to the elements. The City proposes replacing these structures to increase storm water conveyance, capacity, and efficiency. The proposed project would require demolition of the current station, trenching for certain sections of the outfall pipe, grading, and revegetation of portions of the site for wetland mitigation.

City of Palo Alto, San Francisquito Creek Bank Stabilization Project Development Application, Palo Alto, California

The Children's Health Council (CHC) provides specialized education to children and teens with a variety of learning differences. The banks of San Francisquito Creek at the margins of CHC property were actively eroding and resulting in a loss of CHC property and outdoor learning area. Ms. Carnes coordinated and prepared city development applications and assisted in permitting efforts.

RACHAEL CARNES

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City of Newark, Cargill Plummer Slough Bridge Project IS/MND, Newark, California

Cargill operates a solar salt production facility in Newark, where salt is produced using bay water and evaporation. The proposed project would provide an alternative and more direct access route for Cargill operations vehicles, away from a new residential development that is currently under construction adjacent to the current access route. Ms. Carnes assisted with the final IS/MND, including the Mitigation and Monitoring Reporting Program, and coordinated and completed the CEQA noticing documents.

Town of Colma, 1055 El Camino Real Development Project CEQA Infill Exemption, Colma, California

Ms. Carnes prepared a CEQA Appendix N Infill Exemption Checklist package for the Town of Colma, including technical memorandums on the topics of air quality, GHG emissions, and noise. The project called for a one-story, 12,501-square-foot kidney dialysis treatment center and a new parking lot accommodating 38 vehicles along one of the main Town throughways. The work required grading, retaining walls, removal of existing trees, new site landscaping, storm water management BMPs, and construction of new water and sewer laterals.

Sewer Authority Mid-Coastside (SAM), Wet Weather Storage Facility Expansion Project IS/MND Addendum, San Mateo County, California

The Sewer Authority Mid-Coastside (SAM) required an expansion of their underground storage system, adding five additional storage tanks immediately adjacent to the five existing tanks, to better manage the current levels of stormwater infiltration and inflow that exceeded the existing system's capacity during large storm events. The project was designed to prevent untreated sewage discharges to the environment that could result in contamination of the Pacific Ocean, Monterey Bay National Marine Sanctuary, recreation beaches, and sensitive biological habitats. Ms. Carnes prepared the addendum to the IS/MND that was certified for the current system in 2009.

Marin Emergency Radio Authority (MERA), Next Generation Radio Communication System Subsequent EIR, Marin County, California

The MERA system currently includes 16 active communications sites, united with microwave links to provide centralized communication channels and management of local and wide-area public safety communications. The combination of older equipment and recent changes in federal radio frequency requirements mandated by the Congressional Jobs Bill HR 3630 (2012) necessitate an upgrade of all UHF radio communications systems by 2021, including MERA. The proposed project would accomplish these upgrades. Ms. Carnes assisted in the preparation of the Draft Subsequent EIR and various technical studies and is currently coordinating with the project team to deliver the Screencheck and Final Draft documents.

Town of San Anselmo, Bridge Preventative Maintenance Program IS/MND, San Anselmo, California

Ms. Carnes prepared the IS/MND for two bridge repair projects under the Highway Bridge Program (HBP) Bridge Preventative Maintenance Program (BPMP), along with a NEPA Categorical Exclusion pursuant to Caltrans District 4 Local Assistance requirements. Ms. Carnes coordinated and assisted in the preparation of the following supporting technical memos and studies: Equipment Staging, Hazardous Materials, Land Use, Traffic, and Water Quality. The two bridges are located on Barber Avenue over Corte Madera Creek and on Sir Francis Drake Boulevard over San Anselmo Creek. For both projects, the main work required would be limited to removing asphalt concrete overlay, resealing with polyester concrete, and general repair of concrete cracks and spalls on the surface and soffit of the bridges.

Town of Hillsborough, Sandra Hayne Storm Drain Replacement and Creek Daylighting Project, Hillsborough, CA

Ms. Carnes managed information flow and coordinated the project team to deliver a CEQA-level project description and is currently writing the IS/MND for the project, proposed by the Town of Hillsborough Public Works Department. The project involves the replacement of the existing eroded storm drain system that conveys Cherry Creek in the area around Sandra Road and Hayne Road, as well as the culvert that carries flow from an unnamed tributary under Hayne Road. As part of these improvements, the Town also plans to daylight a portion of lower Cherry Creek, which would reduce the fast-paced erosion currently occurring along this section of the creek. Activities would restore a portion of the creek to its more natural state, creating native fish habitat, reducing flow velocity of the creek to avoid further erosion, and avoiding increased risk of flooding to adjacent properties.

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Current Position	Discipline	Qualifications
<ul style="list-style-type: none">▪ Managing Member and Primary Owner▪ Principal Archaeologist	<ul style="list-style-type: none">▪ Cultural Resource Management▪ Prehistoric Archaeology	<ul style="list-style-type: none">▪ Registered Professional Archaeologist▪ MA Cultural Resource Planning, Policy, and Procedure

Summary of Experience

Risa DeGeorgey's professional archaeological career began in 1998. Since then, Ms. DeGeorgey has been working with both public agencies and the private sector engaged in the management of cultural resources. Risa completed an Interdisciplinary Master's degree at Sonoma State University focused on business development, business management, and integrating land use planning with cultural resource management. She has founded and managed two successful cultural resource management firms. Risa has served on the Board of the Society for California Archaeology for two years and is a Professional Archaeologist in good standing with the Register of Professional Archaeologists. Ms. DeGeorgey meets the Secretary of the Interior's standard for cultural resource specialists involved in preservation activities at all levels of government involving historic-era and prehistoric-era archaeological resources. Risa DeGeorgey is Alta Archaeological Consulting LLC's founder, Managing Member, and the primary individual responsible for archaeological investigations, quality control, and general oversight of the company.

Education

- 2006 Interdisciplinary Studies MA, Sonoma State University
Cultural Resource: Planning, Policy, and Procedure
- 2002 Bachelor of Science, Anthropology, University of California, Davis
- 2000 Archaeological Field School, University of Hawaii, Manoa

Professional Experience

Managing Member/Principal Archaeologist 2012—Present
Alta Archaeological Consulting, LLC - Santa Rosa, California

Primary Owner of Alta Archaeological Consulting, LLC. Duties include: making day to day management and policy decisions regarding finance, business operations, personnel management, marketing, sales, and equipment purchasing; field and lab supervision; client negotiation; developing business relationships; multi-agency coordination; Native American consultation; informing clients of the laws applicable to their projects; project planning; project budgeting; field work coordination; lab management; data base management; statistical analysis; pre- and post-field research; archaeological survey; site recordation; site mapping; writing research designs; supervising data recovery programs; archaeological site evaluation; writing technical reports; graphic production; report production; and making cultural resource management recommendations to land use managers. As leader of the ALTA team, Risa is responsible for providing clients cost effective solutions for complex environmental and cultural resource management issues.

GOVERNMENT & NONPROFIT CLIENT RATE SCHEDULE
Effective: January 1, 2020

PRINCIPAL	\$222-235/hr
ASSOCIATE PRINCIPAL	222/hr
SENIOR ENVIRONMENTAL PLANNER	222/hr
SENIOR ASSOCIATE GEOMORPHOLOGIST	222/hr
SENIOR ASSOCIATE ENGINEER	222/hr
SENIOR ASSOCIATE LANDSCAPE ARCHITECT	201/hr
CONSERVATION STRATEGIES SENIOR ASSOCIATE	201/hr
SENIOR ASSOCIATE	201-222/hr
ASSOCIATE ENVIRONMENTAL PLANNER	183/hr
ASSOCIATE ENGINEER	183/hr
CONSERVATION STRATEGIES ASSOCIATE	174/hr
ASSOCIATE LANDSCAPE ARCHITECT	178/hr
ASSOCIATE	178/hr
GIS PROFESSIONAL II	167/hr
LANDSCAPE ARCHITECT	155/hr
CONSERVATION STRATEGIES SCIENTIST	146/hr
GIS PROFESSIONAL	144/hr
ENVIRONMENTAL PLANNER I	144/hr
SCIENTIST	144/hr
SENIOR LANDSCAPE DESIGNER	131/hr
CONSERVATION STRATEGIES SENIOR TECHNICIAN	131/hr
GIS SENIOR TECHNICIAN	128/hr
ASSISTANT ENVIRONMENTAL PLANNER II	128/hr
SENIOR TECHNICIAN	128/hr
CONSERVATION STRATEGIES TECHNICIAN	119/hr
GIS TECHNICIAN	115/hr
TECHNICIAN	107/hr
FIELD TECHNICIAN	91-144/hr
PROJECT BIOLOGIST	81-103/hr
RESTORATION FOREMAN	91/hr
RESTORATION TECHNICIAN	70/hr
CLERICAL	78/hr
EXPERT WITNESS	Rate x 1.5

Subject to an annual rate adjustment. Necessary project expenses are billed at cost plus 10%.

1/14/2020