

Assistant Community Development Director
City of Lake Elsinore
130 South Main Street
Lake Elsinore, CA 92530

February 29, 2024

Dear Ms. Abraham,

On behalf of EGP Consulting, Inc. (EGP), we appreciate your request to submit a proposal for As-Needed Environmental On-Call Services for the City of Lake Elsinore (City). We understand that the City is requesting environmental support services for projects managed by the Planning Division, under the City's Community Development Department, and the City's Engineering Department. The projects that will require support from the EGP team will include the City's development projects and Capital Improvement Projects (CIP).

In response to your request, EGP has assembled a team of qualified California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) professionals to assist the City in these tasks. In addition to the environmental services that EGP will provide in-house, we have included four specialty firms to bolster our environmental team. These firms will serve as EGP's subcontractors and are identified below:

- SWCA Environmental Consultants (SWCA) – which will provide historic resources, archeological resources, and paleontological resources support services.
- Duke Cultural Resources Management (Duke CRM) – which will provide historic resources, archeological resources, and paleontological resources support services.
- ERP, Inc. (ERP) – which will provide air quality, greenhouse gas/climate change, noise and vibration, and energy support services.
- A/E Tech LLC (A/E Tech) – which will provide noise and vibration support services.

Enclosed are our statement of qualifications, key staff resumes, and key personnel rates to support a full range of environmental services.

Please feel free to contact me by email at angie@egpconsult.com or by telephone at 626-660-9230 if you have any questions regarding this proposal.

We thank you for your interest in working with EGP.

Warm regards,

Angie Kung



CONTRACT MANAGER | PRINCIPAL ENVIRONMENTAL PLANNER

SCOPE OF WORK

EGP understands that the City is requesting the following environmental support services on an as-needed basis in support of projects issued and managed by the City Planning and Engineering Departments. The anticipated scope of work under this on-call contract will include:

- Providing the City with environmental generalist support services consistent with the CEQA and/or NEPA and will include the oversight review and/or preparation of various technical studies and environmental documentation.
- Providing the City with coordination support related to the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP), including any specific MSHCP consistency documentation.
- Providing general resource agency coordination and tribal consultation in support of various projects.

Specific specialties and capabilities that are included in this contract include:

- CEQA/NEPA Generalist Services
 - CEQA Documentation
 - CEQA Categorical Exemptions
 - Initial Studies/(Mitigated) Negative Declarations
 - Environmental Impact Reports
 - NEPA Documentation
 - NEPA Categorical Exclusions
 - Environmental Assessments
 - Environmental Impact Studies
- Technical Studies
 - Air Quality and Greenhouse Gas Emissions Reports
 - Aesthetics/Visual Impact Assessment
 - Noise and Vibration Studies
 - Energy Studies
 - Historic Resources Studies
 - Archaeological Resource Studies
 - Paleontological Resource Studies
 - Community Impact Studies
 - Farmland Impact Studies
 - Relocation Impact Studies
 - Hazardous Waste and Materials Initial Site Assessments

- Water Quality Assessments
- Cumulative Impact Studies
- CEQA/NEPA Environmental Re-Validation or Supplemental CEQA/NEPA documentation
- Regulatory Permitting

ASSUMPTIONS

For the purposes of this proposal, EGP is assuming the performance period of 12 months for this on-call contract beginning April 2024. Should the City should choose to renew the on-call contract beyond the 12-month performance period, EGP will submit an updated scope of work and staff rates for the City's review and approval.

In the event there are existing or future projects where EGP's role or EGP's subcontractors may conflict with EGP's oversight role for the City, EGP will inform the contract manager and the determination of EGP's role for the given project will be decided by City staff on a case-by-case basis.

QUALIFICATIONS

A list of representative projects where EGP has demonstrated a range of technical services relevant to the scope of services is included in Attachment A. Resumes for our key qualified technical staff are included in Attachment B.

KEY STAFF RATES

At the City's request, EGP has provided rates for key staff identified for this contract, and is included in Attachment C.

Attachment A – Representative Projects

City of Lake Elsinore, La Strada Extension Project Feasibility Study, Lake Elsinore, CA. The City of Lake Elsinore is proposing to extend La Strada in City of Lake Elsinore, California, to further improve connectivity within the City of Lake Elsinore. EGP is leading the Environmental Constraints Memorandum for the proposed project.

City of Lake Elsinore, I-15/SR-74 Interchange Improvement Project PA/ED, Lake Elsinore, CA. The City of Lake Elsinore, in cooperation with Caltrans, is proposing to improve the I-15/SR-74 interchange located in the City of Lake Elsinore, California, to reduce traffic congestion, improve operations, and comply with current Caltrans and local agency design standards. Caltrans is the Lead Agency under CEQA and NEPA, as assigned by FHWA. EGP staff led the preparation of the Initial Study/Environmental Assessment (IS/EA), and selected technical studies, including the Natural Environment Study Minimal Impact (NESMI) Study, Jurisdictional Delineation (JD) Report, Visual Impact Assessment (VIA), and Initial Site Assessment (ISA) for the proposed project. The EGP Team also led the preparation of the Historic Property Survey Report (HPSR), Archaeological Survey Report (ASR), and Paleontological Identification Report/Paleontological Evaluation Report (PIR/PER) for the proposed project.

City of Lake Elsinore, Evergreen Commercial Development Project, Lake Elsinore, CA. Chronicle Heritage (formerly PaleoWest) conducted a Phase I cultural resource assessment of the Evergreen Commercial Development Project in compliance with CEQA. The Project proposes the development of six commercial structures on an approximately 8.9-acre property. The purpose of the cultural resource investigation was to determine the potential for the project to impact historic properties under CEQA. This investigation included a cultural resource literature and records search of the CHRIS database, a review of the Sacred Lands File by the NAHC, archival research, Native American outreach efforts, a pedestrian survey of the project area, and report preparation.

San Bernardino County Transportation Agency (SBCTA), I-215 University Parkway Interchange Improvement Project (PA/ED), San Bernardino, CA. SBCTA, in cooperation with the Caltrans and the City of San Bernardino, proposes to improve the I-215/University Parkway Interchange in the City of San Bernardino, California. Caltrans is the Lead Agency under CEQA and NEPA. EGP staff led the preparation of the Initial Study/Categorical Exclusion (IS/CE), and selected technical studies, including the NESMI, JD Report, VIA, and ISA for the proposed project. The EGP Team also led the preparation of the HPSR, ASR, and PIR/PER for the proposed project. The Final IS/CE was approved August 2020.

San Bernardino County Transportation Agency (SBCTA), I-10 Eastbound Truck Climbing Lanes (PA/ED and PS&E), Cities of Yucaipa and Riverside, CA. SBCTA in cooperation with Caltrans, proposes to extend the eastbound truck climbing lane (TCL) on I-10 from its current terminus just west of the 16th Street Overcrossing Bridge in the City of Yucaipa to just east of the County Line Road Undercrossing Bridge at the San Bernardino County and Riverside County line. EGP staff led the preparation of the Initial Study/Environmental Assessment (IS/EA), and selected technical studies, including the NESMI, JD Report, VIA, and ISA for the proposed project. The EGP Team also led the preparation of the HPSR, ASR, and PIR/PER for the proposed project. The Final IS/EA was approved in November 2020. The CEQA/NEPA Re-Validation was approved by Caltrans in May 2022.

Riverside County Transportation Commission (RCTC), I-15 ELPSE PA/ED, Riverside County, CA. Internal RCTC in cooperation with Caltrans is proposing to construct new lanes along I-15 in Riverside County, California. The proposed project will construct two tolled express lanes in both the northbound and southbound directions within the median of I-15 from SR-74 (Central Avenue) in the City of Lake Elsinore, through the unincorporated Riverside County community of Temescal Valley, to El Cerrito Road in the City of Corona for a distance of approximately 15.8 miles. EGP staff led selected technical studies, including the JD Report, Water Quality Assessment Report (WQAR), and ISA for the proposed project.

City of Yucaipa, I-10/Wildwood Canyon Road Interchange Project PSR, Yucaipa, CA. The City of Yucaipa, in cooperation with Caltrans, proposes to improve access to the local area and City with the planning of a new interchange on I-10 at Wildwood Canyon Road. The project includes analyzing how to accommodate or relocate the California Highway Patrol and Wildwood Safety Roadside Rest Area facilities and how to integrate the I-10 Eastbound Truck Climbing Lane Project. EGP led the preparation of the Preliminary Environmental Assessment Report (PEAR) and prepared the biological resources memorandum, and ISA I support of the PEAR. EGP prepared the archeological and paleontological resource memorandums in support of the PEAR. The PEAR was approved in August 2020.

City of Fontana, Sierra Avenue Widening Project, Fontana, CA. The City of Fontana proposes to widen Sierra Avenue between Foothill Boulevard and Baseline Avenue, in the City of Fontana, California. Sierra Avenue is considered a key north-south arterial within the city with interchange access to I-15 and I-210 to the north, and I-10 to the south. EGP staff led the preparation of the Initial Study with Negative Declaration (IS/ND), and selected technical studies, including the water quality study, biological resources and wetland delineation studies, and ISA for the proposed project. The EGP Team also led the preparation of the cultural and paleontological resources studies for the proposed project. The Final IS/ND was approved by the City of Fontana in February 2020.

San Bernardino County Transportation Authority (SBCTA), Redlands Passenger Rail Project (RPRP), San Bernardino and Redlands, CA. RPRP implements the combined rail services on the Redlands Subdivision from the Santa Fe Depot to the current end of the rail at the University of Redlands. RPRP will extend the reach of the area's passenger rail options from Los Angeles east to San Bernardino and ultimately to Redlands. EGP staff conducted biological surveys, regulatory permitting, mitigation acquisition and required reporting. EGP staff also acquired CWA Sections 401 and 404 and CDFW Section 1600 permits for geotechnical drilling and the overall project.

City of Beaumont, Beaumont Summit Station Project, City of Beaumont, CA. Chronicle Heritage conducted a Phase I cultural resource assessment of the Beaumont Summit Station Project in compliance with CEQA and Section 106 of the NHPA. The City of Beaumont is proposing a General Plan Amendment, Specific Plan Amendment, Tentative Parcel Map, Plot Plan Approval, and a Development Agreement for approximately 191 acres in Beaumont, Riverside County, California. The purpose of the cultural resource investigation was to determine the potential for the Project to impact historic properties under CEQA and Section 106 of the NHPA.

Attachment B – Key Staff Resumes

EGP Resumes



Angie Kung

Principal Environmental Planner

EDUCATION

**Bachelor of Arts, Biological Sciences (Biological- Anthropology)
University of CA San Diego, 2002**

INDUSTRY TENURE

22 years

PROFESSIONAL AFFILIATIONS

Women's Transportation Seminar Orange County, 2012-Present



RECOGNITION

2021 ENR Top Young Professional

With 22 years of experience in the industry, Angie has led multi-disciplinary technical teams in the preparation of CEQA/NEPA documentation for key transportation projects throughout California. Angie has developed solid working relationships with oversight agencies, such as FHWA, Caltrans, and California High Speed Rail Authority. Specifically, Angie has established strong working relationships with environmental staff at Caltrans District 8 through her recent work on the I-215/University Parkway Interchange Project for SBCTA and the I-15/SR-74 Interchange Improvement Project with the City of Lake Elsinore.

PROJECT EXPERIENCE

City of Lake Elsinore, La Strada Extension Project Feasibility Study, Lake Elsinore, CA. Environmental Task Manager. The City of Lake Elsinore is proposing to extend La Strada in City of Lake Elsinore, California, to further improve connectivity within the City of Lake Elsinore. Angie is overseeing the Environmental Constraints Memo for the proposed project.

San Bernardino County Transportation Agency (SBCTA), I-215 University Parkway Interchange Improvement Project (PA&ED), San Bernardino, CA. Environmental Task Manager. SBCTA, in cooperation with Caltrans and the City of San Bernardino, proposes to improve the I-215/University Parkway Interchange in the City of San Bernardino, California. Caltrans is the Lead Agency under CEQA and NEPA. As the Environmental Task Manager, Angie led the preparation of an Initial Study/Categorical Exclusion (IS/CE) and the supporting technical studies for the proposed project. The circulation of the Draft IS occurred between July 12, 2019, and August 12, 2019. The Final IS/CE was approved August 2020.

San Bernardino County Transportation Agency (SBCTA), I-10 Eastbound Truck Climbing Lanes (PA&ED and PS&E), Cities of Yucaipa and Riverside, CA. Environmental Task Manager. SBCTA in cooperation with Caltrans, proposes to extend the eastbound truck climbing lane (TCL) on I-10 from its current terminus just west of the 16th Street Overcrossing Bridge in the City of Yucaipa to just east of the County Line Road Undercrossing Bridge at the San Bernardino County and Riverside County line. As the Environmental Task Manager, Angie led the preparation of the Initial Study/Environmental Assessment (IS/EA), as well as supporting technical studies for the proposed project. The Draft IS/EA was circulated between July 3, 2020, and August 10, 2020. The Final IS/EA was approved in November 2020. The CEQA/NEPA Re-Validation was approved by Caltrans in May 2022.

City of Lake Elsinore, I-15/SR-74 Interchange Improvement Project PA&ED, Lake Elsinore, CA. Environmental Task Manager. The City of Lake Elsinore, in cooperation with Caltrans, is proposing to improve the I-15/SR-74 interchange located in the City of Lake Elsinore, California, to reduce traffic congestion, improve operations, and comply with current Caltrans and local agency design standards. Caltrans is the Lead Agency under CEQA and NEPA, as assigned by FHWA. Angie led the IS/EA and corresponding technical studies for the proposed project prior to public circulation of the Draft IS/EA.



Riverside County Transportation Commission (RCTC), I-15 ELPSE PA&ED, Riverside County, CA. Internal Environmental Task Manager. RCTC in cooperation with Caltrans is proposing to construct new lanes along I-15 in Riverside County, California. The proposed project will construct two tolled express lanes in both the northbound and southbound directions within the median of I-15 from SR-74 (Central Avenue) in the City of Lake Elsinore, through the unincorporated Riverside County community of Temescal Valley, to El Cerrito Road in the City of Corona for a distance of approximately 15.8 miles. As the Internal Environmental Task Manager for HDR Engineering, Inc., Angie was responsible for the day-to-day oversight of all HDR technical studies.

City of Yucaipa, I-10/Wildwood Canyon Road Interchange Project PSR, Yucaipa, CA. Quality Control Reviewer. The City of Yucaipa, in cooperation with Caltrans, proposes to improve access to the local area and City with the planning of a new interchange on I-10 at Wildwood Canyon Road. The project includes analyzing how to accommodate or relocate the California Highway Patrol and Wildwood Safety Roadside Rest Area facilities and how to integrate the I-10 Eastbound Truck Climbing Lane Project. As the Quality Control Reviewer, Angie served as quality control reviewer for the Preliminary Environmental Analysis Report (PEAR) and technical studies for the project. The PEAR was approved in August 2020.

City of Fontana, Sierra Avenue Widening Project, Fontana, CA. Environmental Task Manager. The City of Fontana proposes to widen Sierra Avenue between Foothill Boulevard and Baseline Avenue, in the City of Fontana, California. Sierra Avenue is considered a key north-south arterial within the city with interchange access to I-15 and I-210 to the north, and I-10 to the south. As Environmental Task Manager, Angie oversaw the preparation of the Initial Study with Negative Declaration (IS/ND) and corresponding technical studies for the proposed project. The Final IS/ND was approved by the City of Fontana in February 2020.

City of Laguna Beach, Laguna Canyon Road PSR/PDS, Laguna Beach, CA. Environmental Task Manager. The City of Laguna Beach, in cooperation with Caltrans District 12, is proposing to construct improvements along the State Route (SR) 133 corridor extending approximately 2.5 miles from Canyon Acres Drive (PM 0.96) to El Toro Road (PM 3.41) in Orange County. Angie managed and provided oversight of the preparation of the PEAR and associated technical support memorandums. The PEAR was approved by Caltrans District 12 in July 2022.

City of Rancho Santa Margarita, Rancho Santa Margarita Parkway Bridge Hinge Repair Project, Rancho Santa Margarita, CA. Environmental Task Manager. The City of Rancho Santa Margarita, in cooperation with Caltrans District 12, proposed bridge hinge repair improvements at the Rancho Santa Margarita Parkway Bridge. A Preliminary Environmental Study (PES) and CEQA CE/NEPA CE with supporting technical studies were prepared for the project, followed by environmental permitting. As Environmental Task Manager, Angie provided day-to-day management of the project and provided QC reviews for the PES and the CEQA CE/NEPA CE. The City of Rancho Santa Margarita signed a Notice of Exemption (NOE) on November 22, 2016. The NOE was subsequently posted at the Orange County Clerk's office on February 2, 2017. Caltrans issued a NEPA CE on December 28, 2016. The environmental permits were completed in October 2017.

City of Anaheim, La Palma Avenue Safe Route to School, Orange County, CA. Environmental Task Manager. Angie served as Environmental Task Manager for this project and provided quality assurance/quality control reviews for technical studies conducted in support of the CE. The City of Anaheim, in cooperation with Caltrans District 12, proposes to provide a safe route to school along the south side of La Palma Avenue from the East Street intersection to 500 feet west of East Street, in the northern portion of the city. EGP staff provided NEPA support for the City by working with Caltrans District 12 Local Assistance on the approval of a NEPA CE with supporting technical studies. The NEPA CE was approved by Caltrans in May 2015.

City of Riverside, Sidewalk Improvement Projects, Riverside, CA. Project Manager. Angie led the preparation of the NEPA CEs and the supporting technical studies on behalf of the City of Riverside for the Norte Vista, Bruce Avenue, and Wells/Arlanza Sidewalk Improvement Projects. All three sidewalk improvement projects were completed with Caltrans District 8 Environmental Local Assistance oversight. Caltrans approved the NEPA CEs for Bruce Avenue on June 16, 2016, and for Norte Vista and Wells/Arlanza on December 1, 2016.



Sarah Barrera

Lead Biologist | Senior Biologist

EDUCATION

MS, Conservation Biology, Victoria University and Macquarie University, 2004

BS, Animal Science, University of California, Davis, 2001

INDUSTRY TENURE

18 years

CERTIFICATIONS AND TRAINING

A Field Study of Birds, UCR Extension, 2006

Birds of Southern California Observation Skills, Sea & Sage Audubon Society, 2006

Introduction to CEQA, UCR Extension, 2006

Navigating the Regulatory Maze Workshop, AEP, 2006

Endangered Species Regulation and Protection, Jones and Stokes, 2006

Rapid Assessment of Vegetation, California Native Plant Society, 2006

Plant Identification for Coastal Southern California, Wetland Training Institute, 2007

Methods of Habitat Restoration, UCR Extension, 2008

Wetland Delineation, Wetland Training Institute, 2008

Federal Wetlands Policy, Wetland Training Institute, 2008

Fairy Shrimp of California Identification, Mary Belk, 2010

Yellow-billed cuckoo survey techniques and field training class, 2014

Southwestern Willow Flycatcher Survey Training Workshop, Southern Sierra Research Station, 2014

Yellow-billed Cuckoo Survey Experience, Murrelet Halterman, 2017.

Section 10A Permit for Yellow-Billed Cuckoo

MOU for Mohave Ground Squirrel



Sarah has 18 years of experience in all areas of biological resources consulting, including construction monitoring and conducting general biological assessments, sensitive plant and wildlife species surveys, jurisdictional delineations, permitting, and implementing mitigation and monitoring plans throughout southern California. She has extensive experience preparing applications for and implementing Section 1602 Streambed Alteration Agreements, Clean Water Act (CWA) Section 401 Certifications and 404 Nationwide Permits, Regional Water Quality Control Board Waste Discharge Requirements and Endangered Species Act Take Permits. She has worked with various municipal, private and federal clients as well as regulatory agencies to clearly identify potential project impacts on biological resources, develop appropriate avoidance and minimization measures, and prepare and implement permit conditions including compliance monitoring and Habitat Mitigation and Management Plans.

She has expertise working on complex projects throughout Riverside, San Bernardino, Orange, and Los Angeles Counties. She has expertise in the Western Riverside County MSHCP and regularly conducts general biological assessments and wetland delineations as well as surveys for burrowing owl and narrow endemic plant species and criteria area plant species within western Riverside County.

PROJECT EXPERIENCE

City of Lake Elsinore, La Strada Extension Project Feasibility Study, Lake Elsinore, CA. Lead Biologist. The City of Lake Elsinore is proposing to extend La Strada in City of Lake Elsinore, California, to further improve connectivity within the City of Lake Elsinore. Sarah is providing the biological resources write-up in support of the Environmental Constraints Memo for the proposed project.

City of Lake Elsinore, I-15/SR-74 Interchange Improvement Project PA/ED, Lake Elsinore, CA. Lead Biologist. The City of Lake Elsinore, in cooperation with Caltrans, is proposing to improve the I-15/SR-74 interchange located in the City of Lake Elsinore, California, to reduce traffic congestion, improve operations, and comply with current Caltrans and local agency design standards. Caltrans is the Lead Agency under CEQA and NEPA, as assigned by FHWA. Sarah led the Natural Environment Study Minimal Impact (NESMI), and Aquatic Resources Delineation Report (ARDR), in support of the Initial Study/Environmental Assessment (IS/EA). Sarah also led coordination with Regional Conservation Authority (RCA) and prepared a Determination of Biologically Equivalent or Superior Preservation (DBESP) in support of the Draft IS/EA.



San Bernardino County Transportation Agency (SBCTA), I-215 University Parkway Interchange Improvement Project (PA/ED), San Bernardino, CA. Lead Biologist. SBCTA, in cooperation with Caltrans and the City of San Bernardino, proposes to improve the I-215/University Parkway Interchange in the City of San Bernardino, California. Caltrans is the Lead Agency under CEQA and NEPA. As the Lead Biologist, Sarah led the preparation of the NESMI and ARDR in support of the Initial Study/Categorical Exclusion (IS/CE). The Final IS/CE was approved August 2020.

San Bernardino County Transportation Agency (SBCTA), I-10 Eastbound Truck Climbing Lanes (PA/ED and PS&E), Cities of Yucaipa and Riverside, CA. Lead Biologist. SBCTA in cooperation with Caltrans, proposes to extend the eastbound truck climbing lane (TCL) on I-10 from its current terminus just west of the 16th Street Overcrossing Bridge in the City of Yucaipa to just east of the County Line Road Undercrossing Bridge at the San Bernardino County and Riverside County line. As the Lead Biologist, Sarah led the NESMI and JD Report in support of the IS/EA for the proposed project. The Final IS/EA was approved in November 2020. The CEQA/NEPA Re-Validation was approved by Caltrans in May 2022.

Riverside County Transportation Commission (RCTC), I-15 ELPSE PA/ED, Riverside County, CA. Jurisdictional Biologist. RCTC in cooperation with Caltrans is proposing to construct new lanes along I-15 in Riverside County, California. The proposed project will construct two tolled express lanes in both the northbound and southbound directions within the median of I-15 from SR-74 (Central Avenue) in the City of Lake Elsinore, through the unincorporated Riverside County community of Temescal Valley, to El Cerrito Road in the City of Corona for a distance of approximately 15.8 miles. Sarah led the Jurisdictional Delineation Report and supported in the coordination with RCA on behalf of the Project.

City of Yucaipa, I-10/Wildwood Canyon Road Interchange Project PSR, Yucaipa, CA. Lead Biologist. The City of Yucaipa, in cooperation with Caltrans, proposes to improve access to the local area and City with the planning of a new interchange on I-10 at Wildwood Canyon Road. As the Lead Biologist, Sarah led the preparation of the Biological Resources Technical Memorandum in support of the PEAR, which was approved in August 2020. Sarah also led the biological resources tasks during PA&ED, including general biological resources surveys, aquatic resources delineation, and focused surveys for burrowing owl, coastal California gnatcatcher, and rare plants. Following completion of these surveys, Sarah prepared the NESMI and ARDR, which were approved by Caltrans in 2023.

City of Riverside, Sidewalk Improvement Projects, Riverside, CA. Lead Biologist. Sarah prepared the NESMIs in support of three NEPA CEs on behalf of the City of Riverside for the Norte Vista, Bruce Avenue, and Wells/Arlanza Sidewalk Improvement Projects. All three sidewalk improvement projects were completed with Caltrans District 8 Environmental Local Assistance oversight. Caltrans approved the NEPA CEs for Bruce Avenue on June 16, 2016, and for Norte Vista and Wells/Arlanza on December 1, 2016.

Riverside County Transportation and Land Management Agency, Markham Street Improvement Project, Riverside County, CA. Riverside County Transportation and Land Management Agency (TLMA) is proposing improvements to Markham Street by extending the roadway between Roosevelt Street and Wood Road for approximately 1.3 miles in the community of Woodcrest in Riverside County, CA. The County is serving as the CEQA lead for the project. Sarah conducted general biological resources surveys, focused burrowing owl surveys, focused least Bell's vireo surveys and an aquatic resources delineation for the project. She also prepared a biological resources report and DBESP and coordinated with regulatory agencies to attain approval of proposed mitigation for anticipated project impacts to aquatic resources.

SR-91 Corridor Improvement Project (CIP), RCTC, Riverside County, CA. Sarah served as biological compliance oversight for this design-build project located along SR-91 in the City of Corona and Riverside County. Sarah reviewed all regulatory permits (CWA Sections 401 and 404, CDFW Section 1600, and USFWS Biological Opinion) to identify compliance measures. The SR-91 CIP involves preliminary engineering for preparation of a Caltrans Project Report and EIR/EIS for improvement of the existing SR-91 (between SR-91/SR-241 Interchange and Pierce Street) and the I- 15 (between the I-15/Cajalco Road Interchange and the I-15/Hidden Valley Parkway Interchange). The Final EIR/EIS was approved in August 2012, the NOD filed November 16, 2012, and FHWA issued a Record of Decision November 2012.



Natalie Brim

Senior Environmental Planner

EDUCATION

**B.S., Earth Science, California Polytechnic State University
San Luis Obispo, 2014**

INDUSTRY TENURE

8 years



Natalie has eight years of professional experience in environmental planning. As a Senior Environmental Planner, Natalie's experience includes the preparation and day to day oversight of environmental documentation pursuant to CEQA and NEPA. In addition to her responsibilities as a CEQA and NEPA generalist, she also serves as the technical lead for Visual Impact Assessments (VIA), Water Quality Assessment Reports (WQAR), and Stormwater Pollution Prevention Plans (SWPPP).

PROJECT EXPERIENCE

City of Lake Elsinore, I-15/SR-74 Interchange Improvement Project PA&ED, Lake Elsinore, CA. Deputy Environmental Task Manager. The City of Lake Elsinore, in cooperation with Caltrans, is proposing to improve the I-15/SR-74 interchange located in the City of Lake Elsinore, California, to reduce traffic congestion, improve operations, and comply with current Caltrans and local agency design standards. Caltrans is the Lead Agency under CEQA and NEPA, as assigned by FHWA. Natalie served as Visual Lead for the preparation of the VIA. In addition, Natalie provided day-to-day support on the oversight of the IS/EA and corresponding technical studies for the proposed project prior to public circulation of the Draft IS/EA.

SBCTA, I-215 University Parkway Interchange Improvement Project (PA&ED), San Bernardino, CA. SBCTA, in cooperation with Caltrans and the City of San Bernardino, proposes to improve the I-215/University Parkway Interchange in the City of San Bernardino, California. Caltrans is the Lead Agency under CEQA and NEPA. Natalie served as the Visual Lead for the preparation of the Visual Impact Assessment (VIA) and was the primary author for the Water Quality Technical Memorandum (WQTM). In addition, as the Deputy Environmental Task Manager, Natalie provided day-to-day oversight support in the preparation of the Initial Study/Categorical Exclusion (IS/CE) and supporting technical studies for the proposed project. The circulation of the Draft IS occurred between July 12, 2019, and August 12, 2019. The Final IS/CE was approved August 2020.

I-15/SR-74 Interchange Improvement Project PA&ED, City of Lake Elsinore, Lake Elsinore, CA. The City of Lake Elsinore, in cooperation with Caltrans, is proposing to improve the I-15/SR-74 interchange located in the City of Lake Elsinore, California, to reduce traffic congestion, improve operations, and comply with current Caltrans and local agency design standards. Caltrans is the Lead Agency under CEQA and NEPA, as assigned by FHWA.

San Bernardino County Transportation Agency (SBCTA), I-10 Eastbound Truck Climbing Lanes (PA&ED and PS&E), Cities of Yucaipa and Riverside, CA. Deputy Environmental Task Manager. SBCTA in cooperation with Caltrans, proposes to extend the eastbound truck climbing lane (TCL) on I-10 from its current terminus just west of the 16th Street Overcrossing Bridge in the City of Yucaipa to just east of the County Line Road Undercrossing Bridge at the San Bernardino County and Riverside County line. Natalie served as the Visual Lead for the preparation of the VIA. In addition, as the Deputy Environmental Task Manager, Natalie provided day-to-day oversight support in the preparation of the Initial Study/Environmental Assessment (IS/EA), as well as supporting technical studies for the proposed project. The Draft IS/EA was circulated between July 3, 2020 and August 10, 2020. The Final IS/EA was approved in November 2020. The CEQA/NEPA Re-Validation was approved by Caltrans in May 2022.

City of Yucaipa, I-10/Wildwood Canyon Road Interchange Project PSR, Yucaipa, CA. Deputy Environmental Task Manager. The City of Yucaipa, in cooperation with Caltrans, proposes to improve access to the local area and City with the planning of a new interchange on I-10 at Wildwood Canyon Road. The project includes analyzing how to accommodate or relocate the California Highway Patrol and Wildwood Safety Roadside Rest Area facilities and how to



integrate the I-10 Eastbound Truck Climbing Lane Project. Natalie served as the primary author for the VIA and a co-author for the Growth Study for the proposed Project. In addition, as the Deputy Environmental Task Manager, Natalie provided day-to-day oversight support on the Preliminary Environmental Analysis Report (PEAR) and technical studies for the project. The PEAR was approved in August 2020.

City of Fontana, Sierra Avenue Widening Project, Fontana, CA. Deputy Environmental Task Manager. The City of Fontana proposes to widen Sierra Avenue between Foothill Boulevard and Baseline Avenue, in the City of Fontana, California. Sierra Avenue is considered a key north-south arterial within the city with interchange access to I-15 and I-210 to the north, and I-10 to the south. As the Deputy Environmental Task Manager, Natalie provided day-to-day oversight support on the technical studies for the proposed project and was the primary author of the Initial Study with Negative Declaration (IS/ND). The Final IS/ND was approved by the City of Fontana in February 2020.

City of Long Beach, Shoemaker Bridge Replacement Project (PA&ED), City of Long Beach, CA. Deputy Environmental Task Manager. The City of Long Beach, in cooperation with Caltrans proposes the replacement of the Shoemaker Bridge. The Project is an Early Action Project of the I-710 Corridor Project and is located at the southern end of the SR-710 and is bisected by the Los Angeles River. The existing Shoemaker Bridge will be replaced with a new bridge located just south of the existing bridge. The project will also provide improvements to associated roadway connectors to downtown Long Beach and along West Shoreline Drive from SR-710. Natalie served as the Visual Lead of the VIA and a co-author of the Environmental Impact Report/Environmental Assessment (EIR/EA). In addition, as the Deputy Environmental Task Lead, Natalie provided day-to-day oversight support for the preparation of the EIR/EA. The EIR was certified by the City of Long Beach on April 21, 2020. The FONSI was signed on June 30, 2020.

Los Angeles County Metropolitan Agency (LA Metro), I-605 Corridor Improvement Project (PA&ED), Los Angeles County, CA. Visual Co-Lead. LA Metro, in cooperation with the Gateway Cities Council of Governments (GCCOG), San Gabriel Valley Council of Governments (SGVCOG), Caltrans, and the County of Los Angeles proposes improvements along I-605 from Slauson Avenue to I-10. Natalie was a co-author of the VIA prepared in support of the Environmental Impact Report/Environmental Impact Statement (EIR/EIS).

Los Angeles County Metropolitan Agency (LA Metro), SR-60/7th Avenue Interchange Project, Los Angeles County, CA. Deputy Environmental Task Manager. LA Metro, in cooperation with Caltrans, proposes to reconstruct the westbound SR-60 on- and off-ramps at the 7th Avenue interchange to improve traffic operation. Natalie was the co-author of the Water Quality Technical Memorandum (WQTM) for the project. In addition, as Deputy Environmental Task Manager, Natalie provided day-to-day oversight support for the preparation of the CEQA CE/NEPA CE and supporting technical studies.

City of Laguna Beach, Laguna Canyon Road PSR/PDS, Laguna Beach, CA. Deputy Environmental Task Manager. The City of Laguna Beach, in cooperation with Caltrans District 12, is proposing to construct improvements along the State Route (SR) 133 corridor extending approximately 2.5 miles from Canyon Acres Drive (PM 0.96) to El Toro Road (PM 3.41) in Orange County. Natalie served as co-author of the PEAR and provided day-to-day oversight of the technical support memorandums. The PEAR was approved by Caltrans District 12 in July 2022.

San Joaquin Regional Rail Commission (SJRRRC), Stockton Diamond Grade Separation Project (PA&ED and PS&E), City of Stockton, CA. Deputy Environmental Task Manager. SJRRRC, the CEQA lead agency, in coordination with California High Speed Rail Authority (CHSRA), the NEPA lead agency, will replace the existing at-grade intersection of the BNSF Stockton Subdivision and UP Fresno Subdivision with a grade-separated structure (flyover bridge) that would elevate the UP main tracks over the BNSF main tracks, enabling through trains proceeding on the UP main tracks to travel unimpeded through the crossing, avoiding any conflict with trains on the BNSF main tracks (and vice versa). The grade separation would help improve the operational performance for SJRRRC and the San Joaquin Joint Powers Authority (SJJPA) as they provide service between the Central Valley, Sacramento, and San Francisco Bay Area. Natalie served as the Deputy Environmental Task Lead for the EIR, which was adopted by SJRRRC on June 4, 2021, and the Environmental Assessment (EA) approved by California High Speed Rail Authority in July 2022. The project is currently in the PS&E phase.

SWCA Resumes



TIFFANY CLARK, PH.D., RPA

PRINCIPAL INVESTIGATOR, CULTURAL RESOURCES

Tiffany Clark has more than 26 years of experiences in cultural resource management in California. Her professional experience includes all phases of survey, excavation, laboratory analysis, report preparation, Native American consultation, and construction monitoring. She has supervised large cultural resources studies in central and southern California in support of public infrastructure, transportation, renewable energy, and private land development projects. Dr. Clark has extensive experience with regulatory compliance issues and has worked with numerous local, state, and federal agencies. She has prepared numerous technical reports and environmental documents for compliance with CEQA, the National Environmental Policy Act (NEPA), and Section 106 and 110 of the National Historic Preservation Act (NHPA).

YEARS OF EXPERIENCE

26

EXPERTISE

Archaeology
 Bioarchaeology
 Faunal Analysis

EDUCATION

PH.D., Anthropology, Arizona State University, Tempe, 2006
 M.A., Anthropology e: Bioarchaeology, Arizona State University, Tempe, 1997

B.A., Biology, Occidental College, Los Angeles, 1992

REGISTRATIONS / CERTIFICATIONS

Register Professional Archaeologists (ID#989197); 2011

PERMITS

Bureau of Land Management Permit, Principal Investigator, Statewide

MEMBERSHIPS

Society for American Archaeology
 Society for California Archaeology

SELECTED PROJECT EXPERIENCE (* denotes project experience prior to SWCA)

***City of Riverside Sidewalk Improvement Project; City of Riverside; Riverside, Riverside County, CA.** The City of Riverside, in conjunction with the Caltrans District 8, proposed sidewalk improvements in three residential areas within the City of Riverside. The Project was conducted in compliance with CEQA and Section 106 of the NHPA. Dr. Clark supervised cultural resource records searches and literature reviews; archival research; reconnaissance surveys; Native American consultation and coordination; coordination with local and federal agencies; and preparation of Area of Potential Effect Maps, Archaeological Survey Report, and Historic Properties Survey Report. *Role: Principal Investigator.*

***Cajalco and Seaton Warehouse and Park Project; T&B Planning; Riverside County, California.** The Cajalco and Seaton Warehouse Project is a 100-acre industrial and recreational project near the community of Mead Valley, Riverside County, California. As project manager, reviewed and prepared environmental documents, developed recommendations for resource eligibility, oversaw archaeological surveys and testing, tracked budgets and scope, and coordinated with Riverside County archaeologist and tribal representatives. *Role: Principal Investigator.*

***Oberon Solar Project; Clearway; Riverside County, California.** The Oberon Solar Project is a 2,600-acre, 250 megawatt solar generation facility near the community of Desert Center, Riverside County, California on BLM administered land subject to Section 106 and the Desert Renewables Energy Conservation Plan. Reviewed and prepared environmental documents, developed recommendations for resource eligibility, oversaw archaeological surveys, tracked budgets and scope, and coordinated with agency project managers and tribal representatives. *Role: Principal Investigator.*

***California Department of Transportation (Caltrans), On-Call Cultural Resources Services; Caltrans District 8; San Bernardino and Riverside Counties, CA.** Task orders completed as part of this on-call contract with Caltrans District 8 included a Phase I study for

the State Route 60 Truck Climbing and Descending Lane Project, Phase I and II studies for the Interstate 40 Median Regrade and U.S. 395 Construct Median Buffer and Widen Shoulder projects, and Phase III data recovery for the State Route 58 Realignment and the State Route 138 Realignment – Crowder Canyon projects. As part of these projects, All projects were conducted in compliance with CEQA and Section 106 of the NHPA. Dr. Clark supervised cultural resource records searches and literature reviews; archival research; pedestrian and reconnaissance surveys; testing and evaluation for National Register of Historic Places (NRHP) and California Register of Historical Resources (CRHR) eligibility; Native American consultation and coordination; coordination with local and federal agencies; and preparation of technical reports for Caltrans review and approval. *Role: Principal Investigator.*

***San Bernardino County Transportation Authority (SBCTA), Interstate 10 Eastbound Truck Climbing Lane Improvement Project, San Bernardino and Riverside Counties, CA.** SBCTA, in conjunction with Caltrans District 8, proposes to extend the eastbound truck climbing land on Interstate-10 for a distance of 3 miles in the City of Yucaipa and Calimesa in San Bernardino and Riverside counties, respectively. Dr.

Clark supervised the cultural resources studies that were being completed for the Project. These tasks included: records searches and literature reviews; archival research; a Phase I survey; Native American consultation and coordination; coordination with local and federal agencies; and preparation of Area of Potential Effect Map, Archaeological Survey Report, and Historic Properties Survey Report for compliance with CEQA and Section 106. *Role: Principal Investigator/Cultural Resources Technical Lead/ Project Manager.*

***Oak Valley Commerce Center; T&B Planning; Riverside County, California.** The Oak Valley Commerce Center Project is a commercial and industrial development in Calimesa, Riverside County, California. The project required compliance with CEQA and included the preparation of environmental documents, recommendations for resource eligibility, and archaeological surveys. *Role: Principal Investigator.*

***Dillon Road Bridge and Corridor Widening Project; Twentynine Palms Band of Mission Indians; City of Coachella, Riverside County, CA.** The Dillon Road Joint Powers Authority, in cooperation with Caltrans, the Bureau of Indian Affairs, and the Coachella Valley Association of Governments, proposed to replace the existing Dillon Road Bridge over the Whitewater Channel. The Project required compliance with CEQA, NEPA, and Section 106 of the NHPA. Dr. Clark was responsible for the providing quality assurance for all aspects of the cultural resource studies. *Role: Principal Investigator.*

***Sapphire Solar Project; EDF Renewables; Riverside County, California.** The Sapphire Solar Project is a 1,192-acre, 117 megawatt solar generation facility near the community of Desert Center, Riverside County, California. The project encompasses 1,082 acres of private land subject to CEQA and 110 acres on BLM administered land subject to Section 106 and the DRECP. Reviewed and prepared environmental documents, developed recommendations for resource eligibility, oversaw archaeological surveys, tracked budgets and scope, and coordinated with agency project managers and tribal representatives. *Role: Principal Investigator.*

***Fiscal Year 2022 9277 Acre Survey and 56 Sites Evaluation at Marine Corps Air Ground Combat Center, Twentynine Palms; Naval Facilities Engineering Systems Command, Southwest; Riverside County, California.** The project consisted of a survey of 9,277 acres and testing and evaluation of 56 archaeological sites on Marine Corps Air Ground Combat Center, Twentynine Palms for Section 110 of the NHPA compliance. Prepared and reviewed reports and other documents, developed recommendations for resource eligibility, oversaw archaeological surveys and testing, tracked budgets, managed schedule and scope, prepared contracts for tribal monitoring, ensured compliance with health and safety requirements, and coordinated with agency project managers and tribal representatives. *Role: Principal Investigator.*



NICK HEARTH, M.A., RPA

SENIOR ARCHAEOLOGIST

Nick Hearth’s responsibilities include overseeing archaeological, historical, and paleontological studies, providing lead agencies with technical expertise regarding Tribal Cultural Resource and AB 52 consultation, and ensuring the analysis and reporting meets or exceeds federal, state, and local standards. Nick is well versed in applying the CEQA, Section 106 of the NHPA, and NEPA on a variety of projects across many market sectors, including municipalities, county agencies, and state offices. While Nick has worked as an archaeologist in cultural resource management since 2002, he has worked exclusively in southern California since 2012. Besides meeting the Secretary of the Interior’s Professional Qualification Standards for Archaeology, he holds a statewide permit with the Bureau of Land Management as a Principal Investigator. Nick oversees and completes projects in all phases of archaeology: Phase I surveys, extended Phase I surveys, buried site testing, archaeological sensitivity assessments, Phase II testing and evaluations, Phase III data recovery, and Phase IV monitoring.

YEARS OF EXPERIENCE

22

EXPERTISE

- CEQA compliance
- Tribal consultation support
- Cultural resources management
- NHPA Section 106 compliance
- Archaeology
- Stone artifact analysis
- Geoarchaeology

EDUCATION

- M.A., Anthropology; University of California, Riverside; 2006
- B.A. cum laude, Anthropology; University of Massachusetts, Amherst; 2003

REGISTRATIONS / CERTIFICATIONS

- Registered Professional Archaeologist No. 989903

SELECTED PROJECT EXPERIENCE (* denotes project experience prior to SWCA)

Cultural Resources for the Dr. Rongxiang Xu Bioscience Innovation Center; LK Properties Groups; Riverside County, California. SWCA has been contracted to provide updated cultural and tribal scoping services for the project to support a mitigated negative declaration. The project requires a cultural resources assessment report to document the results of a records search, Native American Heritage Commission (NAHC) requests, tribal notifications of the project, tribal scoping support, updated recording and evaluation of archaeological sites, and a built environment survey, recording, and evaluation of two resources. Tribal concerns figure heavily in project approval as a traditional cultural property (TCP) exists within or near the project. The project and its position to the TCP require meetings with the goal of relationship-building with the tribe(s) to form a consensus regarding the project. *Role: Project Manager. Leading archaeologists and architectural historians to prepare a combined resource report. Supervising the cultural resource survey, reporting, and resource evaluation efforts. Providing support for the agency’s ongoing TCR efforts.*

Edison SoCal Cultural Resources Support; Southern California Edison Company; San Bernardino County, California. SWCA was retained to conduct cultural resources studies in support of a proposed transmission line project known as the Eldorado–Pisgah–Lugo Project (EPL project). The EPL project area consists of a 176-mile-long transmission line, associated access roads, and ancillary work areas. SWCA prepared technical studies in support of the proponent’s environmental assessment, which included archaeological, historic architectural, and paleontological resource assessments for the project. SWCA conducted agency coordination, authored a work plan and an ethnographic literature search document, conducted a Class III intensive pedestrian inventory, and prepared the inventory report. *Role: Project Manager. Responsible for overall technical quality and activities. Provided day-to-day*

oversight of the budget, control systems, schedule, work assignments, client communications, implementation of contracts, senior staff resource assignments, and quality assurance/quality control. Primary interface with the client.

East Valley Water District Resource Studies; Albert A. Webb Associates; San Bernardino County, California. SWCA provided biological, cultural, and paleontological resource surveys and technical reporting for the East Valley Water District Canal 3 reservoir improvements project. The project includes the proposed installation of a new booster pump station, two storage reservoirs, pipeline connections, and demolition of an existing booster pump station on a 3.8-acre parcel of land. Deliverables included a biological technical report, a paleontological technical report, and a cultural resources technical report. SWCA provided AB 52 consultation to support environmental constraints analyses, CEQA compliance, and permit acquisition. *Role: Senior Archaeologist. Led archaeologists and architectural historians to prepare a combined resource report. Supervised the cultural resource survey, reporting, and resource evaluation efforts. Providing support for the agency’s ongoing tribal cultural resource efforts.*

***Tertiary Treatment Systems Project; City of San Bernardino; San Bernardino County, California.** The City of San Bernardino proposes to construct a new tertiary treatment system and modify the existing tertiary reservoir and booster pumps at the existing water reclamation plant (WRP). The project will be partially funded by the State Revolving Fund loan program administered by the State Water Resources Control Board and is subject to CEQA as well as Section 106 of the NHPA. The project necessitated a cultural resources identification report consisting of background and archival research, a records search, an NAHC Sacred Lands File search, tribal and historical society consultation, an archaeological and built environment field survey, and a CRHR and NRHP evaluation of the 1958-built WRP. The WRP was recommended ineligible for both registers due to lack of integrity to its period of significance. A finding of no historic properties affected was determined for the undertaking with State Historic Preservation Office concurrence. *Role: Principal Investigator. Responsibilities include being the lead for the report, managing the cross-trained archaeologist/architectural history technician conducting the survey, research, and conducting subsurface sensitivity analysis.*

***San Bernardino County Transit Authority (SBCTA) Environmental On-Call Project; VCS Environmental, Inc.; San Bernardino County, California.** The SR-210/Pepper Avenue Interchange Project, enhanced freeway access for the City of Rialto and a portion of unincorporated San Bernardino County. Archaeological monitoring focused on grading of undisturbed disturbed soils with the potential to discover archaeological deposits and human remains due sensitivity of the area. *Roles: Principal Investigator, Field Director. Coordinated osteological, archaeological, and Native American monitoring efforts and wrote the monitoring report for SBCTA and Caltrans District 8. Also edited site records for the isolate discovered during monitoring and coordinated its reburial after construction.*

Starlight Solar Project; Empire II, LLC; San Diego County, California. SWCA is preparing an EIR assessing the environmental impacts of the construction and operation of a solar energy storage project in unincorporated San Diego County. The EIR will be supported by several technical studies prepared by SWCA, including biology, jurisdictional waters, cultural resources, wildfire, noise, air quality, and visual resources (including glare and visual simulations). SWCA assisted in the project design by identifying constraints and working with the design team to limit environmental impacts. *Role: Senior Archaeologist, Project Manager. Supervised the field survey and primary author of the combined cultural study report. Provided technical expertise to the County, applicant, and consulting tribes.*

***Reid-Baldwin Adobe Project; Kelly Sutherlin McLeod Architecture Inc.; Los Angeles County, California.** The project undertook extensive remodeling efforts to return the Reid-Baldwin Adobe to its appearance during the period of occupation by Elias Jackson "Lucky" Baldwin. *Roles: Principal Investigator, Field Director. Planned and led archaeological excavations to explore for remnant buried architectural features. Additionally, conducted background research and was primary author of the report, conducted field monitoring, and supervised all field monitoring efforts. Coordinated with the client, the County of L.A. Parks Department, consulting Native American Tribes, and the general contractor. Wrote the Phase II testing plan for the excavation with the resource evaluation.*



ROBBIE THOMAS, M.A., RPA
 PROJECT MANAGER, CULTURAL RESOURCES

Ms. Thomas has more than 16 years of experience in the cultural resource management field in southern California. She is qualified under the Secretary of Interior’s Standards for Archaeology and is certified by the Register of Professional Archaeologists. She also has specialized training in CEQA, NEPA, Section 106 of the NHPA, and other cultural resource laws and regulations. Ms. Thomas has worked on numerous projects in Riverside County and numerous other counties in California. Her responsibilities have included coordination and management of cultural resource inventories, archaeological surveys, archaeological resource testing and data recovery efforts, archaeological construction monitoring, Native American outreach, oversight of paleontological resource and Native American construction monitoring, and preparation of various cultural resource documents, including cultural resource assessments and management and treatment plans. Ms. Thomas has managed and coordinated various undertakings in residential and commercial development, transportation, renewable energy, water infrastructure and storage, and gas and electric transmission, ensuring their compliance with CEQA and other federal and state laws.

YEARS OF EXPERIENCE

17

EXPERTISE

CEQA

NEPA

ARCHAEOLOGY

EDUCATION

M.A. Anthropology; California State University, Long Beach; 2009

B.A. cum laude, Anthropology, University of Oklahoma, 2005

SELECTED PROJECT EXPERIENCE (* denotes project experience prior to SWCA)

***City of Beaumont General Plan Update Project, Albert A. Web Associates, Riverside County, California.** Cultural resource inventory and sensitivity analysis in support of the proposed General Plan update for the City of Beaumont. Work efforts included, cultural resource records search, archaeological sensitivity analysis, Native American coordination efforts, Assembly Bill (AB) 52 assistance, and drafting a cultural resource technical report.. *Role: Project Manager/Archaeologist.*

***Lycan Solar Project, EDF Renewables, Riverside County, California.** The proposed project is a 7,291-acre solar power project (5,948 acres on BLM-administered lands) near Desert Center, California. Responsibilities included coordination with BLM, Native American

consultation, completion of a Class I inventory, ethnographic literature overview, work plan and research design, Class III surveys, resource documentation, and preparation of Class III report. *Role: Project Manager/Senior Archaeologist.*

***I-10 and Wildwood Canyon Interchange Project, HDR, Inc, Riverside County, California.** Caltrans, in cooperation with the City of Yucaipa and San Bernardino County Transportation Authority, proposed to establish a new interchange connection on I-1) at Wildwood Canyon Road, between the Live Oak Canyon Road/Oak Glen Road Interchange (PM R36.8) and the County Line Road Interchange (PM R39.2), in Yucaipa, California. Responsibilities included conducting and coordinating archival and literature searches and field surveys; preparation of preliminary constraints analysis for use in preparation of the Preliminary Environmental Analysis Report (PEAR) which lead to preparation of an Historic Properties Survey Report, an Archaeological Survey Report, and an Historic Resources Evaluation Report; oversight and guidance for preparation of the Area of Potential Effects (APE) Map; Native American consultation assistance; and coordination with Caltrans District 8. *Role: Project Manager/ Senior Archaeologist.*

***Perris Valley Storm Drain Trail – Phase 2 Project, Perris, Albert A. Webb Associates, Riverside County, California.** The City of Perris, in cooperation with the Riverside County Flood Control District and Caltrans, proposed to replace 3.1 miles of existing decomposed granite and dirt maintenance road along the Perris Valley Storm Drain Channel, from Nuevo Road to the South Perris Metrolink Station at Case Road, with a 10-foot wide asphalt pathway for bicycling and a five-foot wide decomposed granite pathway for pedestrian use. The purpose of the cultural resource investigation was to determine the potential for the Project to impact historic properties under CEQA and Section 106 (Caltrans Local Assistance). Responsible for supervision and coordination of field investigation, archival research, report preparation, client coordination, Native American coordination, and budget and schedule tracking. *Role: Project Manager/ Senior Archaeologist.*

***San Jacinto River Stage 3 Master Drainage Plan Project, Perris, Albert A. Webb Associates, Riverside County, California.** The Riverside County Flood Control and Water Conservation District proposed implementation of a comprehensive planning document, the San Jacinto River Stage 3 Master Drainage Plan, that considers the engineering, environmental, and economic aspects of the lower San Jacinto

River. Supervised the cultural resource and paleontological resource assessments for the Project in compliance with the CEQA as well as Section 106 of the NHPA. Responsible for supervision and coordination of field investigation, archival research, report preparation, client coordination, Native American coordination, paleontological resource assessment oversight, and budget and schedule tracking. *Role: Project Manager/ Senior Archaeologist.*

***Beaumont Wastewater Treatment Plant Upgrade/Expansion and Brine Pipeline Project, Albert A. Webb Associates, Riverside County, California.** The Project involved upgrades and expansion of the current Wastewater Treatment Plant in accordance with its National Pollutant Discharge Elimination System Permit Renewal. Responsible for archival research, supervision and coordination of Phase I surveys, cultural resource documentation and evaluation, survey report preparation, Native American coordination, and budget and schedule tracking. *Role: Project Manager/Archaeologist.*

***Southern California Gas Company's Line 2000 P2 Remediation Project; Insignia; San Bernardino County, California.** Conducted a Class III cultural resource inventory in support of the Project in compliance with Section 106 of the NHPA. Responsible for coordination of APE definition, supervision of field investigation, archival research, report preparation, client, SoCal Gas, and BLM coordination, and budget and schedule tracking. *Role: Project Manager/ Senior Archaeologist.*

***Southern California Gas Company's Line 2000 Pipeline Integrity Validation Digs Project; Insignia; San Bernardino County, CA.** Conducted a Class III cultural resource inventory in support of the Project in compliance with Section 106 of the NHPA. Responsible for coordination of APE definition, supervision of field investigation, archival research, archaeological and tribal monitoring coordination, report preparation, client, SoCal Gas, and BLM coordination, and budget and schedule tracking. *Role: Project Manager/ Senior Archaeologist.*



MATHEW CARSON, M.S.

SENIOR PALEONTOLOGIST

Mr. Carson is SWCA’s Senior Paleontology Team Lead, principal investigator, and project manager, who maintains a comprehensive understanding of the CEQA as well as other federal, state, and local regulations pertaining to cultural and paleontological resources. He provides paleontological expertise on projects spanning transportation, energy, mining, public works, transmission lines, education, and development throughout California and Nevada. Additionally, Mr. Carson exceeds the qualifications of a Qualified Paleontologist according to the guidelines of the Society of Vertebrate Paleontology and is listed as a Principal Investigator on SWCA’s Bureau of Land Management (BLM) paleontological resources use permits. He has authored numerous paleontological assessments, as well as sections of CEQA environmental documents. He has successfully managed cultural and paleontological projects from their initial planning to their final construction.

YEARS OF EXPERIENCE

9

EXPERTISE

CEQA/NEPA Compliance for Cultural and Paleontological Resources

Paleontological Technical Studies, Mitigation Plans, Construction Monitoring, Salvages, Final Reports

EDUCATION

M.S., Geology; Bowling Green State University, Ohio; 2013

B.S., Geology (Paleobiology); Bowling Green State University, Ohio; 2009

PERMITS

U.S. Bureau of Land Management California Paleontological Resource Use Permit (CA-22-08P), Principal Investigator

U.S. Bureau of Land Management Nevada Paleontological Resources Use Permit (N-92678); Nevada Antiquities Permit, Principal Investigator

SELECTED PROJECT EXPERIENCE (* denotes project experience prior to SWCA)

City of Chino Hills Technical Studies and EIR for General Plan Update; EcoTierra Consulting, Inc.; Chino Hills, San Bernardino County, California. The City of Chino Hills proposed to update their Housing and Land Use elements of their General Plan. Tasks included preparation of a program and project-level paleontological resources technical report and Supplemental Environmental Impact Report (EIR). *Role: Senior Paleontologist and Task Lead.*

20330 Temescal Canyon Road Mixed-Use Development Project; Confidential Client; Riverside County, California. The project consisted of a new mixed-use development consisting of a two-story office building, car wash, drive-through restaurant, and site improvements. Tasks included preparation of a paleontological resources assessment report. *Role: Senior Paleontologist.*

Eastern Municipal Water District (EMWD) Judson Transmission Pipeline Project; Woodard & Curran; City of Moreno Valley, Riverside County, California. EMWD proposed to construct an 18-inch-diameter transmission pipeline in Moreno Valley, California. Tasks included preparation of a paleontological resources assessment report. *Role: Senior Paleontologist.*

777 North Front Street Mixed-Use Development Project; Private Developer; Burbank, Los Angeles County, California. A parcel located at 777 North Front Street in Burbank, California was developed to contain a mixed-use building with a parking garage. Mitigation Measures cited in the project’s CEQA environmental document required paleontological monitoring to reduce potential impacts to less-than-significant levels. Mr. Carson oversaw paleontological monitoring and prepared the draft paleontological monitoring report. *Role:*

Senior Paleontologist.

Vikings Solar Project Environmental Services; ZGlobal; Imperial County, California. SWCA prepared biological resources, cultural resources, aquatic resources, air quality/GHG emissions, traffic, agricultural land conversion, and paleontological resources studies on an accelerated schedule for a 100 MW solar and storage project in Imperial County. SWCA also provided the client with permitting strategy and CEQA support for the project as it moved through the permitting phase with Imperial County. *Role: Project Manager / Paleontology.*

Norumbega Drive Residence Project; City of Monrovia Planning Division; City of Monrovia, Los Angeles County, California. The project proposed to construct one single-family residence on the 1.295-acre lot. The single-family dwelling would be a 3,758-square-foot, two-story dwelling with a 1,348-square-foot four-car garage and would include patios and retaining walls. Mr. Carson prepared the paleontology section of the CEQA Appendix G Checklist of the Initial Study/Mitigated Negative Declaration for the project. *Role: Senior Paleontologist.*

Travertine Cultural Resources Update; Hofmann Land Development Co.; La Quinta, Riverside County, California. SWCA provided paleontological and cultural resources services for an amendment to the City of La Quinta's general plan to rezone an 877.5-acre area into a master planned resort community. The project is located on Bureau of Land Management and Bureau of Reclamation lands, as well as privately owned land. Mr. Carson prepared the paleontological resources assessment technical report required for CEQA and NEPA environmental documents. *Role: Project Manager / Paleontology.*

La Brea Tar Pits Master Plan EIR, Los Angeles County Natural History Museum; Los Angeles County, California. SWCA prepared an EIR to address the environmental impacts of significant improvements to this iconic site in central Los Angeles. The master plan includes the existing museum and Hancock Park and seeks to unify the critical research sites, buildings, exhibition space, and the park with an inspiring new identity. *Role: Lead Paleontologist/Task Lead. Prepared the paleontological resources technical report for the project and reviewed the paleontology section of the EIR.*

7th Street Body Shop Replacement Project; City of Los Angeles Department of Public Works, Bureau of Engineering (LADPW BOE); Los Angeles County, California. SWCA provided services under an on-call cultural resources contract. Tasks included preparation of a paleontological resources assessment report. *Role: Senior Paleontologist.*

Arroyo Seco Low Flow Diversion Project Cultural and Paleontological Support; LADPW BOE; Los Angeles County, California. SWCA provided services under an on-call cultural resources contract. Tasks included preparation and implementation of a cultural and paleontological resources mitigation and monitoring plan. *Role: Senior Paleontologist.*

Holy Cross Road Extension Project; Archdiocese of Los Angeles; Los Angeles County, California. Archdiocese of Los Angeles propose to expand their Holy Cross Cemetery onto two parcels in the Baldwin Hills area of unincorporated Los Angeles County. Tasks included preparation of a paleontological resources assessment report. *Role: Senior Paleontologist and Task Lead.*

Tapia Ranch Project; Private Developer and PlaceWorks; Los Angeles County, California. The proposed project would include 405-unit single-family residential lots, two public park lots, eight open space lots, one water tank lot, one water pump lot, 60 homeowners association basin lots, one park trails lot, nine flood-control district lots, 22 private and future street lots, and two private street and fire lane lots. Approximately 74 percent of the 1,165-acre On-Site/In-Tract part of the project site (861.4 acres) would remain in its current undeveloped natural condition. Mr. Carson conducted a paleontological resources assessment, which included a geologic map review, scientific literature review, museum records search at the Natural History Museum of Los Angeles County, and pedestrian reconnaissance survey. Mathew was the sole author of the paleontological study and led the pedestrian reconnaissance survey. *Role: Senior Paleontologist/Technical Lead.*



SARAH RIEBOLDT, PH.D.

PRINCIPAL INVESTIGATOR, PALEONTOLOGY

Dr. Rieboldt is a Lead Paleontologist at SWCA with 22 years of experience in the paleontology and geology fields. She has conducted paleontological and geological fieldwork across the state of California. She has worked as a geologist and paleontological consultant on many different projects, including carbon sequestration and astrobiology research programs funded by the United States Department of Energy and the National Aeronautics and Space Administration, respectively, as well as on projects for the State of California Department of Parks and Recreation, Caltrans, and various private developers in California.

SELECTED PROJECT EXPERIENCE (* denotes project experience prior to SWCA)

YEARS OF EXPERIENCE

22

EXPERTISE

Federal, state, and local laws, ordinances, regulations, and standards (LORS) regarding paleontological resources

Client/agency coordination

Fossil collection, salvage, identification, and curation

Paleontological mitigation reports

EDUCATION

Ph.D., Paleontology; University of California, Berkeley; 2005

B.A. magna cum laude, Biology, m: Geology; University of Colorado, Boulder; 1999

***Vail Dam Seismic and Hydrologic Remediation Project; Rancho California Water District; Riverside County, California.** This project involved the demolition of the existing arch dam and construction of a new gravity concrete dam downstream, with associated construction and modification of inlet/outlet facilities, pipelines, spillway, and access roads. The consultant prepared the environmental document and various technical studies for this project. The paleontological assessment involved a field survey of nearly 600 acres, fossil locality searches for the area surrounding the dam and Vail Lake, and a literature review of over 10 different geologic units from four different geologic maps of different scales covering the project area. Based on this background research, the paleontological assessment determined the potential for project development to impact paleontological resources and make the appropriate recommendations regarding mitigation. *Role: Principal Paleontologist. Oversaw preparation of the Paleontological Assessment and Paleontological Resources Impact Mitigation Program for this project, which is overseen by the Bureau of Reclamation and must comply with CEQA, NEPA, and various State and local regulations.*

***Interstate 15/State Route 91 Express Lanes Project; Riverside County Transportation Commission; Riverside County, California.** The Riverside County Transportation Commission (RCTC), in cooperation with Caltrans, as part of the State Route 91 Corridor Improvement Project (SR-91 CIP), proposed the Interstate 15 (I-15)/State Route 91 (SR-91) Express Lanes Connector (ELC) Project (project) to improve the existing I-15 and SR-91 interchange by adding an express lane connector flyover bridge, bridges over Temescal Wash, and associated improvements. The paleontological evaluation conducted for the SR-91 CIP determined there was a potential for its subsidiary projects to impact paleontological resources and made the appropriate recommendations for mitigation. *Role: Principal Paleontologist. During the PS&E for this project, prepared the PMP, and during the*

Construction phase, oversaw the paleontological monitoring program and prepared the PMR at the conclusion of monitoring. Through all stages of project development, coordinated with RCTC, Caltrans District 8, and Construction Management personnel as needed to provide paleontological monitoring staff at the appropriate times and prepare all deliverables according to Caltrans SER guidelines and the requests of Caltrans District 8.

***Legado Project; BLC Fleming, LLC/Glenn Lukos Associates, Inc.; Riverside County, California.** This project involved the development of up to 1,061 residential homes, freeway-oriented commercial uses, community and recreation centers, parks, and water quality basins on approximately 216 acres in Menifee. *Role: Principal Paleontologist. Prepared or oversaw preparation of all technical reports during planning stages for this project. At project initiation, prepared the Paleontological Resources Assessment, which is based on industry-standard background research and reviews of project plans and ground disturbance, and determined there was a potential for the project to impact paleontological resources. Subsequently, oversaw preparation of the recommended Paleontological Resources Impact Mitigation Program (PRIMP), a document that provides a summary of project area geology, paleontological potential, and regulations regarding paleontological resources; outlines the levels and methods for paleontological resource monitoring, recovery, and treatment; and establishes the roles, responsibilities, requirements, and procedures for construction and consultant personnel during construction. During construction, implemented the PRIMP, coordinated with the project proponent and construction contractor regarding schedules and project management, and oversaw the paleontological monitoring. At the conclusion of construction, prepared the paleontological monitoring report.*

***Pio Pico Energy Center Project; Sierra Research; San Diego County, California.** This project involved the construction of a power plant for three General Electric natural gas-fired combustion turbine generators in an unincorporated area on Otay Mesa in San Diego County. The California Energy Commission served as lead agency for compliance with CEQA, and the project involved oversight from and coordination with the California Public Utilities Commission and San Diego Gas and Electric Company. Development of this project included clearing and grading of the project area, construction of the power plant, and installation of the power plant as well as natural gas lines and electricity transmission lines, all within paleontologically sensitive sediments of the Late Oligocene (23.03–28.1 million years ago) Otay Formation. *Role: Senior Paleontologist. Prepared the Paleontological Resources Monitoring and Mitigation Plan, oversaw the paleontological monitoring program, and prepared the final paleontological monitoring report.*

***Tunnel to Ontario Airport Project; AECOM; Los Angeles County, California.** As proposed by the San Bernardino County Transportation Authority in cooperation with the Federal Transit Administration, the project involves multiple alternatives for transporting passengers from the Rancho Cucamonga Metrolink Rail Station to the Ontario International Airport via tunnel, rail, and vehicle options. *Role: Principal Paleontologist. Evaluating project impacts on paleontological resources in support of a combined EIR/EA or EIR/EIS in accordance with CEQA and NEPA. Throughout preparation of the first draft, participated in workshops regarding design changes, geologic conditions, and the type of environmental document necessary. Oversaw paleontological staff as they conducted the appropriate background research, including establishing the resource study area, requesting a fossil locality search through the Natural History Museum of Los Angeles County (NHMLAC), reviewing applicable scientific literature and maps, conducting a field survey, and reviewing project plans and information for the various alternatives.*

***California High-Speed Rail Project, Burbank to Los Angeles Project Section; STV, Inc.; Los Angeles County, California.** The California High-Speed Rail (HSR) Authority proposed the California HSR System is planned to connect the major metropolitan regions of the State, including San Francisco, Sacramento, Los Angeles, and San Diego. Given the scale of the HSR System, the project was divided into section for environmental analysis and review. The Burbank to Los Angeles Project Section involved above- and below-grade sections of track, multiple grade separations, connections at two major transit hubs (Los Angeles Union Station and Burbank Airport Station, and maintenance facilities. The consultant provided support for the EIR/EIS and supporting technical reports for this project section. *Role: Principal Paleontologist. Evaluated project impacts on paleontological resources in accordance with CEQA and NEPA regulations. Conducted the appropriate background research, including a fossil locality search through the Natural History Museum of Los Angeles County (NHMLAC), a literature review, a field survey, and a review of project plans and information. Also coordinated with the preparers of the geotechnical report to draft the Geology and Soils section of the Environmental Impact Report/Environmental Impact Statement (EIR/EIS) prepared for this project section. Participated in workshops regarding design changes and geologic conditions, coordinated with the design team and the geotechnical staff, and prepared responses to comments from the Authority, legal and third-party reviewers, and the public.*

***State Route 74 Safety Improvements Project; Caltrans; Orange County, California.** Caltrans District 12 proposed this project to address safety concerns along approximately 5.1 miles of SR-74, extending through the Cleveland National Forest, under the jurisdiction of the United States Forest Service (USFS), and Ronald W. Caspers Regional Park, under the jurisdiction of OCParks. The consultant provided support for Caltrans on this project through three stages of development, including the Project Approval/Environmental Document (PA/ED) stage; the Plans, Specifications, and Estimates (PS&E) stage; and the Construction stage. At the successful conclusion of the contract, the paleontological monitoring program was conducted under budget, on schedule, and with no impacts to paleontological resources. *Role: Principal Paleontologist. Prior to construction, obtained the necessary permits for surveys from the USFS and OC Parks, conducted background research, and prepared the Paleontological Identification Report/Paleontological Evaluation Report (PIR/PER), Supplemental PIR/PER, and Paleontological Mitigation Plan (PMP). During construction addressed any discoveries and answered questions as needed, and at the conclusion of ground disturbance, prepared the Preliminary Paleontological Mitigation Report.*



DEBI HOWELL-ARDILA, M.H.P.

SENIOR ARCHITECTURAL HISTORIAN

Ms. Howell-Ardila is an award-winning historic preservation professional with over 18 years of experience in environmental compliance and historic preservation. She leads SWCA's Southern California Architectural History Group. She has led site investigations and evaluations for thousands of properties throughout California, with a focus on Southern California and the San Francisco Bay Area. Her experience includes preparation of thematic historic context statements, citywide historic resource surveys, environmental compliance studies and documentation in support of CEQA, federal and local landmark nominations, Mills Act applications, and Secretary of the Interior's Standards project review. She exceeds the Secretary of the Interior's Professional Qualification Standards in Architectural History and History.

SELECTED PROJECT EXPERIENCE (* denotes project experience prior to SWCA)

***Riverside Latino Historic Context Statement; City of Riverside; Riverside County, California.** Preparation of the *City of Riverside Latino Historic Context Statement*, which explored over a century of history and culture of Riverside's Latino community. This effort was recognized with an award from the California Preservation Foundation in 2019. *Role: Principal Author/Investigator. Authored historic context statement.*

***Copper Basin Dam Valve Replacement Project; San Bernardino County, California.** Senior Architectural Historian preparing an HRTR for a maintenance project for Copper Basin Dam, a contributing resource within the Colorado River Aqueduct Historic District in eastern San Bernardino County. Work performed for Metropolitan Water District of Southern California, with Metropolitan as the lead agency under CEQA. *Role: Senior Architectural Historian and reviewer.*

Los Angeles County Natural History Museum, La Brea Tar Pits Master Plan Historical Resources Technical Report, Los Angeles, California. In support of the La Brea Tar Pits Master Plan EIR, SWCA prepared a Historical Resources Technical Report, including an analysis of historical resources within the direct and indirect CEQA area of potential impacts, characterization of impacts to historic resources, and development of alternatives, project design features, and mitigation measures. *Role: Senior Architectural Historian and principal researcher/author.*

Monterey Regional Airport Historic Resources Survey Report; Coffman Associates; Monterey County, California. In support of CEQA environmental review, SWCA conducted a historic resources survey and evaluation for the Monterey Regional Airport. Efforts included archival research, site investigations, and survey and preparation of a historic resources technical report summarizing the results. *Role: Senior Architectural Historian/principal author.*

La Brea Tar Pits Master Plan EIR; Los Angeles County Natural History Museum; Los Angeles County, California. SWCA is preparing an EIR addressing the environmental impacts of significant improvements to this iconic site in central Los Angeles. Significant development has occurred in the project vicinity in recent years (e.g., at the adjacent LA County Museum of Art and with the LA Metro), and the EIR and approach to construction phasing will be highly scrutinized. In addition to leading the EIR process, SWCA is assisting with the public engagement process. The conceptual master plan was recently developed by

the Natural History Museum for the future development and enhancement of the La Brea Tar Pits site. The master plan includes the existing museum and Hancock Park and seeks to unify the critical research sites, buildings, exhibition space, and the park with an inspiring new identity. *Role: Project Manager.*

Los Angeles Unified School District (LAUSD) Design Guidelines and Treatment Approaches for Historic Schools; LAUSD; Los Angeles County, California. SWCA prepared district-wide design guidelines for LAUSD, the second largest public school district in the United States. Given LAUSD's 130-year history and expansive geographic range, the LAUSD Design Guidelines provided detailed treatment approaches for a range of school types, architectural styles, and projects, using the Secretary of the Interior's Standards as the point-of-

YEARS OF EXPERIENCE

18

EXPERTISE

Specialized practice in historic preservation planning and policy

Specialized expertise in program- and project-level CEQA analyses

Secretary of the Interior's Standards project review and compliance

EDUCATION

M.H.P., Historic Preservation; University of Southern California, School of Architecture; 2010

B.A., German and Architectural History; University of California, Berkley; 1997

AWARDS

2019: California Preservation Foundation Award, *City of Riverside Latino Historic Context Statement*

2018: California Preservation Foundation Award, *City of San Gabriel Historic Preservation and Cultural Resources Ordinance*

departure. *Role: Project Manager and Lead Historic Preservation Specialist. Served as the project manager and principal author of the design guidelines.*

***Santee Lakes Drain and Dredge Project Biological & Cultural Resources Surveys, Santee, California.** Senior Architectural Historian preparing a Historic Resources Technical Report for the Santee Lakes Recreational Preserve, an eligible cultural landscape. Work performed for Padre Dam Municipal Water District, which was also the lead agency under CEQA. *Role: Senior Architectural Historian and reviewer.*

City of San Gabriel Historic Preservation and Cultural Resources Ordinance Update; City of San Gabriel Department of Planning; California. SWCA updated the City of San Gabriel Historic Preservation and Cultural Resources Ordinance. In 2017/2018, San Gabriel's Historic Preservation and Cultural Resources Ordinance Update won preservation awards from the Los Angeles Conservancy and California Preservation Foundation. *Role: Project Manager and Lead Author/Historic Preservation Specialist.*

City of Colton, Cultural Resources Element and Historic Preservation Ordinance Updates, Colton, California. SWCA is currently updating the City of Colton's Cultural Resources Element and providing recommendations for potential updates to its Historic Preservation Ordinance. Work efforts include development of clear, user-friendly Goals, Policies, and Action Items; planning and leading community workshops and hearings with commissions and City Council; and guiding the element through the reviews and approval process. *Role: Senior Architectural Historian and principal researcher/author.*

City of Manhattan Beach Historic Preservation Ordinance; City of Manhattan Beach Department of Community Development; Los Angeles County, California. SWCA drafted a new Historic Preservation Ordinance for the City of Manhattan Beach. Work efforts included training sessions and outreach to the City's Planning Commission and City Council, as well as public workshop hearings, stakeholder outreach, and developing educational materials. *Role: Project Manager and Lead Historic Preservation Specialist. Led efforts to provide historic preservation consulting services in support of a new historic preservation ordinance and Mills Act Tax Abatement program in the City of Manhattan Beach.*



SUSAN ZAMUDIO-GURROLA, M.H.P.
PROJECT MANAGER, ARCHITECTURAL HISTORY

Susan Zamudio-Gurrola is an architectural historian with eleven years of experience in cultural resource management. Her experience includes conducting evaluations for the NRHP, CRHR, and local designations; preparing cultural resources studies in compliance with NEPA, Section 106 of the NHPA, CEQA, and local ordinances; assessing integrity; reviewing projects for conformance with the SOI Standards; preparing historic context statements, Caltrans-format cultural resources reports, HABS/HAER documentation, and findings of effect. Ms. Zamudio-Gurrola has worked on projects in California, Arizona, Idaho, and Texas, and has performed extension-of-staff historic preservation services and design review for several municipalities throughout California. She also conducted oral history interviews for the Bracero History Archive, a joint project of the Smithsonian National Museum of American History and various organizations. Ms. Zamudio-Gurrola served for several years on the board of directors for the Rancho Camulos Museum, a National Historic Landmark. She meets and exceeds the Secretary of the Interior's Professional Qualifications Standards for History and Architectural History.

YEARS OF EXPERIENCE

12

EXPERTISE

CEQA

Section 106

Historic Resources Surveys

Historic Context Statements

EDUCATION

M.H.P., Historic Preservation; University of Southern California; 2009

B.A., History of Art and Architecture; University of California, Santa Barbara; 2004

TRAINING

CEQA Workshop, Association of Environmental Professionals, 2016

SELECTED PROJECT EXPERIENCE (* denotes project experience prior to SWCA)

Benjamin Franklin Library Historic Property Survey; City of Los Angeles, Department of Public Works, Bureau of Engineering; Los Angeles County, California. SWCA is preparing technical studies for the City of Los Angeles Department of Public Works Bureau of Engineering for the Benjamin Franklin Branch Library Renovations Project. The scope includes archaeological, paleontological, and historical resources technical reports for the library. Tasks include evaluating the property for historic significance, identifying character-defining features, and providing preservation input and project plan review to the design team to facilitate compliance with the Secretary of the Interior's Standards. *Role: Architectural Historian. Conducted research and contributed to historical resources technical report.*

La Brea Tar Pits Master Plan Environmental Impact Report; Los Angeles County Natural History Museum; Los Angeles County, California. SWCA is preparing an Environmental Impact Report (EIR) to address the environmental impacts of significant improvements to this iconic site. With significant development having occurred in the project vicinity in recent years, the EIR and the approach to construction phasing will be highly scrutinized. The conceptual master plan was recently developed by the Los Angeles County Natural History Museum for the future development and enhancement of the La Brea Tar Pits site. The master plan includes the existing museum and Hancock Park, and seeks to unify the

critical research sites, buildings, exhibition space, and park with an inspiring new identity. SWCA is preparing all the technical studies required for the EIR, including a historical resources technical report. *Role: Architectural Historian. Conducted research and contributed to the historical resources technical report.*

***2800 Barry Street Historic Resource Evaluation; City of Camarillo Department of Community Development; Camarillo, California.**

Proposed by the City of Camarillo, the project consisted of demolishing buildings and structures on a vacant property that had previously housed a lumber and hardware supply business. A historical resource evaluation was completed as part of the environmental analysis conducted in conformance with CEQA. The study included a cultural resources records search, archival research, intensive-level field survey, an evaluation for listing in the National Register, California Register and local designation, and preparation of a memorandum and DPR 523 series forms. *Role: Architectural Historian.*

***Emergency Communication Towers Categorical Exclusions; Ventura County Fire Protection District; Ventura County, California.**

The project entailed assisting the Ventura County Fire Protection District (VCFPD) with the preparation of three Categorical Exclusions under NEPA, Categorical Exemptions under CEQA, and the associated cultural resources technical studies. The project proposed to construct towers and

antennas at three VCFPD fire stations for broadcasting and receiving Federal Communications Commission (FCC)-licensed radio signal as part of a remote wildfire early detection network. As the project required licensing from the FCC and included funding from the Federal Emergency Management Agency, it required compliance with Section 106 of the NHPA. This included conducting a cultural resources study for each fire station which included delineating an APE for each project site, conducting cultural resources records searches, extensive Native American and interested party consultation, public notice, archival research, field surveys, evaluations for the National and California Registers, effects/impacts assessments, use of the FCC Tower Construction Notification System and E-106 system, and completion of FCC 620 Forms. California State Historic Preservation Officer concurrence was obtained following completion of the studies. *Role: Task Manager.*

***Inland Branch 2020 Fire Emergency Clean-Up Response Program; CalRecycle; Inland Branch, California.** The project entailed providing environmental and emergency permitting services to assist with CalRecycle's coordinated structural debris and hazard tree removal projects in areas damaged by the wildfires that devastated Lake, Mendocino, Napa, Solano, and Sonoma Counties in 2020. This included reassessment of previously documented historic period resources and preparation of resource record updates; archaeological and biological assessments; archaeological and biological monitoring; agency and tribal coordination; GIS support; emergency permitting services; and guidance and implementation of water-quality best management practices. *Role: Architectural Historian.*

***Historic Context Statement and Reconnaissance Survey for the Eastern Oxnard Plain; County of Ventura Planning Division; Ventura County, California.** *The project consisted of the preparation of a historic context statement and a reconnaissance-level historic resources survey for unincorporated rural areas of Ventura County, California. Encompassing an area of approximately 36,120 acres, the survey area included 1,621 assessor parcels. Two community outreach meetings were held with interested members of the community which helped inform the historic context and survey. Twenty properties that were over 45 years old and associated with the context themes were recorded on California Department of Parks and Recreation (DPR) 523A forms, and DPR update forms were prepared for eight additional properties. The historic context statement, survey results and recommendations were provided in an illustrated report to which the DPR forms were appended. Role: Architectural Historian.*

***Historic Resources Survey and Context for the Town of Saticoy; County of Ventura Planning Division; Ventura County, California.** In support of an update to the Saticoy Area Plan, a historic context statement and reconnaissance-level historic resources survey were completed for the unincorporated and largely Hispanic community of Saticoy. The survey area included 311 assessor parcels covering approximately 238 acres. A historic context statement was developed for the community, and property-specific research was conducted for 24 properties which were recorded on DPR 523 series forms. Research was augmented by outreach to Spanish-speaking community members. An illustrated historic context statement and survey report was prepared which included recommendations to the County of Ventura for adopting and refining review procedures for historical resources in Saticoy. *Role: Architectural Historian.*

***Camarillo Springs Golf Course Development Project; Cadence Environmental Consultants; Camarillo, California.** A cultural resources study was completed for the Camarillo Springs Golf Course Development Project which involved the development of 248 age-restricted single-family homes and recreation center on an existing golf course property, as well as the reconfiguration and renovation of the golf course. The study included a cultural resources records search, archaeological and built environment pedestrian surveys, Native American outreach, an Extended Phase I investigation, Phase II evaluation program, evaluation of the golf course for potential historic significance, and preparation of a report and DPR forms. *Role: Architectural Historian.*

***Kenney Street Widening and Pedestrian Improvements Project Cultural Resources Study; County of Ventura Public Works; Ventura County, California.** The project consisted of street widening and improvements completed in the vicinity of Rio Real Elementary School in El Rio, an unincorporated area of Ventura County. New sidewalk, and curb and gutter were constructed, and shoulders were widened. The project had Caltrans oversight and was subject to compliance with Section 106 of the NHPA. A cultural resources assessment was conducted, which included delineation of an Area of Potential Effects (APE), a cultural resources records search, Native American and local interested party consultation, a field survey, archival research, evaluation of several properties adjacent to the APE for historical significance, and preparation of an Archaeological Survey Report, Historical Resources Evaluation Report, Historic Property Survey Report, and DPR 523 series forms. *Role: Architectural Historian.*

Duke CRM Resumes

Curt Duke

President/Principal Archaeologist



Professional Experience: 30 Years
Years with DUKE CRM: 13 Years

Expertise

Cultural Resources Management
California Prehistory
Section 106 Compliance
CEQA Compliance
Native American Consultation

Education

CSU, Fullerton, M.A., Anth, 2006
SDSU, Grad Studies, Anth, 1996/97
UC Santa Cruz, B.A., Anth, 1994

Professional Registrations

RPA, No. 15969
County of Riverside (No. 151)
County of Orange

Professional Memberships

Society for California Archaeology
Society for American Archaeology
Pacific Coast Archaeological Society
Assoc. of Environmental Professionals
Building Industry Association

Summary of Qualifications

Mr. Duke's career in cultural resources management spans 3 decades. He meets the Secretary of Interior's Professional Qualifications Standards for Prehistoric and Historical Archaeology. He also meets Caltrans PQS equivalent as a Principal Investigator for prehistoric archaeology. He received his B.A. in Anthropology in 1994 from the University of California, Santa Cruz, and his M.A. in Anthropology in 2006 from California State University, Fullerton. His M.A. thesis focused on prehistoric mortuary analysis in southern California. Curt is well-versed in the application of Section 106 of the NHPA, NEPA, and CEQA on a variety of projects across many market sectors. He has conducted/managed more than 3,500 cultural/ paleontological resource projects for various clients primarily in California, as well as Nevada and Arizona. Mr. Duke has completed projects in all phases of archaeology: Ph. I Survey, XPI Survey, Buried Sites Testing, Archaeological Sensitivity Assessments, Ph. II Testing, Ph. III Data Recovery, Ph. IV Monitoring, and Native American consultation assistance. His project responsibilities primarily include overseeing archaeological, historical, and paleontological studies, ensuring that the quality of analysis and reporting meets or exceeds appropriate local, state, and federal standards. His positive, solution-oriented attitude makes him more than just an archaeologist, he brings value to any team in the way he seeks for positive outcomes.

Selected Project Experience

East Lake Specific Plan, Lake Elsinore, 2016-2017. DUKE CRM conducted a cultural resources assessment for the 3,000-acre East Lake Specific Plan. The cultural resources assessment included a record search, archival research, a reconnaissance survey for archaeological resources, and Native American consultation support for the City's AB-52 and SB-18 requirements. Twenty-two cultural resources are known to exist within the Specific Plan area, one of which is a Traditional Cultural Property (TCP), Lake Elsinore itself (Primary No. 33-11009). Through consultation with the Pechanga Band of Luiseño Indians it was determined that while this resource is a sacred and significant Tribal Cultural Resource (TCR). This work was completed in compliance with CEQA.

Wasson Canyon Road Mixed Use Project, Lake Elsinore, 2022-2023 DUKE CRM was contracted to conduct a due diligence report for cultural and paleontological resources for the Wasson Canyon Road project. Research conducted during the due diligence effort led to a finding of moderate potential for finding cultural resources and an undetermined sensitivity for paleontological resources. Due to the sensitivity of Lake Elsinore itself, it was

Selected Project Experience (cont.)

decided that a more detailed cultural and paleontological resources assessment be conducted, which included a field survey of the entire 50-acre property. The updated assessment determined the project has an area of low potential for cultural resources and a high potential for paleontological resources. These findings were submitted to the client and to the city of Lake Elsinore.

Lakeside, Temescal Valley, 2014-2017. DUKE CRM was contracted to provide Phase I and Phase II archaeological services for the 590-acre Lakeside Temescal Valley project. The Phase I study included a records search, field survey, and Native American consultation; and determined that six prehistoric archaeological sites would be physically impacted by the project. Subsequently, a Phase II archaeological excavation was conducted each of these sites, which included the preparation of a research design, mechanical trenching and hand excavations, laboratory analysis, and a detailed technical report. Five of the six sites were recommended eligible for both the National and California Registers; the sixth site will remain preserved. DUKE CRM assisted with extensive consultation with Native American Tribes and conducted a preliminary ethnographic landscape study.

Murrieta Canyon Academy, Murrieta, 2019. DUKE CRM conducted a records search, archival research, and a field survey for this project. We also assisted in AB52 consultation. The results were provided in a cultural resources/paleontological assessment report. There were no cultural resources within the project.

Vila Borba, Chino Hills, 2013-present. Role: Project Manager/Principal Archaeologist. DUKE CRM conducted a Phase II excavation of archaeological sites CA-SBR-5285 and SBR-7972/H, as well as Phase III data recovery at site 36-031828, a prehistoric special-use campsite. This work included research, preparation of a research design/work plan, excavation, lab analysis, Native American consultation, and preparing a detailed technical report. The reports were reviewed by the City, ACOE, and SHPO. DUKE CRM also provided archaeological and paleontological monitoring working with Native Americans, the City and the applicant.

San Jacinto General Plan Update, San Jacinto, 2018-23. Role: Project Manager/Principal Investigator. DUKE CRM is under contract to provide cultural/paleontological resource services including research, reconnaissance field survey, Native American consultation under AB-52 and SB-18, conduct a cultural landscape study and prepare a cultural/paleontological assessment report of its findings.

Murrieta Hospitality Commons, 2017-19. DUKE CRM prepared a PRMP and conducted archaeological/paleontological monitoring during the construction of this project. There were no discoveries made and no delays caused by DUKE CRM. DUKE CRM coordinated with Native American monitors. Role: Project Manager/Principal Archaeologist.

Mid County Parkway, Riverside County, CA, 2004-2011. Role: Task Manager/ Principal Archaeologist. The studies for the Mid County Parkway project included a 32-mile corridor (from Interstate 15 to State Route 79) in western Riverside County. The archaeological survey covered 3,680 acres and identified 91 archaeological sites. An extended Phase I survey (limited excavation) was conducted at 79 of the sites. Ultimately Phase II excavations were conducted at eight of the sites. Four archaeological sites were determined eligible for the National Register. A built environment historic resources survey was conducted and one historic dairy was determined eligible for the National Register. This project included extensive consultation with Indian Tribes. All work was conducted in compliance with Section 106 of the NHPA, NEPA, and CEQA. FHWA, Caltrans, and RCTC were the lead agencies and Jacobs Engineering was the lead engineering firm under contract to RCTC. Work was completed while with another employer.

Brian Glenn

Principal Investigator/Archaeologist



Professional Experience: 30 Years
Years at DUKE CRM: 4 Years

Expertise

Cultural Resources Management
California Prehistory
Section 106 & CEQA Compliance
Native American Consultation
Database (Collections) Management

Education

UCLA, M.A. Anthropology, 1991
UCSB, B.A., Anthropology, 1986
UCSB, B.A., Geography, 1986
San Diego Mesa College, GIS Cert., 2010

Professional Registrations

RPA, No. 989903
County of Riverside

Professional Memberships

Society for California Archaeology
Society for American Archaeology
San Diego County Archaeological Society
President, 1999

Summary of Qualifications

Mr. Glenn has worked on hundreds of cultural resources management projects over his 30 year career. This includes projects throughout California in compliance with Section 106 of the National Historic Preservation Act (NHPA) and California Environmental Quality Act (CEQA). He is listed on the RPA and meets the Secretary of Interior Standards for Principal Investigator. His recent experience includes cultural resources surveys and studies for clients such as the Los Angeles Department of Water and Power, Metropolitan Transit Authority, and La Plaza Foundation. His responsibilities have included the preparation of technical reports (assessment, evaluation, and mitigation), cultural resources management plans and EIS/EIR sections, as well as archaeological monitoring. He has training and significant experience in lithic, faunal, typological and spatial analyses, as well as obsidian source and hydration studies. He has identified, evaluated, and investigated historic era resources from a 1792 Spanish gun emplacement on Ballast Point overlook San Diego Bay to late 19th to mid-20th century household and commercial deposits. Mr. Glenn received B.A. degrees in Geography and Anthropology from UC, Santa Barbara and an M.A. in Archaeology from UCLA. During his graduate work at UCLA, he was acting coordinator of the SCCIC (CHRIS).

Selected Project Experience

Wasson Canyon Road Mixed Use Project, Lake Elsinore, 2022-2023 DUKE CRM was contracted to conduct a due diligence report for cultural and paleontological resources for the Wasson Canyon Road project. Research conducted during the due diligence effort led to a finding of moderate potential for finding cultural resources and an undetermined sensitivity for paleontological resources. Due to the sensitivity of Lake Elsinore itself, it was decided that a more detailed cultural and paleontological resources assessment be conducted, which included a field survey of the entire 50-acre property. The updated assessment determined the project has an area of low potential for cultural resources and a high potential for paleontological resources. These findings were submitted to the client and to the city of Lake Elsinore.

Canyon Hills Estates, Lake Elsinore, CA, 2006

Conducted a Phase I cultural resources assessment of a 245-acre project area in the City of Lake Elsinore that included historic archives review, pedestrian survey and paleontological literature review for Trumark Companies.

Selected Project Experience (cont.)

Tessera, Lake Elsinore, 2021. DUKE CRM was under contract to conduct Native American consultation, prepare an Archaeological Resources Monitoring Plan (ARMP), and conduct archaeological and paleontological monitoring during ground disturbing activities. Upon completion of ground disturbing activities and negative findings, a letter report was prepared and submitted. Mr. Glenn prepared negative findings monitoring letter report for a 9.11-acre parcel in the City of Lake Elsinore.

Marlborough Northgate Business Center, Riverside, 2021. DUKE CRM conducted research on cultural resources, Native American scoping, and a field survey. Upon completion of these tasks, a cultural resources report was prepared. DUKE CRM recommended archaeological monitoring during construction activities due to the high sensitivity of historic resources in the area.

San Jacinto General Plan Update, San Jacinto, 2021-2022. DUKE CRM is under contract to provide cultural/paleontological resource services including research, reconnaissance field survey, Native American consultation under AB-52 and SB-18, conduct a cultural landscape study and prepare a cultural/paleontological assessment report of its findings.

Hwang C-Store Project, City of Victorville, County of San Bernardino, California, 2023

Supervised and reported on Cultural and Paleontological Resources Assessment for HBY, Inc. and the City of Victorville.

Hemet 94 Project, City of Hemet, Riverside County, California, 2023

Supervised and reported on a 94-acre Phase I Cultural and Paleontological Resources Assessment & Historic Era Resource Evaluation for CASC Engineering and Consulting and City of Hemet.

Miles Avenue Bridge Project, Indian Wells, Riverside County, California, 2022

Conducted and reported on cultural resource assessment and below surface testing within the Whitewater River for the City of Indian Wells and the U.S. Army Corps of Engineers.

Channel Redesign Project, Indian Wells, Riverside County, California, 2022

Conducted and reported on cultural resource assessment and below surface testing within the Whitewater River for the City of Indian Wells and the U.S. Army Corps of Engineers.

Eucalyptus HUD Project Riverside County, California, 2022

Prepared a Phase I Cultural Resources Assessment for CASAC Engineering and Consulting and the Housing Authority of the County of Riverside.

Hammock Project, SCE, County of Riverside, CA, 2013

Conducted a cultural resources assessment of a two-mile section of transmission line in anticipation of upgrades.

Corydon St. Blending Project, Carollo Engineers, Lake Elsinore, CA, 2007

Conducted a Phase I cultural resources assessment of an 1,800 foot water replacement line corridor in the City of Lake Elsinore which included historic archives review, pedestrian survey and paleontological literature review for Carollo Engineers.

Brian Kussman

Principal Investigator/Paleontologist



Professional Experience: 30 years
Years with DUKE CRM: 1 Year

Expertise

Paleontology
Fossil Identification
Stratigraphy
Geomorphology

Education

B.A., Earth Science, CSUF, 2018

Professional Registrations

AEP CEQA Basics Training, October
2021

Professional Memberships

South Coast Geologic Society Member
Society of Vertebrate Paleontology
Association of Environmental
Professionals

Summary of Qualifications:

Brian has 30 years of experience conducting paleontological research, field survey, fossil salvage, fossil preparation, laboratory identification, report preparation, and curatorial experience throughout southern California. This includes background research, project proposals and reports, field surveys and monitoring, lab preparation and storage, identification and analysis, and curation of paleontological materials in repositories. Project experience includes housing construction, business construction, highway construction, and public utilities development throughout southern California. He is also responsible for field monitoring, and has assisted with archaeological surveying, monitoring, and the preparation of paleontological monitoring reports.

Selected Project Experience:

I-10 Coachella Valley Pavement Rehabilitation Project, 2023-Ongoing

DUKE CRM is providing paleontological services for the I-10 Coachella Valley Pavement Rehabilitation Project. Currently, DUKE CRM is conducting paleontological monitoring during ground disturbing activities. Following the completion of monitoring activities, DUKE CRM will prepare a monitoring report.

I-10 Singleton Road - Add Missing Ramps, Calimesa, CA. 06/2023 – Present.

Principal Investigator: DUKE CRM is drafting a combination PIR/PER for this Caltrans project, at the I-10/Singleton Road exit immediately south of Calimesa, California along the I-10 right of way. Tasks conducted include a paleontological resources records search, field survey, impacts analysis, and recommendations for mitigation measures. DUKE CRM was contracted by VCS Environmental to prepare this document. This project is expected to be completed in early 2024.

I-10 Highland Springs, Banning, CA. 06/2023 – Present,

Principal Investigator: DUKE CRM is under contract to provide Archaeological and Paleontological Resources for the project. The proposed project improvements will be subject to compliance with Section 106 of the National Historic Preservation Act and CEQA. DUKE CRM will conduct a Cultural records search, Native American Consultation, prepare and APE map, ASR, and HSPR.

I-5 Santa Clarita, Santa Clarita, CA. 06/2023 - Present

Principal Investigator: DUKE CRM is under contract to provide Archaeological and Paleontological monitoring.

I-215 University Parkway Interchange Improvement Project, San Bernardino Co., CA. 2022-2023

Paleontologist: The I-215/University Parkway Interchange Improvement Project involves 15.35 acres on I-215, between MP 11.35 and MP 11.95. Improvement of this intersection will aid in decreasing traffic volume in the area. Description of Tasks Performed: As part of VCS' SBCTA On-Call Contract, Mr. Kussman compiled a Paleontological Monitoring Plan (PMP) for the San Bernardino County Transportation Authority (SBCTA) to protect any onsite paleontological materials during the grading and construction process. A paleontological record search as well as a review of local research was conducted for the background of the PMP. The construction parameters were closely reviewed due to small, localized changes to the geology of the subject project that will impact the sensitivity to paleontology.

State Route 210 Mixed Flow Lane Addition from Highland Avenue to San Bernardino Avenue Project, Cities of Highland, San Bernardino, and Redlands, CA The San Bernardino County Transportation Authority (SBCTA), in cooperation with the California Department of Transportation (Caltrans) District 8 and the City of Highland, proposes to widen State Route 210 (SR-210) from Sterling Avenue to San Bernardino Avenue in the cities of Highland, San Bernardino, and Redlands, as well as a portion of unincorporated San Bernardino County, California. Brian monitored excavations into native alluvium for five new bridge foundations. Excavations took place along a several mile section of SR-210 in Highland, California.

I-215 University Parkway Improvement Project, San Bernardino, CA The proposed project will improve traffic flow through this exit adjacent to California State University, San Bernardino. Brian compiled a Paleontological Monitoring Plan (PMP) for the San Bernardino County Transportation Authority (SBCTA) to protect any onsite fossiliferous material during the grading and construction process.

Summerly Project, Lake Elsinore, CA The Summerly Project is a 706-acre community in the Lake Elsinore Back Basin, south of the lake. This project included grading for a drainage channel, a large sewer line, the subsequent residential development, and a 71-acre detention basin which required paleontological monitors on the project and ensured that any discovery paleontological resources was handled appropriately. A large, important assemblage of Pleistocene fossils (bison, camel, mammoth, etc.) was recovered from the lake sediments and curated at the Western Science Center in Hemet. Brian identified fossil remains during salvage excavation efforts to prevent damage to them and adjacent fossils not yet uncovered.

Tierra Del Sol Benton Parcel, Riverside County, CA The 16.6-acre project site is located approximately 1.2 miles east of the City of Murrieta and approximately 2.8 miles north of the City of Temecula. Brian conducted paleontological and cultural resources monitoring during the initial ground disturbances through to completion of mass excavation. A small collection of Pleistocene fossils was recovered, and later Brian identified the resources prior to drafting the final monitoring report.

McLaughlin Village Tract 26937, Menifee, CA McLaughlin Village proposes the development of a subdivision of approximately 14.76 acres into 126 single-family, detached townhome units. The subdivision also creates allocated areas for recreational open space, open space/entry monuments, 416 parking spaces, and landscaping. Brian is providing archaeological and paleontological monitoring.

Diaz Road, Temecula, CA The project site consists of 7.23 acres and is located at 27635 Diaz Road within

Heirloom Farms/Harveston Cultural Resources Monitoring, Temecula, CA. The project consists of a Development Plan to allow for the construction of a 321- unit, single-family residential community built on 27.86 acres consisting of detached homes and attached townhomes and a Tentative Tract Map (TTM 37509) for the creation of 111 single family residential lots, 31 condominium lots and 9 open space lots. VCS provided archaeological and paleontological resources monitoring, Tribal Coordination to develop a Monitoring Agreement with Pechanga, Sensitivity Training at the pre-grade meeting, preparation of a Cultural Resources Treatment Plan, and a Phase IV Negative Findings Monitoring Report. Brian provided paleontological and cultural resources monitoring during mass excavation on this project.

Dana E. Supernowicz Architectural Historian



Years of Experience: 48 Years
Years at DUKE CRM: 9 Years

Expertise

Cultural Resources Management
History/Architectural History
Historical Archaeology
Section 106 Compliance
CEQA Compliance
Native American Consultation

Education

CSU, Sacramento, M.A., History, 1983
UC Irvine, BA, Social Ecology/Planning 1978
Orange Coast College, Anthropology, 1976

Professional Memberships

Society for California Archaeology
Society for Historical Archaeology
National Trust for Historic Preservation
Victorian Society

Professional Registrations

Register of Professional Archaeologists 989977

Summary of Qualifications

Mr. Supernowicz worked for the California State Historic Preservation Officer (SHPO) as a staff reviewer in the Section 106 unit. During his tenure with the SHPO, Supernowicz assisted in the development of HABS/HAER documentation, PAs, MOAs, and other agreement documents, reviewed reports prepared by over 20 federal agencies, and assisted in planning efforts for the office. Mr. Supernowicz has been professionally involved in the research, documentation, and mitigation of historic districts, sites, buildings and structures since 1976. He has worked for a variety of federal and state agencies, including Caltrans, the Department of Parks and Recreation, National Park Service, and Bureau of Land Management. He was the first full-time historian and historical archaeologist employed by the U.S. Forest Service in California and served as the first Regional Historian and Zone Historian for California. Mr. Supernowicz has experience both in historical and archaeological studies, both large and small, including those initiated by city and state governments. Mr. Supernowicz served as guest lecturer, UC Davis, Department of Environmental Design and Cosumnes River College, and has authored and co-authored numerous reports and published articles. Several of those reports focused on establishing design guidelines and standards for evaluating historic properties throughout California, including water delivery systems.

Selected Project Experience

Leal Master Plan, Eastvale, 2021-Present. DUKE CRM was under contract to provide cultural resources services for a 156-acre development project. DUKE CRM conducted a records search and field survey. Additionally, during the field survey the three historical buildings located on the property were documented and assessed for eligibility under the California Register of Historical Resources (CRHR). The buildings were found to be ineligible and a technical report was prepared outlining these results. Currently, DUKE CRM is conducting paleontological monitoring during ground disturbing activities. Following the completion of monitoring activities, DUKE CRM will prepare a report to the city and the client.

Impact 7G Verizon, 2023-Present.

DUKE CRM conducts cultural resources services for Verizon cell sites throughout California. This work includes record searches at the information centers, field surveys, and preparation of reports which are submitted to the client and State Historic Preservation Office (SHPO).

Selected Project Experience (Continued)

Philadelphia Street, Industrial Center, Chino, 2021. DUKE CRM was under contract to provide cultural resources services for a 4.6-acre development project. DUKE CRM conducted a records search and field survey. Additionally, during the field survey a historical building located on the property were documented and assessed for eligibility under the California Register of Historical Resources (CRHR). The building was found to be ineligible and a technical report was prepared outlining these results. Following the completion of the field survey and historical evaluation, a report was prepared stating negative findings during the field survey and submitted to the client.

Impact 7G T-Mobile, 2020-Present.

DUKE CRM has conducted cultural resources services for nearly 250 T-Mobile cell sites throughout California. This work includes record searches at the information centers, field surveys, ESA Phase I field surveys, historical evaluations for properties 50 years or older, and preparation of reports which are submitted to the client and State Historic Preservation Office (SHPO).

Impact 7G AT&T, 2022-Present.

DUKE CRM conducts cultural resources services for AT&T cell sites throughout California. This work includes record searches at the information centers, field surveys, historical evaluations for properties 50 years or older, and preparation of reports which are submitted to the client and State Historic Preservation Office (SHPO).

Mt. Roubidoux Experiment Station and Laboratory, Riverside, CA. 2000. Prepared for the Natural Resources Conservation Service (NRCS), Davis, CA. Mr. Supernowicz conducted a Cultural Resources Study of the Secondo Farm, 20985 Buena Vista Road, Salinas, Monterey County, California.

Impact 7G, Phelps Hall, U.C. Santa Barbara., Mariposa Project, Santa Barbara, California 2021. Architectural Historian. Mr. Supernowicz provided a cultural resources study including preparation of a Historical Built Environment Assessment of Phelps Hall within the U.C. Santa Barbara campus.

Sprint West, LLC, Santa Barbara Plaza, 17S Milpas Street, Santa Barbara, 2021

Mr. Supernowicz provided cultural resources services and prepared a Historical Built Environment Assessment including a determination of significance for the NRHP for the Santa Barbara Plaza.

Dune/17 Mile Drive Project, The Lodge at Pebble Beach, Monterey County, CA. 2005

Mr. Supernowicz conducted a Cultural Resources Study for this project.

Historical Context and Archaeological Research Design for Mining Properties in California. 2008

Prepared for California Department of Transportation.

Historical Context and Archaeological Research Design for Agricultural Properties in California. 2007.

Prepared for California Department of Transportation.

Archaeological Study of Guidici Ranch, Feather River Fish Hatchery, 475 Old Hatchery Road, Clio, Plumas County, California.

Cultural Resources Study of the Granada Theatre Project, 1216 State Street, Santa Barbara, Santa Barbara County, California.

Rancho Murieta South: The Proposed Greens Subdivision Archaeological Monitoring Report, Phase I: Pre-Grading Field Survey and Results of the Historic Site Evaluation.

Morgan Beigle

Co-Principal Investigator/Archaeologist



Professional Experience: 7 Years
Years with Duke CRM: 4 Years

Expertise

Cultural Resources Management
California Prehistory
Historical Archaeology
Prehistoric Archaeology

Education

California State University, Los Angeles,
M.A. Anthropology, 2019
Agnes Scott College, B.A., Anthropology/
Sociology, 2014

Professional Registrations

RPA, No. 18011

Professional Memberships

Society for California Archaeology
Society for American Archaeology

Certifications

HAZWOPER 40-Hr.
No. 220221520497

Summary of Qualifications

Ms. Beigle attended Agnes Scott College in Decatur, Georgia where she obtained her BA in 2014 in Anthropology/ Sociology and minored in Classics. During her time there, she studied abroad and traveled throughout Turkey where she visited many archaeological sites. Ms. Beigle attended California State University, Los Angeles where she received her MA in Anthropology, emphasis in California Archaeology in 2019. Her thesis focused on crab and sea urchin remains from a Middle Holocene site on San Nicolas Island, California (CA-SNI-40). She has six years of professional experience as a staff archaeologist where she became a Registered Professional Archaeologist and meets the Secretary of Interior Standards for Principal Investigator. During this time, Ms. Beigle has worked on several cultural resource management projects. This includes projects throughout California in compliance with Section 106 of the National Historic Preservation Act (NHPA) and California Environmental Quality Act (CEQA). She has monitored major infrastructure sites such as Metropolitan Transit Authority and utility projects. Ms. Beigle has monitored sites for private commercial and residential developments projects. While monitoring, she identifies historic and prehistoric resources and is cross trained in paleontology. Additionally, her responsibilities have included the preparation of technical reports (assessment, evaluation, and mitigation), cultural resources management plans, and project coordination.

Selected Project Experience

Wasson Canyon Road Mixed Use Project, Lake Elsinore, 2022-2023 DUKE CRM was contracted to conduct a due diligence report for cultural and paleontological resources for the Wasson Canyon Road project. Research conducted during the due diligence effort led to a finding of moderate potential for finding cultural resources and an undetermined sensitivity for paleontological resources. Due to the sensitivity of Lake Elsinore itself, it was decided that a more detailed cultural and paleontological resources assessment be conducted, which included a field survey of the entire 50-acre property. The updated assessment determined the project has an area of low potential for cultural resources and a high potential for paleontological resources. These findings were submitted to the client and to the city of Lake Elsinore.

Leal Master Plan, Eastvale, 2021-Present. DUKE CRM was under contract to provide cultural resources services for a 156-acre development project. DUKE CRM conducted a records search and field survey. Additionally, during the field survey the three historical buildings located on the property were documented and assessed for eligibility under the California Register of Historical Resources (CRHR). The buildings were found to be ineligible and a technical report was prepared outlining these results. Currently, DUKE CRM is conducting paleontological monitoring during ground disturbing activities. Following the completion of monitoring activities, DUKE CRM will prepare a report to the city and the client.

Menifee Union School District (MUSD) Education Center, 2014, 2023. DUKE CRM provided cultural and paleontological resources services for the Menifee Union School District (MUSD) Education Center property on the northwest corner of Haun Road and Hub Drive, Menifee, Riverside County, California. The work effort was to document efforts made to comply with the CEQA. The cultural and paleontological resources assessment included a records search for cultural resources at the Eastern Information Center (EIC), and a records search for paleontology at the San Bernardino County Museum (SBCM). In addition, a field survey was conducted to identify any cultural and/or paleontological resources. The results were presented in a professional technical report. DUKE CRM worked with the MUSD to turn the project around in an expedited fashion. In 2023, DUKE CRM provided archaeological monitoring during ground disturbing activities. Once ground disturbance was complete, DUKE CRM prepared a negative findings report and submitted it to the client.

Vila Borba Project, Chino Hills, 2021-Present. Role: Field Coordinator. DUKE CRM provided construction monitoring for archaeology and paleontology. In 2013, DUKE CRM conducted a Phase II test excavation of archaeological sites CA-SBR-5285 and CA-SBR-7972/H for CalAtlantic (now Lennar). Between 2016-18 DUKE CRM conducted data recovery archaeological work at a site discovered during construction monitoring. This work includes research, a research design/work plan, excavation, lab analysis, Native American consultation, archaeological and paleontological and preparing detailed technical reports. The reports will be reviewed by the City, ACOE, and SHPO.

San Jacinto General Plan Update, San Jacinto, 2021-Present. Role: Project Manager/Principal Investigator. DUKE CRM is under contract to provide cultural/paleontological resource services including research, reconnaissance field survey, Native American consultation under AB-52 and SB-18, conduct a cultural landscape study and prepare a cultural/paleontological assessment report of its findings.

Tessera, Lake Elsinore, 2021. DUKE CRM was under contract to conduct Native American consultation, prepare an Archaeological Resources Monitoring Plan (ARMP), and conduct archaeological and paleontological monitoring during ground disturbing activities. Upon completion of ground disturbing activities and negative findings, a letter report was prepared and submitted. Mr. Glenn prepared negative findings monitoring letter report for a 9.11-acre parcel in the City of Lake Elsinore.

Division 20 Portal Widening Project, Los Angeles 2021-Ongoing. Role: Project Archaeologist. The project is located within the existing Division 20 railyard in Downtown Los Angeles. This project will expand the boundaries of the existing tracks and provide additional service tracks for the new Metro Lines. This work is being conducted in an area original to Los Angeles and therefore is in a high area of sensitivity. Ms. Beigle now serves as a project coordinator. She works closely with archaeological monitors to determine construction activities and significance of finds. Ms. Beigle also prepares the necessary finding forms for ICF and Metro, including DPR forms for isolates and features.

I-5 North Enhancement Project, Valencia, 2022-Ongoing. Role: Archaeologist. DUKE CRM is under contract to conduct paleontological monitoring. Monitoring is being conducted along 8-miles of the I-5 freeway in three different types of sediment. During monitoring, DUKE CRM observed a bivalve fossil. The fossil was removed and construction activities continued without delay.

ERP Resumes



ENVIRONMENTAL
REVIEW
PARTNERS, INC

A Service-Disabled Veteran Owned Small Business
California DBE and DVBE Certified

1752 West Adams Boulevard
Suite 201
Los Angeles, CA 90018-2962
D 213.866.8352 | M 310.569.7280
Keith.Cooper@erpinc.com | www.erpinc.com

Keith Cooper

Technical Director

Keith is the Founding Principal at Environmental Review Partners, Inc (ERP), a Service-Disabled Veteran-Owned (SDVOSB) that holds California Disadvantaged Business Enterprise (DBE) and Disabled Veterans Business Enterprise (DVBE) certifications, among other certifications.

Keith's technical expertise encompasses various areas, including criteria pollutant and GHG emissions inventories, air toxics health risk assessments, federal conformity determinations (general and transportation), energy resource studies, and noise impact evaluations. Over the years, he has demonstrated proficiency in preparing comprehensive reports for air quality, noise, and energy studies associated with transportation, public infrastructure, and private development projects.

His in-depth knowledge spans federal and state ambient air quality standards, federal Clean Air Act general conformity determination requirements, local air district rules and regulations, climate change/GHG emissions quantification and evaluation, noise impact evaluation criteria, and energy resources quantification and evaluation. Keith's extensive experience positions him as a valuable resource in navigating the complexities of environmental review requirements.

Selected Project Experience (* Work performed while employed at prior firm)

Interstate 15/Nichols Road Interchange Project Preliminary

Environmental Analysis Report (PEAR). HDR/City of Lake Elsinore.

Technical Director. This project aims to enhance the Interstate 15/Nichols Road interchange situated within the City of Lake Elsinore, spanning from postmile 22.8 (0.6 miles north of Central Avenue) to postmile 24.5 (2.3 miles south of Lake Street) in Riverside County. Keith is currently

undertaking the constraints analysis for the resource areas of air quality and noise as part of this proposed project's preliminary environmental assessment. **June 2023 – Ongoing.**

Hollister Ranch Coastal Access Programmatic Environmental Impact Report (PEIR). Ascent

Environmental/California State Lands Commission. Technical Director. This proposed project would develop coastal access to 8.5 miles of shoreline along the Gaviota Coast, located within the 14,000-acre gated subdivision of Hollister Ranch in Santa Barbara County. The various modes of transportation access to six Hollister Ranch beaches may include shuttle-based access, drive-in access, trail-based access, and bicycle-based access. For this project, Keith is providing quality control and oversight for all aspects of air quality and noise impact modeling and report writing. **October 2023 – Ongoing.**



Years of Experience: 25

Education

M.B.A., 2019, Mount Saint Mary's University, Los Angeles

M.A., 2012, Urban Planning, University of California, Los Angeles

B.S., 1999, Business Administration, California State University, Dominguez Hills

Specialized Training

Air Quality Permitting and Enforcement, UCLA Extension, 2012

FHWA Traffic Noise Model 2.5 and Traffic Noise Fundamentals, Bowlby & Associates, 2006

Introduction to Transportation Air Quality Conformity, National Transit Institute. 2005

Seaport San Diego Project Health Risk Assessment. *HDR/1HWY1, LLC.* Technical Director. This Project would involve redevelopment of approximately 105 acres of land, including approximately 36.63 acres of land area and approximately 68.5 acres of water area, within the Central Embarcadero of the Port of San Diego. As part of the air quality analysis for the EIR, a health risk assessment (HRA) would be prepared to evaluate potential health risks from exposure to toxic air contaminant (TAC) emissions generated by the Project's construction and operational activities. Keith developed the scope of work and is providing quality control and oversight for the project. **July 2023-Ongoing.**

*** District 8 On-Call Environmental Services Contracts.** *California Department of Transportation.* Air Quality Task Leader. Keith demonstrated proficiency in preparing over a dozen Air Quality Reports, complete with conformity reports and checklists, for diverse transportation improvement projects spanning Riverside and San Bernardino Counties. These projects encompassed interchange improvements, freeway widening, and truck climbing lane initiatives, among others. In his role, Keith played a pivotal role as the air quality technical lead. His responsibilities included conducting transportation conformity determinations, executing analyses for carbon monoxide and particulate (PM10 and PM2.5) hotspot assessments, and evaluating mobile source air toxics for all projects. Keith's expertise contributed significantly to the successful execution of these contracts. **May 2008 – February 2021.**

I-405 Auxiliary Lane from I-110 (Main Street) to Wilmington Project. *HDR/Los Angeles County Metro.* Air Quality and Noise Technical Director. This project aims to enhance traffic flow by introducing an auxiliary lane between interchange on- and off-ramps at five locations along both northbound (NB) and southbound (SB) sections of I-405, spanning from Wilmington Avenue to Main Street. In areas requiring retaining walls, the project incorporates additional widening and strategically positions the walls off the freeway centerline to accommodate the future I-405 Express Lanes project. In his ongoing involvement with this initiative, Keith has played a crucial role. He formulated the scopes of work for the preparation of the Caltrans Air Quality Report (AQR) and Noise Study Report (NSR) documents. Furthermore, Keith is spearheading quality control and oversight for all aspects of air quality and noise impact modeling and report writing. His contributions are integral to the successful completion of this project. **September 2023 – Ongoing.**

*** Los Angeles River Master Plan Program EIR.** *Los Angeles County Department of Public Works.* Air Quality Task Leader. This extensive Master Plan Update encapsulates the entirety of the LA River study corridor, stretching one mile on each side of the river. The corridor traverses through 18 diverse local jurisdictions, comprising 17 cities and unincorporated County areas, as it covers a remarkable 51-mile journey from the Santa Susana Mountains to its termination at the Pacific Ocean in Long Beach. Keith's multifaceted involvement underscores his commitment to ensuring a thorough and meticulous evaluation of the environmental implications associated with this significant project. Keith developed the scope of work and impact evaluation strategy for the crucial areas of air quality, climate change, and energy resources. His expertise extended to providing senior technical oversight for these resource areas. Specifically, Keith's contributions were integral to the preparation of a Program Environmental Impact Report (EIR) that systematically assessed potential effects stemming from the LA River Master Plan Update buildout. **April 2020 – January 2021.**



Blake Barroso

Senior Technical Analyst

Blake is a Senior Technical Analyst at Environmental Review Partners, Inc (ERP), a Service-Disabled Veteran-Owned (SDVOSB) that holds California Disadvantaged Business Enterprise (DBE) and Disabled Veterans Business Enterprise (DVBE) certifications, among other certifications.

Blake has seven years of experience evaluating air quality, greenhouse gas (GHG) emissions/climate change, and energy resource impacts for projects undergoing CEQA and/or NEPA environmental review. He also has experience conducting noise analyses for transportation and development projects. Blake develops criteria pollutant, GHG, and mobile-source air toxics (MSAT) emissions inventories using emissions modeling tools such as the California Emissions Estimator Model (CalEEMod), the California Air Resources Board’s (CARB) Emission FACTor model (EMFAC) and the Road Construction Emissions Model (RCEM). Blake has extensive experience conducting dispersion modeling using AERMOD to perform health risk assessments and ambient air quality analyses. He is proficient with the suite of tools from CARB's Hotspots Analysis and Reporting Program (HARP). He also has experience conducting field noise measurements, summarizing noise modeling data, estimating construction related noise and using the Federal Highway Administration’s Traffic Noise Model (TNM).

Selected Project Experience (* Work performed while employed at prior firm)

Hollister Ranch Coastal Access Programmatic Environmental Impact Report (PEIR). *Ascent Environmental/California State Lands Commission.*

Lead AQ/GHG/Noise Technical Analyst. This proposed project would develop coastal access to 8.5 miles of shoreline along the Gaviota Coast, located within the 14,000-acre gated subdivision of Hollister Ranch in Santa Barbara County. The various modes of transportation access to six Hollister Ranch beaches may include shuttle-based access, drive-in access, trail-based access, and bicycle-based access. For this project, Blake is the lead technical analyst and principal author of the air quality and noise technical studies. **October 2023 – Ongoing.**

Maritime Clean Air Strategy (MCAS) Health Risk Assessment. *Ascent Environmental/Port of San Diego.* HRA Technical Lead. This project aims to assess potential health impacts associated with diesel particulate matter (DPM) exposure from cargo-related activities at the Tenth Avenue Marine Terminal (TAMT) and National City Marine Terminal (NCMT) within the Port of San Diego. The Health Risk Assessment (HRA) focuses on evaluating both cancer and non-cancer health risks to nearby communities resulting from DPM generated by various sources like ocean-going vessels, tugs, cargo handling equipment, and trucks. As part of the MCAS, emission reduction measures were proposed for multiple port sources, including vessels, cargo handling equipment, and trucks. The HRA, led by Blake, aimed to



Years of Experience: 7

Education

M.S., 2016, Civil Engineering, University of Washington
B.S., 2012, Environmental Science, California Lutheran University

Specialized Training

FHWA Traffic Noise Model 2.5 and Traffic Noise Fundamentals, Bowlby & Associates, 2023
Environmental Noise, Measurement, Modeling & Evaluation Seminar, Navcon Engineering Network, 2022
MM-203 Health Risk Assessments: Intermediate, California Air Resources Board, 2018

gauge changes in health risks under different scenarios, comparing baseline conditions with the implementation of these emission reduction measures. Blake prepared all dispersion modeling and health risk calculations, contributing extensively to the HRA Report. Additionally, Blake generated contour maps illustrating cancer risk levels in the surrounding communities. Blake's involvement extended beyond technical analysis; he collaborated with the San Diego County APCD and the California ARB. This collaboration included discussions on modeling approaches, results, and coordination for presenting and communicating health risk findings to stakeholders. **January 2022-Ongoing.**

Seaport San Diego Project Health Risk Assessment. *HDR/ 1HWY1, LLC.* HRA Technical Lead. The Project would involve redevelopment of approximately 105 acres of land, including approximately 36.63 acres of land area and approximately 68.5 acres of water area, within the Central Embarcadero of the Port of San Diego. As part of the air quality analysis for the EIR, a health risk assessment (HRA) would be prepared to evaluate potential health risks from exposure to toxic air contaminant (TAC) emissions generated by the Project's construction and operational activities. Blake is leading the dispersion modeling and health risk calculations for the project. **July 2023-Ongoing.**

*** San Diego Gas and Electric (SDG&E) Artesian 230kV Substation Expansion Project.** *San Diego Gas & Electric.* AQ Technical Specialist. Blake led health risk modeling efforts for the project which included expanding and rebuilding the existing 230 kV Artesian Substation, which would include the construction of a new 230 kV transmission line. Construction of the project would generate DPM emissions from operation of offroad equipment and heavy-duty trucks. He prepared an HRA which evaluated cancer risk and non-cancer risks from exposure to DPM. The HRA was conducted using AERSCREEN, a screening air dispersion screening model used to determine concentrations of DPM at residential receptors and school receptors (staff and students) in the project vicinity. **April 2017 – June 2017.**

I-405 Auxiliary Lane from I-110 (Main Street) to Wilmington Project. *HDR/Los Angeles County Metro.* Air Quality and Noise Technical Analyst. This project aims to enhance traffic flow by introducing an auxiliary lane between interchange on- and off-ramps at five locations along both northbound (NB) and southbound (SB) sections of I-405, spanning from Wilmington Avenue to Main Street. In areas requiring retaining walls, the project incorporates additional widening and strategically positions the walls off the freeway centerline to accommodate the future I-405 Express Lanes project. In his ongoing involvement with this initiative, Blake has played a crucial role. He assisted with development of scopes of work for the preparation of the Caltrans Air Quality Report (AQR) and Noise Study Report (NSR) documents. Furthermore, Blake is the lead technical analyst and principal author of the AQR and NSR. His contributions are integral to the successful completion of this project. **September 2023 – Ongoing.**

*** Inglewood Basketball and Entertainment Center.** *City of Inglewood.* AQ Technical Lead and Noise Technical Assistant. Blake led air quality and GHG modeling efforts for the development of a state-of-the-art basketball facility to be the new home of the Los Angeles Clippers, as well as other events such as concerts and corporate events. He estimated construction and operational emissions of criteria pollutants, GHGs, and toxic air contaminants (TACs) using CalEEMod and EMFAC2017. Emissions estimates were used for evaluating regional impacts and incorporated into the project's health risk assessments (HRA) and ambient air quality analysis. HRAs were conducted for the project to evaluate impacts of diesel particulate matter (DPM) and other TACs from construction and operational activities. Blake also conducted an ambient air quality analysis which evaluated the impacts of local criteria pollutant emissions from construction and operations of the project. Blake also assisted with conducting noise measurements for nighttime ambient noise levels. **February 2019 – November 2019.**

A/E Tech Resumes



Farshad Farhang, INCE – A/E Tech LLC

Principal/President

For over 30 years, Farshad Farhang has managed noise/vibration studies and performed technical noise work in the infrastructure and environmental sectors. Mr. Farhang is experienced in many facets of the acoustics field, including environmental and transportation noise and vibration measurement, analysis, and control. In his many years of practice, Mr. Farhang has performed work on hundreds of projects such as transportation projects, including rail and transit, streets and highways, civilian airports, military bases; municipal projects, including schools, parks, streets, water treatment projects; private development projects, including residential and commercial developments, and many others. Mr. Farhang is fully familiar with noise requirements under NEPA and CEQA for project environmental clearance and approval. His experience and expertise have enabled Mr. Farhang to ensure that the studies he conducts result in full compliance with local, state, and federal regulations, as needed.

EDUCATION

1994/MBA/Business Administration/California State University, Fresno

1986/BS/Electrical Engineering/California State University, Fresno

PROFESSIONAL AFFILIATIONS

- Institute of Noise Control Engineering
- Acoustical Society of America

EXPERIENCE

With Firm for 11 years; with other firms for 23 years

TOTAL YEARS OF EXPERIENCE: 34

Experience

Sepulveda Transit Corridor – Los Angeles, CA: Noise and Vibration Lead; currently leading the noise and vibration studies for the environmental documentation, under CEQA and NEPA, of an approximately 16-mile transit project connecting the San Fernando Valley to West Los Angeles. The project alternatives include subterranean tunnels and aerial guideways, with transit modes including a mix of light rail vehicles, monorail, and electric buses. The noise and vibration impact assessments are being performed in accordance with Federal Transit Administration (FTA) procedures, and identify potential mitigation measures for each project alternative.

I-10/Wildwood Canyon Road Interchange – Yucaipa, CA: Noise Lead; currently conducting the noise study for this interchange improvement project in Yucaipa, California. The work includes coordination with Caltrans to identify noise monitoring and modeling locations, onsite traffic noise measurements, noise modeling using the FHWA Traffic Noise Model (TNM), and noise study report submittal to Caltrans for review and approval.

La Estrada Road Extension – Lake Elsinore, CA: Noise Lead; Prepared the noise write-up for inclusion in the environmental document for the proposed extension of La Estrada Road in the City of Lake Elsinore. The noise write-up addressed construction and operations noise as well as recommendations for future noise studies to be conducted for the project.

I-15/SR-74 Interchange Improvement – Lake Elsinore, CA: Noise Lead; Conducted the noise study for this interchange improvement project in Lake Elsinore, California. The work includes coordination with Caltrans to identify noise monitoring and modeling locations, onsite traffic noise measurements, noise modeling using the FHWA Traffic Noise Model (TNM), and report submittal to Caltrans for review and approval.

Home Sweet Home Mixed-Use Project – Lake Elsinore, CA: Noise Study Lead; Conducted a detailed noise study for this mixed-use development, including 40 condominium duplex units and seven single family homes, a hotel, and a restaurant in the City of Lake Elsinore. The noise study included assessment of construction and traffic noise impacts from the project on the neighboring community, and evaluation of traffic noise from the adjoining arterial roadway on the project. The noise evaluation also included prediction of future traffic noise within the development and assessment of outdoor-to-indoor noise based on proposed architectural plans.

Mission Trail Apartments – Lake Elsinore, CA: Noise Study Author; Conducted a detailed noise study for this 81-unit affordable apartment complex in the City of Lake Elsinore. The noise study included assessment of construction and traffic noise impacts from the project on the neighboring community, and evaluation of traffic noise from the adjoining arterial roadway on the project. The noise study included assessment of outdoor-to-indoor noise based on proposed architectural plans, and recommendation of revisions to building components to ensure compliance with applicable indoor noise criteria.

East Lake Specific Plan EIR – Lake Elsinore, CA: Noise Study Author; Prepared a noise study report for specific plan of a 2950-acre area of the City of Lake Elsinore in Riverside County. The noise study entailed measurements of existing noise conditions, characterization of transportation, commercial, and noise-intensive land uses, and assessment of future noise environment throughout this area of the City.

Jamboree/Barranca Intersection Improvements – Irvine, CA: Noise Lead; Conducted the traffic noise study for this roadway intersection improvement project. The work included coordination with the project civil engineer to identify noise monitoring and modeling locations, onsite traffic noise measurements, noise modeling using the TNM, and report submittal to the City of Irvine for inclusion in the environmental documentation and approval.

Jurupa Road Grade Separation Project – Jurupa Valley, CA: Noise Lead; Conducted the noise study for this grade separation project that will depress Jurupa Road underneath the Union Pacific Railroad tracks and Van Buren Boulevard in the City of Jurupa Valley. The project will improve mobility and safety at this local intersection. The noise study included traffic and railroad noise measurements and roadway traffic noise modeling using the FHWA TNM to evaluate the existing and post-project noise environments, and analyze potential noise impacts at noise-sensitive locations in the project environs.

Los Angeles Metro I-605 Corridor Improvement Project – Whittier, La Puente, Baldwin Park, El Monte, CA: Noise Modeler; Conducted detailed traffic noise modeling for three build alternatives of this highway improvement project along Interstate 605 north of Interstate 60, stretching up to and along the Interstate 10. Noise modeling was conducted using the FHWA TNM and involved analysis of multiple soundwalls along the project corridor in accordance with Caltrans feasibility and reasonableness requirements.

Attachment C – Key Staff Rates

2024/2025 Rates

| Name | 2024 | 2025 |
|---------------------------------------|-----------|-----------|
| EGP Consulting | | |
| Angie Kung | \$ 199.65 | \$ 199.65 |
| Sarah Barrera | \$ 134.79 | \$ 134.79 |
| Natalie Brim | \$ 130.87 | \$ 130.87 |
| AE Tech | | |
| Farshad Farhang | \$ 223.00 | \$ 223.00 |
| ERP | | |
| Keith Cooper | \$ 215.00 | \$ 225.00 |
| Blake Barroso | \$ 170.00 | \$ 178.00 |
| Duke CRM | | |
| Curt Duke | \$ 260.00 | \$ 260.00 |
| Brian Kussman | \$ 170.00 | \$ 170.00 |
| Brian Glenn | \$ 170.00 | \$ 170.00 |
| Dana Supernowicz | \$ 170.00 | \$ 170.00 |
| Morgan Beigle | \$ 120.00 | \$ 120.00 |
| SWCA Environmental Consultants | | |
| Dr. Tiffany Clark | \$226.00 | \$232.78 |
| Nick Hearth, MA, RPA | \$207.00 | \$213.21 |
| Roberta Thomas, MA, RPA | \$189.00 | \$194.67 |
| Mathew Carson, MS | \$189.00 | \$194.67 |
| Dr. Sarah Rieboldt | \$158.00 | \$162.74 |
| Debi Howell-Ardilla, MHP | \$207.00 | \$213.21 |
| Susan Zamudio-Gurrola, MHP | \$158.00 | \$162.74 |