

PROPOSAL FOR ARCHAEOLOGICAL SERVICES

FOR EASTLAKE ELEMENTARY SCHOOL SAFE ROUTES TO SCHOOL
AND COMMUNITY DEVELOPMENT BLOCK GRANT PROJECT,
LAKE COUNTY, CALIFORNIA

Submitted to:

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Lake County Department of Public Works
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- Attachment A. Key Staff Resumes.
- Attachment B. Exhibits 10-O1 and 10-O2.

PROJECT UNDERSTANDING AND APPROACH

Lake County has obtained funding from several sources, including the Federal Government and State Safe Routes to School programs and the Department of Housing and Urban Development (HUD) Community Development Block Grant, to provide lighting along a portion of State Highway 20 in Clearlake Oaks. The project is within the existing State and County right of way, and will involve construction of new curbs, gutters, sidewalks, bike lanes, pavement resurfacing, stripping, and installation of new and improved lighting and traffic signals along 5,000 linear feet.

The project is receiving federal funding and therefore must address the requirements of Section 106 of the National Historic Preservation Act and the National Environmental Policy Act, and also the California Environmental Quality Act (CEQA). One archaeological site (P-17-2480) is located within the Area of Direct Impacts (ADI) of the Archaeological Area of Potential Effects (APE).

Previous cultural studies at the site were conducted, including an Extended Phase I Report (Flaherty and Werner 2014), and an Archaeological Evaluation Report (DeGeorgey 2015a). One prehistoric archaeological site was identified, P-17-2480, described as an intact cultural deposit dating to the Middle Period (DeGeorgey 2015a). The evaluated portion of the site was determined eligible for inclusion in the National Register of Historic Places (National Register) under Criterion D by Caltrans and the California State Historic Preservation Officer (SHPO).

Because project construction will disturb portions of P-17-2480, an adverse effect to a historic property will occur. To minimize this adverse effect, Phase III data recovery is proposed at this site within the ADI.

Alta Archaeological Consulting subsequently prepared the Data Recovery Plan and a Late Discovery Treatment Plan (DRP; DeGeorgey 2015b), which details additional work to be conducted at the site. This plan was approved by Caltrans and the SHPO.

The Far Western Team proposes to carry out Phase III Data Recovery studies as outlined in the Archaeological Data Recovery Plan and defined as Task 1 and Attachment 1 in the Request for Proposals (RFP). Our team brings local (Lake County) and regional (Northern California) archaeology experience, familiarity and long-term experience working on and successfully completing federally-funded and Caltrans projects, cost-effective approach to completing tasks, and a good understanding and implementation of efficient project management.

FIRM QUALIFICATIONS AND CLIENT REFERENCES

Far Western Anthropological Research Group, Inc. with Reddy Anthropology Consulting will provide services as stipulated in the RFP for CLO SRTS and CDBG project.

Since 1979, Far Western Anthropological Research Group, Inc. has worked in partnership with the environmental resources community and government agencies to meet these challenges and, in so doing, is today recognized as one of the leading cultural resources consulting firms in the western United States. Our reputation rests on a foundation of solid, cost-effective management and innovative project studies. This proven combination has resulted in the successful completion of some of the most complex and demanding cultural resources programs in the highly-regulated energy, mining, military facilities, and transportation sectors. Far Western assists their clients in complying with environmental and historic preservation laws such as the National Historic Preservation Act, the Native American Graves Protection and Repatriation Act, the Archaeological Resources Protection Act, the National Environmental Policy Act, and the California Environmental Quality Act (CEQA).

Over the last decade, Far Western has completed more than 1,000 archaeological projects for public and private clients throughout Northern California. These tasks range from large, multi-phased projects to smaller single-site excavations. All projects have been completed to satisfy the requirements of either CEQA or Section 106 of the National Historic Preservation Act. In recognition of their expertise and experience, the California Department of Transportation Districts 4, 5, 6, 9, and 10 continually choose Far Western to be their primary cultural resource consultant for "on-call" services within the Central and Northern California regions. In addition, Far Western has successfully completed over 50 studies in the greater California Department of Transportation (Caltrans) District 1 area (Del Norte, Humboldt, Lake, and Mendocino counties). Projects include archaeological records searches and surveys, buried site sensitivity analyses and extended Phase I subsurface testing, National Register-eligibility evaluation of prehistoric sites, development of cultural resource treatment plans, data recovery excavation, and preparation of museum exhibits and panels for public outreach mitigation. This cultural work was completed as part of bridge replacement/rehabilitation projects, road improvement work, installation of bicycle and pedestrian pathways, and conversion of high occupancy vehicle lanes to express lanes.

Far Western's Davis, California, headquarters houses an 8,500-square-foot state-of-the-art archaeological research facility complete with laboratories, GIS and production departments, and a research library. Regional offices are maintained in Carson City and Henderson in Nevada, and in San Luis Obispo, California. Each regional branch is administratively linked to the Davis office, but maintains its own management, staff, and logistical operation to meet the needs of clients in their service areas.

Reddy Anthropology Consulting brings over 30 years of experience in anthropology with a highly professional and caring approach. RAC is located in Davis, CA, and is a certified as a Disadvantaged Business Enterprise (DBE) by Caltrans (Number 41665), Women Owned Small Business (WOSB) through the Federal Small Business Administration and California Public Utility Commission Women Minority Business Enterprise (WMBE). RAC President, Dr. Seetha N. Reddy, is an active anthropologist with extensive fieldwork experience in two countries (United States and India). As a Principal Investigator, Dr. Reddy has worked on a wide range of projects from small surveys and monitoring to multiple-year collaborative data recovery projects with a diverse range of specialists. Over the years, through her work at CRM firms, she has well-honed skills in the day-to-day administrative and management responsibilities of successful cultural resource management.

Dr. Reddy's anthropological interests include research of subsistence systems, settlement patterns, human behavior, and environmental management. In addition, she has experience preparing ethnographic

studies, overviews and syntheses. The geographic range of her expertise in California spans across 20 counties (Alameda, Butte, Contra Costa, Imperial, Fresno, Inyo, Kern, Lake, Los Angeles, Placer, Madera, Mendocino, Monterey, Riverside, San Bernardino, San Diego, Solano, Sonoma, Sutter and Tulare).

The Far Western Team has permanent staff that can provide comprehensive archaeological services and proven record of experience providing such services for federally-funded projects including Caltrans. This also includes familiarity and established knowledge of Caltrans procedures and requirements. The following three examples and references provide insight into our experience on similar projects.

PROJECT EXAMPLE 1. CLEARLAKE OAKS MONITORING AND EMERGENCY DATA RECOVERY

Type of Work:	Data Recovery Excavation and Monitoring
Location:	Island Drive in Clearlake Oaks, Lake County
Date of Work:	August 2012-July 2013
Construction Cost:	Unknown
Dollar Value of Services Rendered:	\$78,450.00
Client:	Pacific Gas and Electric Company
Contact:	Stephanie Cimino, Sr. Cultural Resource Specialist Environmental Management - Transmission 3401 Crow Canyon Road San Ramon, CA 94583 Phone: 925-415-6576 Email: S2CM@pge.com

Description: PG&E conducted a utility undergrounding project at the intersection of State Route 20 and Island Drive in Clearlake Oaks. Although the records search indicated the presence of an archaeological site in the project area, the site was thought to have been destroyed by previous road construction. Far Western was contracted by PG&E to monitor excavation and ensure that no intact deposits were disturbed. Upon opening the undergrounding trench, intact deposits were identified. Far Western quickly mobilized a field crew to excavate the archaeological deposits within the trenches to mitigate the adverse effect to the site. Data were collected during construction so as not to disrupt the construction schedule and were found to represent two distinct periods of occupation in the Late Holocene and to fill a gap in data from the last 1,000 years (including a component contemporaneous to that at LAK-950 at Cole Creek Bridge). The project included oversight by County of Lake and Caltrans District 1.



PROJECT EXAMPLE 2. CULTURAL RESOURCES INVENTORY OF CALTRANS DISTRICT 1 RURAL CONVENTIONAL HIGHWAYS

Type of Work:	Cultural Resources Identification
Location:	Del Norte, Humboldt, Mendocino, and Lake Counties
Date of Work:	October 2009 - May 2010
Construction Cost:	Unknown
Dollar Value of Services Rendered:	\$454,328
Client:	California Department of Transportation District 1, North Coast
Contact:	Timothy Keefe Associate Environmental Planner (Archaeologist) California Department of Transportation District 1, North Coast 2460 6th Street Eureka, CA 95501 Phone: (707) 441-5775

Description: Far Western performed a cultural resources inventory of selected rural conventional highways in four counties—Del Norte, Humboldt, Lake, and Mendocino—that make up District 1 of the California Department of Transportation (Caltrans Contract #01A1056). The inventory was performed under guidelines for the Transportation Enhancement Activities (TEA) Program. There were two main objectives of the inventory:

1. Document all prehistoric and historic-period archaeological sites and historic-period architectural features within the right-of-way; and
2. Develop a Caltrans-compatible Cultural Resources Geographic Information System database.

The project began with a review of existing records, historical documents, and maps to identify previous positive cultural studies and known or potential resources. This was followed by an intensive pedestrian reconnaissance of about 524 miles (843 kilometers) of highway right-of-way, and recordation or re-recordation of 210 resources of which 84 were newly identified. Global Positioning System (GPS) data were collected for all identified resources.



PROJECT EXAMPLE 3. BOWMAN ROAD BRIDGE (#08C-0009) REPLACEMENT PROJECT

Type of Work:	Data Recovery Excavation and Monitoring
Location:	Tehama County, California
Date of Work:	January 2004–December 2014 (all phases of archaeological work)
Construction Cost:	Unknown
Dollar Value of Services Rendered:	\$246,939
Client:	Tehama County Public Works
Contact:	Kevin Rosser, PE, Senior Civil Engineer 9380 San Benito Avenue Gerber, CA 96035 Phone: (530) 385-1462, ex. 3051

Description: Tehama County proposed replacing Bowman Road Bridge, northwest of Red Bluff, along Cottonwood Creek. Project plans could not avoid impacting prehistoric site TEH-1262/H (midden deposit and human remains with some historic-period debris). Far Western conducted Phase II test excavations in 2005 to determine if the prehistoric and historic-period deposits retained sufficient integrity and information potential to be considered eligible for listing on the National Register. The prehistoric component of the site was determined eligible for inclusion in the National Register, and Far Western subsequently conducted Phase III Data Recovery for the site.



In addition, Far Western consulted with several members of the Paskenta Band of Nomlaki Indians during this project, including the tribe's Language and Culture Advisor, Cody Pata. To acknowledge and celebrate the culture and history of the Nomlāqa Winthūn, Art Director Tammara Norton worked closely with Mr. Pata to develop a traditional basket design for use on the concrete rails along the new Bowman Road Bridge. Ms. Norton and Mr. Pata also worked together to develop a website: www.honoringthenomlaki.com.

STAFFING ORGANIZATION AND QUALIFICATIONS

The Project Team (Team) will comprise experienced staff of Far Western and Reddy Anthropology Consulting. The Key staff includes Ms. Allika Ruby (Project Manager and Co-Principal Investigator), Dr. Seetha Reddy (Co-Principal Investigator), and Mr. John Berg (Field Supervisor). Resumes of these three key team members are provided here.

Ms. Allika Ruby, Far Western, will function as the Project Manager for the contract, and be a Co-Principal Investigator with Dr. Seetha N. Reddy of Reddy Anthropology Consulting. Ms. Ruby and Dr. Reddy have more than 40 years of combined years of project management and archaeological experience in California. In addition, both have previous experience working on Caltrans projects as Project Manager, Task Manager, and Principal Investigator. As such, we have a strong knowledge of and familiarity with Caltrans protocols and standards for reporting, including the Standard Environmental Reference (SER) II. All communications with the client regarding the contract and project will be done by Ms. Ruby. Dr. Reddy will be responsible for implementing data recovery for fieldwork and post-field tasks. She will work closely with Ms. Ruby to ensure that client needs are met. Mr. John Berg, Far Western, will be the Field Supervisor.

The key staff of this team brings well-honed management skills, local and regional archaeological field experience, and familiarity with state and federal regulatory requirements and standards. In addition, the team has extensive and long-term experience successfully implementing and completing data recovery programs in a variety of contexts and clients. This experience has prepared us well to anticipate and respond in a reasonable, effective, and efficient manner to problems that could be potentially encountered in the field, lab and/or writing stages of such a project. We have worked with Native American groups throughout the state, and together have addressed issues of concern and worked to resolve them to the satisfaction of the client, Native American group(s), and archaeological protocols.

Our team has experienced personnel on staff and on-call who can respond in a timely manner to complete all aspects of the project, from initiation to conclusion. In addition, Far Western has in-house specialists for geoarchaeology, faunal analysis, floral/macrobotanical analysis, lithic and ground stone analysis, mapping (GPS and GIS), editing, and report production, which provides for good quality control, effective oversight, timely completion and cost control.

ALLIKA RUBY: PROJECT MANAGER AND CO-PRINCIPAL INVESTIGATOR

Current Position

1997–Present *Principal Investigator.* Far Western Anthropological Research Group, Inc.

Education

2005 M.A. in Anthropology, University of California, Davis

1999 B.A. in Anthropology, University of California, Santa Cruz

Professional Organizations

Register of Professional Archaeologists (#989548)

Society for American Archaeology

Society for California Archaeology

Professional Experience (Selected)

- Current *Project Manager.* South Main Street and Soda Bay Road Corridor Improvement Project, Lake County, California. Quincy Engineering, Inc., Rancho Cordova, California.
- 2014-2016 *Principal Investigator.* Phase III Data Recovery of CA-SBA-1703 for the Las Vegas and San Pedro Creeks Capacity Improvements Project. Santa Barbara County, California. Caltrans District 5.
- 2010-2015 *Co-Project Manager.* Ruby Pipeline Project, Elko, Humboldt, and Washoe counties, Nevada. El Paso Natural Gas Company, Colorado Springs.
- 2013 *Principal Investigator.* Archaeological survey and site evaluation for the Van Duzen-Peanut State Route 36 Road Improvement Project. Humboldt County, California. Jacobs Engineering Group, Inc., Colorado (Caltrans Local Assistance).
- 2012 *Field Director/Project Manager.* Archaeological survey for the Redwood Hostel Site Evaluations Project, Redwood National and State Park, NPS, Del Norte County, California.

Technical Reports (selected)

- 2016 Draft *Salvaging the Past: A Case Study in Archaeological Inquiry, CA-SBA-1703, Goleta, California.* Prepared for Flat Iron West, Inc., San Marcos, California. With P. Mikkelsen and P. Kaijankoski.
- 2014 *Extended Phase I and Phase II Archaeological Investigations of CA-HUM-1157 (P-12-2606) for the Van Duzen-Peanut State Route 36 Improvement Project, Humboldt County, California.* Prepared for Jacobs Engineering Group, Inc., Denver.
- 2012 *The Neophyte Indian Village of Mission San Carlos Borromeo del Rio Carmelo: Archaeological Investigations at CA-MNT-188/H, Monterey County, California.* Pacific Gas and Electric Company, Sacramento.

SEETHA N. REDDY: CO-PRINCIPAL INVESTIGATOR

Current Position

2005–Present *Principal*. Reddy Anthropology Consulting

Education

1994 Ph.D. in Anthropology, University of Wisconsin, Madison

1988 M.A. in Anthropology, University of Wisconsin, Madison

Professional Organizations

Register of Professional Archaeologists (#10368)

Society for American Archaeology

Society for California Archaeology

Professional Experience (Selected)

2014-present *Assistant Project Manager and Field Lab Director*. Data Recovery, Feather River West Levee Project, Yuba County, California. For Far Western Anthropology Research Group, Inc.

2009-2014 *Principal Investigator*. Extended Phase I and Phase II Investigations for Willits By-Pass Project, Caltrans District 3. For SRI, Inc. and Pacific Legacy, Inc.

2011-2013 *Principal Investigator*. Section 110 surveys of Lake Mendocino and Lake Sonoma, California. For SRI, Inc. and ACOE-San Francisco District, CA.

2006-2014 *Project Manager and Principal Investigator*. Large Scale and multi-year data recovery project in the Los Angeles Basin, Los Angeles, CA. For SRI, Inc. and Playa Vista Capital, LLC.

Technical Reports (selected)

2015 *Late Period Plant Use at CA-LAK-950*. Prepared for Pacific Legacy, Inc., Berkeley, CA

2013 *Extended Phase I and Phase II Geoarchaeological and Archaeological Investigations along U.S. Route 101 for the Willits Bypass Project, Little Lake Valley, Mendocino County, California* (with contributions from S. Kremkau, J. Lev-Tov, P. Stanton, and J. Windingstad) Submitted to Caltrans North Region, Marysville, CA. SRI Report 13-10.

2011 Section 110 Survey and Condition Assessment of 15 Sites at Lake Mendocino, Mendocino County, California. For USACOE, San Francisco, CA (with contributions from C. I. Busby, C. Canzonieri, D. M. Garaventa, S. Kremkau, J. Mayer, J. A. Minor, J. Trampier, and W. A. White). SRI Technical Report 10-48

2011 Section 110 Survey and Condition Assessment of 34 Sites at Lake Sonoma, Sonoma County, California. For USACOE, San Francisco, CA (with contributions from C. I. Busby, C. Canzonieri, D. M. Garaventa, S. Kremkau, J. Mayer, J. A. Minor, J. Trampier, and W. A. White). SRI Technical Report 10-48.

JOHN E. BERG: FIELD SUPERVISOR

Current Position

- 1999–Present *Senior Archaeologist*. Far Western Anthropological Research Group, Inc.
1988–1995 *Staff Archaeologist*. Far Western Anthropological Research Group, Inc.

Education

- 1986 M.A. in Anthropology, California State University, Sacramento.
1979 B.A. in Anthropology, California State University, Sacramento.

Professional Organizations

- Register of Professional Archaeologists.
American Schools of Oriental Research (ASOR)

Professional Experience (Selected)

- 2016 *Field Director*. Phase II Studies at CA-SLO-879/H for the Morro Bay to Cayucos Connector Project, San Luis Obispo County. 01-SLO-PM 31.97–33.27. For Terre Verde, San Luis Obispo.
- 2015 *Field Director*. Test excavations at CA-MEN-1807. Mendocino Headlands, Mendocino County. For California Department of Parks and Recreation.
- 2014 *Field Director*. Excavations at CA-SLO-2569/H (Giacomazzi Parcel) for the Los Osos Wastewater Facility. San Luis Obispo County.
- 2013 *Field Director*. Extended Phase I investigation for Napa River bridge replacement in Calistoga, Napa County. For Caltrans District 4.
- 2013 *Field Director*. Extended Phase I/Phase II investigations for the Gleason Beach State Route 1 realignment project, Sonoma County. For Caltrans District 4.
- 2012 *Field Director*. Data Recovery excavations at five sites for infrastructure development at Marine Corp Base Camp Pendleton, San Diego County, for US Navy, SWDIV.

Selected Reports

- 2015 *PG&E Moss Landing Substation Security Wall Upgrade Project – Report on Extended Phase I Archaeological Investigations at CA-MNT-277/278*. Prepared for Pacific Gas & Electric Co., San Francisco. With Sharon A. Waechter
- 2015 *Emergency Data Recovery Excavation at Site CA-MRN-12 in Mill Valley, Marin County, California*. Far Western Anthropological Research Group, Inc., Davis, California. Report submitted to Pacific Gas & Electric Company, San Francisco. With Sharon A. Waechter.
- 2014 *Extended Phase I Investigation for the Napa River Bridge Replacement Project, Calistoga, Napa County, California*. Prepared for Caltrans District 4. With Naomi Scher.

PROJECT SCHEDULE/WORK PLAN

INITIATE PROJECT AND PROJECT MANAGEMENT (TASK 1.1)

Project Manager and Co-Principal Investigator, Ms. Allika Ruby (12 hours) will be responsible for communications with the County for scheduling and coordinating field activities. She will coordinate a kick-off meeting with the County, Native American Tribes, Caltrans, Construction Contractor, and other project stakeholders (identified through consultation with the County). The goal of this meeting will be to discuss and resolve issues related to project scope, schedule, communication, and management. Ms. Ruby will attend and prepare and distribute minutes for meetings as needed, and review all invoices. Co-Principal Investigator Dr. Seetha N. Reddy (Reddy Anthropology Consulting) will assist Ms. Ruby as needed, and attend the kick-off meeting (8 hours). Contracts Administrator Jenny Collier (8 hours) will provide budget updates to Ms. Ruby, assisted by Maria Gumpal (8 hours) and Victoria Vasquez (4 hours).

ESTABLISHING PROJECT SCHEDULE (TASK 1.2)

The project schedule will be initiated as soon as the contract is awarded, and follow the time line outlined below, estimated to be 18 months, from initiation to final report submission (Data Recovery Plan, page 38).

Task	Schedule
Kick-off meeting	Within 10 working days of contract award ¹
Proposal/Work Plan	2 weeks of Kick-off Meeting
Obtain Permitting (Caltrans, County, and USA North)	At least 1 week before fieldwork
Data Recovery Fieldwork Implementation	30 working days from Kick-off meeting ²
Fieldwork	2 weeks
Draft Report	160 working days from Kick-off meeting or 100 days from completion of fieldwork
Final Report	30 days after receiving comments
Curation	30 days after receiving comments

¹ This may be largely driven by schedules of County, Native American Tribes, Caltrans, Construction Contractor, and other project stakeholders.

² This will depend completely on County and Caltrans permit time.

ARCHAEOLOGICAL DATA RECOVERY PLAN IMPLEMENTATION (TASK 1.3)

Far Western will perform Phase III Data Recovery studies within the ADI at P-17-2480 as detailed in the Data Recovery Plan (DRP) by DeGeorgey (2015b). DeGeorgey (2015a:23) states that the DRP “serves to explain the objectives and scope of the proposed study, demonstrate that the proposed studies are appropriate mitigation measures, and to obtain concurrence from the Cultural Studies Office (CSO) and the State Historic Preservation Officer (SHPO)”. Site P-17-2480 is a Middle Period occupation (2200 BP) characterized by intact cultural deposits.

Fieldwork

The fieldwork approach will be flexible and include three main tasks: surface reconnaissance, manual excavations of control units, and mapping. Surface reconnaissance will start with the establishment of a datum, and continue with an intensive survey of the known site boundaries to identify surface artifacts and cultural features. All surface artifacts, features, post-depositional disturbance, vegetation and geographic features will be mapped.

Information gathered from this surface survey, along with data obtained from testing by DeGeorgey (2015a), will be used to identify optimal locations for the manual excavations of control units. This scope assumes that six cubic meters will be excavated, as defined in the DRP. It is anticipated the surface reconnaissance and manual excavation will comprise 408 hours of work for Far Western employees (Principal Investigator, Field Director, Crew Chief, and Archaeological Technicians) and 16 hours from Reddy Consulting.

All of the archaeological fieldwork will be done in accordance with OSHA safety standards per 29 CFR 1926.651 (c)-1926.652(a)(1). Controlled excavation units will be placed within the ADI and in areas where artifact concentrations were identified during testing. For example, one control unit will be placed adjacent to previously excavated shovel test pit (STP) 11 located on the north side of Highway 20. Controlled excavation unit sizes will typically measure 1-x-2 or 1-x-1 meters, but may be expanded given findings. The maximum depth of the excavation units will be 120 cm below surface based on testing results, although the cultural deposit is primarily between 40 and 100 cm below surface. Depending on the size of the units (1-x-2 meters or 1-x-1 meters) and assuming an average depth of 100 cm below surface, we estimate that three to six control units will be excavated within the discrete area of high density and diverse artifacts in the ADI, as identified in the testing phase (DeGeorgey 2015a).

All units will be excavated in arbitrary 10-cm levels, or stratigraphically if appropriate, with matrix screened through 1/8-inch wire mesh. The DRP specifies using ¼-inch screens and sampling five-gallons of sediment from each level with 1/8-inch screen (DRP, page 23). We recommend passing all sediments through 1/8-inch screens because this is a data recovery effort and use of 1/8-inch mesh size is standard practice in archaeological excavations today, and especially in federally funded projects.

The DRP stipulates that specific excavation procedures may be modified in consultation with the County and Caltrans Professionally Qualified Staff (PQS) as field conditions and Project circumstances dictate. The archaeological work will ensure that the site outside the ADI is protected as a permanent Environmentally Sensitive Area (ESA). Furthermore, upon consultation with the County and Caltrans, the excavation units will be secured by temporary fencing during fieldwork. All incomplete units will be secured by a plywood unit board if they are left open overnight.

The specific data-gathering methods (e.g., macrobotanical sampling of features) will be dictated by the nature of the deposit. Archaeological excavation will continue until a sufficient sample of the deposit has been obtained to achieve redundancy of materials, thereby realizing the data potential of the site, up to six cubic meters. All cultural materials will be collected in well-labelled bags, and noted on forms. All excavations will be documented through digital photography.

Once each unit has been fully excavated, a representative sidewall will be profiled and each soil stratum will be described. A maximum of three column samples and/or bulk soil samples measuring 30 by 30 by 10 cm will be removed from appropriate contexts (e.g., midden). All samples will be processed to recover macrobotanical remains and material for radiocarbon dating.

Treatment of Features

If encountered, features (e.g., hearths, ash lenses, cooking features, and caches) will be documented by expanding the excavation units in which the features are found. Features will be exposed and prepared per standard archaeological techniques using small hand tools. Photographs and scaled plan drawings will be made, and feature records (documenting size, shape, orientation, soils, associated artifacts, samples taken, and other pertinent information) will be filled out in the field. Artifacts and organic materials (bone, charcoal, shell) will be collected from features for radiocarbon assay after carefully recording provenience information (x, y, and z coordinates) and marking sample locations on the feature drawing.

Unanticipated Discoveries: Human Remains

No in situ human remains have been identified at the site to date, but it is possible that they may be encountered during data recovery. Section 7050.5(b) of the California Health and Safety Code requires that if human remains are found in any location other than a dedicated cemetery, excavation is to halt in the immediate area, and the county coroner (707-262-4215) is to be notified. Through consultation with the County and Caltrans PQS, an exclusionary fence may be erected encompassing 100 feet around the discovery.

The coroner has two working days to examine the remains and make an assessment of their origin. If the coroner makes a determination that the remains are those of a prehistoric Native American, Section 7050.5(c) of the Health and Safety Code requires that the coroner notify the Native American Heritage Commission (Commission) within 24 hours of identification. Under Section 5097.98 of the Public Resources Code, the Commission is required to immediately notify the person it believes to be the Most Likely Descendent (MLD) for purposes of consultation. The MLD will visit the site of discovery and make recommendations regarding the treatment and disposition of the remains and any associated funerary objects (HSC 5097.98). This should be completed within 48 hours of the MLD's notification.

The DRP recommends that the Lead Agency begin consultation with the Commission for the treatment of human remains if they are encountered. In the absence of this, the protocol detailed in the DRP will be followed which states that the MLD will work with the County and the archaeology consultant to develop a treatment plan for the human remains. It is the policy of the State of California that any Native American remains and or grave goods not immediately reburied will be repatriated (PRC 5097.991). Final disposition of the remains, however, may include re-interment or placement within a state approved curation facility, if requested by the MLD.

Recovery of human remains is not included in the data recovery estimates for hand excavation. Because human remains require very slow and careful excavation, the discovery of human remains will require additional time in the field. Cost per burial, including excavation, removal, analysis of bone and grave goods, and repatriation, vary depending on condition of the burial and quantity and type of associated materials.

Late Discovery Treatment

A Late Discovery Treatment Plan (LDTP) was prepared by DeGeorgey (2015c) which details responses to and treatment of archaeological discoveries during construction. As stipulated in the LDTP, the provisions made in the DRP and Memorandum of Agreement (MOA) should apply for the treatment of any discoveries during construction activities. Such discoveries are not limited to P-17-2480 as three other sites (deemed ineligible for listing on the National Register by Caltrans) are also located in the Area of Potential Effects (APE). These include CA-LAK-485, CA-LAK-1900 and CA-LAK-1901. The Far Western Team will follow the LDTP that has been approved by the County, Caltrans and the SHPO.

Native American Consultation and Coordination

As stipulated in the Project RFP, the County will arrange for consultation with the Elem Tribe. It is assumed the County will contact the Elem Tribe to request a Tribal Monitor to be present at the site during data recovery excavation.

Laboratory processing and analysis

All cultural materials recovered during data recovery excavations will be transported to the Far Western Laboratory in Davis to be processed and analyzed. The lab effort is estimated to total 212 hours and includes: 64 hours of washing, sorting, cataloging, and curation preparation by lab technicians; 24 hours of cataloging, lithic analysis, and curation preparation by lab director Laura Harold, M.A.; 60 hours of flotation analysis and sorting by specialist Angela Arpaia; 8 hours of analysis for plant macrofossil remains by archaeobotanical analyst Eric Wohlgemuth, Ph.D.; 16 hours of shell bead and shellfish analysis by Jill Eubanks; 8 hours of shell bead and milling gear analyses by Ruby; 24 hours of faunal bone analysis review by Andrew Ugan, Ph.D.; and 8 hours of artifact illustration by Kathleen Montgomery.

Procedures for collection, washing, cataloguing, analysis, and curation will be consistent with those established in the DRP. These procedures are briefly described below. Some collected material will be analyzed by experts under subcontract to Far Western, including fish bone (Ken Gobalet, Ph.D.), obsidian hydration (Origer's Obsidian Laboratory), obsidian x-ray fluorescence spectrometry (Geochemical Research Laboratory), and radiocarbon and accelerator mass spectrometry dating (Beta Analytic).

Cataloguing

Materials will be catalogued into a Microsoft Access computer file, under the guidelines and accession number provided by the curation facility. Tools will be assigned individual catalogue numbers, whereas bulk samples such as debitage, bone, shell, and soil will be assigned a group or lot number on the basis of provenience. In addition, debitage will be sorted by material type and catalogued accordingly. With the exception of large pieces of ground stone, all items will be packaged in 4.0-mil zip-loc plastic bags, accompanied by an artifact/provenience label produced on acid-free paper.

Analysis of the collection will commence once cataloguing has been completed, and will involve the packaging and delivery of appropriate items (fish bone, obsidian, etc.) to specialists. At the project's close, the final laboratory tasks will involve: (1) generation of a final version of the catalogue, in hard copy and as a Microsoft Access catalogue file; (2) organization, inventory, and final packaging of materials into acid-free archive boxes, including all materials retrieved from specialists as well as appropriate field and other project paperwork; (3) personal delivery of the collection to the archival facility; and (4) reburial of any bone identified as human from soil or flotation samples or identified during detailed faunal analysis, and all burial-related items and specific non-burial artifacts as requested by the assigned MLD.

The following sections provide a more detailed discussion of the dating and analytical methods to be used. Analysis of artifacts and subsistence remains including flaked stone, ground and battered stone, bone tools, shell artifacts, faunal and floral materials will provide data important to component definition, assemblage character, and site function. Data generated from the analyses will be used to address the research issues outlined in the DRP.

Dating

Chronometric control will be established through radiocarbon dating of charcoal, burnt plant remains and/or faunal samples, hydration analysis of sourced obsidian tools and flakes, and typological analysis of temporally sensitive shell beads and projectile points.

Radiocarbon study will include analysis of samples consisting of feature charcoal, terrestrial mammal bone, marine dietary shell, and possibly temporally sensitive shell beads. In some instances, (e.g., small charcoal samples) it may be necessary to use the accelerator mass spectrometry (AMS) technique. The suite of dates will be corrected for isotope fractionization. We propose to submit up to five samples for dating as stipulated in the DRP.

Obsidian hydration samples would be collected from a variety of contexts, including those dated with radiocarbon assays. The DRP stipulates that a maximum of 50 obsidian specimen will be submitted to an obsidian hydration laboratory for hydration micron measurements. Prior to that, all obsidian tools and debitage will be visually sourced, and a maximum of 25 specimens will be submitted for source determination. Regional hydration data, including relative time scales and absolute hydration conversion formulas, will be considered in the interpretation of hydration results.

Shell beads and projectile points are the primary artifact classes used to date archaeological deposits. Accepted regional typologies should be used to classify these materials (e.g., Bennyhoff and Hughes 1987; Milliken and Schwitalla 2012; White and Allison 2002).

Artifact Analyses

The following discussion provides a brief summary of the methods that will be used to analyze artifacts. The analytical focus will be on artifacts associated with discrete temporal components; this will avoid analysis of material in mixed or disturbed soils that cannot offer adequate interpretive information.

Flaked Stone Analysis: General artifact classes which were produced from local lithic raw materials include projectile points, bifaces, various formed and simple flake tools, cores, core tools, and debitage. All tools and cores will be measured (maximum length, width, and thickness) and weighed, with material type and condition (i.e., whole, proximal fragment, distal piece) recorded. Debitage will be sorted by material type per unit or stratum level, counted, and weighed. Each artifact class will be analyzed to determine technological origins, evidence and kind of use-wear, type of reworking, and reason for discard. Projectile points will be classified using the metric criteria provided by White (2002:240). The horizontal and vertical distribution of tools and debitage will be summarized so as to: (1) assess the deposit for integrity and chronology; (2) aid in the definition of assemblage constituents; and (3) develop inferences about site function. Such information can be applied to larger research issues such as settlement, subsistence, trade, and exchange.

Ground and Battered Stone Analysis: Consistent with the flaked stone assemblage, ground and battered stone implements will be weighed and measured (maximum length, width, and thickness), and condition and material type noted. The tools will be classified according to conventional morphological/functional types, including pestles, mortars, millingslabs, handstones, battered cobbles, and pitted cobbles (Mikkelsen 1985). In general, analysis of ground stone implements will identify the raw material used, the kind and degree of wear represented, and the presence or absence of artifact shaping. Definition of such attributes, coupled with provenience data, will aid in the identification of temporal components, contribute to regional chronology/assemblage development, and provide information on the character of toolstone exploitation and use.

Bone Tools: Modified faunal remains will be measured, weighed and, if possible, classified according to function (i.e., awl, fish gorge, hairpin), identified to genus and species, and discussed in terms of the accepted regional typologies (Gifford 1947). Additional information on tool morphology will be provided, including implement condition (distal, medial, proximal piece) and type of modification. The functional inferences of these tools in conjunction with dietary remains could provide important information regarding subsistence practices.

Shell Artifacts: This category includes shell beads, ornaments, and manufacturing refuse. Any shell beads or artifacts found will be measured, analyzed, and typed in reference to Bennyhoff and Hughes (1987) and Groza et al. (2011), and will include comparison with any local examples.

Faunal Remains

Faunal remains will be divided into four general categories—mammals, birds, fish, and shellfish. As the faunal materials can ultimately be used for dietary reconstruction, recovery methods will be geared to achieving a reliable, comparative sample. While mammal and bird remains can be effectively recovered from 1/4- and 1/8-inch screens, fish and invertebrate remains will be retrieved from column samples (screened through 1/16-inch mesh). Once processed through the lab, mammalian, avian, piscine, and invertebrate remains will be sampled and analyzed.

Floral Remains

The recovery of flotation samples will be limited to feature and selected midden contexts. Soil samples will be processed and analyzed as follows. After recording the soil sample volume to the nearest 0.1-liter, the sediments will be floated wherein the light fraction materials will be skimmed and decanted through 40-inch mesh (0.38-millimeter). The non-buoyant heavy fraction will be washed through 1/8- and 1/16-inch window mesh (1.0-millimeter). Light fractions will be sorted and examined to 0.5-millimeter grade at 10X. All floral remains will be sorted (charred to non-charred) and, if possible, identified to genus and species level.

Human Osteology

The treatment of human remains will be developed in consultation with the MLD. Recommended analyses would include an inventory of the elements present and, if sufficient diagnostic features are represented, age, gender, and stature will be determined. In addition, the analyst will note and describe any pathologies and anomalies. Such information, in conjunction with diagnostic grave offerings, can contribute to regional research issues of population movement, health and nutrition, and incidence of warfare.

Environmentally Sensitive Area (ESA)

As stipulated in the DRP, an ESA will be set up to project the remaining site deposit from direct and indirect effects during construction and from post construction effects of maintenance and other activities. The establishment of the ESA will follow the ESA Action Plan by DeGeorgey (2015d).

Public Outreach Plan

The DRP stipulates that a series of public outreach efforts will be made as part of this project, including submission of the final Archaeological Data Recovery report to the California Historical Resources Information System Northwest Information Center (NWIC); presentation of data recovery results at the state archaeology annual meetings (Society for California Archaeology); a classroom presentation on archaeology and local Native American communities at the local East Lake Elementary school if they are interested; and finally, a one-page flyer on data recovery to site visitors given the highly visible setting. The one-page flyer will be prepared by Tammara Norton (8 hours).

Curation

After laboratory analysis and the final report is submitted, the artifacts will be: (1) curated at Sonoma State University Anthropological Studies Center's David A. Fredrickson Archaeological Collections

Facility in accordance with their policies; or (2) discarded as appropriate in consultation with Caltrans. A copy of the final Data Recovery Report will be submitted with the collection, and the site catalogue will be prepared per the guidelines of the specific curation facility to which the assemblage will be submitted. Curation of archeological specimens will follow the Guidelines for Curation of Archaeological Collections (1993) as described by the State Historic Resources Commission, Department of Parks and Recreation. All curated items will meet 36 CFR Part 79 standards for curation of archaeological collections. Far Western will prepare and transport the collection to the specifications of the David A Fredrickson Curation Facility of the Anthropological Studies Center at Sonoma State University. Costs include curation fee only; it is assumed the curation effort would entail only materials recovered during the Data Recovery phase of work. As noted in the DRP, an Accession Number has already been assigned by the Curation Facility for the site (2015-08). A letter of acceptance from Sonoma State University Anthropological Studies Center's David A. Fredrickson Archaeological Collections Facility will be obtained when is contract is awarded.

Reporting

After fieldwork, laboratory processing, and analyses are completed, a data recovery draft report will be prepared that will follow the guidelines and format outlined in Chapter 5 of Caltrans Standard Environmental Reference—Volume 2: Cultural, and the DRP. This report will document the results of the Phase III data-recovery excavations. Field methods and site structure will be described and stratigraphic observations from the field will be combined with chronological information to define chrono-stratigraphic components at the site. These temporally distinct, single-component units will be used to divide the record of the site and will be the basis for artifact assemblage and subsistence remains (i.e., fauna and flora) analyses. All findings will be summarized in tables and figures which demonstrate the spatial and temporal relationships between various artifact classes and the assemblage as a whole. The draft report is anticipated to require 176 hours to prepare.

Data from the sites will be synthesized and compared to the greater regional record in light of research issues identified in the DRP. The research synthesis section of the report will incorporate recent archaeological data from data recovery excavations in Lake County, and in light of recent theoretical constructs in the broader California archaeological community. It is through this last section of the report that the data potential of the deposit is met and impacts to the site are mitigated. Report appendices will include a complete catalogue, raw data from artifact and faunal analysis, and reports on any special analyses (i.e., obsidian hydration, radiocarbon dating). The site record (DPR forms) will be updated with the excavation results, including mapped locations of unit and artifact summaries, and submitted to the Information Center. The final report is anticipated to require a total of 34 hours.

All final reports will be submitted to signatory and concurring parties to the Project's MOA and the Northwest Information Center at Sonoma State University.

Assumptions

Far Western has prepared this scope of work with the following assumptions:

- Tasks conducted after October 1, 2017, will include a cost-of-living increase of up to 5.0%.
- Required permits will be obtained by the client and provided to Far Western prior to fieldwork.
- Field crews will not access property that is deemed unsafe.
- Costs associated with removal of human burials will be negotiated separately.
- Far Western will address one consolidated set of comments per agency.
- One meeting (Kick-Off meeting) is included.

- The County or Caltrans will obtain written permission from landowners if needed to conduct excavations.
- Draft reports will be submitted digitally unless otherwise specified. Ten hard copies of the final reports will be provided.
- Should any additional sites be identified, no additional identification efforts, proposals for evaluation or mitigation, resource evaluation, or data recovery are included in this scope.
- This Scope covers work associated with pre-construction Phase III Data Recovery only; other treatment elements specified are not included (e.g., monitoring).
- Curation costs include only the data recovery collection.
- No more than two boxes of cultural remains, including all relevant documentation (e.g., field records), will be curated.

REFERENCES CITED

Bennyhoff, James A., and Richard E. Hughes

- 1987 Shell Bead Ornament Exchange Networks between California and the Western Great Basin. *Anthropological Papers of the American Museum of Natural History* 64(2):80-175.

DeGeorgey, Alex

- 2015a *Archaeological Evaluation Report of P-17-2480, P-17-1493 (CA-LAK-485), P-17-1988 CCA-LAK-1900, P-17-1989 CCA-LAK-1901) for the Eastlake Elementary School Safe Routes to School and Community Development Block Grant Project*. Clearlake Oaks, Lake County, California. Report prepared for the County of Lake, Department of Public Works.
- 2015b *Archaeological Data Recovery Plan for Prehistoric Site p-17-2480 Eastlake Elementary Safe Routes to Schools And Community Development Block Grant, Clearlake Oaks, Lake County, California*. Prepared by Alta Archaeological Consulting. Submitted to California Department of Transportation District 1.
- 2015c *Late Discovery Treatment Plan Eastlake Elementary Safe Routes to Schools And Community Development Block Grant, Clearlake Oaks, Lake County, California*. Prepared by Alta Archaeological Consulting. Submitted to California Department of Transportation District 1.
- 2015d *Environmentally Sensitive Area (ESA) Action Plan for the Eastlake Elementary Safe Routes to Schools and Community Development Block Grant Project, Clearlake Oaks, Lake County, California*. Report prepared for the Caltrans District 1.

Flaherty, Jay M. and Roger Werner

- 2014 *Archaeological Survey report (ASR) I Extended Phase I Report for Clearlake Oaks Safe Routes to Schools, Eastlake Elementary School SRTSL 5914 (057) and Community Development Block Grant Sidewalk and Lighting Project, County of Lake, California*. MS. on file at the Northwest Information Center.

Gerike, Christian, and Neal Kaptain

- 2009 *Archaeological Survey Report for the South Main Street and Soda Bay Road Widening and Bike Lanes Project, Lakeport, Lake County, California*. LSA Associates, Inc., Point Richmond, California.
- 2010 *Extended Phase I Report for the South Main Street and Soda Bay Road Widening and Bike Lanes Project, Lakeport, Lake County, California*. LSA Associates, Inc., Point Richmond, California.

Gifford, E. W.

- 1947 *Californian Shell Artifacts*. Anthropological Records 9.1. University of California Press, Berkeley and Los Angeles.

Groza, Randall G., Jeffrey Rosenthal, John Southon, and Randall Milliken

- 2011 A Refined Shell Bead Chronology for Late Holocene Central California." *Journal of California and Great Basin Anthropology* 31(2): 135-154.

Jones, E. Timothy, and Neal Kaptain

- 2012 Historic Property Treatment Plan for the South Main Street and Soda Bay Road Widening and Bike Lanes Project, Lakeport, Lake County, California. LSA Associates, Inc. Submitted to Caltrans District 1, Eureka.

Jones, E. Timothy, Christian Gerike, Jennifer Redmond, and Neal Kaptain

- 2010 Archaeological Evaluation Report (Phase II) for the South Main Street and Soda Bay Road Widening and Bike Lakes Project, Lakeport, Lake County, California. LSA Associates, Inc. Submitted to Caltrans District 1, Eureka.

Mikkelsen, Patricia J.

- 1985 A Study of Millingtool Form and Function Applied to the North Coast Ranges, California. M.A. thesis, Sonoma State University.

Milliken, Randall T., and Al W. Schwitalla

- 2012 *California and Great Basin Olivella Shell Bead Guide*. Left Coast Press

White, Gregory (editor)

- 2002 *Cultural Diversity and Culture Change in Prehistoric Clear Lake Basin: Final Report of the Anderson Flat Project*. Center for Archaeological Research at Davis Publication Number 13. University of California, Davis.

White, Gregory G., and Eric Allison

- 2002 Projectile Points. In *Cultural Diversity and Culture Change in Prehistoric Clear Lake Basin: Final Report of the Anderson Flat Project*, edited by Gregory G. White, pp. 236–237. Center for Archaeological Research at Davis Publication Number 13. University of California, Davis.

ATTACHMENT A
KEY STAFF RESUMES

Allika Ruby

CURRENT POSITION

1997–Present *Principal Investigator.* Far Western Anthropological Research Group, Inc.

EDUCATION

2005 M.A. in Anthropology, University of California, Davis.

1999 B.A. in Anthropology, University of California, Santa Cruz.

PROFESSIONAL ORGANIZATIONS

Register of Professional Archaeologists (#989548)

Society for American Archaeology

Society for California Archaeology

PROFESSIONAL EXPERIENCE

2015-2016 *Project Manager.* Phase III Study for the South Main Street and Soda Bay Road Widening and Bike Lanes Project, Lakeport, Lake County. Quincy Engineering.

2015-2016 *Principal Investigator.* Morro Bay New Water Reclamation Facility Project, Morro Bay, San Luis Obispo County. City of Morro Bay.

2016 *Project Manager.* Archaeological Survey and Extended Phase I Study for the Sir Francis Drake Boulevard Improvement Project, Point Reyes National Seashore, Marin County. Jacobs Engineering Group, Inc., Denver.

2016 *Field Director.* Phase III Data Recovery of CA-ALA-565/H in Sunol for the Sunol Long Term Improvements Project. San Francisco Public Utilities Commission, San Francisco.

2010-2015 *Co-Project Director.* Ruby Pipeline Project, Elko, Humboldt, and Washoe counties, Nevada. El Paso Natural Gas Company, Colorado Springs.

2015 *Co-Principal Investigator.* Phase III Data Recovery of CA-SBA-1703 and CA-SBA-60 for the Las Vegas and San Pedro Creeks Capacity Improvements Project. Santa Barbara County, California. Caltrans District 5.

2015 *Principal Investigator.* Extended Phase I Study for the State Route 152 Holohan Road/College Road Intersection Improvement Project. David J. Powers & Associates, Inc., San Jose.

2014-2015 *Principal Investigator.* Extended Phase I Testing of CA-MNT-1420 for the North Fork Shoulder Widening Project, Highway 198, Monterey County, California. Caltrans District 5.

2014-2015 *Principal Investigator/Project Manager.* Archaeological survey and geoarchaeological investigations for the Bull Creek Restoration Project. Humboldt County, California. California State Parks.

2014 *Principal Investigator/Project Manager.* Archaeological survey for the Ice House Road Improvement Project. El Dorado County, California. Jacobs Engineering Group, Inc., Colorado.

- 2014 *Principal Investigator/Project Manager.* Archaeological survey and site evaluation for the Hammonton-Smartsville Road Improvement Project. Yuba County, California. Jacobs Engineering Group, Inc., Colorado.
- 2014 *Project Manager.* Archaeological survey for the Coast to Crest Trail Project. Del Norte County, California. California State Parks.
- 2013 *Principal Investigator.* Archaeological survey for the Van Duzen-Peanut State Route 36 Road Improvement Project. Humboldt County, California. Jacobs Engineering Group, Inc., Colorado.
- 2010/2012 *Field Director.* Archaeological survey and data mitigation for the Ruby Pipeline Project, Elko and Humboldt counties, Nevada. El Paso Natural Gas Company, Colorado Springs.
- 2012 *Field Director/Project Manager.* Archaeological survey for the Redwood Hostel Site Evaluations Project, Redwood National and State Park, NPS, Del Norte County, California.
- 2011 *Principal Investigator.* Archaeological survey of 4,995 acres in the North and South Ranges, Naval Air Weapons Station, China Lake, Inyo and San Bernardino counties.
- Principal Investigator.* Archaeological survey for the PG&E Santa Cruz 115 kV Reinforcement Project, Santa Cruz County, California. Insignia Environmental, Palo Alto.
- Field Director.* Archaeological test excavation at site CA-MNT-188, Monterey County, California. Pacific Gas & Electric Company.
- Field Director.* Archaeological test excavations at eight sites in Mendocino and Humboldt counties, California. Pacific Gas & Electric Company.
- 2010 *Field Director.* Archaeological survey for the Monterey Light Rail Transit Project, Monterey County, California. Parsons, San Francisco.
- 2009 *Field Director.* Archaeological test excavations at two sites (CA-SCR-2/H and CA-SCR-353/H), for the Caltrans Santa Cruz Guardrail Project, Santa Cruz County, California. Caltrans.
- Field Director.* Archaeological survey for the Rosedale Highway (SR-58) Widening Project, Kern County, California. BonTerra Consulting.
- 2007 *Field Director.* Archaeological test excavations at three sites (DNO-332, -334, and -XX13), Jedediah Smith Campground Project, Del Norte County, California. National Park Service.
- Field Director.* Archaeological survey for the Coso Target Infill Project (380 acres), Inyo County, Naval Air Weapons Station, China Lake, California.
- 2006 *Crew Chief.* Gold Butte Survey Project, Clark County, Nevada. BLM.
- Field Director.* Archaeological Survey of the Pinyon East Project (2067 acres), Inyo County, Naval Air Weapons Station, China Lake, California.
- Field Director.* Archaeological survey for the Tennessee Spring Project (5000 acres), Inyo County. Naval Air Weapons Station, China Lake, California.
- Field Director.* Archaeological survey for the Nevada Power Reid Gardner Facility Storage Yard and Ponds Expansion Project, Clark County, Nevada (560 acres)

- Crew Chief.* Archaeological survey for the Ely Four Parcels Project (1220 acres), Lincoln and White Pine Counties, Nevada. Bureau of Land Management, Ely Field Office.
- 2005 *Field Director.* Archaeological survey of Upper Centennial Flat (1080 acres), Inyo County. Naval Air Weapons Station, China Lake, California.
- Field Director.* Archaeological survey for the Rancheria Gulch Project (250 acres), Mono County, California. Bureau of Land Management, Bishop Field Office.
- Field Director.* Mitigation of site 26Ck4247, Clark County, Nevada. Bureau of Land Management, Las Vegas Field Office.
- Field Director.* Archaeological survey for the Mace Wildfire Damage Assessment Project (191 acres), Kern County, California. California Department of Forestry.
- 2003 *Crew Chief.* Archaeological survey of the Harry Allen to Lake Mead Power Corridor (48 linear miles). Clark County, Nevada. Nevada Power Company.
- 2002 *Co-Field Director.* Pinyon In-Fill Survey Project, Inyo County. Naval Air Weapons Station, China Lake, California.
- Crew Chief.* Archaeological survey for the Bulls Eye Project. Naval Air Weapons Station, China Lake, California.
- 2001 *Crew Chief.* Phase II excavations of CA-SLO-273/H and CA-SLO-274, two Middle Period shell midden sites, for the Caltrans Arroyo de Los Chinos culvert replacement project near Piedras Blancas, California.
- 2001 *Crew Chief.* Phase II excavations of 28 prehistoric sites at Airport Lake, Naval Air Weapons Station, China Lake, California.
- Crew Chief.* Phase II excavations of CA-MNT-437, a Middle Period shell midden, for Pacific Bell fiber-optic line installation project in Carmel Highlands, California.
- Crew Chief.* Phase II excavations of 14 prehistoric sites for the Pinyon-Coso Military Target project. Naval Air Weapons Station, China Lake, California.
- Crew Chief.* Survey of approximately 2,000 acres between Lake Tahoe and Marlette Lake for Lake Tahoe Nevada State Park. Historic and prehistoric site recordation. Washoe, Carson City, and Douglas counties, Nevada.
- Crew Chief.* Archaeological survey along the Western Area Power Administration transmission lines in Sacramento County, California.
- 2001 *Crew Chief.* Archaeological survey of 200 acres for Fort Independence Indian Reservation, Inyo County, California.
- Crew Chief.* Archaeological survey for natural gas pipeline from Reno to Wadsworth, Nevada for Tuscarora Gas Transmission Company. Nevada.
- 2000 *Field Technician.* Phase II excavation of prehistoric sites for Hungry Valley project for the Tuscarora Wadsworth Lateral Pipeline, Nevada.
- Crew Chief.* Archaeological survey of 1,011 acres in the Chocolate Mountains, Riverside and Imperial Counties. Southwest Division, Naval Facilities Engineering Command, San Diego, California.
- Crew Chief.* Archaeological survey of 1,830 acres between Marlette and Spooner lakes for Lake Tahoe Nevada State Park. Historic and prehistoric site recordation. Washoe, Carson City, and Douglas counties, Nevada.

- Field Technician.* Archaeological survey at Silver Lake for El Dorado Irrigation District. Historic and prehistoric site recordation. Amador County, California.
- 1999 *Crew Chief.* Phase II excavation of CA-SBA-1152 (Arroyo Quemado site). Santa Barbara County, California. Caltrans, District 05.
- Field Technician.* Phase II excavation of CA-ALA-575 and -576 for Highway 680 Widening Project. Alameda County, California. Caltrans, District 04.
- Crew Chief.* Survey of rural highways in Santa Barbara, Santa Cruz, and San Luis Obispo Counties, California. Caltrans District 05.
- Field Technician.* Archaeological survey on MCB Camp Pendleton, San Diego County, California.
- Field Technician.* Phase II excavation of CA-SCR-313. Santa Cruz County, California. Caltrans District 05.
- Field Technician.* Archaeological survey of 288 acres for D3 Alternative Transmission Line in Modoc County, California. Cal Energy.
- 1997–1999 *Crew Chief and Field Technician.* Test and Data Recovery Excavations at CA-SBA-3404/H (ethnographic village of Jonjonata), California. Santa Barbara County Association of Governments.
- 1998 *Crew Chief and Field Technician.* Archaeological survey of 2564 acres (194 sites) for the Pinyon-Coso Military Target in the Coso Mountain Range, Inyo County, California. Naval Air Weapons Station, China Lake.
- 1998 *Field Technician.* Archaeological survey in Inyo County for the Stimulator Project. Naval Air Weapons Station, China Lake, California.
- Field Technician.* Phase II excavation of CA-INY-4339. Naval Air Weapons Station, China Lake, California.
- Field Technician.* Phase II excavation of five sites for the Manzanar Highway Widening Project, Inyo County, California. Caltrans.
- Field Technician.* Phase II excavations of 12 sites for the Burro Canyon Project, Inyo County. Naval Air Weapons Station, China Lake, California.
- 1997 *Field Technician.* Test and Data Recovery Excavations at SBA-3404/H, Jonjonata Ethnographic Village, Santa Barbara County, California.
- 1997 *Field Technician* (Albion Environmental, Santa Cruz). Survey and site recording for the Stemple Creek Rehabilitation Project, Sonoma and Marin Counties, California.
- Field Technician* (Archaeological Research Center, Sacramento). Survey of Rainbow Canyon. Marine Corps Air Ground Combat Center, Twentynine Palms, California.
- Lead Monitor, Crew Chief* (Albion Environmental, Santa Cruz). Santa Clara University Project. Responsibilities consisted of coordinating construction monitoring, including training and supervision of archaeological monitors. Supervised crew during excavation of historic privies at the Communications, Public Policy, and Ethics Building Site.
- Field Technician.* Volunteer assistant during excavation of Pajonal Alto, a multi-component village site located in southwest Peru.

- Crew Chief (Anthropological Studies Center, Sonoma)*. Supervised field crew in the excavation of CA-ALA-17, a prehistoric shell mound (Nelson Mound). Caltrans District 04.
- 1996 *Crew Chief (Anthropological Studies Center, Sonoma)*. Supervised field crew in the excavation of CA-MNT-179 and CA-MNT-267, prehistoric shell middens on the coast of Monterey County for the San Simeon Archaeological Project for Caltrans. Assisted laboratory director with artifact cleaning and sorting.
- Field Technician (BioSystems Analysis, Santa Cruz)*. Phase III excavations of prehistoric sites CA-SLO-1797, CA-SLO-1798, and CA-SLO-1799 in San Luis Obispo County for the Coastal Branch, Phase II, State Water Project.
- Field Technician (BioSystems Analysis, Santa Cruz)*. Survey and site recording of prehistoric sites within Fort Hunter Liggett Military Installation in Monterey County for Grazing Lease Permit Project.
- Field Technician (BioSystems Analysis, Santa Cruz)*. Excavation of CA-SCR-117, a prehistoric shell midden site in Santa Cruz County for the U.S. Abalone Project.
- Field Technician (Pacific Legacy, Inc., Albany)*. Phase II excavation of prehistoric site CA-INY-3458 in Inyo County for the South Lake Dam Project.
- Field Technician (Pacific Legacy, Inc., Albany)*. Phase II excavation of prehistoric sites CA-PLA-606-612 in Placer County for the Twelve Bridges Development Project.
- Field Technician (Pacific Legacy, Inc., Albany)*. Phase II excavation of prehistoric site JSA-1 in Santa Cruz County.
- 1995 *Field Technician (Pacific Legacy, Inc., Albany)*. Excavation of prehistoric sites in Lake County for the Geysers Wastewater Facility Project.
- Field Technician (BioSystems Analysis, Tiburon)*. Survey and site recording of prehistoric and historic sites in Nye County, Nevada for the Northumberland Land Exchange Project. BLM.
- 1995 *Field Technician (BioSystems Analysis, Santa Cruz)*. Excavation of prehistoric sites CA-SLO-1384, CA-SLO-1552, CA-SLO-1756, CA-SLO-1763, and CA-SLO-1797 in San Luis Obispo County for the Coastal Branch, Phase II, State Water Project.
- Field Technician (BioSystems Analysis, Santa Cruz)*. Phase III excavation of prehistoric sites CA-MNT-521 and CA-MNT-569 at Fort Hunter Liggett Military Installation, Monterey County.
- 1994 *Field Technician (BioSystems Analysis, Tiburon)*. Survey and site recording of prehistoric sites CA-MNT-1807 and CA-MNT-1808, -1809, -1810, -1811, and -1812 at Fort Hunter Liggett, Monterey County.
- Field Technician (BioSystems Analysis, Tiburon)*. Survey and site recording of prehistoric and historic sites for the Pendola Land Exchange Project, Nevada City and Truckee Ranger Districts, Tahoe National Forest.
- Field Technician (BioSystems Analysis, Tiburon)*. Survey and Route 68 Corridor Study at Fort Ord and Route 68, Monterey County. Caltrans.
- Field Technician (BioSystems Analysis, Tiburon)*. Survey and site recording of prehistoric and historic sites for the Larson Reforestation Project, Groveland Ranger District, Stanislaus National Forest.

- 1993 *Crew Chief*. Supervised field crew in the excavation at Mednikarovo, a Neolithic/Bronze Age tell site in southern Bulgaria. Assisted in the mapping and field survey of Podgorista, a Neolithic tell site in northeastern Bulgaria.
- 1992 *Crew Chief (Archaeological Resource Management, San Jose)*. Supervised field crew in the Phase II excavation of CA-SCR-239, the Santa's Village Site, in Santa Cruz County.
- Field Technician (Archaeological Resource Management, San Jose)*. Phase II excavation of CA-SCR-59, the Bonny Doon School Site, in Santa Cruz County.
- 1991–1992 *Excavation Monitor (Archaeological Resource Management, San Jose)*. Borland Building Construction Project, Scotts Valley. Recovered materials associated with CA-SCR-239.
- 1991 *Excavation Monitor (Archaeological Resource Management, San Jose)*. Convention Center Construction Project, downtown San Jose. Recovered remains from historic Chinatown settlement.
- 1990 *Field Assistant (University of Nevada, Reno)*. Shermantown Excavation Project (field school). Survey, site recordation, and excavation of a historic mining town site in northeastern Nevada.

EDUCATIONAL EXPERIENCE

- 2005 Recipient, James A. Bennyhoff Memorial Award. Received stipend to further analysis of the Santa Rita Village site (CA-ALA-413) in Pleasanton, specifically to refine chronological placement of the Meganos Culture in Bay Area prehistory.
- 2003–2005 *Teaching Assistant*. U.C. Davis. Led discussions and labs for introductory and upper-division anthropology classes. Read and critically evaluated essays and exams.
- 1991–1993 *Reading Assistant*. U.C. Santa Cruz. Read and critically evaluated essays for the upper division anthropology class "Origins of Farming" taught by Dr. Diane Gifford-Gonzales.
- 1991–1993 *Docent*. Santa Cruz Mission Adobe State Historic Park. Volunteer duties included conducting interpretive tours with an archaeological theme for park visitors through a restored adobe building as well as assisting with fund raising events and staffing gift shop.

PUBLICATIONS

Hildebrandt, William R., Kelly R. McGuire, Jerome King, Allika Ruby, and D. Craig Young

- 2016 *Prehistory of Nevada's Northern Tier: Archaeological Investigations along the Ruby Pipeline*. American Museum of Natural History Anthropological Papers, No. 101. New York City.

Hildebrandt, William R., and Allika Ruby

- 2006 Prehistoric Pinyon Exploitation in the Southwestern Great Basin: A View from the Coso Range. *Journal of California and Great Basin Anthropology* 26(1)11-31.

Ruby, Allika

- 2005 Itinerant Industry: Nineteenth-Century Charcoal Production in the Coso Mountains. In *Proceedings of the Society for California Archaeology*, Vol. 18. Edited by S. A. Waechter, D. Laylander, and G.G. White. Society for California Archaeology. Chico, California.

Hildebrandt, William R., and Allika Ruby

- 2004 Archaeological Discovery of Two Wooden Bows from the Coso Range, Inyo County, California. *Journal of California and Great Basin Anthropology* 24(2):183-192.

REPORTS

Ruby, Allika, and Patricia Mikkelsen

- 2016 Draft Salvaging the Past: A Case Study in Archaeological Inquiry, CA-SBA-1703, Goleta, California. Prepared for Flat Iron West, Inc., San Marcos, California.

Ruby, Allika, Laura Murphy, and Cheryl Brookshear

- 2016 Draft Addendum 1: Cultural Resources Report for the Sir Francis Drake Boulevard Improvement Project, Point Reyes National Seashore, Marin County, California. Prepared for Jacobs Engineering Group, Inc., Denver.

Ruby, Allika

- 2015 *Phase III Data Recovery Excavations at CA-SBA-1703 for the Las Vegas and San Pedro Creeks Capacity Improvements Project, US Route 101, Santa Barbara County, California.* Prepared for Caltrans District 5, San Luis Obispo.
- 2015 *Extended Phase I Investigation at CA-MNT-1420 for the North Fork Shoulder Widening Project, Highway 198, Monterey County, California.* Prepared for Caltrans District 5, San Luis Obispo.
- 2015 *Archaeological Survey Report and Extended Phase I Study for the State Route 152 Holohan Road/College Road Intersection Improvement project in Watsonville, Santa Cruz County, California.* Prepared for David J. Powers, Inc., San Jose.
- 2015 *Historic Resources Compliance Report for the State Route 152/Holohan Road/College Road Intersection Improvement Project, Watsonville, Santa Cruz County, California.* Prepared for David J. Powers, Inc., San Jose.

Ruby, Allika, Jerry Rohde, and Naomi Scher

- 2015 *Archaeological Survey Report for the Bull Creek Floodplain Restoration Project, California State Parks, Humboldt County, California.* Prepared for California State Parks.

Ruby, Allika

- 2014 *Archaeological Survey Report for the Van Duzen-Peanut State Route 36 Road Improvement Project, Humboldt County, California.* Prepared for Jacobs Engineering Group, Inc., Denver.
- 2014 *Historic Property Survey Report for the Van Duzen-Peanut State Route 36 Road Improvement Project, Humboldt County, California 01-HUM-36 PM 36.1 to 40.5.* Report prepared for Jacobs Engineering Group, Inc., Denver on behalf of Federal Highway Administration, Central Federal Lands Highway Division, Lakewood, Colorado.
- 2014 *Extended Phase I and Phase II Archaeological Investigations of CA-HUM-1157 (P-12-2606) for the Van Duzen-Peanut State Route 36 Improvement Project, Humboldt County, California.* Prepared for Jacobs Engineering Group, Inc., Denver.

Ruby, Allika, and Chandra Miller

- 2014 *Archaeological and Historical Resources Inventory and Evaluation Report for the Hammonton-Smartsville Road Project, Yuba County, California*. Prepared for Jacobs Engineering Group, Inc., Denver.

Kellawan, Rebecca, and Allika Ruby

- 2014 *Archaeological Survey Report for the Coast to Crest Trail Project, Del Norte Coast Redwoods State Park, Del Norte County, California*. Report submitted to California State Parks, North Coast Redwoods District, Eureka, California.

Ruby, Allika

- 2013 *First, Second, and Third Addendums to Archaeological Survey Report for the PG&E Santa Cruz 115 Kv Reinforcement Project, Santa Cruz County, California*. Report submitted to Insignia Environmental, Palo Alto, California.

Kellawan, Rebecca, Adrian R. Whitaker, and Allika Ruby

- 2013 *Archeological Survey Report for the Redwood Hostel Site Evaluations Cultural Resources Component, Redwood National and State Parks, Del Norte County, California*. National Park Service, Orick.

Ruby, Allika

- 2012 *Archaeological Inventory of Ten Locations within NAWS China Lake, Inyo and San Bernardino Counties, California*. Prepared for Naval Facilities Engineering Command, Southwest Division for Contract #N62473-11-D-2220, Task Order 19.
- 2012 *The Neophyte Indian Village of Mission San Carlos Borromeo del Rio Carmelo: Archaeological Investigations at CA-MNT-188/H, Monterey County, California*. Pacific Gas and Electric Company, Sacramento.
- 2012 *Cultural Resource Study for a New Potential Landing Site near Hames Road in Aptos, PG&E Santa Cruz 115kV Transmission Line Project*. Letter report submitted to Pacific Gas and Electric, San Francisco, California.

Ruby, Allika, and Cindy Baker

- 2012 *Archaeological Survey Report for the PG&E Santa Cruz 115 kV Reinforcement Project, Santa Cruz County, California*. Report submitted to Insignia Environmental, Palo Alto, California.

Ruby, Allika

- 2011 *Archaeological Survey Report for the State Route 58 Widening Project (Rosedale Highway), Kern County, California*. BonTerra Consulting, Pasadena.

Ruby, Allika

- 2010 *Archaeological Survey Report for the Monterey Peninsula Light Rail Transit Project*. Parsons Corporation, San Francisco on behalf of the Transportation Agency for Monterey County.
- 2010 *Cultural Resources Technical Report for the Windsor Substation Project, Windsor, Sonoma County, California*. TRC, Half Moon Bay on behalf of PG&E.
- 2010 *Archaeological Survey and Extended Phase I Report for the Gibson Canyon Road Improvement Project, Solano County, California*. JRP Historical Consulting, Davis on behalf of Solano County Public Works.

Ruby, Allika, D. Craig Young, Daron Duke, Brian Byrd, and R. Scott Baxter

- 2010 *Archaeological Data Recovery of 45 Sites within the Superior Valley Expansion area, the National Training Center, Fort Irwin, San Bernardino County, California.* CALIBRE on behalf of US Army National Training Center, Fort Irwin, California.

Ruby, Allika, Phil Kaijankoski, and Patricia Mikkelsen

- 2010 *Extended Phase I/Phase II Testing at CA-SCR-2/H and CA-SCR-353/H for the Santa Cruz Guardrail Project, State Route 1, Santa Cruz County, California.* Caltrans District 5, San Luis Obispo.

Ruby, Allika, Sharon Waechter, Charlene Duval, and Jeffrey Rosenthal

- 2010 *Santa Clara Valley Transportation Authority (VTA) Silicon Valley Rapid Transit Corridor EIS/SEIR Technical Memorandum: Archaeological Survey and Sensitivity Report for SVRTC EIS/SEIR Alternative.* VTA, San Jose.

Ruby, Allika

- 2009 *Cultural Resources Survey of the Rio Oso to Lincoln 115 kV Transmission Line Project, Placer and Sutter Counties, California.* TRC, Half Moon Bay.
- 2009 *Cultural Resource Damage Assessment Report for the X3 Road Mobile Target Project, NAWS China Lake, Inyo County, California.* Environmental Planning and Management Office, Naval Air Weapons Station, China Lake, California.
- 2009 *Cultural Resource Damage Assessment Report for the G2 Cable Installation Project, NAWS China Lake, San Bernardino County, California.* Environmental Planning and Management Office, Naval Air Weapons Station, China Lake, California.

Ruby, Allika, and William R. Hildebrandt

- 2009 *Cultural Resource Eligibility Report for the Fiber Optic Line Installation, Coso Peak to South Junction Ranch Communications Facility, Naval Air Weapons Station, China Lake, Inyo County, California.* Environmental Planning and Management Office, Naval Air Weapons Station, China Lake, California.

Hildebrandt, William R. and Allika Ruby

- 2009 *National Register of Historic Places Evaluation of CA-INY-7117, Naval Air Weapons Station, China Lake, Inyo County, California.* Environmental Planning and Management Office, Naval Air Weapons Station, China Lake, California.

Ruby, Allika

- 2008 *Cultural Resources Inventory for the Denniston Reservoir Dredging Project, San Mateo County, California.* TRC, Half Moon Bay on behalf of Coastside County Water District.

Ruby, Allika and William R. Hildebrandt

- 2008 *Pinyon East: Archaeological Survey of 2,067 Acres within the Coso Target Range at Naval Air Weapons Station, China Lake, Inyo County.* Environmental Planning and Management Office, Naval Air Weapons Station, China Lake, California.

Ruby, Allika

- 2007 *A Section 110 Cultural Resources Inventory and Overview of 4,950 Acres West of the Argus Range and East of Darwin Wash, Naval Air Weapons Station, China Lake, Inyo County, California.* Environmental Planning and Management Office, Naval Air Weapons Station, China Lake, California.

Ruby, Allika, and Amy Gilreath

- 2006 *Class III Inventory of the Nevada Power Storage Yard and Ponds Expansion Project at Reid Gardner Facility, Clark County, Nevada.* Bureau of Land Management, Las Vegas Field Office.
- 2006 *Cultural Resources Inventory for the Reduction of Fuel within Four Parcels, Lincoln and White Pine Counties, Nevada.* Bureau of Land Management, Ely Field Office.

Ruby, Allika, and William R. Hildebrandt

- 2006 *Archaeological Survey of 1005 Acres in Upper Centennial Flat, Coso Mountains, at Naval Air Weapons Station, China Lake, Inyo County, California.* Epsilon Systems Solutions, Inc., Ridgecrest, California; submitted to Naval Air Weapons Station, China Lake, California.

Ruby, Allika

- 2006 *Three Lakes Valley Groundwater Development Project Cultural Resources Inventory Negative Report.* Letter report submitted to Bureau of Land Management, Las Vegas, Nevada.

Ruby, Allika

- 2005 *Archaeological Report and Fire-Damage Assessment of 10 Sites in the Mace Fire Area, Kern County, California.* California Department of Forestry and Fire Protection, Southern Region, Fresno.
- 2005 *Cultural Resources Inventory for the Wetlands Reserve Program of 160 Acres at McAravy Farms, Yolo County, California.* USDA, Natural Resources Conservation Office, Davis.

Ruby, Allika, and William R. Hildebrandt

- 2005 *The Pinyon Infill Project: Archaeological Survey of 800 Acres within the Coso Target Range Naval Air Weapons Station, China Lake, Inyo County, California.* Environmental Project Office, Naval Air Weapons Station, China Lake, California.

Ruby, Allika, Amy J. Gilreath, and Jerome King

- 2005 *Mitigation of Site 26Ck4247 in Northern Las Vegas Valley, Clark County, Nevada.* Bureau of Land Management, Las Vegas Field Office. BLM Report No. 5-2523.

Ruby, Allika, and William R. Hildebrandt

- 2003 *Test Excavations at a Portion of CA-MNT-437, Carmel Highlands, California.* Pacific Bell, Salinas on behalf of Caltrans District 05, San Luis Obispo.

Hildebrandt, William R., and Allika Ruby

- 2003 *Archaeological Testing of Fourteen Prehistoric Sites within the Coso Target Range at Naval Air Weapons Station, China Lake, California.* Environmental Project Office, Naval Air Weapons Station, China Lake, California.

King, Jerome H., D. Craig Young, and Allika Ruby

- 2003 *Archaeological Survey of 5,430 Acres of BLM Lands for the Sloan Canyon NCA/Tract A, West Henderson, and Red Rock Canyon NCA/Hughes Land Exchanges, Clark County, Nevada.* Bureau of Land Management, Las Vegas Field Office.

Hildebrandt, William R., and Allika Ruby

- 2002 *Archaeological Survey and Evaluation of the Bulls Eye Target Area, Coso Target Range, Naval Air Weapons Station, China Lake*. Environmental Project Office, Naval Air Weapons Station, China Lake, California.

Hildebrandt, William R., and Allika Ruby

- 2000 *Cultural Resources Treatment Element for the Coso Target Range, Naval Air Weapons Station, China Lake*. Report submitted to Southwest Division, Naval Facilities Engineering Command, San Diego, California.

Hildebrandt, William R., and Allika Ruby

- 1999 *Archaeological Survey of the Coso Target Range: Evidence for Prehistoric and Early Historic Use of the Pinyon Zone at Naval Air Weapons Station, China Lake, Inyo County, California*. Environmental Project Office, Naval Air Weapons Station, China Lake, California.

Fitzgerald, Richard T., Jr., and Allika Ruby

- 1997 *Archaeological Test Excavations at CA-SCR-117, the Davenport Landing Site for U.S. Abalone, Inc. Davenport, CA*. Garcia and Associates, San Anselmo. Prepared for U.S. Abalone, Inc., Davenport, California.

Ruby, Allika

- 1997 *Archaeological Survey of Two Parcels of Land Located at 476 Blossom Hill Road and 700 Dado Street; San Jose, California*. Garcia and Associates, San Anselmo. Copy on file at the Northwest Information Center, Historical Resources File System, Rohnert Park, California.
- 1997 *Archaeological Survey of 650 Highland Avenue, Santa Cruz, California*. Garcia and Associates, San Anselmo. Copy on file at Northwest Information Center, Historical Resources File System, Rohnert Park, California.

Blount, Clinton, and Allika Ruby

- 1997 *Archaeological Survey for the Stemple Creek Rehabilitation Project*. Albion Environmental, Inc., Santa Cruz. Copy on file at the Northwest Information Center, Historical Resources File System, Rohnert Park, California.

Fitzgerald, Richard T., Jr., and Allika Ruby

- 1997 *Summary of Extended Survey Investigations, CA-SLO-1552 Coastal Branch, Phase II*. Garcia and Associates, Santa Cruz. Prepared for California Department of Water Resources.

Holson, John, and Allika Ruby

- 1994 *Monterey County Water Resources Agency Salinas River Basin Management Plan Cultural Evaluation*. Pacific Legacy, Inc., Albany, CA. Submitted to EDAW, Inc., San Francisco.

PAPERS PRESENTED

- 2014 "Lonesome Landscapes as Post-Contact Refugia." With Adrian Whitaker. Presented at 79th Annual Meeting Society for American Archaeology, Austin.

- 2013 "The Antiquity of Southern Wintuan Occupation in the Sacramento Valley of California. With Al Schwitalla. Presented at 78th Annual Meeting Society for American Archaeology, Honolulu.
- 2012 "'Eight or ten bundles of straw' – Archaeological Investigations at CA-MNT-188, the Neophyte Indian Village of Mission San Carlos Borromeo del Rio Carmelo." Presented at Society for California Archaeology's 47th Annual Meeting, Berkeley.
- 2010 "Dietary Persistence and Tool Selection in a Changing Economy: Obsolete or Optimal?" (Allika Ruby and William Hildebrandt) Presented at 75th Annual Meeting Society for American Archaeology, St. Louis, Missouri.
- 2008 "The Dynamic Social Landscape of the Coso Pinyon Zone" (Allika Ruby, William Hildebrandt, and Jay King). Paper presented at 31st Great Basin Anthropological Conference, Portland, Oregon.
- 2007 "Thirty Years After: New Research at Santa Rita Village." Presented at Society for California Archaeology 41st Annual Meeting, San Jose.
- 2006 "Late Holocene Pinyon use in the Southwestern Great Basin." Presented at 30th Annual Great Basin Anthropological Conference, Las Vegas, Nevada.
- 2004 "Itinerant Industry: 19th Century Charcoal Production in the Coso Mountains." Presented at Society for California Archaeology 38th Annual Meeting, Riverside.
- 2001 "Basque-ing among the Aspens: Sheepherder Tree Carvings in Lake Tahoe Nevada State Park" (Amanda Cannon and Allika Ruby). Presented at Society for California Archaeology Annual Meeting, Modesto.
- 2000 "The Sheep and the Bow: The Effects of Technological Transition during the Haiwee Period in the Coso Range." (Allika Ruby and William R. Hildebrandt). Presented at Society for California Archaeology Annual Meeting, Riverside.
- 1997 "Recent Research at CA-SCR-117; From B.P. to U.S. Abalone." Presented at Society for California Archaeology Annual Meeting, Rohnert Park.

SEETHA N. REDDY

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1529 Pastal Way, Davis, CA 95618

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Education

1994. PhD Anthropology, UW-Madison.

1988. MA Anthropology, UW-Madison.

1986. BA Honors, Brandeis University, Waltham, MA.

Reddy Anthropology Consulting Certifications

- Caltrans Disadvantaged Business Enterprise (DBE) # 41665
- Women Owned Small Business (WOSB), SBA
- California Public Utility Commission Women Minority Business Enterprise (WMBE)

Employment History

- 2005-present. President, *Reddy Anthropology Consulting (RAC)*
- 2005-2014. Office Director, Project Manager, Principal Investigator and Paleoethnobotanist. *Statistical Research, Inc.* Woodland, CA
- 1995-2004. Senior Archaeologist, Project Manager & Paleoethnobotanist. *ASM Affiliates*, Carlsbad, CA
- 2005-2009. Lecturer. *Sacramento City College, CA*
- 1998-2003. Lecturer. Liberal Studies Program, *California State University, San Marcos, CA.*
- 2001-2003. Visiting Scholar. Dept of Anthropology, *University of California, San Diego.*
- 1995-2000. Postdoctoral Scholar. Department of Anthropology, *University of California, San Diego.*
- 1993-1994. Instructor/Adjunct Faculty. Dept Behavioral Sciences, *Palomar College*, San Marcos, CA.
- 1993-1994. Archaeology Consultant for *Brian F. Mooney Associates*, San Diego, CA.
- 1989-1991. Assistant to the State Archaeologist, *State Historical Society*, Madison, WI.
- 1986-1990. Research/ Project Assistant. Dept. of Anthropology, *University of Wisconsin-Madison.*

Cultural Resource Management Archaeology Highlights

- Project Manager and Principal Investigator (1995-present)
- Office Director and Operations Manager (2005-2014)
- Production and Personnel Manager (1998-2001)
- Principal Investigator for 50+ CRM projects
- Paleoethnobotanical Specialist (1985-present)

Professional Memberships

- Register of Professional Archaeologists (RPA), Member #10368
- Society for American Archaeology (SAA)
Editorial Board, *Advances in Archaeological Practice* 2015-present)
- Society for California Archaeology (SCA)
SCA Committee: Core Member and Lead of Women in California Archaeology (2012-present)
- Court Appointed Special Advocate (CASA) for Foster Children, Yolo County (2014-present)

Expertise and Specializations

- Ethnography: Overviews, Syntheses, Native American Consultation
- Archaeology: Subsistence Systems, Settlement patterns, Human Behavior, Environmental Management
- Paleoethnobotany: All facets of macrobotanical analysis (Old World and California)
- Management: Project Management and Oversight, Proposal Writing, Budget Generation and Oversight
- Geographical: California (Counties with prior experience: Alameda, Butte, Contra Costa, Imperial, Fresno, Inyo, Kern, Los Angeles, Placer, Madera, Mendocino, Riverside, San Bernardino, San Diego, San Mateo, Solano, Sonoma, and Tulare), Northwest and South India

Experience – Selected Highlights

- Assistant Project Manager and Field Lab Supervisor. Feather River Levee Project, Data Recovery. RAC Sub-consultant for Far Western Anthropological Research Group, Inc., 2014-present.
- Ethnographic Study for Isabella Dam Evaluation Project. RAC Sub-consultant for Far Western Anthropological Research Group, Inc. and ACOE, Sacramento. 2015-present.
- Principal Investigator. ETIC, Inc. Archaeological Survey and Native American Consultation, Solana County, CA. 2015.
- Principal Investigator. Crystal Springs / El Cerrito Phase II Trunk Sewer Improvement Project, Town of Hillsborough. RAC Sub-consultant for ESA Consulting, Inc. 2014-2015.
- Project Manager, Principal Investigator and Paleoethnobotanist. Playa Vista Archaeological and Historical Project, Large scale data recovery, analysis, and write-up. For Statistical Research Inc., 2006-2014.
- Co-Project Manager, PI and Paleoethnobotanist. Caltrans District 3, Willits Bypass Project, Phases XPh1 and Ph3. For Statistical Research Inc. and Caltrans. 2009-2014.
- Co-Project Manager and Principal Investigator. Caltrans Headquarters Special Projects including cultural affiliation studies, collections reviews, and management, and database management. For Statistical Research Inc., 2009-2014.
- Principal Investigator. Section 110 Survey and Condition Assessment of sites at Lake Sonoma and Lake Mendocino, ACOE, San Francisco and Sacramento. For Statistical Research Inc., 2010-2011.
- Principal Investigator. Cultural Resources Predictive Models for San Diego and Riverside SAMPs, ACOE, Los Angeles. For Statistical Research Inc., 2009-2010.
- Principal Investigator. Archaeological Survey and Testing for Proposed Seismic Remediate Project at Lake Success, Tulare County, CA. ACOE, Sacramento. For Statistical Research Inc., 2007-2008.
- Project Paleoethnobotanist. For testing and data recovery projects conducted by Statistical Research Inc., 2004-2014.
- PM, PI, Project Paleoethnobotanist. For series of testing and data recovery projects conducted by ASM Affiliations on Camp Pendleton Marine Corps Base, CA through ACOE, SWDIV NAVFAC and Caltrans, 1994-2004.

Recent Selected Publications

Reddy, Seetha N.

2015. Feeding Family and Ancestors: Persistence of Traditional Native American Lifeways during the Mission Period in Coastal Southern California. *Journal of Anthropological Archaeology* 37: 48-66.
- Reddy, Seetha N. Justin Lev-Tov, Sarah Van Galder, and Richard Ciolek-Torello
2015. Fish Tales from the Ballona: The Role of Fish Along the Mainland Coast of Southern California. *JCGBA* 35(2): 237-255
- Richard Ciolek-Torello, Jeffrey A. Homburg, Seetha N. Reddy, John G. Douglass, & Donn R. Grenda
2013. Living in the Ballona Wetlands of the Southern California Coast: Paleoenvironmental Reconstruction and Human Settlement. *Jour of Wetland Archaeology* 13 (1): 1-28.
- Reddy, Seetha N. & Jon Erlandson
2012. Macrobotanical food remains from a trans-Holocene sequence at Daisy Cave (CA-SMI-261), San Miguel Island, *California Journal of Archaeological Science* 39: 33- 40
- Sutton, Mark Q., Jill K. Gardner, Lance Wollwage & Seetha N. Reddy
2010. *Blue Cut: A Greven Knoll III Site in the Cajon Pass, San Bernardino County, California*. Archives of California Prehistory, no. 58. Coyote Press, Salinas, CA.
- Reddy, Seetha N.
2009. Harvesting the Landscape: Defining Protohistoric Plant Exploitation in Coastal Southern California. *Proceedings of the Society for California Archaeology*, Vol 22.
2003. *Discerning Palates of the Past: An Ethnoarchaeological Study of Crop Cultivation and Plant Usage in India*. International Monographs in Prehistory, Ethnoarchaeological Series 5, Ann Arbor, Michigan.

Recent Selected Technical Reports

Homburg, Jeffrey A., John G. Douglass, & Seetha N. Reddy

2014. *Paleoenvironment, and Culture History*. People in a Changing Land: The Archaeology and History of the Ballona in Los Angeles, California, vol. 1. D. R. Grenda, R. Ciolek-Torello, and J. H. Altschul, series editors. SRI, Redlands, CA, and Tucson, AZ.
- Vargas, Benjamin R., John G. Douglass, and Seetha N. Reddy
2014. *Archaeological Sites and Chronology*. People in a Changing Land: The Archaeology and History of the Ballona in Los Angeles, California, vol. 2. D. R. Grenda, R. Ciolek-Torello, and J. H. Altschul, series editors. SRI, Redlands, CA, and Tucson, AZ.
- Reddy, Seetha N. & John G. Douglass (Eds.)
2014. *Material Culture and Subsistence Practices*. People in a Changing Land: The Archaeology and History of the Ballona in Los Angeles, California, vol. 3. D. R. Grenda, R. Ciolek-Torello, and J. H. Altschul, series editors. SRI, Redlands, CA, and Tucson, AZ.

Reddy, Seetha N.

2014. Prehistoric Plant Use and Intensification in the Ballona Lowlands. In *Material Culture and Subsistence Practices*. People in a Changing Land: The Archaeology and History of the Ballona in Los Angeles, California, vol. 3, edited by S. N. Reddy, and J. G. Douglass, pp. 649-764. D. R. Grenda, R. Ciolek-Torello, and J. H. Altschul, series editors. SRI, Redlands, CA, and Tucson, AZ.
- Stanton, Patrick B., John G. Douglass, and Seetha N. Reddy
2014. *Bioarchaeology and Paleodemography*. People in a Changing Land: The Archaeology and History of the Ballona in Los Angeles, California, vol. 4. D.R. Grenda, R. Ciolek-Torello, and J. H. Altschul, series editors. SRI, Redlands, CA, and Tucson, AZ.
- Douglass, John G., Seetha N. Reddy, Richard Ciolek-Torello, and Donn R. Grenda
2014. *Gabrielino/Tongva Origins and Development: A View from Guaspet*. People in a Changing Land: The Archaeology and History of the Ballona in Los Angeles, California, vol. 5. D. R. Grenda, R. Ciolek-Torello, and J. H. Altschul, series editors. Draft. SRI, Redlands, CA, and Tucson, AZ.
- Reddy, Seetha N. , John G. Douglass, Richard Ciolek-Torello, Donn R. Grenda, and Patrick Stanton
2014. Mortuary, Mourning, and Feasting Practices in the Ballona. In *Gabrielino/Tongva Origins and Development: A View from Guaspet*. People in a Changing Land: The Archaeology and History of the Ballona in Los Angeles, California, vol. 5, edited by J. G. Douglass, J. G., S. N. Reddy, R. Ciolek-Torello, and D. R. Grenda Chapter 6. D. R. Grenda, R. Ciolek-Torello, and J. H. Altschul, series editors. Draft. SRI, Redlands, CA, and Tucson, AZ.
- Reddy, Seetha N., Dean M. Duryea, Jr., Karen K. Swope and Jason D. Windingstad
2014. *Cultural Resources Assessment of the Golden Hills Winds Repowering Project, Alameda County, California*. SRI Technical Report 14-15. Submitted to CH2MHill and NextEra, California.
- Reddy, Seetha N.
2014. Macrobotanical remains from LAN-2786. Data Recovery. SRI report on file.
2013. A summary of the evidence used to determine the cultural affiliation of the human remains and associated funerary objects from archaeological sites CA-CCO-30 and CA-CCO-308. Statistical Research, Inc. Report submitted to Caltrans Headquarters, Sacramento, CA.
2012. *Macrobotanical Remains from Yol-125/H, California*. Report submitted to Pacific Legacy. Statistical Research Technical Report 12-63.
2011. Section 110 Survey and Condition Assessment of 15 Sites at Lake Mendocino, Mendocino County, California. For USACOE, San Francisco, CA (with contributions from Colin I. Busby, Christopher Canzonieri, Donna M. Garaventa, Scott Kremkau, James Mayer, Julie A. Minor, Seetha N. Reddy, Joshua Trampier, and William A. White). SRI Technical Report 10-48

John E. Berg

CURRENT POSITION

- 1999–Present *Senior Archaeologist.* Far Western Anthropological Research Group, Inc.
1988–1995 *Staff Archaeologist.* Far Western Anthropological Research Group, Inc.

EDUCATION

- 1986 M.A. in Anthropology, California State University, Sacramento.
1979 B.A. in Anthropology, California State University, Sacramento.

PROFESSIONAL ORGANIZATIONS

- Register of Professional Archaeologists.
- American Schools of Oriental Research (ASOR)

PROFESSIONAL EXPERIENCE

- 2016 *Field Director.* Phase II Studies at CA-SLO-879/H for the Morro Bay to Cayucos Connector Project, San Luis Obispo County. 01-SLO-PM 31.97–33.27. For Terre Verde, San Luis Obispo.
- 2016 *Field Director.* Archaeological Inventory for the Granite Bay Multi-use and Center Trails Rehabilitation Project, Folsom Reservoir. For California State Parks and Recreation.
- 2015 *Field Director.* Extended Phase I Investigation for the Prather Curve Correction Project. 06-FRE-168 PM T29.0 – T29.4. For Caltrans District 6.
- 2015 *Field Director.* Cultural resources inventory of 13,000 acres for the Onyx Ranch State Vehicular Recreation Area, Kern County. For California Department of Parks and Recreation.
- 2015 *Field Director.* Extended Phase I investigations at CA-MNT-277/278 for security fencing at Moss Landing Substation. For Pacific Gas & Electric Co.
- 2015 *Field Director.* Test excavations at CA-MEN-1807. Mendocino Headlands, Mendocino County. For California Department of Parks and Recreation.
- 2014 *Field Director.* Test Excavations at CA-MRP-660/H and MRP-661/H. Mariposa Grove and South Entrance, Yosemite National Park. For Yosemite National Park/Park Service.
- 2014 *Field Director.* Excavations at CA-SLO-2569/H (Giacomazzi Parcel) for the Los Osos Wastewater Facility. San Luis Obispo County.
- 2014 *Field Director.* Survey of 12 miles of Sir Francis Drake Boulevard at Point Reyes National Seashore. For U.S. National Park Service and Federal Highways Administration.
- 2014 *Field Director.* Survey of 13 miles of roadway on Whitney Portal Road (Inyo County) and Convict Lake Road (Mono County). For Inyo National Forest and Federal Highways Administration.
- 2014 *Field Director.* Survey of 13 miles of gas pipeline corridor for the Line 107 Deactivation Project. For Pacific Gas & Electric Co.

- 2014 *Field Director.* Anderson Dam Seismic Retrofit Project. Survey of dam and surrounding area. For Santa Clara Valley Water District.
- 2014 *Research Assistant.* Cuyama data recovery excavations; analysis and report derived from field notes from 1970s S.R. 166 project. For Caltrans District 5.
- 2013 *Field Director.* Extended Phase I investigation for Napa River bridge replacement in Calistoga, Napa County. For Caltrans District 4.
- 2013 *Field Director.* Extended Phase I/Phase II investigations for the Gleason Beach State Route 1 realignment project, Sonoma County. For Caltrans District 4.
- 2013 *Field Director.* Test excavations and NRHP evaluation of five sites at Naval Base Ventura County (Pt. Mugu), San Nicolas Island, for US Navy SWDIV.
- 2013/14 *Field Director.* Data Recovery at CA-SLO-23 in Los Osos for new city-wide sewer system construction. For San Luis Obispo County, Public Works.
- 2013 *Field Director.* Test excavations and NRHP evaluation of four sites at MCAS Miramar, San Diego County, for US Navy SWDIV.
- 2013 *Field Director.* Data recovery excavations at four sites and the San Mateo Archaeological District (SMAD) for infrastructure development at Marine Corp Base Camp Pendleton, San Diego County, for US Navy, SWDIV.
- 2012 *Field Director.* Test excavations at 40 sites in target buffer zones in the North Ranges, China Lake Naval Air Weapons Station (NAWS), Inyo and Kern Counties, for US Navy, SWDIV.
- 2012 *Field Director.* Site Condition Assessment of 57 sites at Marine Corp Base Camp Pendleton, San Diego County, for US Navy, SWDIV.
- 2012 *Field Director.* Test excavations at 27 sites in target buffer zones in the North and South Ranges, China Lake Naval Air Weapons Station (NAWS), Inyo and San Bernardino Counties, for US Navy, SWDIV.
- 2012 *Field Director.* Data Recovery excavations at five sites for infrastructure development at Marine Corp Base Camp Pendleton, San Diego County, for US Navy, SWDIV.
- 2011 *Field Director.* Test excavations at site TUO-2000 (F.S. 05-16-54-482) to mitigate unintentional impact from infrastructure repairs to the Hetch Hetchy powerline near Groveland, for City and County of San Francisco, Public Works Department.
- 2011 *Field Director.* Survey of 800 acres in the Lima Training Area, Marine Corp Base Camp Pendleton, San Diego County, for US Navy, SWDIV.
- 2011 *Field Director.* Test excavations at five locations and site SMA-6/H for new traffic signaling systems along El Camino Real, San Mateo County for Caltrans, District 4.
- 2011 *Field Director.* Extended Phase I excavations at sites CAL-114/H and CAL-1292 in San Andreas, Calaveras County, for the new Criminal Justice Center, for the County of Calaveras.
- 2011 *Field Director.* Survey of 100 miles of historic roads and wagon trails in the North and South Ranges, China Lake Naval Air Weapons Station; Inyo, Kern, and San Bernardino Counties, for US Navy, SWDIV.
- 2011 *Field Director.* Extended Phase I excavations at sites SOL-30/H and SOL-270/H and survey of 20 miles of freeway on Interstate 80, Solano County, for Caltrans, District 4.

- 2011 *Field Director.* Construction monitoring and salvage excavation of two buried ships for the Sunnydale Sewer expansion project, Candlestick Park, San Francisco, for the San Francisco Public Works Department.
- 2011 *Field Director.* Historic architectural evaluation of the “Rat Farm” building at the MacArthur Swamp boat launch, Shasta County, for PG&E.
- 2011 *Field Director.* Archaeological survey of approximately 4.2 miles for natural gas pipeline replacement and about 30 acres at valve stations for station rehabilitation in Alameda and Contra Costa Counties, for PG&E.
- 2010 *Field Director.* Archaeological survey of 640 acres within the Sugarloaf Archaeological District in the Naval Air Weapons Station (NAWS) for a proposed geothermal field expansion, for the Coso Operating Company, Inyokern, California.
- 2010 *Principal Investigator/Field Director.* Ruby Pipeline Project. Natural gas pipeline construction project across northern Nevada from the Utah to Oregon borders with ca. 1000 archaeological sites. Site verifications, ancillary surveys, and data recovery excavations. Primary responsibility for Spread 4, a 109 mile long segment with data recovery excavations of 200 sites. Elko, Winnemucca, and Surprise Resource Area BLM districts. For El Paso Pipeline Corp., Houston, Texas.
- 2010 *Field Director.* Archaeological survey of 28.5 acres within the Sugarloaf Archaeological District in the Naval Air Weapons Station (NAWS) for a proposed drill pad expansion, for the Coso Operating Company, Inyokern, California.
- 2009 *Field Director.* Site condition evaluations at five sites near the Kern Canyon Hydroelectric Facility, Kern County, for PG&E.
- 2009 *Field Director.* Cultural resources inventory of 21.5 miles of access road in northern California, and four locations in southern Oregon in support of the Ruby Pipeline Project for El Paso Pipeline Corp., Houston, Texas.
- 2009 *Field Director.* Cultural resources inventory of 7,580 acres of BLM and private lands for the Trilobite Solar project near Chambless, San Bernardino County for PG&E.
- 2009 *Field Director.* Cultural resources inventory of 2830 acres for the proposed South Mitchell Hill juniper removal project, BLM Class II and III survey for BLM, Alturas Field Office.
- 2009 *Field Director.* Data recovery and construction monitoring at site CA-SHA-3643/H, Fall River Mills, Shasta County for PG&E.
- 2009 *Field Director.* Cultural resources inventory of 6,775 acres for the Soda Mountain Solar Project, San Bernardino County.
- 2008/09 *Field Director.* Phase II test excavations for the East Sonora Bypass. Sites CA-TUO-2469, -4627, -4686, P-55-6847, and -6848, Tuolumne County for Caltrans District 10.
- 2008 *Field Director.* Phase II test excavations and NRHP evaluation of site CA-SHA-3643/H, Fall River Mills, Shasta County for PG&E.
- 2008 *Field Director.* Phase I and Extended Phase I investigations for the State Route 120/La Grange Road improvement project. Site CA-TUO-409/H, Tuolumne County for Caltrans District 10.
- 2008 *Field Director.* Cultural resources survey of 2000 acres near Crowley Lake and Tom’s Place in Mono County for BLM and US Forest Service.

- 2008 *Field Director.* Cultural resources survey of the 12 mile long 200 foot wide proposed 115 kV transmission line corridor from the Rio Oso Substation to the Lincoln Substation for PG&E.
- 2008 *Field Director.* Data Recovery excavations at sites CA- MOD-6189 and MOD-6191 for the Lauer Dam Road improvement project in Modoc County, California for the Bureau of Indian Affairs.
- 2008 *Field Director.* Phase II test excavations at the Ynigo Mound site, CA-SCL-12, for Caltrans District 4.
- 2008 *Field Director.* Cultural resources survey of the 10 mile long. 200 foot wide 60kV route between the Hat Creek, Pit No.2 Powerhouse and the Burney Substation for PG&E.
- 2008 *Field Director.* Cultural resources survey of the 8.5 mile long. 200 foot wide 60kV route between the Pease Substation and Marysville Substation for PG&E.
- 2008 *Field Director.* Cultural resources investigation of proposed geological sample collection locations for the Upper San Joaquin River Basin Storage Investigation Project, Madera and Fresno counties, California for the US Bureau of Reclamation.
- 2008 *Field Director.* Archaeological survey of 2,500 acres in Etcharren Valley, Naval Air Weapons Station (NAWS), China Lake for Epsilon Systems Solutions, Inc., Ridgecrest, California.
- 2007 *Field Director.* Survey and testing at two proposed new drill pads in the Coso Geothermal field for Coso Operating Company.
- 2007 *Field Director.* Archaeological survey of 1,100 acres in the Darwin Wash area, Naval Air Weapons Station (NAWS), China Lake for Epsilon Systems Solutions, Inc., Ridgecrest, California.
- 2006-2008 *Field Director/Research Assistant.* Archaeological survey of 53,000 acres in the Gold Butte area, Clark County, Nevada for Las Vegas BLM.
- 2006 *Field Director.* Archaeological survey of four remote locales at the Naval Air Weapons Station, China Lake, California for NAWS China Lake, Environmental Projects Office.
- 2006 *Field Director.* Archaeological survey of proposed geological sampling drill locations for the Upper San Joaquin River Basin Storage Investigation Project at Millerton Lake, California for the US Bureau of Reclamation.
- 2006 *Field Director.* Archaeological survey of 7,427 acres for the Esmeralda and Chance fires near Midas and Elko, Nevada for Elko District BLM.
- 2006 *Field Director.* Data recovery investigations at sites CA-SBR-847/H and CA-SBR-8379/H, National Training Center, Fort Irwin, California for Fort Irwin Directorate of Public Works.
- 2006 *Field Director.* Archaeological survey of 5,000 acres at Hill Air Force Base, Utah aerial target ranges, for the U.S. Air Force.
- 2005 *Field Director.* Test excavations of eight prehistoric sites for the Lauer Dam Road improvement project in Modoc County, California for the Bureau of Indian Affairs.
- 2005 *Field Director.* Test Excavations at sites CA-SDI-14,597 and SDI-14,675 on Marine Corps Base, Camp Pendleton, California for the Southwest Division Naval Facilities Engineering Command.

- 2005 *Field Director.* Archaeological survey of 1,286 acres in the Darwin Wash area, Naval Air Weapons Station (NAWS), China Lake for Epsilon Systems Solutions, Inc., Ridgecrest, California.
- 2005 *Field Director.* Test excavation at site SLO-2371 for Picachio Bridge replacement project, San Luis Obispo County, California for TY Lin International, Sacramento, California.
- 2005 *Field Director.* Extended Phase I excavations at sites SLO-1243, SLO-2356, and SLO-2357 along Halcyon Road, San Luis Obispo County, California for San Luis Obispo County Department of Public Works and Caltrans District 5.
- 2005 *Field Director.* Archaeological survey of 8.5 miles for proposed water pipeline near Arroyo Grande, California for the Plains Exploration and Production Company (PXP) Produced Water Project.
- 2005 *Field Director.* Phase II test excavations at site MNT-745 on State Route 198 in Priest Valley, Monterey County for Caltrans District 5, San Luis Obispo.
- 2005 *Field Director.* Archaeological survey of 5,000 acres at Hill Air Force Base, Utah aerial target ranges, for the U.S. Air Force.
- 2005 *Field Director.* Archaeological survey for Highway 25/101 proposed improvement corridor in San Benito and Santa Clara counties for Caltrans District 5, San Luis Obispo.
- 2005 *Field Director.* Archaeological survey of 12 miles for proposed road improvement from XL Ranch Indian Reservation to Lauer Reservoir dam near Alturas, Modoc County for Bureau of Indian Affairs.
- 2004 *Field Director.* Archaeological survey of 2,165 acres near Laughlin, Nevada for Las Vegas District BLM.
- 2004 *Field Director.* Data recovery excavation at the Gypsum Cave site (26Ck5) near Las Vegas, Nevada for the HAMD 500 kV transmission line project.
- 2004 *Field Director.* Archaeological site recording and fire damage assessment of the Mataguay Fire near Warners Ranch, California and the Melton Fire near Sage, California for California Department of Forestry and Fire Protection (CDF).
- 2004 *Field Director.* Extended Phase I excavation at three prehistoric sites for bridge replacement project on San Simeon Creek for County of San Luis Obispo, Public Works Department, San Luis Obispo, California.
- 2004 *Field Director.* Archaeological survey of 4,200 acres in the China Lake basin for Naval Air Weapons Station (NAWS), China Lake, California.
- 2004 *Field Director.* Archaeological survey of two bridge replacement locations in Solano County, for Solano County Transportation Department, Fairfield, California.
- 2004 *Field Director.* Archaeological survey of three bridge replacement locations in San Luis Obispo County, for TY Lin International, Sacramento, California.
- 2004 *Field Director.* Archaeological survey in the Sloan Canyon National Conservation Area (Sloan NCA), Clark County, Nevada, for Las Vegas District BLM.
- 2003 *Field Director.* ISTE A Survey, survey of rural highway system for Stockton District, Caltrans.

- 2003 *Field Director.* Archaeological survey of 550 acres near Sonora, Tuolumne County for a proposed residential and golf course development project, for Top Grade Construction, Livermore, California.
- 2003 *Field Director.* Archaeological survey of 13 acres within the Sugarloaf Archaeological District in the Naval Air Weapons Station (NAWS) for a proposed drill pad, for the Coso Operating Company, Inyokern, California.
- 2003 *Field Director.* Archaeological survey and monitoring of 110 locations for magnetotelluric (MT) sensor placement in the geothermal field at Naval Air Weapons Station (NAWS), China Lake, for Epsilon Systems Solutions, Inc., Ridgecrest, California.
- 2003 *Field Director.* Archaeological survey of 13 acres within the Sugarloaf Archaeological District in the Naval Air Weapons Station (NAWS) for a proposed drill pad, for the Coso Operating Company, Ridgecrest, California.
- 2003 *Field Director.* Data recovery excavation at CA-NAP-261, for City of Napa, California.
- 2003 *Field Director.* Extended Phase I archaeological survey and backhoe trenching for the Vacaville Town Square project, for City of Vacaville, California
- 2003 *Field Director.* Extended Phase I archaeological survey, backhoe trenching and geoprobe sampling for sewage system upgrade in Pismo Beach, for City of Pismo Beach, California.
- 2003 *Field Director.* Class III archaeological survey of 4,500 acres in Clark County, Nevada, for Las Vegas District BLM.
- 2003 *Field Director.* Archaeological survey of a proposed powerline corridor in Washoe County, Nevada, for Sierra Pacific Power Company, Reno, Nevada.
- 2003 *Field Director.* Class II Cultural Resource Inventory of 5,300 acres for the Sloan, West Henderson, and Hughes-Redrock Land Exchanges, Clark County, Nevada. Bureau of Land Management, Las Vegas District, NV.
- 2002 *Field Director.* Archaeological survey and fire damage assessment of the Pines Fire near Julian, California, for California Department of Forestry and Fire Protection (CDF).
- 2002 *Field Director.* Phase I archaeological survey of 550 acres on Highway 101 near Prunedale, California, for San Luis Obispo District, Caltrans.
- 2002 *Field Director.* Phase I archaeological survey of fourteen miles on Highway 14 near Ridgecrest California, for Bishop District, Caltrans.
- 2002 *Field Director.* Archaeological survey for aerial target avoidance in the pinyon zone, for Naval Air Weapons Station, China Lake, California
- 2002 *Field Director.* Class III archaeological survey of 3,000 acres near Midas in Elko County, Nevada for Elko District BLM.
- 2002 *Field Director.* Class II and Class III archaeological survey of 2,300 acres near Winnemucca in Humboldt and Pershing Counties, Nevada for Winnemucca District, BLM.
- 2001 *Field Director.* Extended Phase I Survey of four miles of State Route 36 near Susanville, Lassen County, California for Redding District, Caltrans.
- 2001 *Field Director.* Archaeological survey of 11.5 miles of the Sherwin Grade portion of State Route 395 in Inyo and Mono Counties California for Bishop District, Caltrans.

- 2001 *Field Director.* Archaeological survey for natural gas pipeline from Reno to Wadsworth, Nevada for Tuscarora Gas Transmission Company.
- 2001 *Field Director.* Class III Cultural Resource Inventory for 105 Mile fiber optics installation for Humboldt Telephone Communications Installation, Humboldt County, NV, for Oregon-Idaho Utilities and Power Engineers.
- 2000 *Field Director.* Archaeological survey of two locations for road improvements in Napa, California for City of Napa, Public Works Department.
- 2000 *Field Director.* Archaeological survey of Lake Aloha and Echo Lake in the high Sierra Nevada for El Dorado Irrigation District (EID), FERC re-licensing project.
- 2000 *Field Director.* Phase II test excavations at sites CA-PLU-130 and CA-PLU-1541/H on Highway 89 in Plumas County for Redding District, Caltrans.
- 2000 *Crew Chief.* Archaeological survey for natural gas pipeline through Hungry Valley, Washoe County, Nevada for Tuscarora Gas Transmission Company.
- 2000 *Field Director.* Extended Phase I and Phase II investigations at four locations along Highway 46 in San Luis Obispo County for San Luis Obispo District, Caltrans.
- 2000 *Field Director.* ISTE A Survey, survey of rural highway system in five counties for San Luis Obispo District, Caltrans.
- 1999 *Field Director.* Phase II test excavations at sites CA-LAS-2242 and CA-LAS-2243 in Lassen County for Redding District, Caltrans.
- 1999 *Field Director.* ISTE A Survey, survey of rural highway system in five counties for San Luis Obispo District, Caltrans.
- 1999 *Field Director.* Survey of approximately 160 mile corridor for proposed fiber-optics cable system from San Luis Obispo to Bakersfield, California for Williams Communications, Co.
- 1998 *Principal Investigator/Field Director.* Test excavation and data recovery at sites CA-SLO-1776/H, CA-SLO-1778, CA-SLO-1169, and CA-MNT-1167/H, California National Guard Training Center, Camp Roberts, California.
- 1997-1998 *Field Director.* Survey of 504 mile long corridor along existing AT&T buried telephone cable route from Lucin, Utah, to Red Bluff, California for AT&T Corporation.
- 1997 *Field Director.* Extended survey at CA-TEH-303, Tehama County, CA. for Redding District, Caltrans.
- 1997 *Field Director.* Extended survey at CA-TEH-34 and CA-TEH-1332/242, Tehama County, CA. for Redding District, Caltrans.
- 1997 *Chief Surveyor.* Alabama Gates Data Recovery Excavations at several sites along Highway 395 near Lone Pine, Inyo County, CA.
- 1997 *Chief Surveyor/Mapper.* Salvage excavation at Moss Landing for Moss Landing Marine Laboratory expansion project, Monterey County, CA.
- 1997 *Chief Surveyor/Mapper.* Extended survey of four sites in the Petroglyph National Monument, China Lake Naval Weapons Center, Inyo County, CA.
- 1997 *Crew Chief.* Survey of selected tracts within China Lake Naval Weapons Center, Inyo County, CA.

- 1996 *Crew Chief*. Survey of 2,000 acres in Cleghorn Pass and Lava Training Areas, U.S. Marine Corps Training Center, Twentynine Palms, CA.
- 1996 *Crew Chief*. Survey of various access road alignments for the Alturas powerline project, California and Nevada.
- 1996 *Crew Chief/Mapping Surveyor*. Test excavations at six archaeological sites at Deadman Lake, U.S. Marine Corps Training Center, Twentynine Palms, CA.
- 1996 *Crew Chief*. Survey of 1,300 acres in Wood Canyon and Lava Training Area, U.S. Marine Corps Training Center, Twentynine Palms, CA.
- 1995 *Mapping Director/Consultant*. Data recovery excavations for Tuscarora Pipeline project from Malin, Oregon to Tracy, Nevada.
- 1994 *Field Director*. Survey of 4,200 acres in Mendocino National Forest for U.S. Forest Service.
- 1994 *Field Director*. Test excavations of sites for Tuscarora Pipeline project from Malin, Oregon to Tracy, Nevada.
- 1994-1991 *Field Coordinator/Field Director/Crew Chief/Research Assistant*. Test and data recovery excavation at sites on the California segment of the PGT pipeline, from Modoc to Contra Costa Counties, CA.
- 1994 *Crew Chief*. Survey and test evaluation on Highway 1 at Cayucos, San Luis Obispo County, for San Luis Obispo District, Caltrans.
- 1994 *Field Director*. Trench monitoring at UCD Armstrong Tract, Yolo County, for University of California, Davis.
- 1994 *Crew Chief*. Multiple site test excavation on Rush Creek project, Mono County, CA for Bishop District, Caltrans.
- 1993 *Crew Chief*. Test excavation of CA-SBA-2203/H, Santa Barbara County, for San Luis Obispo District, Caltrans.
- 1993 *Crew Chief*. Multiple site evaluation on Ash Creek project, Inyo County, for Bishop District, Caltrans.
- 1993 *Field Director*. Survey and evaluation of CA-SLO-394, Oceano, San Luis Obispo County, for San Luis Obispo District, Caltrans.
- 1993 *Field Director*. Bridge replacement survey in Santa Barbara, for San Luis Obispo District, Caltrans.
- 1993 *Field Director*. Survey of two sites on Highway 1 near Lompoc, Santa Barbara County, for San Luis Obispo District, Caltrans.
- 1993 *Field Director*. Highway 70 survey in Sutter and Colusa Counties, for Marysville District, Caltrans.
- 1993 *Crew Chief*. Survey of a section of land on Battle Mountain, for a gold prospecting company, Lander County, Nevada.
- 1992 *Crew Chief*. Test excavation at FRE-61, Fresno County, for Fresno District, Caltrans.
- 1992 *Field Director*. Extended Phase 1 excavation at SHA-261. Limited evaluation for Redding District, Caltrans.

- 1992 *Field Director.* Mojave Pipeline/Coso Lateral survey and inventory, Inyo and Kern Counties, CA.
- 1992 *Field Director.* Lake Minerals Railroad Survey, survey of 50 miles of railway alignment from Owens Lake to south of Inyokern. Inyo and Kern Counties, CA.
- 1992 *Crew Chief.* SMUD Pipeline Survey, Yolo, Solano, and Sacramento Counties, CA.
- 1991 *Field Director.* Highway 180 survey, Fresno County, for Fresno District, Caltrans.
- 1991 *Crew Chief.* Excavation at SCL-119/SBN-24/H, Santa Clara Co., CA.
- 1991 *Field Coordinator/Crew Chief.* Cortez cumulative effects project. 10,000 acre sample survey. Lander and Eureka Counties, Nevada.
- 1990 *Crew Chief/Research Assistant.* Sacramento Urban Flood Control Project; CA-Sac-16 Test Excavation, test excavation of site for Sacramento River levee repair work, Sacramento County, CA.
- 1990 *Crew Chief/Research Assistant.* Napa Sanitation District Survey, survey of 1,500 acres for sanitation system expansion project, Napa County, CA.
- 1990 *Project Manager/Field Director.* Highway 65/Lincoln Bypass Survey, survey of 3,440 acres for highway reroute in Placer County, for Marysville District, Caltrans.
- 1990 *Crew Chief/Research Assistant.* Highway 152/Gilroy Test Excavation Project, test excavation of 13 sites in Santa Clara and San Benito Counties, CA.
- 1990 *Crew Chief/Research Assistant.* Los Banos Grandes Survey and Evaluation Project, survey of 1,500 acres and test evaluation of 39 sites at proposed lake site, Merced County, CA.
- 1990 *Project Manager/Crew Chief.* Sacramento River Delta Levee Survey, levee survey in Sacramento, Yolo, and Solano Counties, CA.
- 1990 *Crew Chief.* Colusa Basin Drain Levee Survey, levee survey in Colusa and Yolo Counties, CA.
- 1990 *Crew Chief.* Feather River Levee Project, levee survey in Butte, Sutter, and Yuba Counties, CA.
- 1990 *Crew Chief.* Cottonwood/Elverta Transmission Line, corridor survey from Cottonwood to Elverta, CA.
- 1990 *Crew Chief.* Sacramento Levee Survey, Sacramento County, CA.
- 1989 *Crew Chief/Research Assistant.* Survey of 7,040 acres, Inyo County, Coso Geothermal Archaeological Project (China Lake Naval Weapons Center), Inyo County, CA.
- 1989 *Crew Chief/Research Assistant.* Data Recovery Excavations at 30 sites, Inyo County, Coso Geothermal Archaeological Project (China Lake Naval Weapons Center), Inyo County, CA.
- 1989 *Crew Chief/Research Assistant.* Mojave Pipeline Project, corridor survey from Topoc, Arizona to McKittrick, California.
- 1989 *Crew Chief.* FMC Gold Survey, survey of 400 acres for gold mine expansion, Nye and Mineral Counties, Nevada.
- 1989 *Crew Chief.* BLM Annex, sample survey of portion of 30,000 acres south of Fort Irwin, CA.

- 1989 *Crew Chief*. Tiefort Data Recovery Project, excavation of several large, open sites at Fort Irwin, CA.
- 1988 *Crew Member*. Nelson Basin Test Excavation Project, Fort Irwin, California.
- 1988 *Crew Member*. Data Recovery Excavation, 30 sites, Coso Geothermal Archaeological Project (China Lake Naval Weapons Center).

OTHER EXPERIENCE:

Summers 1982-2006

Senior Field Archaeologist/Assistant Director, Project Architect/Surveyor, Excavation Supervisor, Instructor/Lecturer. The Hebrew University, Institute of Archaeology, Jerusalem; Tel Dor Excavations, Tel Dor, Israel. Site is a large (ca. 300 x 400 m) multi-strata tel on the coast of Israel. This ancient seaport exhibits a continuous occupation from at least the Middle Bronze Age (ca. 2000 BCE) through the Byzantine Period (ca. 650 CE).

- Fall 2014** *Senior Archaeologist*. Weizmann Institute of Science, Rehovot, Israel; renewed investigations at Boker Tachtit, Israel. Excavation of transition layers to obtain samples for radiocarbon and microstratigraphy studies of the 50,000 year old deposit.

Summer 2006

Senior Archaeologist. Weizmann Institute of Science, Rehovot, Israel; renewed investigations at Kebara Cave, Israel. Excavation of the Middle/Upper Paleolithic layers to obtain samples for radiocarbon studies of the transition dates for these cultural periods.

Summers 1989, 1993, 1995

Surveyor. The Hebrew University, Institute of Archaeology, Jerusalem; Gesher Benot Ya'aqov Excavations, Gesher Benot Ya'aqov, Israel. Site is a Lower Paleolithic (ca. 790,000 BCE), Acheulean (Homo Erectus) lake-shore habitation and hunting locus.

Winters 1986-1988

Project Architect/Surveyor, Excavation Supervisor, Instructor/Lecturer. University of California, Berkeley Archaeological Expedition, Harappa, Pakistan. Site is one of two largest (approx. 1 sq km) Indus Valley Civilization (Early Bronze Age, ca. 3000 BC) multi-stratum urban centers occupied for at least 1500 years.

Field School

- 1981 *Field School Student*. Tel Dor Excavations, Tel Dor, Israel.
- 1976 *Field School Student*. CSUS excavation at the Kahorsho Site, Flagstaff, Arizona.

PUBLICATIONS

- in press *The Stratigraphy of Area G. Chapter (?)*, *Excavations at Tel Dor - Final Report, Area G, Qedem Reports (?)*. Hebrew University, Jerusalem. With E. Stern et al.

- in press *Flaked Stone Assemblage. Chapter (?)*, *Excavations at Tel Dor - Final Report, Area G*, Qedem Reports (?). Hebrew University, Jerusalem. With E. Stern et al.
- 2013 The Prehistory of Gold Butte, A Virgin River Hinterland, Clark County Nevada. *University of Utah Anthropological Papers* #127. University of Utah Press. With Kelly McGuire et al.
- 2009 Identifying a Roman Casting Pit at Tel Dor, Israel: Integrating Field and Laboratory Research. *Journal of Field Archaeology*, Volume 34 Number 2, Summer 2009, pp.135-151. With Adi Eliyahu-Behar, et al.
- 2007 Sediments exposed to high temperatures: reconstructing pyrotechnological processes in Late Bronze and Iron Age Strata at Tel Dor (Israel). *Journal of Archaeological Science*. Volume 34, Issue 3, March 2007, pp. 358-373. With Francesco Berna, et al.
- 2002 The Water Supply System at Roman Dor. (with I. Sharon and B. Zilberstein) in: The Aqueducts of Israel. *Journal of Roman Archaeology*, Supplement 46. May 2002. D. Amit, Y. Hirschfeld, and Y. Patrich (eds.).
- 2000 Tel Dor 1997-1998. *Excavations and Surveys in Israel* 111 (2000): 30-37 (Hebr.), *23-*30 (Engl.). With E. Stern et al.
- 1997 Tel Dor, 1994-1995: Preliminary Stratigraphic Report. *The Israel Exploration Journal*, 47: 29-45. With E. Stern, A. Gilboa, and J. Zorn.
- 1996 Tel Dor - 1994. *Hadashot Arkheologiot*, 104. Israel Antiquities Authority, Jerusalem (in Hebrew).
- 1996 Tel Dor - 1994. *Excavations and Surveys in Israel*, 16: 52-54. Israel Antiquities Authority, Jerusalem.
- 1995 *Excavations at Tel Dor - Final Report, Areas A and C*, Qedem Reports 1. Hebrew University, Jerusalem. With E. Stern, et al.
- 1990 Preliminary Report - Tel Dor Excavations, 1988 and 1989 Seasons. *The Israel Exploration Journal*, 41: 46-61. With E. Stern, and I. Sharon.
- 1990 Tel Dor - 1988-1989. *Qadmoniot*. Israel Exploration Society Publications, Jerusalem (in Hebrew).

REPORTS

- 2015 *PG&E Moss Landing Substation Security Wall Upgrade Project – Report on Extended Phase I Archaeological Investigations at CA-MNT-277/278*. Prepared for Pacific Gas & Electric Co., San Francisco. With Sharon A. Waechter
- 2015 *Archeological Investigations at Mariposa Grove and South Entrance, Yosemite National Park, Mariposa County, California*. Prepared for Yosemite National park. With Nathan Stevens, Adrian Whitaker, Julia Costello, and Pat Mikkelsen.
- 2015 *Limited Archaeological Excavations at Site CA-SLO-2569/H for the Los Osos Wastewater Facility, San Luis Obispo County, California*. Prepared for Auburn Constructors, Inc. Sacramento. With Nathan Stevens.
- 2015 *Emergency Data Recovery Excavation at Site CA-MRN-12 in Mill Valley, Marin County, California*. Far Western Anthropological Research Group, Inc., Davis, California. Report submitted to Pacific Gas & Electric Company, San Francisco. With Sharon A. Waechter.

- 2014 *Cultural Resources Study of the PG&E Line 107 (MP 13.08 to 26.01) Deactivation and Line 131 (MP 40.94 and MP 45.01) Valve Replacement Projects, Alameda County, California.* Far Western Anthropological Research Group, Inc., Davis, California. Report submitted to Pacific Gas & Electric Company, San Ramon, California. With Jennifer Thomas.
- 2014 *Extended Phase I Investigation for the Napa River Bridge Replacement Project, Calistoga, Napa County, California.* Prepared for Caltrans District 4. With Naomi Scher.
- 2014 *Archaeological Survey Report for the San Luis Obispo Bridge Rail Replacement Project, Highway 1 near Cayucos and Highway 58 near Santa Margarita, San Luis Obispo County, California.* Far Western Anthropological Research Group, Inc., Davis, California. Report submitted to California Department of Transportation, District 5, San Luis Obispo, California. With Patricia Mikkelsen, Philip Kaijankoski, Sharon Waechter, and Nathan Stevens.
- 2014 *National Register Evaluation of 12 Sites at Marine Corps Air Station Miramar, San Diego County, California.* Report prepared for Naval Facilities Engineering Command, Southwest Division, San Diego, California. With Mary Manieri, Monica Nolte, and Joshua Allen.
- 2014 *Data Recovery Investigations at 15 Cultural Resources for the P-1093 and P-1094 BUI Communications and Electrical Upgrade Projects, Marine Corps Base Camp Pendleton, San Diego County, California.* Report prepared for Naval Facilities Engineering Command, Southwest Division, San Diego, California. With Brian Byrd, Michael Darcangelo, and Hannah Sistrunk.
- 2014 *Cultural Resources Data Recovery Investigations for the P-1048 Electrical Distribution Project, Marine Corps Base Camp Pendleton, San Diego County, California.* Far Western Anthropological Research Group, Inc., Davis, California. Report prepared for Naval Facilities Engineering Command, Southwest Division, San Diego, California. With Brian Byrd, Michael Darcangelo, Hannah Sistrunk, Rebecca Kellawan, Adrian Whitaker, and Bryan Larson.
- 2014 *Section 110 National Register Eligibility Evaluations of Five Archaeological Sites on San Nicolas Island, California.* Report Prepared for Naval Facilities Engineering Command, Southwest Division, San Diego, California. With Brian Byrd, Adrian R. Whitaker, and Hannah Sistrunk.
- 2013 *2012 Condition Assessment, Site Monitoring, and Effects Treatment (CASMET) Study, MCB Camp Pendleton, San Diego County, California.* Prepared for Naval Facilities Engineering Command, Southwest Division for Contract #N62473-11-D-2220, Task Order 37. With Brian Byrd.
- 2012 *Survey and Extended Phase I Investigations for the Solano 80 Corridor Project, Solano County, California.* EA/ID 4A2500/0400001121.Solano 80 P.M. 0.0-44.4. For Caltrans District 4. With Bill Hildebrandt, Jack Meyer, Julia Costello, and Patricia Mikkelsen.
- 2012 *Archaeological Investigations for the State Route 82 Signal Interconnect and Intersection Modification Project, San Mateo County, California.* 04-SM-82, PM 0.0/15.9, EA 24992. Prepared for Caltrans District 4. With Brian Byrd and Phil Kaijankowski.
- 2012 *Evaluation of site CA-TUO-2000, Near Groveland, Tuolumne County, California.* Prepared for URS Corporation, San Francisco. With Pat Mikkelsen and Jeffrey Rosenthal.

- 2012 Historic Roads and Trails Archaeological Survey, NAWS China Lake. With Rebecca Kellawan
- 2011 *Cultural Resources Study of the PG&E Line 107/131 Replacement Project, Alameda and Contra Costa Counties, California.* Prepared for Pacific Gas and Electric Company, San Ramon. With Jennifer Thomas.
- 2011 *Cultural Resources Inventory of 7,580 Acres of BLM and Private Lands near Chambless, San Bernardino County, California.* Prepared for Pacific Gas & Electric Company, San Ramon. With Kimberley Carpenter and Mary Maniery.
- 2010 *Archaeological Survey for the Proposed Pad 66A-6 Expansion with in the Coso KGRA, Inyo county, California.* Prepared for Environmental Project Office, NAWS, China Lake at the request of Coso Operating Co., LLC, Inyokern.
- 2010 *Final Research Results for the Gold Butte Study Area, Clark County, Nevada.* BLM Report No. 5-2617. Prepared for Bureau of Land Management, Las Vegas Field Office. With Kelly McGuire, William Hildebrandt, Amy Gilreath, and Jerome King.
- 2009 *Phase II Excavations in the Caltrans Right-of Way at CA-SCL-12/H, Santa Clara County, California.* 04-SCL-101/237 PM 46.10-46.3, EA# 04-3A9100. For Caltrans District 4. With Brian F. Byrd.
- 2009 *Archaeological Survey and Extended Phase I Report for the Proposed Acceleration Lane at the State Route 120/La Grange Road Intersection, Tuolumne County, California.* 10-Tuo-120 PM 8.19 EA10-0P160. For Caltrans District 10. With Kelly McGuire.
- 2008 *Cultural Resources Survey of the Rio Oso to Lincoln 115 kV Transmission Line Project, Placer and Sutter Counties, California.* Prepared for Pacific Gas and Electric Company, San Francisco. With Allika Ruby.
- 2007 *Data Recovery Investigations at CA-SBR-847/H and CA-SBR-8379/H, National Training Center, Fort Irwin, San Bernardino County, California.* GSA Contract No. GS-10F-0183P. Prepared for Directorate of Public Works, US Army National Training Center, Fort Irwin. With Brian F. Byrd.
- 2006 *Cultural Resources Inventory for the Esmeralda and Chance Fires Rehabilitation Project, Elko County Nevada.* BLM Report No. 1-2503. Prepared for Bureau of Land Management, Elko Field Office.
- 2005 *Cultural Resources Inventory for the Lauer Dam Road Improvement Project, Modoc County, California.* Prepared for Bureau of Indian Affairs
- 2005 *Archaeological Report and Fire-Damage Assessment of Nine Sites in the Mataguay and Melton Fire Areas, San Diego and Riverside Counties, California.* Prepared for California Department of Forestry and Fire Protection (CDF), Sacramento.
- 2005 *Cultural Resources Survey of the 8.7-Mile-Long Plains Exploration and Production Company Produced Water Project, San Luis Obispo County California.* Prepared for the Morro Group and County of San Luis Obispo, Department of Public Works. With Pat Mikkelsen and Sharon Waechter.
- 2005 *Cultural Resources Inventory and Overview for the Small Arms Training Ranges in the Lower Cactus Flat and Darwin Wash Areas, NAWS China Lake, Inyo County, California.* Prepared for NAWS China Lake, Environmental Projects Office. With Amy J. Gilreath

- 2004 *A Class III Cultural Resources Inventory of 2,165 Acres of BLM Lands for the Laughlin Land Sale Clark County, Nevada.* BLM Report No. 5-2508-P. Prepared for Bureau of Land management, Las Vegas Field Office. With Brian F. Byrd and Laura Leach-Palm.
- 2004 *Cultural Resources Inventory Report for the Yosemite Ranch Golf and Wetland Preserve Project at Yosemite Junction, Tuolumne County, California.* Prepared for Top Grade Construction, Livermore.
- 2003 *Archaeological Survey for Proposed Drill Pad 26-5 within the Coso KGRA, Inyo County, California.* Prepared for Environmental Project Office, NAWS, China Lake at the request of Coso Operating Co., LLC, Inyokern. With Amy J. Gilreath
- 2003 *Archaeological Survey Report for the San Juan Interchange Project, Monterey and San Benito Counties, California.* 05-MNO-101, K.P. 160.9/163.0 (P.M. 100.0/101.3), EA 05-315800. Prepared for San Luis Obispo District, Caltrans.
- 2003 *Archaeological Survey Report for Pismo Promenade IV, Pismo Beach, California.* Prepared for City of Pismo Beach. With William Hildebrandt.
- 2003 *Archaeological Survey and Fire Assessment for the Pines Fire, Julian, San Diego County, California.* Prepared for California Department of Forestry and Fire Protection (CDF), Sacramento.
- 2003 *Extended Phase I Archaeological Survey for Wastewater Facilities Upgrade, Pismo Beach, San Luis Obispo County, California.* Prepared for City of Pismo Beach Community Development Department, Pismo Beach. With William Hildebrandt.
- 2002 *A Cultural Resources Inventory of the Clover Fire Rehabilitation Project, Phase II, Area 2, Elko County, Nevada.* BLM Report No. BLM1-2174 (P). Prepared for Elko District, BLM. With D. Craig Young.
- 2002 *A Cultural Resources Inventory for the Proposed Clear Creek Drill Seeding Area, Humboldt and Pershing Counties, Nevada.* Nevada Cultural Resources Report No. CR2-2820 (P). Prepared for Winnemucca District, BLM. With Kelly R. McGuire and D. Craig Young.
- 2001 *Archaeological Survey Report for the Sherwin Summit Rehabilitation Project Along U.S. 395 in Inyo and Mono Counties, California.* 09-Iny-395 K.P. 207.28/208.40 (P.M. R128.8/129.5); 09-Mno-395 K.P. 0.0/16.58 (P.M. R0.0/10.3) EA 269000. Prepared for Bishop District, Caltrans. With William R. Hildebrandt and Darren Andolina.
- 2001 *Report on Phase II Test Excavations at CA-PLU-1541/H and CA-PLU-130 Near Clio, Southern Plumas County.* 02-Plu-089 P.M. 3.2/3.6 02-344200; P.M. 2.7/3.2 02-327600. Prepared for Redding District, Caltrans. With Sharon A. Waechter.
- 2000 *Extended Phase I and Phase II Testing at Four Locations Near Cholame, San Luis Obispo County, California.* 05-SLO-46 P.M. 31.8/56.5, 05-3307U0 & 33080k. Prepared for San Luis Obispo District, Caltrans. With William R. Hildebrandt.
- 2000 *Phase II Archaeological Test and Evaluation of Sites CA-LAS-2242 and CA-LAS-2243, Lassen County, California.* 02-Sha/Las-299 P.M. (Sha) 94.43/99.36 & P.M. (Las) 0.00/5.5 02-310200. Prepared for Redding District, Caltrans. With Patricia J. Mikkelsen and William R. Hildebrandt.
- 2000 *Test Excavation and Evaluation at CA-AMA-369, Amador County, California.* State Route 88, KP 11.4/12.4 (PM 7.1/7.7). Prepared for Stockton District, Caltrans. With Michael Delacorte and Jack Meyer.

- 1999 *Cultural Resources Survey and Inventory Report for a Proposed Fiber Optics Cable System from San Luis Obispo to Bakersfield, San Luis Obispo and Kern Counties, CA.* Prepared for Williams Communications, Co.
- 1999 *Archaeological Test Excavation and Evaluation Report for Four Archaeological Sites at Camp Roberts Army National Guard Training Site, Monterey and San Luis Obispo Counties, California.* Prepared for U.S. Army Corps of Engineers.
- 1999 *Cultural Resources Inventory Report for the AT&T Corp. Coaxial Cable Removal Project Lucin, Utah to Red Bluff, California. Phase II: Nevada/California State Line to Red Bluff, California.* Prepared for BHC, Inc., and AT&T Corporation.
- 1998 *Cultural Resources Inventory Report for the AT&T Corp. Coaxial Cable Removal Project Lucin, Utah to Red Bluff, California. Phase I: Lucin Utah to the Nevada/California State Line.* BLM report No. BLM1-1772(P); CR2-2743(P); U-98-JS-0060b. Prepared for BHC, Inc., and AT&T Corporation.
- 1997 *Extended Survey Report of CA-TEH-303, Dye Creek, Tehama County, California.* 02-Teh-99, P.M. 16.6/19.5, 02-295900. Prepared for Redding District, Caltrans.
- 1994 *Site Reports. In Test Excavation Report for the Tuscarora Pipeline Project from Malin Oregon to Tracy, Nevada.* Report prepared for Tuscarora Pipeline Company.
- 1994 *Archaeological Survey Report and Historic Study Report for the State Route 70 Project, Sutter and Yuba Counties, California.* 03-Sut, Yub-70, P.M. 0.2/8.3. 0.0/7.0. Report prepared for Marysville District, Caltrans. With Julia G. Costello and Stephen R. Wee.
- 1994 *Historic Property Survey Report for Proposed Improvements Along State Route 154 in Santa Barbara County, California.* 05-Sba-154, P.M. 12.2/17.9. Report prepared for San Luis Obispo District, Caltrans.
- 1994 *Phase I and Extended Phase I Investigations for Proposed Traffic Signals and Lane Widening on State Highway 1 in Cayucos, San Luis Obispo County, California.* 05-SLO-1, P.M. 33.67/34.04. Report prepared for San Luis Obispo District, Caltrans. With Patricia J. Mikkelsen.
- 1993 *Technical Report of Cultural Resources Survey for the Coso Lateral Segment of the Mojave Pipeline, Kern and Inyo Counties, California.* Report prepared for Woodward-Clyde Consultants, Oakland, California.
- 1993 *Phase I Archaeological Survey Report for Site CA-SLO-394, Oceano, San Luis Obispo County, California.* SLO-1, P.M. 13.02. Report prepared for San Luis Obispo District, Caltrans. With Patricia J. Mikkelsen.
- 1993 *Phase II Archaeological Test Excavation at Site CA-SLO-394, Oceano, San Luis Obispo County, California.* SLO-1, P.M. 13.02. Report prepared for San Luis Obispo District, Caltrans. With Patricia J. Mikkelsen.
- 1993 *Addendum One to An Archaeological Survey Report (Phase I), for proposed Highway Construction Project near Lompoc, California.* Report prepared for San Luis Obispo District, Caltrans.
- 1992 *Extended Phase I Excavations at CA-SHA-261, Montgomery Creek, California.* Report prepared for Redding District, Caltrans.
- 1991 *Cultural Resources Test Excavations, Sacramento Urban Flood Control Project Sacramento, California.* Report on file, U.S. Army Corps of Engineering Sacramento office. With Paul Bouey and Cristi Assad Hunter.

- 1991 *Historic Property Survey Report of the Proposed Lincoln Bypass of State Route 65 in Placer County, California.* Report prepared for Marysville District, Caltrans.
- 1991 *Archaeological Survey and Evaluation for the Napa Sanitation District Master Plan Update, Napa County, California.* Prepared for Napa Sanitation District. with P. Mikkelsen and P. Bouey
- 1990 *An Archaeological Survey for the Proposed Lincoln Bypass (Alternates C and D) of State Route 65 in Placer County, California.* Report prepared for Marysville, District, Caltrans.
- 1986 The Temple at Tel Dor, Israel. M.A. Thesis, on file at California State University, Sacramento.

ATTACHMENT B

EXHIBITS 10-O1 AND 10-O2

EXHIBIT 10-01 CONSULTANT PROPOSAL DBE COMMITMENT

1. Local Agency: County of Lake 2. Contract DBE Goal: 0%
3. Project Description: Archaeological Services for Eastlake Elementary School Safe Routes to School and CDBG Grant Project
4. Project Location: Clearlake Oaks, Lake County
5. Consultant's Name: Reddy Anthropology Consultant 6. Prime Certified DBE: ☐

7. Description of Work, Service, or Materials Supplied	8. DBE Certification Number	9. DBE Contact Information	10. DBE %
<u>Co-Principal Investigator</u>	<u>Calhaus DBE 41665</u>	<u>Reddyanthropology@gmail.com</u> <u>530-902-3818</u>	<u>na</u>
Local Agency to Complete this Section		11. TOTAL CLAIMED DBE PARTICIPATION <u> </u> %	
17. Local Agency Contract Number: _____ 18. Federal-Aid Project Number: <u>SRTSL-5914(097)</u> 19. Proposed Contract Execution Date: <u>9/1/2016</u>			
Local Agency certifies that all DBE certifications are valid and information on this form is complete and accurate.		IMPORTANT: Identify all DBE firms being claimed for credit, regardless of tier. Written confirmation of each listed DBE is required.	
20. Local Agency Representative's Signature	21. Date	12. Preparer's Signature <u>Allika Ruby</u>	13. Date <u>7.31.2016</u>
22. Local Agency Representative's Name	23. Phone	14. Preparer's Name <u>Allika Ruby</u>	15. Phone <u>530-756-3941</u>
24. Local Agency Representative's Title		16. Preparer's Title <u>Co-principal investigator</u>	

DISTRIBUTION: Original – Included with consultant's proposal to local agency.

EXHIBIT 10-O2 CONSULTANT CONTRACT DBE COMMITMENT

1. Local Agency: County of Lake 2. Contract DBE Goal: 0%
3. Project Description: Archaeological Services for Eastlake Elementary School Safe Routes to School and CDBG Grant Project
4. Project Location: Clearlake Oaks, Lake County
5. Consultant's Name: Reddy Anth. Con. 6. Prime Certified DBE: ☐ 7. Total Contract Award Amount:
8. Total Dollar Amount for ALL Subconsultants: 9. Total Number of ALL Subconsultants:

10. Description of Work, Service, or Materials Supplied	11. DBE Certification Number	12. DBE Contact Information	13. DBE Dollar Amount
Co- Principle Investigator	Caltrans DBE 41665	Reddyanthropology@gmail.com 530-902-3818	na
Local Agency to Complete this Section		14. TOTAL CLAIMED DBE PARTICIPATION	\$ <u> </u>
20. Local Agency Contract Number: <u> </u> 21. Federal-Aid Project Number: <u>SRTSL-5914(097)</u> 22. Contract Execution Date: <u> </u>			<u> </u> %
Local Agency certifies that all DBE certifications are valid and information on this form is complete and accurate.		IMPORTANT: Identify all DBE firms being claimed for credit, regardless of tier. Written confirmation of each listed DBE is required.	
23. Local Agency Representative's Signature	24. Date	15. Preparer's Signature	16. Date
25. Local Agency Representative's Name	26. Phone	17. Preparer's Name	18. Phone
27. Local Agency Representative's Title		19. Preparer's Title	

DISTRIBUTION: 1. Original – Local Agency
 2. Copy – Caltrans District Local Assistance Engineer (DLAE). Failure to submit to DLAE within 30 days of contract execution may result in de-obligation of federal funds on contract.

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