

EDUCATION

1994 M. S., Anatomy (Evolutionary Morphology), University of Southern California, Los Angeles
1979 B. S., Anthropology (Physical), University of California, Davis

SUMMARY QUALIFICATIONS

Ms. Gust is a Qualified Principal Paleontologist and Registered Professional Archaeologist (RPA) with 35 years of experience. She is a certified/qualified principal paleontologist in all California cities and counties that maintain lists. She holds BLM paleontology and cultural permits for California. At Cogstone, she has managed numerous transportation-related projects and task orders for Metro, Metrolink, Caltrans, CAHSR, OCTA, RCTC, SANDAG, SANBAG (customize each time), transit agencies and municipalities. She has experience with street, roadway, interchange, bridge, and grade separation projects involving paleontological and archaeological resources. (customize each time) Her work for heavy and light rail has involved extensive excavation activities for construction of tunnels, tracks, stations and associated facilities. (customize each time) She has managed multiple projects with Caltrans/FHWA/FTA/FRA as the lead agency and is knowledgeable of the processes and procedures required to obtain NEPA, NHPA Section 106 and CEQA environmental approvals. Ms. Gust meets the qualifications required by the Secretary of the Interior's *Standards and Guidelines for Archaeology and Historic Preservation* and the standards outlined in Attachment 1 to Caltrans Section 106 Programmatic Agreement with the FHWA; and Chapter 1, Volume 8, on paleontology and Chapter 2 on cultural resources, of the Caltrans Standard Environmental Reference (SER). She is accepted as a principal investigator for both prehistoric and historical archaeology by the State Office of Historic Preservation's Information Centers. She has special expertise in the identification and analysis of fossil bone.

PALEO FOCUS Ms. Gust's expertise in the paleontology of the western United States includes research, survey, assessment of impacts/effects, significance criteria and determinations, management plans, mitigation implementation, fossil identification/analysis and curation. Ms. Gust is an Associate of the Natural History Museum of Los Angeles County in the Vertebrate Paleontology and Rancho La Brea Sections. She is a member of the Society of Vertebrate Paleontology and the Society of Economic Paleontologists and Mineralogists.

ARCHAEO FOCUS Ms. Gust's expertise includes historical archaeology of California (statewide) and prehistoric archaeology in the central and southern California coastal and inland areas. Tasks personally performed include research, record searches, survey, assessment of impacts/effects, application of NRHP/CRHR significance criteria and archaeological site evaluation, management plans, mitigation implementation, research designs, treatment plans, human osteological identification and analysis, faunal identification and analysis and archaeological site damage assessments. She is a member of the Society for Archaeological Sciences, Society for Historical Archaeology and Society for California Archaeology.

Technical reports Ms. Gust has expertise in conducting technical studies and preparing project-related Paleontological Identification Report (PIR), Paleontological Evaluation Report (PER), Paleontological Mitigation Plan (PMP), Archaeological Survey Report (ASR), and Historic Property Survey Report (HPSR) documents.

SELECTED PROJECTS

RAIL

Exposition Light Rail Transit Phase II, Exposition Rail Construction Authority/Los Angeles County Metropolitan Transportation Authority, Los Angeles, CA. Conducted paleontological assessment, including a field survey, for the extension of the Expo Light Rail system for 8 miles from Culver City to Santa Monica involving construction of seven stations. Managed paleontological and archaeological monitoring during construction. Quaternary old alluvial fan sediments deposited during the middle to late Pleistocene, between 800,000 to 11,000 years ago, were present in about a third of the project alignment. A vertebrate fossil locality

known within the alignment was updated with the Natural History Museum. Sub to URS Corporation. Principal Archaeologist and Paleontologist. 2009-2014

Purple Line Extension (Westside Subway) Final EIS/EIR and Mitigation Plans, Los Angeles County Metropolitan Transportation Authority, Los Angeles, CA. The project involves construction of seven stations from the existing Purple Line at Wilshire/Western Avenue along Wilshire Boulevard to the Veterans Administration Hospital in Westwood for 8.6 miles. The Federal Transit Authority (FTA) is the lead agency for the project. Completed the paleontology section and prepared the Paleontological Mitigation Plan (PMP) for the Final EIS/EIR. Prepared a separate Paleontological Mitigation Plan and MOA with the Natural History Museum for the Wilshire/Fairfax Station Exploratory Shaft. Supervised paleontological monitoring of the shaft excavations. Cogstone also completed supplemental Archaeology and Architectural Survey Reports for the FEIS/EIR. Sub to Parsons Brinckerhoff. Project Manager/Principal Paleontologist. 2011-2013

Purple Line Extension (Westside Subway) Construction Management, Segment 1, Los Angeles County Metropolitan Transportation Authority, Los Angeles, CA. During the environmental studies phase, completed the paleontology section and prepared the Paleontological Resources Mitigation and Monitoring Plan (PRMMP) for the Final EIS/EIR for the entire 8.6 mile project. Prepared a separate PRMMP and MOA with the Natural History Museum for the Wilshire/Fairfax Station Exploratory Shaft. Supervised paleontological monitoring and fossil recovery of the shaft excavations. Currently serving as the paleontological consultant for the construction management team's oversight of the design-build of three stations from Western to La Cienega. Sub to WEST (Stantec/Jacobs JV). Project Manager/Principal Paleontologist. 2014-2024

Zanja Madre Project, Eastside Gold Line Extension, Los Angeles County Metropolitan Transportation Authority, Los Angeles, CA. During road construction to provide access and storage for trains in the rail yard, remnants of a large diameter brick conduit were uncovered. The conduit was determined to be the original water source for Old Town Los Angeles—the Zanja Madre. Slight project redesign was implemented to incorporate our recommendations for long-term preservation and protect the feature from road construction impacts. Principal Archaeologist. 2007

Eastside Gold Line Extension, Los Angeles County Metropolitan Transportation Authority, Los Angeles, CA. Federal funding was provided by the Federal Transit Authority (FTA) for extension of the Gold Line into East Los Angeles and Alhambra. Provided monitoring of the six mile alignment which resulted in a monitoring compliance report. A separate report was prepared to document the discovery, testing and data recovery of a forgotten indigent and Chinese cemetery uncovered during grading. NHPA Section 106 standards were required for all work due to federal funding. Principal Archaeologist. 2006-2012

Historic Los Angeles Cemetery, Eastside Gold Line Extension, Los Angeles County Metropolitan Transportation Authority, Los Angeles, CA. Archaeological and paleontological monitoring, testing, data recovery, identification and analysis, displays, curation and public presentations to document the discovery, testing and data recovery of a forgotten indigent and Chinese cemetery uncovered during grading. Project Manager and Principal Paleontologist and Archaeologist. 2004-2012

Red Line Segments 2 and 3, Los Angeles County Metropolitan Transportation Authority, northern Los Angeles and San Fernando Valley, Los Angeles County, CA. Performed archaeological research, data analysis, and preparation of an interpretive monitoring report based on monitoring results and artifact data testing conducted by another firm. Principal Archaeologist. 2004

East San Fernando Valley Transit Corridor EIR/EIS, Los Angeles County Metropolitan Transportation Authority, Los Angeles, CA. Paleontological sensitivity assessments and rankings for seven build alternatives for a Rapidway project along Van Nuys Boulevard between Ventura Boulevard and Foothill Boulevard. Sub to KOA Corporation. Principal Paleontologist. 2011-2014

California High-Speed Rail, Paleontological Assessments, Bakersfield to Palmdale Segment, CA. Assessed the potential impacts on paleontological resources for this segment that stretches across the southern Central Valley, the southern Sierra Nevada and the western Mojave Desert. The project crosses 90-linear miles through

public, private, and government-owned lands. The Project Study Area included direct impact areas as well as staging areas and temporary road construction areas, mostly along existing rail corridors. Prepared the Combined Paleontological Identification Report/Paleontological Evaluation Report (PIR/PER) which included the background research, results of the survey, and recommendations for mitigation. Sub to URS Corporation. Principal Paleontologist. 2009-2013

Perris Valley Line Project, Metrolink, Riverside County Transportation Commission, Riverside County, CA.

The project is a 24-mile extension of the Metrolink 91 Line. Providing paleontological and archaeological monitoring for construction of four new stations, upgrading associated track and utility relocations to extend the Metrolink connection from Riverside through Moreno Valley to Perris. The Perris Valley Line will operate primarily on track used as a freight rail line for more than 120 years. Sub to HDR Engineering. Principal Paleontologist. 2013-2016

Elvira to Morena Double Track, San Diego Associate of Governments (SANDAG), San Diego, San Diego County, CA.

SANDAG plans to construct a second main track and realignment from the vicinity of Control Point (CP) Elvira to the vicinity of CP Morena. The project will result in a 10.3 mile stretch of double track, new bridges, retaining walls and extension or replacement of existing culverts under the railroad. Project development will be closely coordinated with the Mid-Coast LRT Project, California High Speed Rail (Los Angeles to San Diego) and the Rose Canyon and Coastal Rail Trail Projects. Conducted a paleontological resources sensitivity assessment, paleontological records search at the San Diego Natural History Museum, literature review, field survey. Author of a Paleontological Resources Report addressing potential impacts and mitigation measures, if any, applicable to construction and operation of the proposed project and alternatives. Sub to HDR Engineering. Principal Paleontologist. 2012-2016

Batiquitos Lagoon Double Track, San Diego Associate of Governments (SANDAG), Leucadia, Encinitas, Carlsbad, San Diego County, CA.

Cogstone is currently conducting a paleontological resources sensitivity assessment, paleontological records search at the San Diego Natural History Museum, literature review, field survey, and will submit a Paleontological Resources Report addressing potential impacts and mitigation measures, if any, applicable to construction and operation of the proposed project. The project also involves cultural resources survey and reporting for compliance with NEPA and Section 106 of the NHPA to support the environmental constraints analysis, alternatives analysis and a preferred alternative evaluation for the preliminary engineering and environmental phase of the project. SANDAG plans to construct a 2.7-mile-long segment of double-track, grade crossing modifications, site improvements (drainage, culverts, utilities), signal modifications and a bridge crossing at Batiquitos Lagoon. Sub to Helix/HNTB. Principal Investigator. 2013-2014

LOSSAN North Rail Improvements Project, Ventura County Segment. Caltrans District 7, Division of Rail and the Federal Railroad Administration.

Oversight of two paleontological task orders. Conducted paleontological resources technical evaluations that included a review of literature, record searches, and assessment of sediments via the Potential Fossil Yield Classification (PFYC) scale. Sub Galvin Preservation Associates. Principal Paleontologist. 2011

Green Beach North Bridge Replacement (No 208.6), San Diego Associate of Governments (SANDAG) and North County Transit District, San Clemente, San Diego County, CA.

Cultural resources assessment and bridge evaluation for replacing the aging timber trestle railroad bridge that spans along the Los Angeles to San Diego (LOSSAN) rail corridor in north San Diego County on the San Onofre State Park. Sub to HDR Engineering. Principal Archaeologist. 2013

New project 2537-03 verify

RCTC/Metrolink, La Sierra Metrolink Parking Lot Extension, Riverside, Riverside County, CA. Prepared a paleontological resources memorandum. It included a record search from the San Bernardino County Museum and review of published and unpublished paleontological and geological reports. Based upon this background information, an evaluation of the resource significance/sensitivity of individual geologic formations exposed on the project site was conducted. Project specific recommendations were provided. Sub to HDR Engineering.

ROLE 2015

OCTA, Metrolink Expansion Services Project, Orange County, CA. Paleontological and Archaeological Phase I Assessments for Alton-Bake Layover Facility and El Toro Siding Extension (Irvine); Laguna Niguel Turnback Facility; Passing Side between Laguna Niguel and San Juan Capistrano; and Fullerton Station. Tasks included record searches, dual surveys, Native American consultation, site records, and report. These studies were requested by the OCTA to meet their responsibilities as the lead agency under CEQA. Sub to PB Americas. Project Manager and Principal Paleontologist and Archaeologist. 2007-2009

OCTA, East Westgate Metrolink Station Improvements, Placentia, Orange County, CA. Performed archaeological record search, pedestrian survey and prepared an Archaeological Survey Report (ASR) in compliance with NHPA Section 106 and CEQA on behalf of Caltrans District 12 and the OCTA. Sub to Galvin Preservation Associates. Principal Archaeologist. 2009

OCTA, Placentia Metrolink Station Improvements, City of Placentia, Orange County, CA. Supervised all work, wrote conclusions and recommendations of Archaeological Survey Report (ASR) for track construction and infrastructure improvements. The ASR was completed to determine the potential for project-related effects on archaeological resources during construction activities. Completed a background searches, Sacred Lands review, and survey of urbanized Area of Potential Effects (APE) boundaries was completed in compliance with Section 106 of the NHPA; supported CEQA revalidation and EA/FONSI under NEPA. The Federal Transit Administration (FTA) acted as the lead federal agency. Sub to Galvin Preservation Associates. Principal Archaeologist. 2011-2012

Fullerton Transit Center, City of Fullerton, Orange County, CA. Supervised monitoring project to demolish old manufacturing facility and replace with transit center, supervised recovery of historic archaeological features and fossils and preparation of monitoring compliance report. Project Manager and Principal Paleontologist and Archaeologist. 2012

Redlands Park Once Transit Center, Caltrans District 8, Redlands, San Bernardino County, CA. Determined the potential effects on archaeological and historical resources during construction of the proposed 4-level parking structure located on a 13-acre parcel. The Project APE is located within the boundary of the NRHP-listed Redlands Santa Fe Depot Historic District. Conducted a records and literature search, Sacred Lands search and Native American consultation. The pedestrian survey included a ground penetrating radar (GPR) investigation. Prepared an Archaeological Survey Report (ASR) and Historical Resources Evaluation Report (HRER). Sub to RBF Consulting. Principal Archaeologist. 2011

CALTRANS ON-CALL

Caltrans District 8 On-Call Cultural and Paleontological Resources, San Bernardino and Riverside Counties, CA. Oversight for paleontological surveys, literature searches, and preparation of Paleontological Identification/Evaluation Reports (PIR/PER), Paleontological Mitigation Plans (PMP), monitoring and data recovery for numerous highway and interchange improvement projects. I-10 HOV Lanes Addition; SR 91 HOV Lanes Addition; I-15 Joint Point of Entry Facility; I-15 Cenda Ditch and Wheaton Wash Bridge Replacements; SR 58 Realignment; SR 62 Pavement Rehabilitation; US 95 Vertical Curve Correction; Highway 138 Expansion; SR 247 Widening; Multiple projects traversed BLM lands and were subject to both Caltrans and federal oversight. Sub to Applied Earthworks. Principal Paleontologist. 2004-ongoing

Caltrans District 7 On-Call, Ventura County, CA. Oversight of paleontological task orders. Conducted paleontological resources technical evaluations for the LOSSAN North Rail Improvements Project, Ventura County Segment (Caltrans Division of Rail and the Federal Railroad Administration): included a review of literature, record searches, and assessment of sediments via the Potential Fossil Yield Classification (PFYC) scale. Sub to Galvin Preservation Associates. Principal Paleontologist. 2011

Note: District 6 contract changed from URS to Parsons in 2013

Caltrans District 6 On-Call, Environmental Documents and Documentation Services (06A1786), Merced, Madera, Tulare, Kings, and Kern Counties, CA. Projects were completed in Districts 6, 9 and 10 under this contract. Managed multiple task orders for paleontological resources under subcontract to Parsons

Transportation Group, including: Cherry Avenue Truck Climbing Lane PMP and monitoring; San Joaquin River Six-Lane Project, paleontological monitoring of retention basin excavation was conducted and a Paleontological Mitigation Report prepared for a 2.9 mile long freeway expansion project along SR 99; Avenue 12 Interchange Project, paleontological monitoring of interchange improvements at SR 99 south of the City of Madera; Paleontological Mitigation Plan for Olive Avenue Interchange Project at SR 99 in Fresno; Paleontological Evaluation Report for the Olancho Cartago 4-Lane Widening in Inyo. Tasks include field evaluation of sediments, monitoring, fossil recovery, and preparation of a Paleontological Mitigation Report. Principal Paleontologist. 2013-2017

Caltrans District 6 On-Call, Environmental Documents and Documentation Services, (06A1320), Merced, Madera, Tulare, Kings, and Kern Counties, CA. Projects were completed in Districts 6, 9 and 10 under this contract. Managed multiple task orders for paleontological resources including: Paleontological Mitigation Plan (PMP) and monitoring for the SR 99/ Arboleda Drive Freeway Project in Merced County; PMP, monitoring and Paleontological Mitigation Report (PMR) for the SR 41 Rehabilitation Project near Kettleman City in Kings County; paleontological resources awareness training and monitoring for the Bradley Overhead Bridge Replacement and Widening along SR 140 in Merced County; and fossil sensitivity GIS mapping for over 3,000 miles of highway in 15 counties in the Central Valley. Sub to URS. Principal Paleontologist. 2011-2013

GRADE SEPARATIONS

Avenue 66-UPRR Grade Separation, Caltrans District 8, Mecca, Riverside County, CA. Reviewed record searches and conducted a field reconnaissance survey of the 1.5-mile-long Direct Impact Area from 66th Avenue to Lincoln Street to identify and evaluate potential paleontological resources. The project is located within the Coachella Valley. It involves construction of a new bridge crossing the UPRR, Hammond Road, and SR-111. Prepared a Combined Paleontological Identification Report (PIR) and Paleontological Evaluation Report (PER) with a Paleontological Monitoring Plan (PMP). Caltrans District 8 served as the lead agency under NEPA, with the County of Riverside as lead agency under CEQA. Sub to Dokken Engineering. Principal Investigator. 2014

Avenue 52-UPRR Grade Separation, Caltrans District 8, Coachella, Riverside County, CA. Identified and evaluated paleontological resources within the proposed Avenue 52 Grade Separation over Grapefruit Boulevard Project Study Area (PSA). Performed paleontological record searches, background research, reconnaissance survey, and prepared Paleontological Identification/ Evaluation Report to Caltrans standards. Sub to ECORP. Principal Paleontologist. 2012

Palm Avenue-BNSF Grade Separation, Caltrans District 8, San Bernardino County, CA. Performed a paleontological survey and literature review for proposed work in unincorporated San Bernardino County. The project involved adding a bridge of the Burlington Northern Santa Fe (BNSF) Railroad tracks at Palm Avenue and Route 66. The study was requested by the San Bernardino Association of Governments (SANBAG) to meet responsibilities as the lead agency under CEQA. Caltrans District 8 acted as the lead agency under NEPA. Prepared a combined Paleontological Identification/Evaluation Report (PIR/PER). Sub to Applied Earthworks. Project Manager and Principal Paleontologist. 2010

Ranchero Road-BNSF Grade Separation, City of Hesperia, San Bernardino County, CA. Paleontological resources monitoring was conducted for the duration of all ground disturbing activities in native sediments greater than five feet deep. The project involved construction of an underpass for Ranchero Road beneath the BNSF Railroad line to connect the two halves of Ranchero Road. Prepared a final Paleontological Resources Compliance Monitoring Report that documented project mitigation measures. Monitoring was completed for the City of Hesperia to meet their responsibility as the lead agency under CEQA. Sub to Parsons Transportation Group. Principal Paleontologist. 2012-2013

BRIDGES

Green Beach North Bridge Replacement (No 208.6), San Diego Associate of Governments (SANDAG) and North County Transit District, San Clemente, San Diego County, CA. Cultural resources assessment and

bridge evaluation for replacing the aging timber trestle railroad bridge that spans along the Los Angeles to San Diego (LOSSAN) rail corridor in north San Diego County on the San Onofre State Park. Sub to HDR Engineering. Principal Archaeologist. 2013-ongoing

San Diego River Bridge Double Track, San Diego Associate of Governments (SANDAG), San Diego County, CA. Conducted assessment and prepared cultural and historic resources report for bridge project at the intersection of I-8 and Pacific Highway in proximity to the Mid-Coastal Light Rail APE. Sub to Simon Wong Engineering. Principal Archaeologist. 2013-2014

Environmental Consulting Services on an As-Needed Basis for FHWA-Funded Projects, County of San Diego Department of Public Works, Caltrans District 11/FHWA, San Diego County, CA. Providing cultural and paleontological services on a variety projects for new construction or improvement for roads, bridges, trails, sidewalks, safe routes to school, and parks. Sub to ICF Jones & Stokes. Principal Archaeologist. 2013-2016

Buckman Springs Road Bridge, County of San Diego Department of Public Works, Caltrans District 11, San Diego County, CA. Background research, pedestrian survey and Constraints Memo to determine the potential effects on cultural resources of construction-related activities for the bridge project in unincorporated community near Mount Empire. Sub to ICF Jones & Stokes. Principal Archaeologist. 2013

13th Street Bridge, County of San Diego Department of Public Works, Caltrans District 11, San Diego County, CA. Conducted study to determine the potential effects on cultural resources of construction-related activities for the 13th Street Bridge Project in unincorporated Ramona. Specifically, the proposed Project involves the construction of a bridge where 13th Street crosses the Santa Maria Creek. The road improvements include widening and paving the roadway to provide two standard width lanes and construction of segments of planned trails adjacent to the improvements. Submitted an Archaeological Survey Report (ASR). Sub to ICF Jones & Stokes. Principal Archaeologist. 2013

Santiago Canyon Bridges Repair, Trabuco Canyon, Orange County, CA. Provided a due diligence cultural resources record search and brief report to meet the United States Army Corps of Engineers (USACE) requirements. Cultural tasks involved archaeological Phase I assessment including record search, Native American consultation, survey, impact analysis and recommendations. The purpose of the project is to repair damages in order to extend the longevity of nine bridges. Five bridges are subject to federal laws including Section 106 because they require USACE permits. The remaining four bridges are on county land and subject to state laws. The County of Orange is the CEQA lead agency. Sub to RBF Consulting. Principal Archaeologist. 2012-2013

Temecula Park & Ride at I-15, Caltrans District 8, Temecula, Riverside County, CA. The City of Temecula proposed to construct a park and ride area for commuters interested in participating in ridesharing. The project is located at the northeast corner of Temecula Parkway and La Paz Road. In compliance with NHPA Section 106 and NEPA, and Caltrans' standards, Cogstone coordinated approval by District 8 of an Archaeological Area of Potential Effects (APE), preparation of a Historic Property Survey Report (HPSR), and an Archaeological Survey Report (ASR). Sub to Michael Baker/RBF Consulting. Principal Archaeologist. 2015

Dune Palms Bridge, Caltrans District 8, La Quinta, Riverside County, CA. The project involves replacing a low water crossing at the Coachella Valley Storm Water Channel. Cogstone conducted a record search, sacred lands search, NAHC consultation, intensive field survey, and APE mapping. Prepared a Historic Properties Survey Report (HPSR) with appended Archaeological Survey Report (ASR) to support the project design and environmental documents (PA&ED / PSR / PS&E). In addition, the project is located within known boundaries of prehistoric Lake Cahuilla, which has previously produced significant fossils. Cogstone conducted a paleontological sensitivity analysis and prepared a Paleontological Identification Report (PIR). Sub to Parsons Brinckerhoff. Principal Investigator. 2014

Date Palm Drive Bridge Widening, Caltrans District 8, Cathedral City, Riverside County, CA. Conducted cultural studies, including survey, and completed an Archaeological Survey Report (ASR) and a narrative Historic Property Survey Report (HPSR) for the Date Palm Drive Bridge Widening Project over the Whitewater

River located on approximately 20-acres in western Riverside County. Sub to RBF Consulting. Project Manager and Principal Archaeologist. 2012

Jackson Bridge Improvement, Caltrans District 8, City of Murietta, Riverside County, CA. Assessed the potential for paleontological and archaeological resources in the proposed Jackson Bridge project area. The project consisted of improvement of the existing Jackson Avenue and extending it to meet Ynez Road. The project also included a bridge over Warm Springs Creek. Performed archaeological, historic, and paleontological record searches, pedestrian survey, Native American consultation, and preparation of final archaeological and paleontological assessment report with mitigation plan. Provided preconstruction monitoring. Sub to RBF Consulting. Project Manager and Principal Archaeologist and Paleontologist. 2008 & 2013

Riverside Bridge Widening. Caltrans District 7, City of Los Angeles, Bureau of Engineering, Bridge Improvement Program, Los Angeles County, CA. The project involved design improvements, including seismic retrofitting and widening. Oversaw paleontological and archaeological record searches, Phase I survey, and Native American Consultation. Prepared final ASR to Caltrans standards for project located near Griffith Park. Sub to Galvin Preservation Associates. Project Manager and Principal Paleontologist and Archaeologist. 2007 & 2012

Araz Road Bridge Project, Caltrans District 11, Imperial County, CA. Historic Resources Evaluation Report (HRER) and appended Historic Property Survey Report (HPSR) for bridge upgrade/replacement project for this bridge known to be more than fifty years old crossing the All-American Canal. Sub to RBF Consulting. Project Manager and Principal Archaeologist. 2011

Bradley Overhead Bridge Replacement, SR 140 Improvements, Caltrans District 10, Merced, Merced County, CA. Project completed in District 10, managed by District 6. Provided paleontological monitoring during construction of new four-lane bridge, local road realignment, and storm water basin construction. Sub to URS Corporation. Project Manager and Principal Paleontologist. 2011

San Joaquin River Bridge and Freeway Widening, Caltrans District 6, Madera and Fresno, CA. Prepared a Paleontological Mitigation Plan (PMP), conducted paleontological monitoring of retention basin excavation, and submitted a Paleontological Mitigation Report (PMR) for a 2.9 mile long / six-lane widening project along SR 99. Sub to Parsons. Principal Paleontologist. Sub to Parsons. 2013

Kings River Bridge, Caltrans District 6, Tulare County Resource Management Agency, Tulare, Tulare County, CA. Performed paleontological record searches and background research; prepared a Paleontological Mitigation Plan to Caltrans District 6 requirements; conducted sensitivity training for personnel; provided on-call monitoring; and submitted a Paleontological Mitigation Report. Sub to Dokken Engineering. Project Manager and Principal Paleontologist. 2012

Cenda Ditch Bridge and Wheaton Wash Bridge Replacement, Caltrans District 8, San Bernardino County, CA. Prepared a combined Paleontological Evaluation Report and Paleontological Identification Report (PER/PIR) to identify resources within the Project Study Area located on 15.5 acres along westbound Interstate 15 east of Mountain Pass. The Bureau of Land Management (BLM) and Federal Highway Administration (FHWA) served as lead agencies. Sub to Applied Earthworks. Principal Paleontologist. 2011

Floradale Avenue Bridge Replacement Project, Caltrans District 5, Lompoc, Santa Barbara County, CA. Background research, record searches, Native American consultation and field survey to produce an Archaeological Survey Report (ASR). New prehistoric sites were discovered by the survey and two additional sites were within the project footprint. Caltrans testing recommendations for the sites must be performed before the Historic Property Survey Report (HPSR) can be submitted. Sub to Parsons Brinckerhoff. Project Manager and Principal Archaeologist. 2008-2009

NOTE: LION MT,\NOT A CALTRANS PROJECT

Lion Mountain Ranch Bridge, Ojai, Ventura County, CA. Prepared an archaeological assessment for the construction of a free span bridge over San Antonio Creek, widening and realignment of an existing road, and construction of a new road to connect to the bridge. Supervised all work, and wrote the conclusions and recommendations of an Archaeological Assessment Report for County review and approval Sub to Sespe Consulting. Principal Archaeologist. 2012

(make 2nd description for bridge focus)

Railroad Avenue Extension (Marina to Main) and Bridge, Suisan City, Solano County, CA. The city intends to construct a four-lane parkway between Marina Boulevard and Main Street and a new bridge over Union Avenue Creek to fill a gap in this cross-town arterial. Cogstone conducted a cultural resources assessment of the 1500-ft extension that parallels the UPRR right of way to the northwest. Cogstone conducted a record search, sacred lands search, Native American consultation, and an intensive field survey of the four-acre APE. A Historic Property Survey Report (HPSR) and appended Archaeological Survey Report (ASR) were prepared. Sub to PMC. Principal Archaeologist. 2014 *start 4/4/2014 approx Jan 2015, Kelly says we do have the contract but have not started work.*

ROADS/FREEWAYS

I-580 Eastbound Shoulder Running Lane on the Richmond-San Rafael Bridge, Bay Area Toll Authority (BATA)/Metropolitan Transportation Commission (MTC), Marin County, CA. As a component of the I-580 Corridor Improvement Project, this project involves reconstruction and restriping the shoulder lane as a traffic lane to be operated during PM peak hours only from I-580/US 101 Interchange in San Rafael to the I-580/Richmond Parkway Interchange in Richmond. Conducted records search, mapping and prepared Paleontological Investigation Report (PIR) in support of the project PSR, PDS and PA/ED documents. Sub to HNTB. Principal Paleontologist. 2014

Railroad Avenue Extension (Marina to Main) and Bridge, Suisan City, Solano County, CA. The city intends to construct a four-lane parkway between Marina Boulevard and Main Street and a new bridge over Union Avenue Creek to fill a gap in this cross-town arterial. Cogstone conducted a cultural resources assessment of the 1500-ft extension that parallels the UPRR right of way to the northwest. Cogstone conducted a record search, sacred lands search, Native American consultation, and an intensive field survey of the four-acre APE. A Historic Property Survey Report (HPSR) and appended Archaeological Survey Report (ASR) were prepared. Sub to PMC. Principal Archaeologist. 2014 *start 4/4/2014 approx Jan 2015, Kelly says we do have the contract but have not started work.*

CALTRANS DISTRICT 1

Schooner Gulch Rehabilitation, Caltrans District 1, Point Arena, Mendocino County, CA. The project involved improvements to a section of the Coast Highway. The highway in this location sits on a cliff of Monterey Formation, which is known to yield Miocene marine mammals, fish and invertebrates. Provided paleontological monitoring, evaluation of sediments and a paleontological monitoring report. Sub to URS Corporation. Principal Paleontologist. 2006

CALTRANS DISTRICT 3

State Highway 16 at Excelsior Road Safety Project, Caltrans District 3, Sacramento, Sacramento County, CA. Performed paleontological monitoring, evaluated the sediments and determined that no further monitoring was required; prepared the paleontological monitoring report. Sub to URS Corporation. Principal Paleontologist. 2006

Interstate 80 Median and Auxiliary Lanes Project, Caltrans District 3, Sacramento, Sacramento County, CA. The project involved adding lanes to Interstate 80 (I-80), between the Sacramento River and Del Paso Park in

the City of Sacramento. Caltrans District 3 was the lead agency under CEQA. Prepared a combined Paleontological Identification Report, Paleontological Evaluation Report (PIR/PER) and Paleontological Mitigation Plan (PMP). Sub to URS Corporation. Principal Paleontologist. 2006

US Highway 2, Walker Ridge Safety/Rehabilitation Project, Caltrans District 3, Clearlake, Lake County, CA.

The project involved improvements to US Highway 2 which passes through five sensitive formations, notably the Cache Formation with Pleistocene vertebrates. Prepared a Paleontological Mitigation Plan to Caltrans standards, including enhanced background and stratigraphy section. Arranged curation at the Museum of Paleontology at UC Berkeley where other fossils from these formations are curated. Provided paleontological sensitivity training for project personnel; monitoring of grading and excavation, collection, preparation and identification of fossils recovered. Co-authored the Paleontological Mitigation Report (to Caltrans standards). Paleontology subcontractor to URS Oakland (mitigation plan)/Pacific Legacy (monitoring). Principal Investigator. 2006

Sheldon Road/Bradshaw Road Intersection Improvements, Caltrans District 3, Elk Grove, Sacramento County, CA.

Provided an appended Archaeological Survey Report (ASR) to document the cultural resources identification efforts and a Historic Property Survey Report (HPSR) on behalf of the City of Elk Grove. Sub to PMC. Principal Archaeologist. 2013

Sheldon Road/Waterman Road Intersection Improvements, Caltrans District 3, Elk Grove, Sacramento County, CA.

The project involves evaluating two alternatives (roundabout and standard signalized intersection) for this rural intersection. Conducted records search, sacred lands search and NAHC consultation, and intensive-level pedestrian survey to support a technical report on behalf of the City. Sub to PMC. Principal Archaeologist. 2014 **verify, did we do ASR HPSR, etc**

Douglas Road/Grant Line Road Intersection Improvements, Caltrans District 3, Rancho Cordova, Sacramento County, CA.

Records search, Sacred Lands search, NAHC consultation and GIS mapping to support pedestrian survey of APE and preparation of HPSR/ASR. Sub to PMC. **SIKES PROJECT**. QA/QC. 2014

McBean Park Drive Bridge Replacement, Caltrans District 3, Lincoln, Placer County, CA.

Records search, Sacred Lands search, NAHC consultation and GIS mapping. Prepared HPSR/ASR/HRER **(in progress)** set of reports and combined Paleontological Evaluation Report/ Paleontological Identification Report (PER/PIR) for NEPA and NHPA Sec 106 compliance. Sub to Quad Knopf/Quincy Engineering. Principal Investigator. 2014

CALTRANS DISTRICT 4

South Access to Golden Gate Bridge–Doyle Drive P3 Project, FHWA/Caltrans District 4, San Francisco, CA.

Provided archaeological monitoring for a project that involved replacing the existing Doyle Drive with a 1.5-mile long six-lane facility and auxiliary lane running from the Golden Gate Bridge toll plaza to the east end of Doyle Drive in the Presidio. San Francisco County Transportation Authority was the project sponsor and the lead state agency. The Federal Highway Administration was the lead federal agency. Sub to ICF International. Quality Control. 2010-2011

South Access to Golden Gate Bridge–Doyle Drive P3 Project, FHWA/Caltrans District 4, San Francisco County Transportation Authority, San Francisco, CA.

Cultural resources monitoring of road replacement impacting this National Historic Landmark--the Presidio of San Francisco, National Park Service-Golden Gate National Recreation Area. Work areas include the previously demolished Pan Pacific International Exposition buildings from 1915 and Presidio military installation remains. Coordinating with architectural consultants monitoring building vibration and assisting with field photography to document any damages during construction. Discoveries have included isolated artifacts, building remains, foundations, and wood stave conduits. NHPA Section 106/CEQA compliance. Sub Flatiron. Principal Investigator/QAQC. 2014-2015

I-680 North Segment Express Lane Conversion, Contra Costa Transportation Authority (CCTA), Caltrans District 4, Walnut Creek, Contra Costa County, CA.

Paleontological records search, GIS mapping,

constraints analysis and Paleontological Identification Report to support project scoping, environmental documents and PS&E. Sub to HDR Engineering. Principal Investigator. 2014

SR 85 HOV Express Lanes, Caltrans District 4, San Jose, Santa Clara County, CA. Provided a Paleontological Evaluation Report (PER) and Paleontological Mitigation Plan (PMP) for an HOV to Express Lane conversion project along 33.7 miles of State Route 85 on behalf of the Santa Clara Valley Transportation Authority. Sub to URS Corporation. Principal Paleontologist. 2012

US 101 Express Lanes Project, Caltrans District 4, Santa Clara County, CA. The 38-mile linear project entails freeway widening and HOV lane conversion along US 101 and SR 85 (North). Prepared a Paleontological Evaluation Report (PER) and Paleontological Mitigation Plan (PMP), which was approved by Caltrans without revisions. Cogstone also addressed archaeological resources in an Archaeological Survey Report (ASR) under CEQA and Section 106 of the NHPA. Prepared a Phase III Data Recovery Plan. Sub to URS Corporation. Principal Paleontologist. 2012-2014

Regional Express Lanes Network Phase I Project Approval/Environmental Document Project, Caltrans District 4, Metropolitan Transportation Commission, Alameda, Contra Costa, and Santa Clara Counties, CA. Identified paleontological resources within the proposed 2,472 acre project area. Services included a paleontological record search, background research, impact analysis, and GIS constraints mapping. Prepared a Draft and Final Paleontological Identification Report (PIR). Sub to HDR Engineering. Project Manager and Principal Paleontologist. 2012-2013

CALTRANS DISTRICT 5

US 101/SR 135 Interchange Improvements, Caltrans District 5, Santa Maria, Santa Barbara County, CA. Historic Property Survey Report and Archaeological Survey Report. Sub to Parsons Brinckerhoff. Project Manager and Principal Archaeologist. 2004

US Highway 101 Interchange at Walnut Avenue Improvement, Caltrans District 5, Greenfield, Monterey County, CA. The project involved replacing the overcrossing, providing turn lanes to the ramps, and widening the off-ramps. Prepared Paleontological Identification Report. Sub to PMC. Principal Paleontologist. 2011

SR Route 246/Lompoc Widening, Santa Barbara County Association of Governments, Caltrans District 5, Lompoc, Santa Barbara County, CA. Extended Phase I/ Phase II Archaeological Studies at seven locations including pedestrian survey and testing when needed, final report incorporating new findings into previous assessment. Sub to Far Western. Project Manager and Principal Archaeologist. 2008

CALTRANS DISTRICT 6

Road 80 Widening Phases 3 & 4, Goshen to Dinuba, Tulare County Resource Management Agency, Tulare County, CA. Completed a Paleontological Identification and Evaluation Report (PIR/PER) and Paleontological Mitigation Plan (PMP). Provided paleontological monitoring during excavation activities to Caltrans District 6 requirements and submitted a Paleontological Mitigation Report. This work was requested by the County of Tulare to meet their responsibilities as the lead agency under California Environmental Quality Act (CEQA). Sub to Dokken Engineering. Principal Paleontologist. 2012

Road 80 Widening Dinuba to Visalia, Tulare County Resource Management Agency, Tulare County, CA. Conducted paleontological resources monitoring during construction activities in compliance with the project Paleontological Mitigation Plan (PMP) to Caltrans District 6 requirements; conducted sensitivity training for personnel, on-call monitoring and spot checking. Sub to Dokken Engineering. Principal Paleontologist. 2010-2011

Road 80 Widening, Phase 1, Goshen to Dinuba, Tulare County Resource Management Agency, Tulare County, CA. Performed paleontological record searches, background research, and sampling survey; prepared assessment report and mitigation plan to Caltrans District 6 requirements; and conducted sensitivity training for

personnel, on-call monitoring and spot checking. Additionally the project included a detention basin just south of Dinuba, California. This 62.5-acre basin may be excavated to depths of 10 feet. This study was requested by the County of Tulare to meet their responsibilities as the lead agency under California Environmental Quality Act (CEQA). Sub to Dokken Engineering. Principal Paleontologist. 2008

Avenue 416, El Monte Way Widening, Dinuba, Tulare County, CA. Prepared a Mitigation Monitoring Plan, conducted paleontological awareness training, and supervised spot checking and mitigation monitoring between Road 56 and Road 80 during excavation activities that exceeded 5 feet. Sub to Dokken Engineering. Principal Paleontologist. 2014-2015

SR 198 Widening and Interchange Improvements at 12th Avenue, Caltrans District 6, Hanford, Kings County, CA. Prepared Paleontological Mitigation Plan (PMP) for proposed project to widen existing bridge and build a retaining wall under the 12th Avenue interchange structure to accommodate eastbound loop on-ramp. Sub to URS Corporation. Project Manager and Principal Paleontologist. 2012

I-205 Chrisman New Interchange, Tracy, San Joaquin County, CA. Managed record search, background search, and prepared a Paleontological Identification Report (PIR) to identify any sensitive resources that may be impacted by construction activities in support of the project-related Project Approval-Environmental Document (PA-ED). The project involves construction of a new interchange along I-205 between the MacArthur Drive interchange and I-5, a 2.4-linear mile APE. Sub to Dokken Engineering. Principal Investigator. 2014

Cherry Avenue Truck Climbing Lanes, Caltrans District 6, Valley Acres & Dustin Acres, Kern County, CA. The project involves widening SR-119 from two lanes to four lanes, in and near Valley Acres and Dustin Acres. Prepared a Paleontological Mitigation Plan (PMP) and managed mitigation monitoring during construction. Principal Paleontologist. 2015

SR 99 San Joaquin River Freeway and Bridge Widening, Caltrans District 6, Madera and Fresno, CA. Prepared a Paleontological Mitigation Plan (PMP), conducted paleontological monitoring of retention basin excavation, and submitted a Paleontological Mitigation Report (PMR) for a 2.9 mile long / six-lane widening project along SR 99. Sub to Parsons. Principal Paleontologist. Sub to Parsons. 2013

SR 99 Avenue 12 Interchange Project, Caltrans District 6, south of Madera, CA. Implemented the Preliminary Paleontological Mitigation Plan (PPMP). Conducted field evaluation of sediments, monitoring, fossil recovery, and prepared a Paleontological Mitigation Report (PMR). The project involved interchange improvements between SR 99 and Avenue 12 by widening Avenue 12 and replacing the three (3) existing bridges crossing SR 99, Cottonwood Creek, and the Southern Pacific Railroad with two (2) new ones. Work included excavation for storm water retention basins (up to 14 feet deep), drainage systems, and Madera Irrigation District Canal. Principal Paleontologist. Sub to Parsons. 2014

SR 99 Olive Avenue Interchange Project, Caltrans District 6, Fresno, CA. Prepared a Paleontological Mitigation Plan (PMP) for improvements to the southbound on- and off-ramps, traffic signals and ramp metering. Principal Paleontologist. Sub to Parsons. 2014

SR 99 Widening, Caltrans District 6, South Stockton, San Joaquin County, CA. Prepared the Paleontological Mitigation Plan for widening of SR 99 from four lanes to six lanes between Arch Road Interchange and SR 4. Sub to URS Corporation. Project Manager and Principal Paleontologist. 2012

SR 178 at Morning Drive Widening Project, Caltrans District 6, Bakersfield, Kern County, CA. Six-mile road widening and interchange development project east of Bakersfield. Performed archaeological and paleontological record searches, background research, and survey; also Native American consultation. Prepared Historic Property Survey Report (HPSR) with appended Archaeological Survey Report (ASR) and a combined Paleontological Identification and Evaluation Report (PIR/PER). Lead Agency TRIP. Sub to PMC. Project Manager and Principal Paleontologist and Archaeologist. 2007-2009.

SR 178 at Morning Drive Widening Project, Caltrans District 6, Bakersfield, Kern County, CA. Six-mile road widening and interchange development project east of Bakersfield. Prepared a Preliminary and Final

Paleontological Mitigation Plan (PMP), and a safety plan per Caltrans requirements. In addition, Cogstone developed Paleontological Resources Awareness Training and conducted mitigation monitoring during ground-disturbing activities. Lead Agency TRIP. Sub to TY Lin. 2012-2017 Currently managing construction monitoring under contract to Mendoza. Project Manager and Principal Paleontologist. 2012-2015

SR 41 Rehabilitation, Caltrans District 6, Kettleman City, Kings County, CA. Eight-mile road improvement project near Kettleman City. Prepared Paleontological Mitigation Plan (PMP), implemented monitoring, recovered fossil leaves and marine mammals; prepared Paleontological Monitoring Report. Sub to URS Corporation. Project Manager and Principal Paleontologist. 2010-2011

SR 395 Olancho/Cartago 4-Lane Widening Project, central-western Inyo County, CA. Field evaluation of sediments, Paleontological Evaluation Report (PMR), premonitoring, fossil recovery, and Paleontological Mitigation Report (PMR) for 12.6-mile linear alignment. The project also involved drainage improvements and building a new bridge crossing the Los Angeles Aqueduct. Principal Paleontologist. 2014

FOSIL Geospatial Database, Caltrans Central Region. Developed GIS maps with linked database for 15 counties in central California for all paved roadways. Obtained and/or digitized geological maps, performed research on geological formations and fossil localities sufficient to assign Potential Fossil Yield Classification rankings to all rock units, developed PFYC layer, mapped fossil localities, developed map pop-ups with information at the cursor, and prepared metadata. Sub to URS Corporation. Project Manager and Principal Paleontologist. 2010-2011

CALTRANS DISTRICT 10

Claribel Road at Roselle Avenue Intersection Project, Caltrans District 10, Stanislaus County Department of Public Works, Riverbank, Stanislaus County, CA. Record search, sacred lands search, NAHC consultation intensive-level pedestrian archaeological survey and as well as coordination and approval by District 10 of an APE map. Prepared a Historic Property Survey Report (HPSR) and Archaeological Survey Report (ASR). Sub to Foothill Associates. Principal Investigator/Quality Control. 2014-2015

SR 99 Widening at Arboleda Drive and Le Grand Road, Caltrans District 10, Merced, Merced County, CA. Project completed in District 10, managed by District 6. Prepared a Paleontological Mitigation Plan (PMP) that addresses the proposed work to expand SR-99 from 4 lanes to 6 lanes and improvements to multiple interchanges. Provided paleontological monitoring at ~128 localities and 1,667 fossils were recovered in five months of excavation for detention basins. Sub to URS Corporation. Project Manager and Principal Paleontologist. 2012

SR 99 Widening and New Interchange at Plainsburg, Caltrans District 10, South of Merced, Merced County, CA. Project completed in District 10, managed by District 6. Prepared the Paleontological Mitigation Plan (PMP). The proposed project consists of expansion of the existing 4-lane highway to a 6-lane highway (SR 99) and construction of a new interchange. Sub to URS Corporation. Project Manager and Principal Paleontologist. 2012

SR 88 Improvements near Jackson Creek, Caltrans District 10, near Lodi, Amador County, CA. Project completed in District 10, managed by District 6. Performed field visit and additional research to revise an outdated Paleontological Mitigation Plan for 5.5 miles. Sub to URS Corporation. Project Manager and Principal Paleontologist. 2012

Savage Way Rehabilitation, Caltrans District 10, San Joaquin and Calaveras Counties, CA. Project completed in District 10, managed by District 6. The project involved paleontological monitoring during construction due to the potential to encounter scientifically significant vertebrate remains during excavation; preparation of a Paleontological Monitoring Report. Sub to URS Corporation. Project Manager and Principal Paleontologist. 2012-2013

CALTRANS DISTRICT 7

Whittier Boulevard / I-605 Arterial Hot Spot Improvements, Environmental Clearance and Preliminary Engineering for Three Intersection Improvements, Whittier, Los Angeles County, CA. A Feasibility Study, the Arterial Intersection Congestion Analysis Report, was conducted by LA Metro and the Gateway Cities Council of Governments (CGCOG) that identified 40 top priority projects, including three intersections in the City of Whittier (Whittier Boulevard/Santa Fe Springs Road, Whittier Boulevard/Painter Avenue, and Whittier Boulevard/Colima Road). Cogstone conducted cultural and paleontological resources technical studies to support a Project Study Report-Project Development Support (PSR-PDS) for improvements to these three intersections. The PSR-PDS will assist stakeholders (Metro, Caltrans, the GCCOG and local communities) to evaluate issues and achieve consensus on the purpose and need and scope for the project in order to move forward to the Project Approval and Environmental Document (PA/ED) phase. Conducted archaeological surveys and prepared reports for each intersection; prepared ASR, HPSR, HRER, and HRCR reports; conducted a paleontological survey for the Colima intersection and prepared PIR and PER reports. Services included records search, Sacred Lands search, NAHC consultation, APE mapping, built-environment inventory, and DPR series 523 forms to meet Caltrans requirements. Sub to V&A and RBF Consulting. **ROLE** 2015

Pleasant Valley Road at Sturgis Road Improvements Design and Environmental Services, Caltrans District 7, County of Ventura Public Works Agency, Oxnard, Ventura County, CA. **This project is in start-up phase.** Cogstone is preparing an APE map, conducting a literature/records search, background research, Native American consultation, and detailed field survey of the project site to support a HPSR/ASR. Sub to RBF Consulting. Principal Archaeologist. 2014

Wheeler Canyon Road Bridge Improvement, Caltrans District 7, County of Ventura Public Works Agency, Santa Paula, Ventura County, CA. The project involves improvements to the bridge and channel. Records search, NAHC consultation, field survey, preparation of a HPSR/ASR, and APE map. NHPA Sec. 106 and NEPA compliance. Sub to RBF Consulting. Principal Archaeologist. 2014

Adolpho Street Widening Project, Caltrans District 7, Camarillo, Ventura County, CA. Conducted a literature search, Native American Sacred Lands search, and pedestrian survey of the approximately 2-acre area of potential effects (APE); prepared Archaeological Survey Report (ASR) for Caltrans. Sub to Galvin Preservation Associates. Principal Archaeologist. 2010

Rice Avenue and Channel Islands Blvd Intersection Improvement, Caltrans District 7, unincorporated Ventura County, CA. Performed archaeological record search, sacred lands files search, and field survey and prepared an Archaeological Survey Report (ASR). Sub to Galvin Preservation Associates. Principal Archaeologist. 2011

Rice Avenue and Wooley Road Intersection Improvement, Caltrans District 7, Oxnard, Ventura County, CA. Prepared an Archaeological and Paleontological Literature Study report for a 2-acre intersection improvement project. Sub to Galvin Preservation Associates. Principal Archaeologist and Paleontologist. 2011

Santa Rosa Road Improvements, Caltrans District 7, Camarillo, Ventura County, CA. Performed archaeological record searches, sacred lands file search, and pedestrian field survey and prepared an Archaeological Survey Report (ASR) for a road widening and improvement project located on 5.85 acres. Sub to Galvin Preservation Associates. Principal Archaeologist. 2011-2012

East 20th Street, Walnut Avenue and Alamitos Avenue Intersection Improvements, Caltrans District 7, City of Long Beach, Los Angeles County, CA. Construction of a new 4-way signalized intersection, new detention basin, and realignment of both avenues. Record search, sacred lands search, NAHC consultation, pedestrian survey, APE map, prepare ASR/HPSR/HRER for FHWA/Caltrans under compliance with Section 106. Sub to RBF. Principal Investigator for Archaeology. 2014

Alamitos Park, Caltrans District 7, City of Long Beach, Los Angeles County, CA. The City proposes to develop Alamitos Park and associated roadway improvements near the intersection of Martin Luther King Jr. Avenue and 7th Street. Prepared ASR/HPSR/HRER, including an Area of Potential Effects (APE) map of the 23.6-acre

project for FHWA/Caltrans under compliance with Section 106. Sub to RBF Consulting. Principal Archaeologist. 2013-2014

Avenue S, Caltrans District 7, Palmdale, Los Angeles County, CA. Conducted an assessment to determine the potential effects on archaeological and historical resources by proposed construction-related activities during improvements to Avenue S between 30th Street East and 45th Street East. Prepared an Archaeological Survey Report (ASR) and Historic Property Survey Report (HPSR) to Caltrans standards. The archaeological record search determined that there are no known resources and no known sacred lands within the Area of Potential Effects boundaries. Sub to Psomas. Principal Archaeologist. 2010-2011

Avenue R, Caltrans District 7, Palmdale, Los Angeles County, CA. Performed archaeological and historical record searches, sacred lands files search, field survey, and reporting to Caltrans standards for an intersection improvement at East Avenue R and 10th Street East. Sub to Galvin Preservation Associates. Principal Archaeologist. 2011

Soledad Canyon Road Maintenance and Upgrade, Los Angeles County Department of Public Works, Los Angeles, CA. Performed an archaeological record search and literature review, conducted a pedestrian survey (negative results), and wrote an assessment report with recommendations. Sub to URS Corporation. Principal Archaeologist. 2004-2005

Aliso Canyon Bridge Replacement Project, Los Angeles County Department of Public Works, Los Angeles, CA. Performed an archaeological record search and literature review; a pedestrian field survey feature assessment within the Project Area of Potential Effect (APE); and provided an evaluation report with recommendations for mitigation. The bridge had been destroyed by wildfire. Principal Archaeologist. 2004-2005

US 101/Palo Comado Canyon Road Bridge and Interchange Improvement, Caltrans District 7/FHWA, Agoura Hills, Los Angeles County, CA. Completed Archaeological Survey Report (ASR), Historic Property Survey Report (HPSR), Paleontological Identification and Evaluation Report (PIR/PER), and Paleontological Mitigation Plan (PMP). Sub to Galvin Preservation Associates. Project Manager and Principal Paleontologist and Archaeologist. 2011

High Desert Corridor/ SR-138 Widening Project, Caltrans District 7 On-Call (07A3145)/LA Metro, Los Angeles and San Bernardino Counties, CA. This project proposed by Caltrans and Metro involves construction of a new, approximately 63-mile long, east-west freeway/expressway and rail line between SR-14 in Los Angeles County and SR-18 in San Bernardino County. Managed intensive-level pedestrian survey, prepared a Historic Property Survey Report, Historical Resources Evaluation Report, Archaeological Survey Report, Extended Phase I Testing Report, and Finding of Effect and a combined Paleontological Identification and Evaluation Report. Cogstone conducted Phase II/III testing and data recovery at the three sites that will be directly impacted by the project. Compliance with Section 106 of the NHPA and CEQA are required. Sub to Parsons Transportation Group. Principal Investigator. 2014-ongoing

SR-138 North Corridor Improvements, On-Call Environmental Services (07A3144), Caltrans District 7, Los Angeles County, CA. Preparing a combined Paleontological Identification Report (PIR) and Paleontological Evaluation Report (PER) for improvements to a 35-mile segment of SR-138 from SR-14 north of Lancaster to I-5 south of Gorman. The APE is 600 feet wide. Caltrans, in cooperation with Metro, is evaluating three build alternatives. Sensitivity for paleontological resources was determined using the Caltrans sensitivity scale and the Potential Fossil Yield Classification (PFYC) system. Formations in the project area are not sensitive for fossil resources. Cogstone recommended preparation of a Paleontological Mitigation Plan. Sub to ECORP Consulting. Principal Paleontologist. 2014

CALTRANS DISTRICT 8

I-10 Grove Avenue Interchange Improvements, Caltrans District 8, Ontario, San Bernardino County, CA.

Managed literature and Sacred Lands searches, Native American consultation, and survey for the 22.6 acre APE. Currently preparing an Archaeological Survey Report (ASR) for the proposed new interchange. NHPA Section 106 compliance. Sub to Parsons. Principal Investigator. 2015-ongoing

McCall Boulevard I-215 Interchange Improvement, Caltrans District 8, Menifee, Riverside County, CA.

Prepared a constraints report documenting an initial assessment of cultural and paleontological resources that may be impacted by the project. Prepared the project Preliminary Environmental Analysis Report (PEAR) cultural sections to support development of the Project Study Report-Project Development Study (PSR-PDS) for Caltrans clearance on behalf of the City. Records search, sacred lands search, NAHC consultation, field survey. Sub to Michael Baker/RBF Consulting. Principal Investigator. 2014

East Palm Canyon Drive Widening, Caltrans District 8, Cathedral City, Riverside County, CA. Completed a cultural resources technical study consisting of an Archaeological Survey Report (ASR) and a narrative Historic Property Survey Report (HPSR). The project involves widening East Palm Canyon Road from Canyon Plaza Drive to approximately 1,100 feet west of Perez Road. The APE is on Agua Caliente Indian Reservation land; Section 106 compliance, and consultation with Tribal Historic Preservation Officer (THPO) in lieu of SHPO. Sub to RBF Consulting. Principal Archaeologist/Quality Control. 2012-2013

SR-138 Palmdale Boulevard PA/ED (Sierra Highway), Caltrans District 2, Palmdale, Los Angeles County, CA. Conducted records search, Sacred Lands search, NAHC consultation, field survey, mapping Prepared an Archaeological Survey Report (ASR) and Historic Property Survey Report (HPSR) to Caltrans standards. Sub to Parsons. Principal Archaeologist. 2014

Newport Road Expansion Project, Riverside County Land and Transportation Management Agency, near Menifee, Riverside County, CA. Paleontological and archaeological monitoring, artifact recovery, identification and analysis, and compliance report for road extension project. Project Manager and Principal Paleontologist and Archaeologist. 2005-2006.

Palm Springs Signal, Caltrans District 8, Palm Springs, Riverside County. Performed archaeological and historical resources assessment, submitted an Archaeological Survey Report (ASR) and Historic Property Survey Report (HPSR) for 34 proposed traffic signal improvement locations. Sub to RBF Consulting. Principal Archaeologist. 2011-2012

Victoria Avenue, Historic Property Survey Report and Finding of Effect, Caltrans District 8, Riverside, Riverside County, CA. The City of Riverside, in cooperation with the FWHA, proposed to relocate existing overhead electrical wires underground along a 0.75 mile section of Victoria Avenue, a National Register listed property. Section 106 compliance; a Historic Property Survey Report (HPSR) was prepared that concluded with a Finding of No Adverse Effect (FOE) with Standard Conditions – Rehabilitation. Sub to RBF Consulting. Quality Control. 2010

SR 91/SR 71 Interchange Improvement Project, RCTC/Caltrans District 8, near Corona, Riverside County, CA. The Riverside County Transportation Commission (RCTC), in cooperation with Caltrans District 8, proposes to improve the SR-91/SR-71 interchange by constructing a new direct flyover connector from eastbound (EB) SR-91 to northbound (NB) SR-71. Additional improvements include modifying or constructing new drainage facilities. Prepared a Paleontological Mitigation Plan (PMP) to provide guidelines for paleontological monitoring, fossil recovery and subsequent studies that may be needed to offset adverse impacts to significant paleontological resources during construction. Sub to Parsons Transportation Group. Principal Paleontologist. 2013-2014

Highway 138 West Expansion, Caltrans District 8, San Bernardino County, CA. The project was expansion (widening and utility installation) of Highway 138 from Cajon to the Los Angeles County line extending more than 22 linear miles. Performed paleontological record searches and survey and prepared the combined cultural resources assessment report and mitigation plan. Sub to **Applied Earthworks**. Project Manager and Principal Paleontologist. 2004-2007

Highway 138 West Expansion, Caltrans District 8, San Bernardino County, CA. The project was expansion (widening and utility installation) of Highway 138 from Cajon to the Los Angeles County line extending more than 22 linear miles. Developed and implemented a sampling plan in lieu of monitoring, recovered fossils, prepared and identified fossils, prepared the final report including interpretation and arranged curation of significant fossils recovered. Sub to **ECORP**. Principal Paleontologist. 2004-2007

Highway 138 Widening, Caltrans District 8, San Bernardino County, CA. The project involved widening SR-138 from I-15 to SR-18. It entailed widening from 2-lanes to 4-lanes and realigning portions of the mainline. Prepared a combined Paleontological Identification and Evaluation Report (PIR/PER) and Paleontological Mitigation Plan (PMP). Sub to Applied Earthworks. Principal Paleontologist. 2009

Interstate 15 Joint Point of Entry Facility, Caltrans District 8/FHWA, east of Yermo, San Bernardino County, CA. Prepared a combined Paleontological Identification and Evaluation Report (PIR/PER) for the widening and rerouting of a 3.9 mile segment of I-15 to accommodate new agricultural inspection and commercial vehicle enforcement facilities west of the California-Nevada border. The project also involved survey of ~85 acres of BLM land using a BLM Class II survey strategy. Sub to Applied Earthworks. Principal Paleontologist. 2011

La Mesa/Nisqualli Road Interchange at I-15, Caltrans District 8, Victorville, San Bernardino County, CA. Oversaw Phase I archaeological survey, record search, and Native American consultation; prepared supplemental Archaeological Survey Report (ASR), and Historic Property Survey Report (HPSR). Sub to Parsons Brinckerhoff. Project Manager and Principal Archaeologist. 2009-2010

US -5 Vertical Curve Correction, Needles, Caltrans District 8, San Bernardino County, CA. Prepared a combined Paleontological Identification and Evaluation Report (PIR/PER) with mitigation plan for 0.43-mile segment south of Needles. Prepared for Caltrans District 8 and the BLM Needles Field Office. Sub to Applied Earthworks. Principal Paleontologist. 2011

Yucca Loma Bridge/Yates Road/Green Tree Blvd. Improvements, Apple Valley, San Bernardino County, CA. Supervised paleontological monitoring during ground disturbing activities and will prepare a compliance report. The project completes an east/west corridor in the Victor Valley Region. It involves construction of a new bridge over the Mojave River, widening of both highways, and new pedestrian/bike path. Sub to Dokken Engineering. Principal Paleontologist. 2014

SR 62 Pavement Rehabilitation and Widening, Caltrans District 8/FHWA, Yucca Valley, San Bernardino County, CA. Conducted reconnaissance survey of the 4.9 linear mile project area and prepared a combined Paleontological Identification and Evaluation Report (PIR/PER) to Caltrans standards. Sub to Applied Earthworks. Principal Paleontologist. Principal Paleontologist. 2011

SR 247 Widening, Caltrans District 8, Yucca Valley, San Bernardino County, CA. The project involved widening SR 247 between Yucca valley and Flamingo Height. Significant upgrades including shoulders, paving, removal of existing planting, and adjustments to the drainage system were involved. Performed paleontological record search, reconnaissance survey, and prepared a paleontological assessment report. Prepared combined Paleontological Identification/Evaluation Report (PIR/PER) a mitigation plan. Caltrans District 8 acted as lead agency under CEQA. Sub to Applied Earthworks. Principal Paleontologist. 2009

Interstate 10 HOV and Express Lanes Alternatives Update PIR PER, Caltrans District 8/SANBAG, Pomona to Yucaipa, San Bernardino County, CA. Performed paleontological record search, literature review, reconnaissance survey, and prepared combined Paleontological Identification and Evaluation Report (PIR/PER). Sub to Parsons. Principal Paleontologist. 2014

Interstate 10 HOV Lane Addition Project, Caltrans District 8/SANBAG, Redlands, San Bernardino County, CA. Performed paleontological record search, literature review, reconnaissance survey, and prepared combined Paleontological Identification and Evaluation Report (PIR/PER). Sub to Applied Earthworks. Principal Paleontologist. 2009

SR 58 Realignment, Caltrans District 8/SANBAG, Barstow, San Bernardino County, CA. The project involved widening and realignment of SR 58 to provide four lanes of expressway or freeway near Hinkley. Prepared a combined Paleontological Identification and Evaluation Report (PIR/PER) in 2010. Prepared Paleontological Mitigation Plan (PMP) and conducted data recovery. 2013-2014. Sub to Applied Earthworks. Project Manager and Principal Paleontologist. 2010-2014

SR 58 Realignment, Caltrans District 8/SANBAG, Kramer, San Bernardino County, CA. The project involved widening and realignment of SR 58 to provide four lanes of expressway or freeway from the Kern County Line to east of Kramer. Prepared a combined Paleontological Identification and Evaluation Report (PIR/PER). Sub to Applied Earthworks. Project Manager and Principal Paleontologist. 2009

SR 91 HOV Lane Addition, Caltrans District 8/FHWA, Riverside County, CA. Identified and evaluated paleontological resources within the proposed improvements Project Study Area (PSA) for the existing State Route 91 between the Interstate 60/ State Route 91/ State Route 215 interchange to the Adams Street bridge in the City of Riverside. The SR-91 corridor to be affected extends for 6 miles between post mile marker (PM) 15.6 and 21.6. Caltrans District 8 was the lead agency for the project under NEPA and CEQA. Cogstone performed paleontological record searches, conducted a field survey, and prepared combined Paleontological Identification and Evaluation Report (PIR/PER) and Paleontological Mitigation Plan (PMP) reports. Cogstone is currently conducting paleontological monitoring during construction and excavation activities. Sub to Applied Earthworks. Project Manager and Principal Paleontologist. 2011-2014

SR 91 Corridor Improvements, Corridor A Prado Alignment Study, Preliminary Paleontological, Cultural, and Historical Resources Assessment, Riverside County Transportation Commission, Riverside County, CA. Assessed the impact of the proposed SR 91 Corridor Improvement project on cultural and paleontological resources in the surrounding area. The RCTC had proposed the construction of a four-lane, elevated freeway between SR 241 and Interstate 15. Performed paleontological and archaeological record searches, Native American consultation, archaeological and paleontological surveys, evaluation of previously-recorded sites, evaluation of resources and potential impact and prepared a final report for the SANBAG. Sub to Parsons Brinckerhoff. Project Manager and Principal Paleontologist and Archaeologist. 2006.

Caltrans District 12

SR 91 Westbound Widening, Caltrans District 12/ Orange County Transportation Authority (OCTA), Anaheim and Fullerton, Orange County, CA. Paleontological and historical resources. Prepared the Paleontological Mitigation Plan (PMP) and a supplemental Historical Resources Compliance Report (HRCR). Caltrans District 12, in cooperation with the OCTA, proposed to widen westbound SR-91 from SR-57 to I-5. The 4.5- mile corridor traverses through the City of Anaheim and the City of Fullerton. Sub to RBF Consulting. Project Manager and Principal Paleontologist and Archaeologist. 2012

I-605 Katella Avenue Interchange Constraints Analysis, Caltrans District 12/Orange County Transportation Authority (OCTA), Los Alamitos, Los Angeles County, CA. Conducted an initial assessment of cultural and paleontological resources constraints for the proposed project in support of the Preliminary Environmental Analysis Report (PEAR). The Project area consists of the PEAR Project Area and the Future City Project Area. The desktop survey consisted of record searches, Sacred Lands search, and NAHC consultation. Prepared a constraints report with recommendations for the SER-compliant document. Sub to RBF. Principal Investigator. 2014

2637 Grand Canal Bridge along Park Avenue, Caltrans District 12, Balboa Island, Newport Beach, Orange County, CA. The City is planning to demolish this bridge and replace it as it is no longer safe. Caltrans D12 will be the lead agency for NEPA and the City for CEQA. (need PD, NTP 5/2014) Record searches, literature search, sacred lands search, Native American consultation, pedestrian survey, Historic Property Survey Report (HPSR) with appended Archaeological Survey Report (ASR) and incorporating results of HRER (Pam Daly), Sub to RBF. Principal Investigator. 2014

SR 57 Northbound Widening Project, Caltrans District 12/ Orange County Transportation Authority (OCTA), Fullerton, Orange County, CA. Supervised paleontological monitoring and prepared the mitigation report for the project located along SR-57 between Lambert and Yorba Linda Avenue under contract to CC Myers. Project Manager and Principal Paleontologist. 2011-2012

Gene Autry Way Rehabilitation, Caltrans District 12, Anaheim, Orange County, CA. Provided paleontological resources sensitivity training, mitigation monitoring, and reporting for the westward expansion of Gene Autry Way under contract to C.C. Meyers. Principal Paleontologist. 2012

East Warner Avenue Widening, Caltrans District 12, Santa Ana, Orange County, CA. Determined the potential effects on archaeological resources of proposed project. This study was requested by the City of Santa Ana to meet their responsibility as the lead agency under the CEQA. Performed archaeological record search, Native American consultation, pedestrian survey, and prepared final assessment report. Sub to Placeworks (formerly The Planning Center). Principal Archaeologist. 2009

I-405/Sand Canyon Improvements, Caltrans District 12, City of Irvine, Orange County, CA. Paleontological and archaeological monitoring of interchange improvements. Monitoring was required by the City of Irvine to meet their responsibility as the lead agency under CEQA. Only portions of the project occurring in native soils were monitored and no resources were uncovered. A brief monitoring report was completed as required by the contract. Principal Paleontologist and Archaeologist. 2002

Pacific Coast Highway Underground Utilities, Caltrans District 12, City of Huntington Beach, Orange County CA. Oversaw archaeological and historical resources literature search, pedestrian survey and Native American consultation for 11.5-acre area of potential effects (APE). Prepared HPSR and appended Archaeological Survey Report (ASR) associated with the underground utilities corridor. Sub to Psomas Engineering. Project Manager and Principal Archaeologist. 2010

Westminster Avenue Improvements Project, Caltrans District 12, City of Seal Beach, Orange County, CA. Literature and Sacred Lands searches, NAHC consultation, field survey, and technical reports (HPSR/ASR/HRER/FOE) for roadway and bicycle lane improvements. NHPA Section 106 compliance. Co-author/Quality Control. 2013-2014

University Drive Widening, Caltrans District 12, City of Irvine, Orange County, CA. Conducted restraints analysis within the 26-acre APE. The project involved a technical study, record search, NAHC consultation, and an intensive-level pedestrian survey of all alternatives to determine potential effects on archaeological, historical and paleontological resources. A final report was submitted to the City of Irvine to support the project EIR under CEQA. The project involves adding a third travel lane and sidewalk in both directions. It is located on University Drive between SR 73, MacArthur Boulevard, and Campus Drive, adjacent to the University of California, Irvine Campus and the San Diego Creek. Sub to RBF Consulting. Principal Investigator. 2013

I-405/Jamboree Southbound Off Ramp Improvements, Caltrans District 12, Irvine, Orange County, CA. Records search, NAHC consultation and technical reports (ASR/HRCR). Due to the highly disturbed nature of the project area, as visible on project aeriels, no physical survey was conducted. Resulted in Finding of No Impact. Sub to RBF Consulting. Principal Archaeologist. 2013

I-5/La Paz Road Improvements, Caltrans District 12, Laguna Hills and Mission Viejo, Orange County, CA. Oversight for archaeological record searches, Native American consultation, and reconnaissance survey within Area of Potential Effects (APE) for road widening project that involved extending portions of La Paz Road under Interstate 5 and the adjacent ramps to relieve traffic congestion. Prepared Archaeological Survey Report (ASR), and Historic Property Survey Report (HPSR) for OCTA and Caltrans. Sub to Parsons Brinckerhoff. Project Manager and Principal Archaeologist. 2009

I-5/La Novia Avenue/Valle Road Intersection Improvements Project, Caltrans District 12, City of San Juan Capistrano, Orange County, CA. Background research, Cultural Resources Technical Report, Initial Study Cultural Resources Section. Sub to Michael Baker/RBF Consulting. Principal Paleontologist. 2014

I-5 HOV Lane Extension, Caltrans District 12, San Juan Capistrano, Dana Point, San Clemente, Orange County, CA. Provided a Paleontological Mitigation Plan (PMP) and an updated evaluation. Sub to ECORP. Principal Investigator. 2012

I-5/Ortega Highway Interchange Improvements Project, Caltrans District 12, San Juan Capistrano, Orange County, CA. Conducted a paleontological literature study for the evaluation of the known geology and paleontological resources to determine the potential impacts of the proposed project on fossils and to formulate an appropriate mitigation plan for Caltrans District 12 and the FHWA. The project consisted of realignment and expansion of ramps at the interchange. Sub to ECORP. Principal Investigator. 2006

SR 91 Westbound Widening, Caltrans District 12/ Orange County Transportation Authority (OCTA), Anaheim and Fullerton, Orange County, CA. Paleontological and historical resources. Prepared the Paleontological Mitigation Plan (PMP) and a supplemental Historical Resources Compliance Report (HRCR). Caltrans District 12, in cooperation with the OCTA, proposed to widen westbound SR-91 from SR-57 to I-5. The 4.5- mile corridor traverses through the City of Anaheim and the City of Fullerton. Sub to RBF Consulting. Project Manager and Principal Paleontologist and Archaeologist. 2012

Caltrans District 11

SR 94 Improvement Project, between Jamacha and Jamul, Caltrans District 11, San Diego County, CA. Prepared a combined Paleontological Identification Report and Paleontological Evaluation Report (PIR/PER) to assess the potential for impacting significant paleontological resources associated with road improvements at six intersections along SR 94. Sub to Environmental Data Systems. Principal Paleontologist. 2013

TRAILS & BIKE PATHS

Rancho Cordova Elementary School Bicycle and Pedestrian Improvements, City of Rancho Cordova Department of Public Works, Caltrans District 3, Rancho Cordova, Sacramento County, CA. The project involves constructing sidewalks, crosswalks, and Class III bike routes connecting to Zinfandel Dr. and the Cordova Lane neighborhood within the City's existing right-of-way. Services include a records search, NAHC consultation, intensive-level pedestrian survey of the 1.2-acre APE, cultural resources inventory, and preparation of an Archaeological Survey Report (ASR). Sub to PMC. **ROLE.** 2015

Mather Rails to Trails, Rancho Cordova Public Works Department, Caltrans District 3, Sacramento County, CA. HPSR/ASR/HRER, APE map, record search, NHPA Sec 1056, NEPA, NAHC consultation. Local assistance project. Sub to PMC. **ROLE.** 2015

Anza Trail Corridor Plan Due Diligence, San Luis Obispo Council of Governments, San Luis Obispo, CA. The project involves construction of a Class One Bike Path. Conducted cultural and paleontological resources records search. Sub to Questa Engineering. Principal Investigator. 2015

Lama Park Fitness Path, County of San Diego Department of Public Works, Spring Valley, San Diego County, CA. Improvements include a walking path, stream crossing, and exercise stations within the existing developed park. Background research, field survey, and report. Sub to ICF. Principal Archaeologist. 2014

Lizards Trail Improvements, Laguna Coast Wilderness Park, OC Parks, Laguna Beach, Orange County, CA. Cogstone completed a record search, Sacred Lands search, NAHC consultation, and cultural resources Phase I pedestrian survey of the 1.2-mile project area. Submitted a technical report for this trail improvement project, which will open an unauthorized segment for public use, to fulfill CEQA requirements. Sub to Michael Baker/RBF Consulting. Principal Investigator. 2014

I-405 Freeway Trail Lighting Improvements, Caltrans District 12, City of Irvine, Orange County, CA. Literature and Sacred Lands searches, extended Native American consultation, hydrogeological study of San

Diego Creek Watershed, survey, and technical reports (HPSR and ASR) for improvements to lighting along existing bikeway. NHPA Section 106 compliance. Sub to RBF. Quality Control. 2014

Peters Canyon Off-Street Bikeway Lighting Improvements, Caltrans District 12, City of Irvine, Orange County, CA. Literature and Sacred Lands searches, extended Native American consultation, hydrogeological study of San Diego Creek Watershed, survey, and technical reports (HPSR and ASR) for improvements to lighting along existing bikeway. NHPA Section 106 compliance. Sub to RBF. Quality Control. 2014

Bikeway Gap Closure Project, San Juan Capistrano, Orange County, CA. Conducted an initial assessment of cultural and paleontological resources constraints to determine the potential effects on resources of bikeway improvements throughout the city of San Juan Capistrano. Supervised archaeological and paleontological record searches and Native American consultation. The Project involves seven bikeway gap connections. Sub to Environmental Intelligence. Principal Investigator. 2013

Westminster Boulevard Roadway and Bike Lane Improvements Project, Caltrans District 12, Seal Beach, Orange County, CA. Literature and Sacred Lands searches, survey, and technical reports (HPSR/ASR/HRER/FOE) for roadway and bicycle lane improvements. NHPA Section 106 compliance. Quality Control. 2014

Rose Creek Bike Trail, San Diego Associate of Governments (SANDAG), San Diego County, CA. Conducted a cultural resources constraints analysis and prepared an Archaeological Survey Report (ASR), Historic Property Survey Report (HPSR) and Historic Resources Evaluation Report (HRER). The trail is adjacent to I-5 and within proximity to the Mid-Coastal Light Rail APE. Sub to Nasland Engineering. Principal Archaeologist. 2012-2014

Santiago Creek Bike Trail Improvements, Caltrans District 12, City of Santa Ana Department of Public Works, Santa Ana, Orange County, CA. Performed an archaeological record search, field survey, Native American consultation, and prepared an Archaeological Survey Report (ASR) and a Historic Property Survey Report (HPSR) for Caltrans. This study was to determine the potential effects on cultural resources for improvements to the bike trail. Sub to RBF Consulting. Project Manager and Principal Archaeologist. 2008

Edison Right-of-Way Bikeway, Caltrans District 12, Anaheim, Orange County, CA. Directed record searches, background research, survey and prepared Historic Property Survey Report (HPSR) for proposed bike trail for Caltrans. Sub to RBF Consulting. Project Manager and Principal Archaeologist. 2010

San Gabriel River Bike Trail Rehabilitation, Los Angeles County, CA. Performed archaeological record search and literature review, pedestrian survey, and preparation of final assessment report with mitigation plan for the County. The project consisted of rehabilitating approximately 6.5 miles of the existing bicycle path from Whittier Narrows Dam in Pico Rivera to Florence Avenue in Downey involving resurfacing, reconstruction, construction of the bicycle path pavement, and provision of the safety enhancements. Principal Archaeologist. 2003-2004

Bommer Canyon Interpretive Nature Trail, City of Irvine, Orange County, CA. Performed paleontological and archaeological record searches, Native American consultation, pedestrian survey and prepared an assessment report for the City of Irvine. Sub to Templeton Planning Group. Project Manager and Principal Paleontologist and Archaeologist. 2007

Pacific Coast Highway (SR 1) Bike Path Project, Caltrans District 12, Seal Beach, Orange County, CA. Performed a paleontological and archaeological literature review, background research, an paleontological and archaeological survey, and prepared a final assessment report with recommendations for mitigation for an interim Class I bikeway / regional path to be built along the Pacific Coast Highway (State Route 1) from Seal Beach Boulevard to Anderson Street. Project Manager and Principal Paleontologist and Archaeologist. 2003

Lemon Hill Recreational Trail, City of Villa Park, Orange County, CA. Determined the potential effects on cultural resources for construction of the proposed trail on the west side of Lemon Street between Santiago

Blvd. and Valley Drive. Performed archaeological record search and background research, pedestrian survey, and prepared final assessment report (negative results) with recommendations for mitigation. This study was requested by the City of Villa Park to meet their responsibilities as the lead agency. Principal Archaeologist. 2008

Borrego Wash Maintenance and Trail Repair Project, Whiting Ranch Wilderness Park, Lake Forest, Orange County, CA. Performed paleontological and archaeological record searches, field survey, sacred lands file search, and reporting. Relocated prehistoric bedrock mortar site and made recommendations for future mitigation. This study was requested by the County of Orange to meet their responsibility as the lead agency under the CEQA. The project involved restoring entrance access and repairing multiple trail and road washouts within the park, thus making the park safe for recreational use again. Sub to RBF Consulting. Principal Paleontologist and Archaeologist. 2011-2012