

APPENDIX D:
CULTURAL RESOURCES PHASE I ASSESSMENT (JANUARY
2020); MICHAEL BAKER PEER REVIEW ANALYSIS
(JANUARY 2020); AND AMENDED MITIGATION
MEASURES (APRIL 2020)



January 15, 2020

Norris Whitmore
P.O. Box 55786
Valencia, CA 91385

Attn: Mr. Norris Whitmore

Subj: Cultural Resources Phase I Assessment for Sierra West Assisted Living and Memory Care Project (Envicom Project #19-105-101)

Dear Mr. Whitmore,

In January of 2020, Envicom Corporation (Envicom) completed a Phase I Cultural Resource Assessment for the Sierra West Assisted Living and Memory Care Project (Project) in Los Angeles County, California (**Figure 1**). The Project is 173,804 square feet (sf) in size (just under 4.0 acres) and is comprised of Assessor Parcel APNs 2827-005-042 and -043. The site is currently undeveloped and zoned "Mixed Use – Corridor" (MX-C). The proposed Project would involve the construction and operation of an 83-unit assisted living and memory care facility and associated parking. Of the 83 units, 29 would be studio sized units for memory-care patients, and the remaining 54 units would be for assisted living residents.

The current Project property is undeveloped, with no standing structures, located along Sierra Highway in Santa Clarita (**Figure 2**). The general location of the Project is as follows:

United States Geological Survey 7.5' Quadrangles: Oat Mountain, CA
Township: 4 North Range: 17 West
Latitude: 34° 21'47.74"North Longitude: 118°30'28.76"West

The Phase I Cultural Resource Assessment included a cultural resource record search conducted by the South Central Coastal Information Center (SCCIC) and a Native American cultural resource record search conducted by the California Native American Heritage Commission (NAHC). Both record searches examined the Project site plus a 0.25-mile area ("study area") around the Project. Additional databases examined during the Phase I assessment included historic regional maps, historic United States Geological Survey (USGS) maps, and historic Google Earth images. The University of California Santa Barbara (UCSB) Library Historic Aerial Photograph Database was also examined. In addition, because paleontological resources were also of concern, a record search request was made with the Natural History Museum of Los Angeles (NHM), which used the same 0.25-mile study area.



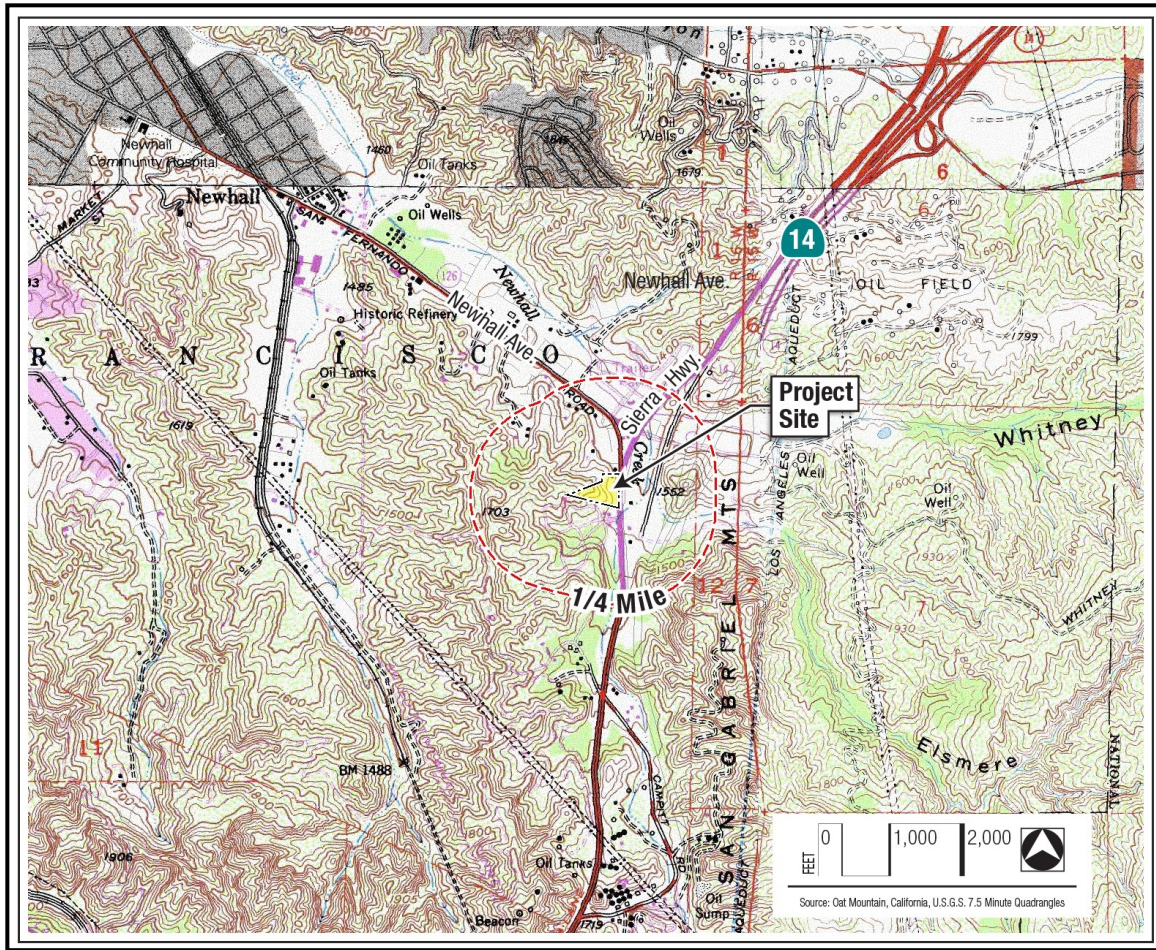


Figure 1: Project location in Los Angeles County, California, with the 0.25-mile study area shown (Oat Mountain Quadrangle Topographic Map, mosaic of various dates).

The purpose of a cultural resource record search is to identify any known cultural resources previously recorded within or immediately adjacent to the proposed Project area, to provide cultural resource context for the Project from the examination of the study area, and to assess the overall cultural resource sensitivity of the Project region. A cultural resource is often defined as any building, structure, object, or archaeological site older than 50-years in age, and can include historic or prehistoric locations of human habitation.

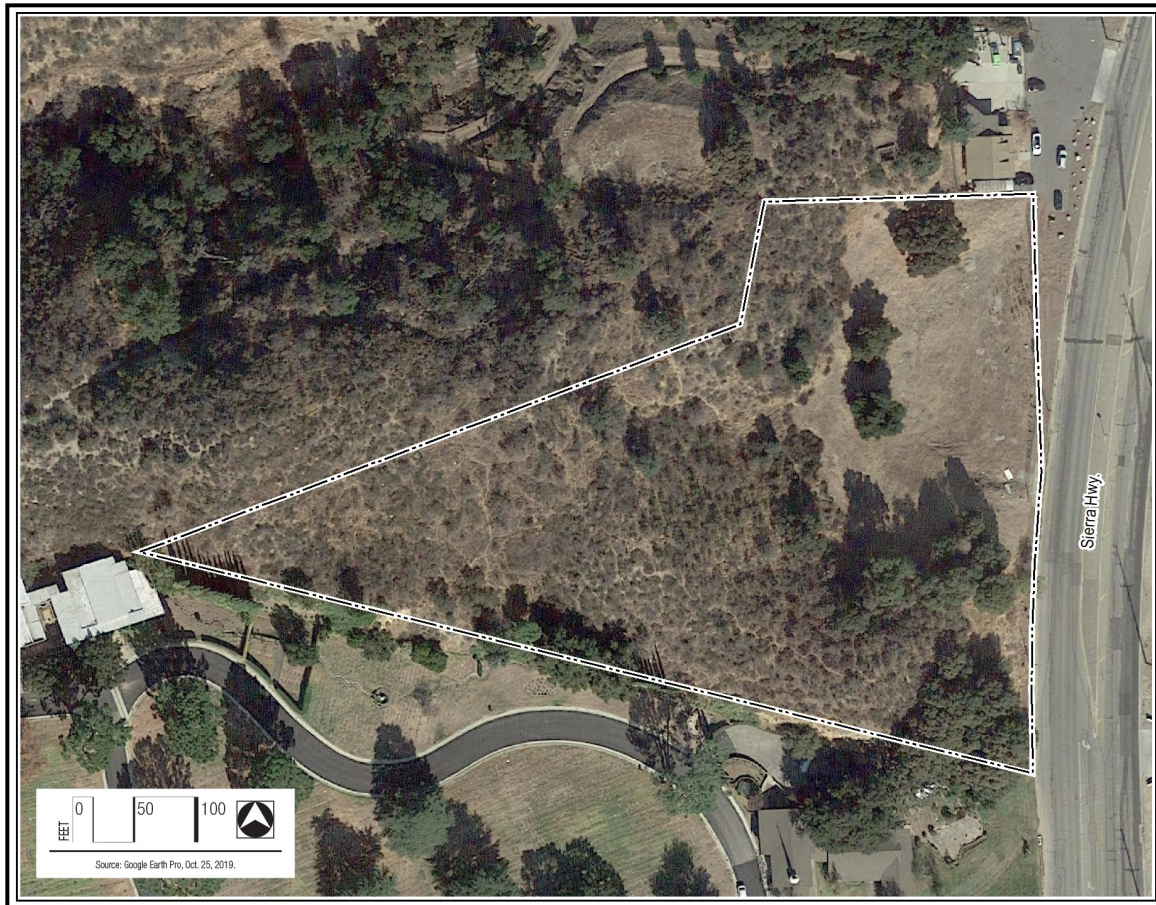


Figure 2: The Project property, showing the current undeveloped conditions (2019 Google Earth Image).

RECORD SEARCH RESULTS

SCCIC and NAHC Record Searches

On January 8, 2020, Envicom visited the SCCIC to conduct a search of their database for cultural resources located within the Project property, and within the surrounding study area (defined earlier as the Project property, plus a 0.25-mile buffer area) for regional cultural resource context (see **Figure 1**). The record search included a request for all complete site records for cultural resources within or adjacent to the Project property, as well as copies of all cultural resource technical reports that intersected with all or part of the property. Envicom also contacted the NAHC and the NHM on October 30, 2019, with a similar record search request.

The SCCIC record search found no previously identified cultural resources as being within or adjacent to the Project property. Further, no previously identified cultural resources were located within the 0.25-mile Project study area.

However, the SCCIC did identify two cultural resource reports that involved part of the Project property. Both cultural reports located partially within the Project property dealt with pipelines running through the property. In 1990 Gene Davis conducted a cultural survey titled, “Mobil M-70 Pipeline Replacement Project Cultural Resource Survey Report for Mobil Oil Corporation.” The survey examined a 92.05-mile linear corridor, which was split up into five segments. The Project property is within segment A4, with no cultural resources found within the property or study area. In 1996, the Science Applications International Corporation conducted a cultural resource survey titled, “Cultural Resources Investigation Pacific Pipeline Emidio Route Los Angeles and Kern Counties, California.” This survey examined a 171-mile linear corridor, and again, no cultural resources were found within the Project property of study area. Closer examination of these two technical reports, therefore, determined that neither contained information of additional concern for the Project. Eight additional cultural resource reports involved part of the surrounding 0.25-mile study area. None of these additional documents had information of concern for the Project.

The results from the 2019 NAHC record search were received on November 19, 2019, with negative findings. If the Lead/Permitting Agency for the Project is required to perform an AB-52 process, the NAHC letter should be made a part of the consultation record.

Copies of the request letter to the SCCIC and to the NAHC are included in **Appendix A** of this report. The response letter from the NAHC is provided in **Appendix B**. The Principal Author’s resume is provided in **Appendix C**. Envicom did not contact Native American groups on the NAHC list, as communications with Tribal Group representatives is the responsibility of the Lead/Permitting Agency if required as part of this Project. The findings from the SCCIC as to the physical location of cultural resources is considered confidential by state law and are, therefore, not included in this report.

Historical Map Database Search

Examination of historic maps included fourteen historic USGS maps, dating between 1903 and 1979. The 1903 Camulos USGS Map and the 1903 Santa Susana USGS maps both clearly show Sierra Highway, with structural development on the opposite (east) side of the roadway, and no development on the west (Project) side of the road (**Figure 3**).

The 1929 Newhall USGS map clearly shows structures on the Project side of Sierra Highway for the first time, indicating historical development of the property from between 1903 and 1929 (**Figure 4**). At least three structures appear to be located on the property near the road. The 1933 Newhall USGS map shows the same three structures, as well as the start of the historic cemetery, which is still located just south of the property today (**Figure 5**). The cemetery outline was shown on the earlier 1929 map, but was not yet labeled as a “cemetery,” suggesting that it may not yet have been active at that time. Closer examination of the existing conditions map (Figure 2) suggests that the house shown just outside the property to the north is probably the more northern of these three shown structures, with at least two residential structures being located on the actual Project property during the 1920s.

Examination of the University of California, Santa Barbara aerial photographic library did not add any additional information to the above timeline. A 1930 photo was the oldest of the photos in the UCSB database, which does show the two oldest structures that are closest to Sierra Highway, however, the third of the oldest structures is obscured by trees (**Figure 6**). This photo at least confirms that these oldest structures were probably residential originally, given the size of the structures shown. It also appears that the structures had unattached garages or outbuildings as well as the main structures. Since older USGS maps only showed main residences or commercial buildings, any existing unattached structures (garages, sheds, etc.) associated with the residences would not have been shown.

The 1941 and 1943 Santa Susana USGS maps show the same conditions, with the structures still marked where they are seen on earlier maps. However, the 1952 Oat Mountain USGS map shows the most southern of the three structures being removed by that time, with an additional structure being added between the two most northern structures (**Figure 7**). The three 1952 structures are still located in the same place along Sierra Highway through the 1969 USGS map, but the lower two structures are gone by the 1980s USGS mosaic map of the area (Figure 1).

Finally, the Project site is bordering the Eternal Valley Memorial Park and Mortuary cemetery that was founded in 1958 by Mark T. Gates. Gates bought the land from the heirs of Henry Clay Needham. Needham founded his ranch with a cemetery in 1888, which he allowed citizens of Newhall to be buried within. When Gates bought the land, he moved the preexisting graves to a new part of the cemetery called Garden of Pioneers. Due to the early development of the cemetery area, which is located near the Project property to the south, the use of the local area can be pushed back to at least the late 1880s.

The historic map database indicates that a number of older historic structures were once located on the Project property, which dated back to at least the 1920s. The Project property should, therefore, be considered as being *sensitive for older historic resources*.

Paleontological Record Search Results

The NHM record search findings were received on November 13, 2019, and confirmed that the Project is near rock formations considered to be sensitive for paleontological resources. The NHM recommends monitoring of any substantial extractions (e.g., excavated soil) within the Project property. If fossil remains are found, they recommended that a sediment sample is collected with the fossil. The response letter is also located in **Appendix B** of this report.



Figure 3: The 1903 Santa Susana USGS Map, showing no development on the Project property (red cross marks the estimated Project location).



Figure 4: The 1929 Newhall USGS Map, showing the three older historic structures on the property (red cross marks the estimated Project location).



Figure 5: The 1933 Newhall USGS Map, showing the three structures on the property, and the cemetery to the south (red cross marks the estimated Project location).



Figure 6: The Project area in the UCSB 1930 aerial image, showing the Project property closest to Sierra Highway and at least two of the three structures shown on the older USGS maps (UCSB Historic Aerial Image Database).

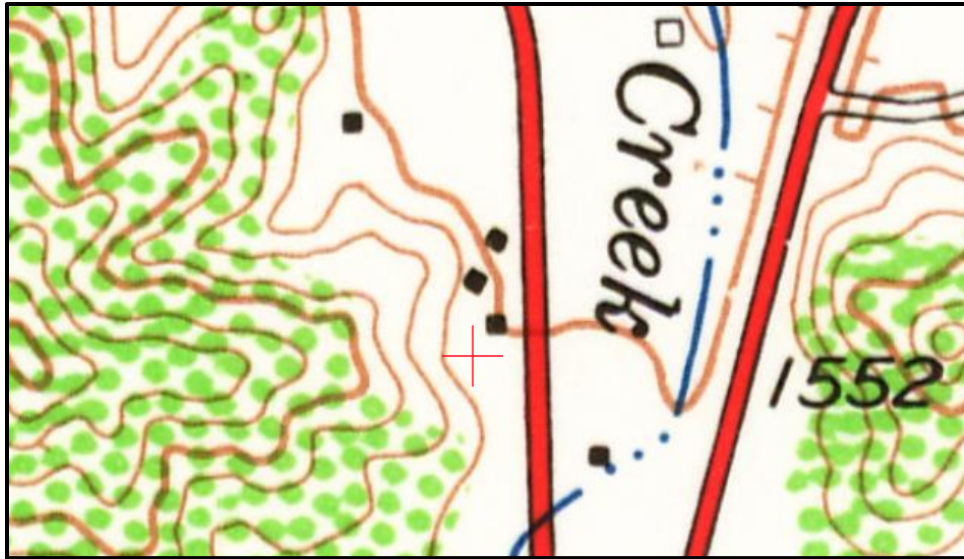


Figure 7: The 1952 Oat Mountain USGS Map, showing a new configuration for the three structures closest to Sierra Highway, with only the most southern structure (lowest) being still on the property (red cross marks the Project location).

Field Survey Results

Envicom staff visited the Project property on November 6, 2019. The Project property is an empty lot with modern trash and native vegetation. (**Figure 8, Figure 9, Figure 10, Figure 11, Figure 12, and Figure 13**). No early historic or prehistoric artifacts or features were observed on the surface, with surface visibility ranging from excellent to minimally obscured. The area near the highway showed distinct evidence of modern grading, as well as berm-creation on the landscape. Many of the berm piles showed evidence of modern trash and refuse. No evidence of the older historic structures could be found, nor were any features identified that could be associated with the earlier buildings. The field survey findings were, therefore, ***negative for cultural resources within the Project property.***



Figure 8: Project property showing the development footprint (facing north).



Figure 9: The Project property, showing the development footprint and excellent surface visibility (facing west).



Figure 10: A view from the top of the hill, showing modern terracing (facing southeast).



Figure 11: A view of the modern grading.



Figure 12: Another view of the Project property (facing west).



Figure 13: A view of the Project property, showing a mound of dirt and modern trash.

RECOMMENDATIONS

The results of the SCCIC and NAHC database record searches were negative for cultural resources within the Project property and within the Project study area. The surface assessment of the property was negative for cultural resources. However, the historic map and aerial photo database study was positive for at least two older historic residencies and associated out building(s), being located on the Project property, which dated to the 1920s. Further, the establishment of the ranch and cemetery to the south pushes the potential sensitivity date range for the property back to the late 1880s. The historic map database, therefore, indicated that the Project was sensitive for older historic cultural resources to be found accidentally during grading.

Envicom does not recommend further cultural resource assessment prior to construction for archaeological resources; however, due to the age of the development of the Project property and the possibility of subsurface deposits and features being encountered during grading that date back to the 1920s or even to the late 1880s, the Project should have an archaeological monitor present during grading to bedrock. Further, due to the Project being near to areas that are sensitive for fossil resources, a paleontological monitor is recommended if bedrock is encountered to the bottom of grading.

Recommendation 1: Archaeological and Paleontological Monitoring

An archaeological monitor that meets the Secretary of Interior qualifications will be on site during grading of the Project from surface to bedrock. The purpose of having an archaeologist on site is to assess if any significant cultural resources or features are encountered during grading. If such features are identified, then the “discovery” protocol will be followed. A paleontological monitor will be on site daily once bedrock is encountered, until grading ends. If significant fossils are identified, then the “discovery” protocol will be followed.

The archaeological monitor will collect any significant or diagnostic prehistoric or historic material that is uncovered through grading that is within a disturbed context, and can halt construction within 50-feet of a potentially significant cultural resource if necessary. Artifacts collected from a disturbed context or that do not warrant additional assessment can be collected without the need to halt grading. Discovery situations that do not lead to further assessment, survey, evaluation, or data recovery can be described in the monitor’s daily Monitoring Report. However, if more substantial resources are encountered, then the Project “discovery” protocol should be followed.

Similarly, paleontological monitors can collect fossils that are small or that are from disturbed context, and can halt construction within 50-feet of a potentially significant fossil resource if necessary. Fossils collected from a disturbed context or that do not warrant additional assessment can be collected without the need to halt grading. Discovery situations that do not lead to further assessment, survey, evaluation, or data recovery can be described in the monitor’s daily Monitoring Report. However, if more substantial resources are encountered, then the Project “discovery” protocol should be followed.

A final Project Monitoring Report will be produced that discusses all monitoring activities and all artifacts and fossils recovered and unimportant features identified through monitoring of the grading of the Project site. Discovery situations that do not lead to further assessment, survey, evaluation, or data recovery can be described in the Monitoring Report.

All artifacts recovered that are important, with diagnostic or location information that may be of importance to California and local history, will be cleaned, analyzed, and described within the Monitoring Report. All materials will be curated at an appropriate depository. All significant fossils recovered will be deposited with the Natural History Museum of Los Angeles. If important materials are found during monitoring, a Curation Plan will be needed that is reviewed by the Lead Agency prior to the publication of the Monitoring Report. The costs of the Monitoring Report, the Curation Plan, and the processing, analysis, and curation of all artifacts will be the responsibility of the applicant, within the cost parameters outlined under CEQA.

Recommendation 2: Archaeological and Paleontological Discovery Protocol

If potentially significant intact deposits are encountered that are within an undisturbed context, then a cultural resource/fossil “discovery” protocol will be followed. If significant prehistoric, older historic, or larger fossil materials are recovered in native original context, then all work in that area shall be halted or diverted away from the discovery to a distance of 50-feet until a qualified senior archaeologist or paleontologist can evaluate the nature and/or significance of the find(s). If a senior archaeologist or paleontologist (not the field monitor) confirms that the discovery is potentially significant, then the Lead Agency will be contacted and informed of the discovery.

Construction will not resume in the locality of the discovery until consultation between the senior archaeologist or paleontologist, the owner’s Project manager, the Lead Agency, and all other concerned parties, takes place and reaches a conclusion approved by the Lead Agency. If a significant resource is discovered during earth-moving, complete avoidance of the find is preferred. However, if the discovery cannot be avoided, further survey work, evaluation tasks, or data recovery of the significant resource may be required by the Lead Agency. The Lead Agency may also require changes to the Monitoring Plan, based on the discovery, such as the adding of Native American monitors if prehistoric material is encountered.

All costs for the additional monitoring, discovery assessment, discovery evaluation, or data recovery of will be the responsibility of the applicant, within the cost parameters outlined under CEQA. All individual reports, including the final Project Monitoring Report, will be submitted to the SCCIC or the NHM at the conclusion of the Project.

Recommendation 3: Inadvertent Discovery of Human Remains

The inadvertent discovery of human remains is always a possibility during ground disturbances; State of California Health and Safety Code Section 7050.5 addresses these findings. This code section states that in the event human remains are uncovered, no further disturbance shall occur until the County Coroner has made a determination as to the origin and disposition of the remains pursuant to California Public Resources Code Section 5097.98. The Coroner must be notified of the find immediately, together with the City and the property owner.

January 15, 2020

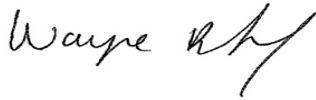
Cultural Resources Phase I Assessment for Sierra West Assisted Living and Memory Care Project

(Envicom Project #19-105-101)

Page 14

If the human remains are determined to be prehistoric, the Coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendant (MLD). The MLD shall complete the inspection of the site within 48 hours of notification and may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials and an appropriate re-internment site. The Lead Agency and a qualified archaeologist shall also establish additional appropriate mitigation measures for further site development, which may include additional archaeological and Native American monitoring or subsurface testing.

Sincerely,



Dr. Wayne Bischoff
Envicom Director of Cultural Resources
(with Mrs. Samantha Renta)

ATTACHMENTS:

Appendix A: SCCIC, NAHC, and NHM Request Letters

Appendix B: NAHC and NHM Response Letters

Appendix C: Resume of Dr. Wayne Bischoff (author)

APPENDIX A
SCCIC, NAHC, and NHM Request Letters



November 12, 2019

South Central Coastal Information Center
C.S.U.F, Dept. of Anthropology, MH 426
800 N. State College Blvd.
Fullerton, CA 92834-6846

Attn: Stacy St. James, Coordinator

Subj: Cultural Resources Phase I Assessment for Sierra West Assisted Living and Memory Care Project (*Envicom Project #19-105-101*)

Dear Ms. St. James:

Envicom Corporation (Envicom) is requesting a record search of the South Central Coastal Information Center (SCCIC) database of cultural resources within the attached Project site, plus a **0.25-mile study area**. The Project site is located at:

United States Geological Survey 7.5' Quadrangles: Oat Mountain, CA
Township: 4 North Range: 17 West
Latitude: 34° 21'47.74"North Longitude: 118°30'28.76"West

We are requesting the following: Resource Database Printout (list), Resource Database Printout (details), Resource Digital Database (spreadsheet), Report Database Printout (list), Report Database Printout (details), Report Digital Database (Spreadsheet), Resource Record Copies, Report Copies Office of Historic Preservation Historic Properties Directory, Archaeological Determinations of Eligibility, Los Angeles Cultural Monuments, and Historic Maps.

We also request the complete reports and/or site records for any cultural resources found within the Project site only, not the 0.25-mile study area.

Envicom appreciates the SCCIC's help with this request. For correspondence or questions regarding this Project, please contact Wayne Bischoff at 818-879-4700 (wbischoff@envicomcorporation.com).

Sincerely,

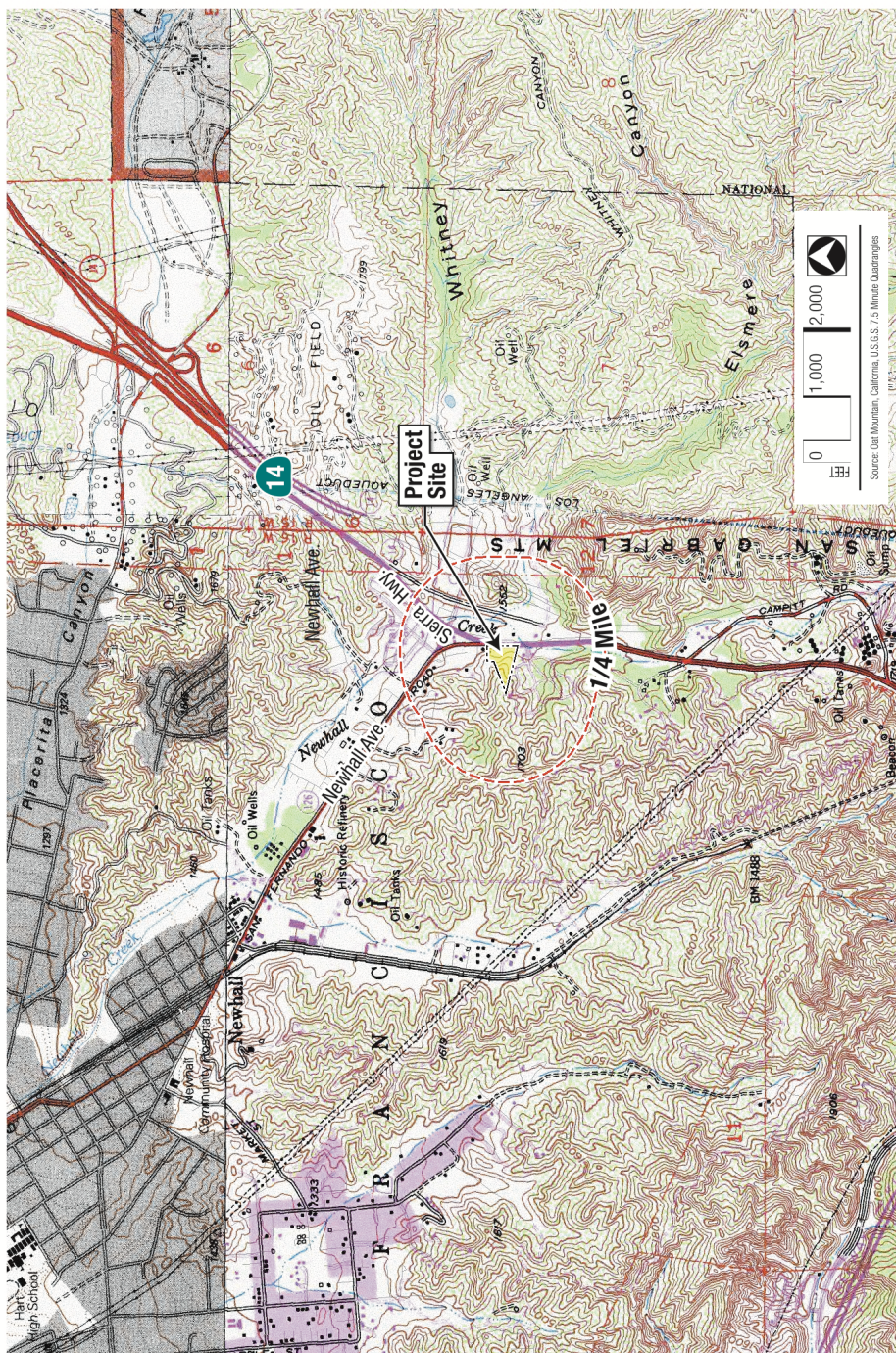
A handwritten signature in blue ink that reads "Wayne Bischoff".

Dr. Wayne Bischoff
Director of Cultural Resources

Attachment:

Project vicinity map on 1:24,000 topographic map







October 30, 2019

Native American Heritage Commission
1550 Harbor Boulevard, Room 100
West Sacramento, CA 95691

Subj: Cultural Resources Phase I Assessment for Sierra West Assisted Living and Memory Care Project (*Envicom Project #19-105-101*)

To Whom it May Concern,

Envicom Corporation (Envicom) is requesting a record review of the Native American Heritage Commission (NAHC) records of cultural resources for the Project site, plus a **0.25-mile study area**. We also request a list of Tribal Group representatives for the area in the event we need to contact their offices. The Project site is located at:

United States Geological Survey 7.5' Quadrangles: Oat Mountain, CA
Township: 4 North Range: 17 West
Latitude: 34° 21'47.74"North Longitude: 118°30'28.76"West

Envicom appreciates the NAHC's help with this request. For correspondence or questions regarding this Project, please contact Wayne Bischoff at 818-879-4700 (wbischoff@envicomcorporation.com).

Sincerely,

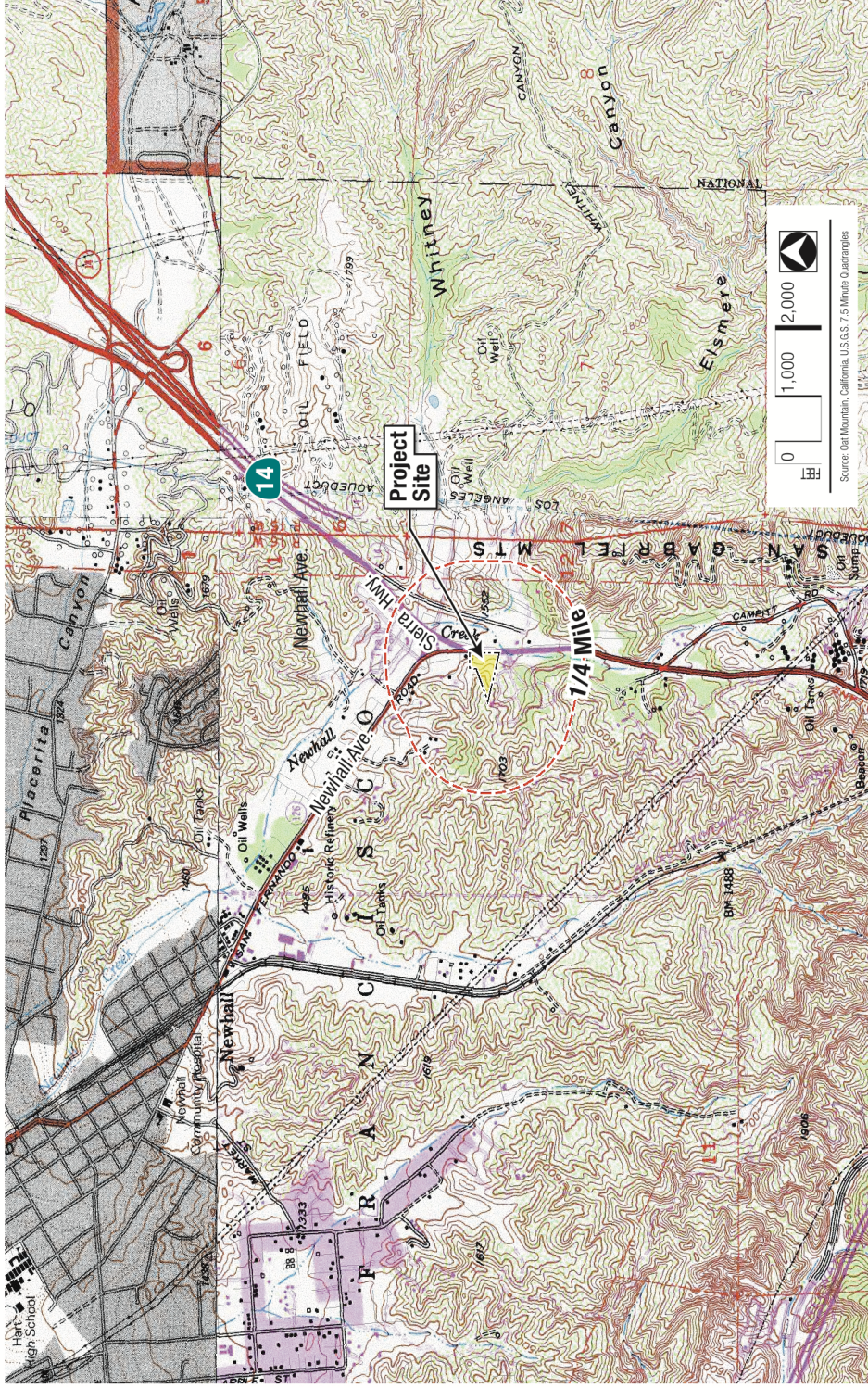
A handwritten signature in black ink that reads "Wayne Bischoff".

Dr. Wayne Bischoff
Director of Cultural Resources

Attachment:

Project vicinity map on 1:24,000 topographic map







October 30, 2019

Natural History Museum of Los Angeles
900 Exposition Blvd.
Los Angeles, CA 90007

Attn: Dr. Samuel McLeod

Subj: Cultural Resources Phase I Assessment for Sierra West Assisted Living and Memory Care Project (*Envicom Project #19-105-101*)

Dear Dr. McLeod:

Envicom Corporation (Envicom) is requesting a record search of the Natural History Museum of Los Angeles County (NHM) database for paleontological resources/sensitivity for the Project site and surrounding area (within 0.25 mile of the Project site), as well as a map/listing of all paleontological resources previously identified within the attached Project site, plus the 0.25-mile study area. The Project site is located at:

United States Geological Survey 7.5' Quadrangles: Oat Mountain, CA
Township: 4 North Range: 17 West
Latitude: 34° 21'47.74"North Longitude: 118°30'28.76"West

Envicom appreciates the NHM's help with this request. For correspondence or questions regarding this Project, please contact Wayne Bischoff at 818-879-4700 (wbischoff@envicomcorporation.com).

Sincerely,

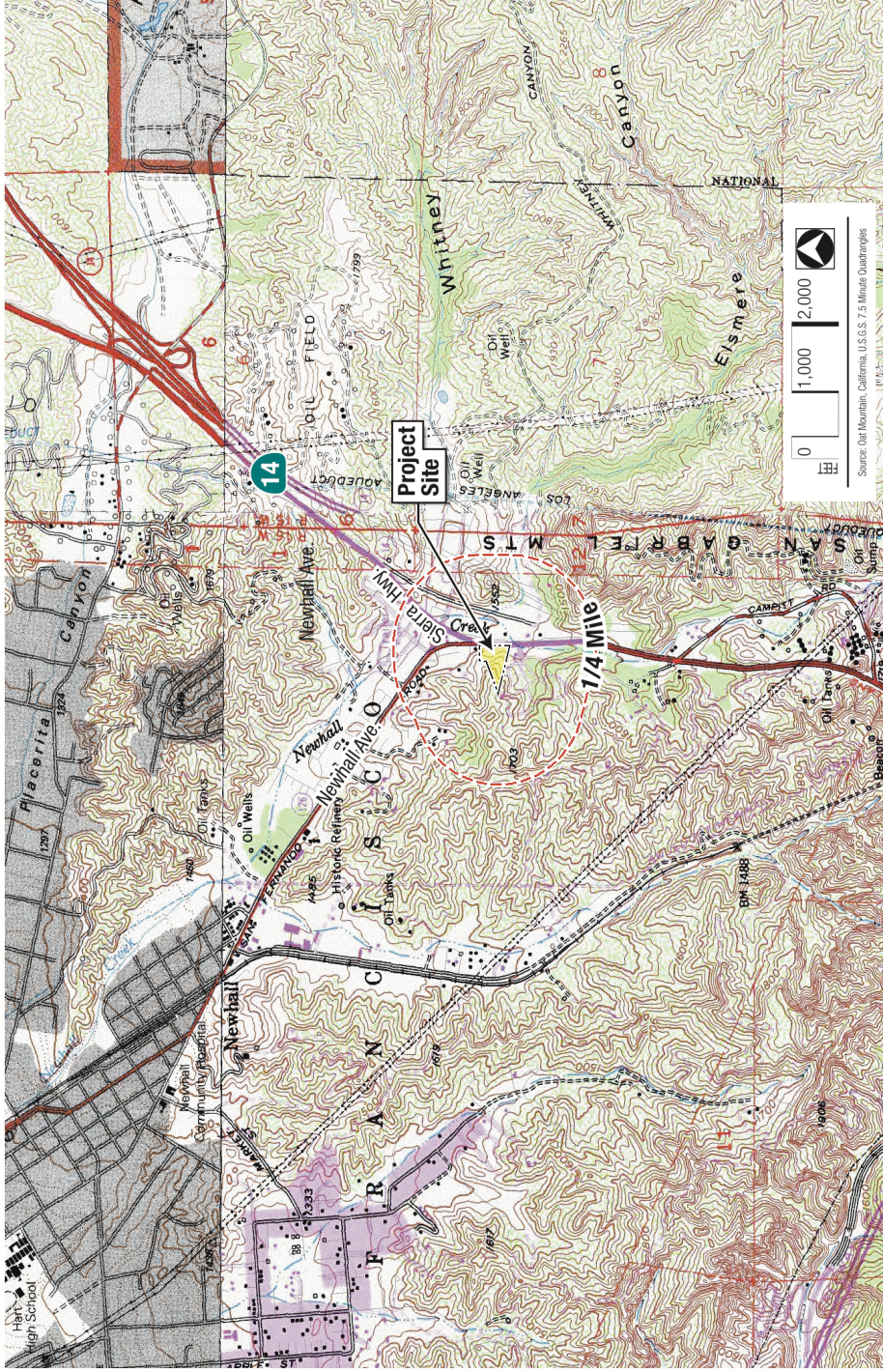
A handwritten signature in black ink that reads "Wayne Bischoff".

Dr. Wayne Bischoff
Director of Cultural Resources

Attachment:

Project vicinity map on 1:24,000 topographic map





0 1,000 2,000 Feet

APPENDIX B
NAHC and NHM Response Letters

NATIVE AMERICAN HERITAGE COMMISSION
Cultural and Environmental Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Phone: (916) 373-3710
Email: nahc@nahc.ca.gov
Website: <http://www.nahc.ca.gov>
Twitter: @CA_NAHC



November 19, 2019

Wayne Bischoff
Envicom

VIA Email to: wbischoff@envicomcorporation.com

RE: Sierra West Assisted Living and Memory Care Project, Los Angeles County

Dear Mr. Bischoff:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our lists contain current information. If you have any questions or need additional information, please contact me at my email address: steven.quinn@nahc.ca.gov.

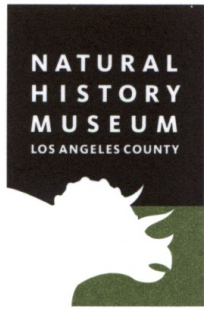
Sincerely,

A handwritten signature in blue ink that reads "Steven Quinn".

Steven Quinn
Associate Governmental Program Analyst

Attachment

Natural History Museum
of Los Angeles County
900 Exposition Boulevard
Los Angeles, CA 90007
tel 213.763.DINO
www.nhm.org



Vertebrate Paleontology Section
Telephone: (213) 763-3325

e-mail: smcleod@nhm.org

13 November 2019

Envicom Corporation
4165 East Thousand Oaks Boulevard, Suite 290
Westlake Village, CA 91362

Attn: Wayne Bischoff, Ph.D., Director of Cultural Resources

re: Paleontological resources for the proposed Sierra West Assisted Living and Memory Care Project, Envicom Project # 19-105-101, near Santa Clarita, Los Angeles County, project area

Dear Wayne:

I have conducted a thorough check of our paleontology collection records for the locality and specimen data for the proposed Sierra West Assisted Living and Memory Care Project, Envicom Project # 19-105-101, near Santa Clarita, Los Angeles County, project area as outlined on the portion of the Oat Mountain USGS topographic quadrangle map that Samantha Whittington sent to me via e-mail on 30 October 2019. We do not have any vertebrate fossil localities that lie directly within the proposed project area boundaries, but we do have localities nearby from the same sedimentary deposits that occur in the proposed project area.

In the very eastern-most portion of the proposed project area there are surface deposits of younger Quaternary Alluvium in the Newhall Creek drainages. These deposits typically do not contain significant vertebrate fossils in the uppermost layers, but older sedimentary deposits at shallow depth may well contain significant fossil vertebrate remains. Otherwise, the proposed project area has exposures of the late Pliocene to Pleistocene deposits of the Saugus Formation.

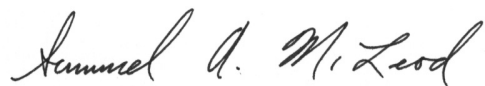
Our closest vertebrate fossil localities from the Saugus Formation are LACM 6803-6804, north-northwest of the proposed project area in Saugus south of Bouquet junction on the east side of Bouquet Canyon Road, that produced fossil specimens of camel, Camelidae, and horse,

Equus. Farther to the northwest of the proposed project area, up the small canyon on the west side of Castaic Creek between Hasley Canyon and the Saugus - Ventura Road (Highway 126), our Saugus Formation locality LACM 6063 produced a fossil specimen of horse, *Equus*. Slightly farther north in Hasley Canyon, our Saugus Formation locality LACM 6062 produced fossil specimens of alligator lizard, *Gerrhonotus*, rabbit, Leporidae, pocket mouse, *Perognathus*, and pocket gopher, *Thomomys*. To the southwest of the proposed project area, west of the Van Norman Reservoir between Limekiln Canyon and Aliso Canyon along Wilbur Avenue, our Saugus Formation locality LACM 6601 produced fossil specimens of deer, Cervidae, as well as a relatively rare specimen of fossil tapir, *Tapirus merriami*, figured in the scientific literature by Jefferson (1989. Late Cenozoic Tapirs (Mammalia: Perissodactyla) of Western North America. Contributions in Science, Natural History Museum of Los Angeles County, 406:1-21.).

Shallow excavations in the younger Quaternary Alluvium exposed in the two drainages of the proposed project area probably will not encounter significant fossil vertebrate remains. Deeper excavations that extend down into the Saugus Formation, or any excavations in the exposures of the Saugus Formation in the rest of the proposed project area, however, may well uncover significant vertebrate fossils. Any substantial excavations in the proposed project area, therefore, should be monitored closely to quickly and professionally recover any fossil remains while not impeding development. Sediment samples from the proposed project area should also be collected and processed to determine the small fossil potential of the site. Any fossils recovered during mitigation should be deposited in an accredited and permanent scientific institution for the benefit of current and future generations.

This records search covers only the vertebrate paleontology records of the Natural History Museum of Los Angeles County. It is not intended to be a thorough paleontological survey of the proposed project area covering other institutional records, a literature survey, or any potential on-site survey.

Sincerely,

A handwritten signature in black ink, reading "Samuel A. McLeod". The signature is written in a cursive, flowing style.

Samuel A. McLeod, Ph.D.
Vertebrate Paleontology

enclosures: appendix, invoice

Fossil fauna from the Capistrano Formation at locality LACM 5792

Chondrichthyes

Carcharhiniformes

Carcharhinidae - requiem sharks

Carcharhinus obscurus

Hemipristis serra

Hexanchiformes

Hexanchidae - cow sharks

Hexanchus

Lamniformes

Lamnidae - mackerel sharks

Carcharocles megalodon

Carcharodon carcharias

Isurus hastalis

Isurus oxyrinchus

Isurus planus

Lamna

Myliobatiformes

Myliobatidae - eagle rays

Myliobatis

Osteichthyes

Perciformes

Labridae - wrasses

Semicossyphus pulcher

Chelonia

Emydidae - pond turtles

Clemmys marmorata

Aves

Pelecaniformes

Phalacrocoracidae - cormorants

Podicipediformes

Podicipedidae - grebes

Podiceps parvus

Mammalia

Artiodactyla

Antilocapridae - pronghorn antelopes

Camelidae - camels

Carnivora

Otariidae - sea lions & walruses

Odobeninae

Otariinae

Cetacea

Balaenidae - right whales

Balaenopteridae - rorqual whales

Cetotheriidae - primitive baleen whales

Delphinidae - dolphins

Stenella

Phocoenidae - porpoises

Physeteridae - sperm whales

Scaldicetus

Pontoporiidae - “fresh water” dolphins

Parapontoporia

Proboscidea - elephants

Sirenia

Dugongidae - sea cows

APPENDIX C

Resume of Dr. Wayne Bischoff (author)



Wayne Bischoff, Ph.D.

Envicom Director of Cultural Resources

Dr. Bischoff has over 20 years' experience managing cultural resource projects and ensuring compliance with California Environmental Quality Act (CEQA), Section 106 of the National Historic Preservation Act (NHPA), the National Environmental Protection Act (NEPA), and state, county, city, and local government cultural laws, guidelines, and procedures. He has managed cultural, paleontological, ethnographic, and built environment projects throughout Southern California, including the Counties of Ventura, Los Angeles, Kern, Imperial, San Diego, Orange, Santa Barbara, Riverside, and San Bernardino. Dr. Bischoff has authored cultural resource section of Environmental Impact Reports (EIR), Mitigated Negative Declarations (MND), Environmental Impact Statements (EIS), Environmental Assessments (EA), Programmatic Agreements (PA), Memorandum of Agreements (MOA), and Memorandum of Understanding (MOU).

Dr. Bischoff has been the principal or project manager for hundreds of cultural resource projects in Southern California, including record searches, surveys, evaluations, and data recoveries, built environment and historic architectural inventories, HABS projects, paleontological surveys, ethnographic reports and Native American consultation, and historic structure evaluations. He has also worked with most of the Tribal Groups of Southern California, including the Chumash, Tongva, Washo, Yokut, Piute, Quechan, Cahuilla, Tataviam, San Manuel, Morongo, Luiseno. He has also provided Native American consultation for the City of Los Angeles and for many other municipalities throughout the region.

Recent Professional Projects

- **Simi BMX Course Phase I Survey, Simi Valley, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (July 2018 – Current)
- **Phase I Survey for the Massilia Spa Project, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. Project also includes an inventory and initial assessment of over a dozen 1930 through 1990 structures on the property (June 2018 – Current)
- **Los Angeles Community College District (LAUSD) Environmental On-Call (including cultural resources), Los Angeles County, CA.** Principal, Project Manager, and cultural resource consultant as needed. (February 2018 – Current)
- **Los Angeles Unified Schools Department (LAUSD) Environmental On-Call (including cultural resources), City of Los Angeles, Los Angeles County, CA.** Principal, Project Manager, and cultural resource consultant as needed. Envicom was one of 15 companies to be awarded this large on-call contract. (February 2017 – Current)
- **Phase I Survey of the Butler Ranch, in Ventura County near west Simi Valley, California.** Principal and Project Manager for the completion of a Phase I record search, NAHC record search request, and a site survey of this 332-acre low density residential development project. (May 2018 – Current)



- **Phase I Survey for the 17-acre Olivas Park Extension commercial development project in Ventura, Ventura County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey, followed by limited monitoring. (January 2018 – Current)
- **Review of Technical Documents and EIR Cultural Section Writing for “The Agoura Village Expansion” project, Agoura Hills, Los Angeles County, CA.** Professional review of project cultural resource documents and authoring of cultural resource section of MND for this large mixed use project. The primary challenge is that the development is located on a significant prehistoric Native American cultural resource. Native American consultation took place in July with the Chumash and Tataviam Tribal Groups (January 2018 – Current)
- **CA-LAN-321 Phased Evaluation Project, Agoura Hills, Los Angeles County, CA.** Principal and Project Manager for the phased evaluation (Phase II) of CA-LAN-321 in response to potential impacts from the construction of the Conrad N. Hilton Foundation Phase 2 Campus Building. The site is a prehistoric Chumash residential and ceremonial center of over 80-acres in size and that was used by prehistoric Native Americans from 400 A.D. to the late 1700s. Dozens of test units, hundreds of shovel test pits, surface collection, and surface feature mapping have been completed to date planned. Native American consultation took place in July with the Chumash and Tataviam Tribal Groups (August 2015 – Current)
- **City of Thousand Oaks Environmental On-Call (Including Cultural Resources), Los Angeles County, CA.** Envicom was selected as one of a limited number of on-call environmental firms for the City. (June 2015 – Current)
- **Phase I(b) Survey of the proposed Forrest Club 50-acre private club development, Los Angeles County, CA (with Samantha Whittington and Charlie Fazzone).** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. In addition, 24 shovel test pits were excavated across the locations of two 1920s historic cabins. No further work was required. (April 2018 – June 2018)
- **Phase I Survey for the Ascension Lutheran Church Master Plan and MND, Thousand Oaks, California, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (May 2018 – June 2018)
- **Phase I Survey for the Mulholland Senior Living Project, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (May 2018 – May 2018)
- **Phase I Survey of the proposed Tapo at Alamo EIR for a mixed-use development project, Simi Valley, Ventura County, CA (with Samantha Whittington and Debbie Balam).** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (March 2018 – May 2018)
- **Cultural, Paleo, and Native American Monitoring for the Agoura Hills Marriott Development Project.** Principal and Project Manager for this monitoring project. During monitoring, a prehistoric Chumash cultural resource was discovered, which led to artifact collection, analysis, and a final report of findings (January 2018 – May 2018)

- **Phase I Survey of the proposed 113-133 West Plymouth Street multiple unit residential development, Inglewood, Los Angeles County, CA (with Samantha Whittington, Debbie Balam, and Charlie Fazzone).** Principal and Project Manager for the completion of a record search, paleontological record search, NAHC record search request, and a site survey. (April 2018 – April 2018)
- **Phase I Survey of the Upper Bailey Road tract, Sylmar, Los Angeles County, CA (with Samantha Whittington and Debbie Balam).** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (December 2017 – April 2018)
- **Phase I Survey of the Lower Bailey Road tract, Sylmar, Los Angeles County, CA (with Samantha Whittington and Debbie Balam).** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (December 2017 – April 2018)
- **Historic Structure Evaluation of Blythe Elementary School for LAUSD.** Project Manager for this project, with Chattel, Inc., being the historic preservation consultant. (February 2018 – April 2018)
- **Historic Structure Evaluation of Robert Hill Lane Elementary School for LAUSD.** Project Manager for this project, with Chattel, Inc., being the historic preservation consultant. (February 2018 – April 2018)
- **Historic Structure Evaluation of James Madison Middle School for LAUSD.** Project Manager for this project, with Chattel, Inc., being the historic preservation consultant. School was found eligible for the CRHR. (February 2018 – April 2018)
- **Historic Structure Evaluation of 54th Street Elementary School for LAUSD.** Project Manager for this project, with Chattel, Inc., being the historic preservation consultant. School was found eligible for the CRHR. (February 2018 – April 2018)
- **Historic Structure Evaluation of Chapman Elementary School for LAUSD.** Project Manager for this project, with Chattel, Inc., being the historic preservation consultant. (February 2018 – April 2018)
- **Historic Structure Evaluation of Dena Street Elementary School for LAUSD.** Project Manager for this project, with Chattel, Inc., being the historic preservation consultant. (February 2018 – April 2018)
- **Historic Structure Evaluation of Patrick Henry Middle School for LAUSD.** Project Manager for this project, with Chattel, Inc., being the historic preservation consultant. School was found eligible for the CRHR. (February 2018 – April 2018)
- **Historic Structure Evaluation of Richland Avenue Elementary School for LAUSD.** Project Manager for this project, with Chattel, Inc., being the historic preservation consultant. (February 2018 – April 2018)
- **Marinette Road Residential Development, Pacific Palisades, Los Angeles County, CA.** Principal and project manager for this development project, which included a record search, site survey, Tribal Group scoping letters, and agency consultation. The major challenge was that the project property was within the Will Rogers State Monument and National Register site boundary. An update for this project was conducted in 2018 to include AB-52 compliance. (February 2015 – May 2015; January 2018 – April 2018)

- **Phase I Survey for 6956 Dume Drive, Malibu, California, Los Angeles County, CA (with Samantha Whittington).** Principal and Project Manager for the completion of an SCCIC and NAHC record search, and a site survey. (February 2018 – March 2018)
- **Phase I Survey of roughly 50-acres for Improvements on the Saddlerock Ranch/Malibu Wines Property in the Santa Monica Mountains, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC scoping, and a site survey. This project involves upgrades to the winery existing structures and public buildings, as well as road and parking improvements. Part of this project is located near a National Register Chumash rock art site as well as other prehistoric resources (November 2016 – March 2018)
- **Phase I Survey for 28730 Grayfox, Malibu, California, Los Angeles County, CA (with Samantha Whittington).** Principal and Project Manager for the completion of an SCCIC and NAHC record search, and a site survey. (January 2018 – February 2018)
- **Phase I Survey for 11681 Foothill Boulevard, a multiple-unit residential project in Sylmar, California, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (November 2017 – February 2018)
- **Phase I Survey for a single family property development along Yerba Buena Road, Ventura County, CA.** Principal and Project Manager for the completion of an SCCIC and NAHC record search, and a site survey. (December 2017 – January 2018)
- **Phase I Survey for 34134 Mulholland Highway, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (December 2017 – January 2018)
- **Faunal, Osteological, Archaeological, and Fossil Consultation for Citadel Environmental and Turner-Hunt for the Hollywood Park Development Project (new Rams NFL Stadium).** Osteological and paleontological consultant for Kiewit, Turner, and Citadel for the construction of the new Rams NFL stadium in Inglewood. Project included discovery and recordation of modern and fossil mammal bones. (December 2016 – January 2018)
- **Phase I Survey for 24600 Thousand Peaks Road, Calabasas, California, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (November 2017 – January 2018)
- **Phase I Survey for 28929 Grayfox, Malibu, California, Los Angeles County, CA.** Principal and Project Manager for the completion of an SCCIC and NAHC record search, and a site survey. (November 2017 – January 2018)
- **Manzanita School Phase Ia Survey for a 20.27-acre private school development in Topanga Canyon, California, Los Angeles County, CA.** Principal and Project Manager for the completion of an SCCIC and NAHC record search, and a site survey. (May 2017 – January 2018)
- **Phase I Survey for the 181 to 187 Monterrey Road Condominium Project, a small residential development near South Pasadena, California, Los Angeles County, CA.** P Principal and Project Manager for the completion of an SCCIC and NAHC record search, and a site survey. (July 2017 – January 2018)

- **Phase I Survey for for the Agoura Village project, a 7.37-acre Commercial Subdivision in the City of Agoura Hills, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC scoping, and a Phase Ia site survey. The Phase Ia survey was followed by a Phase Ib subsurface survey and an updated site form for a previously known prehistoric cultural resource that includes the entire project area. (October 2016 – December 2017)
- **Phase I survey for 22866 Beckledge Terrace, Malibu, California.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (September 2017 – November 2017)
- **Lynn Road Residential Development Project, Construction Monitoring, Newbury Park, CA.** Principal and Project Manager for the surface collection and construction monitoring for this 10-acre residential construction project. (October 2017 – November 2017)
- **Phase II Evaluation of two cultural resources located on the Oakmont project property, City of Agoura Hills, Los Angeles County, CA.** Principal and Project Manager for the evaluation of a prehistoric cultural resource and a 1920s-1980s historic homestead cultural resource. Evaluation tasks included shovel test pits, and a test unit for the prehistoric cultural resource, and detailed mapping and documents research for the historic cultural resource. A combined report for both Oakmont projects was produced for the City. (August 2017 – October 2017)
- **City of Pomona Environmental On-Call (Including Cultural Resources), Los Angeles County, CA.** Envicom successful won inclusion as one of six on-call environmental firms for the City. (October 2014 – October 2017)
- **Phase I Survey for for the Oakmont commercial project, a 5.75-acre development in the City of Agoura Hills, Los Angeles County, CA.** Principal and Project Manager for the completion of NAHC record search, and a Phase Ia site survey. The Phase Ia survey identified two cultural resources; a 1920s historic homestead foundation, and a large prehistoric archaeological site. (August 2017 – October 2017)
- **Phase I Assessment of the West Hills Crest 37-acre Residential Subdivision in West Hills, City of Los Angeles.** Principal and Project Manager for the completion of a record search and project area site survey. A key issue for this project was the record search being positive for a prehistoric cultural resource within the development area. This resource, CA-LAN-1223, was further investigated with 22 shovel test pits, and evaluated as not being a significant cultural resource. (February 2017 – October 2017)
- **Phase I Survey for 15498 LaPeyre Court, a residential development in Moorpark, Ventura County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. Project also included coordination with numerous biology tasks. (August 2017 – September 2017)
- **San Bernardino County Cultural, Historic Architecture, and Paleontology On-Call, San Bernardino, CA.** Envicom successful won inclusion in the limited on-call pool. (October 2014 – Current)
- **Pepperdine University Campus Life Project: Updated Cultural Resources Record Search.** Principal and Project Manager for an updated record search and letter report for the Pepperdine Campus Life housing, facilities, and trail development project. This update was part of an ammended campus-wide EIR (December 2017 – June 2017)

- **Fourth and Hewitt, City of Los Angeles, Los Angeles County, CA.** Principal and Project Manager for a cultural resource record search for the development of a new office building within a commercial urban environment. Project also included a paleontological assessment of the property due to an extensively deep planned parking garage and Native American concerns. Also completed with an Ethnographic Report to meet AB-52 criteria. Another key issue was determining whether a historic built environment assessment was needed. (February 2017 – January 2017)
- **Pepperdine University Campus Life Project: Phase I survey of new Baseball Field development.** Principal and Project Manager for the addition of the campus baseball field as part of the larger Pepperdine Campus Life housing, facilities, and trail development project. (February 2017 – June 2017)
- **Phase I Survey for the Copper Canyon Project, a 5-acre residential development near Santa Clarita, California, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. Also part of the project was the resurvey of two previously recorded cultural resources within the project boundary. (May 2017 – July 2017)
- **Phase Ia Survey for the Oneonta Hillside Drive, a residential development in South Pasadena, Los Angeles County, CA.** Principal and Project Manager for the completion of an SCCIC and NAHC record search, and a site survey. (May 2017 – July 2017)
- **North Canyon Ranch 170-acre Residential Subdivision in Simi Valley, Ventura County, CA.** Principal and Project Manager for the completion of a record search and project area site survey. A key issue for this project was a previously disturbed cultural resource within the project area, the destruction of which needed to be addressed in the final report. (May 2017 – August 2017)
- **Construction Monitoring for Parcel 2058-003-010, Lobo Canyon, Los Angeles County.** Principal and Project Manager for the surface collection and construction monitoring for this single family residential construction project. (July 2015 – August 2016).
- **Phase I Survey for the 12300 Valley Boulevard Hotel, a commercial development in El Monte, Los Angeles, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey for this small residential development. (June 2017 – August 2017)
- **Phase Ia Survey for the Holiday Inn Express Hotel, a commercial development in El Monte, Los Angeles, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey for this small residential development. (July 2017 – August 2017)
- **Arcadia Town Homes MND Phase I Cultural Assessment for a multi-unit residential development in Arcadia, Los Angeles, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey for this multi-unit residential development. (May 2017 – August 2017)
- **Phase I Survey for the 6625 Bradley Road, a residential development in Somis, Ventura County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey for this small residential development. (June 2017 – July 2017)

- **Phase I Survey for 3800 Figueroa, an apartment complex development in Los Angeles, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey for apartment complex development. (June 2017 – August 2017)
- **11172 Santa Paula Road Phase Ia Survey for a 5.5-acre Agricultural property in Ojai, California, Ventura County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (May 2017 – June 2017)
- **6658 Reseda Boulevard, City of Reseda, Los Angeles County, CA.** Principal and Project Manager for a Phase 1 record search for this urban mixed use project. (March 2017 – May 2017)
- **Paradise Valley Development Project Environmental Impact Report and Impact Statement, Riverside County, CA.** Author of the cultural section for this EIR for a housing and mixed use development of over 2200-acres east of Indio, California. Also reviewed original technical documents, and incorporated legal and agency comments. Mitigation measures included the management and monitoring of dozens of cultural resources, sensitive soils, and paleontological resources. (October 2014 – March 2017)
- **Phase I Cultural Resources Survey for Parcel 2058-003-010, Lobo Canyon, Los Angeles County, CA.** Principal and Project Manager for completion of a Phase Ia and NEPA permit for the project (USACOE, Los Angeles District). Extensive communications and consultation with the COE and SHPO. Project also involved the mitigation monitoring of a prehistoric cultural resource located on the property. (July 2016 – March 2017)
- **Phase I Survey for a 1.33-acre Mixed-Use development in the City of Northridge at the corner of Nordoff and Darby Streets, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC scoping, and a site survey. This project included a built-environment assessment of existing historic structures (October 2016 – February 2017)
- **Phase I Survey for a 0.5-acre Residential Subdivision in the City of Los Angeles at the end of Crisler Way, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (October 2016 – February 2017)
- **Deer Lake Residential Development Cultural Monitoring, Porter Ranch, Los Angeles, CA.** Principal and Project Manager for the cultural monitoring of eight cultural resources within the project development boundary. This project includes the writing of a final Monitoring Report. (May 2016 – February 2017)
- **Phase I Survey for a 0.5-acre Mixed Use Development Project on Camarillo Avenue in North Hollywood, Los Angeles County, CA.** Principal and Cultural Project Manager for the completion of a record search, NAHC scoping, and a site survey. This project also included a historic built environment assessment (November 2016 – January 2017)
- **Phase I Survey for a 14-acre Residential Subdivision in Woodland Hills, CA.** Principal and Project Manager for the completion of a record search, NAHC scoping, and a site survey. This project involved consultation with the City of Los Angeles on AB-52 (July 2016 – January 2017)

- **Lynn Road Residential Development Project, Newbury Park, CA.** Principal and Project Manager for the Phase Ia and Phase Ib survey of this 10-acre parcel. A large prehistoric Middle-Period seasonal settlement was discovered, which required subsurface testing and extensive mapping of surface hearths, yucca roasters, and dwelling features. Project included public testimony before the Thousand Oaks Planning Commission. (September 2015 – December 2016)
- **Pepperdine University Campus Life Project: Debris Basin Excavation Cultural and Paleontological Resource Monitoring, Los Angeles, CA.** Principal and Project Manager for cultural resource monitoring of Phase I of the Pepperdine Campus Life housing, facilities, and trail development project. (August – October 2016)
- **Trail Construction Monitoring, Conrad N. Hilton Foundation.** Principal and Project Manager for the development of a pedestrian foot trail loop between the Foundation and the nearby “Ridge” professional building, including the excavation of dozens of shovel test pits and a major surface collection of prehistoric artifacts, including trail construction monitoring. (August – September 2016)
- **32640 PCH Phase I Cultural Resource Survey, Santa Monica, CA.** Principal and Project Manager for the Phase I cultural resource assessment of a ravine rehabilitation project between the Pacific Coast Highway and the Pacific Ocean. Included a record search, site survey, and technical report. (May 2015 – June 2016)
- **Conrad N. Hilton Foundation Trail Project Cultural Assessment, Agoura Hills, Los Angeles County, CA.** Project Manager for the Phase 1b survey of a new pedestrian access trail linking off-site office space with the Foundation campus buildings. Project included the excavation of over 30 shovel test pits and the recording of numerous prehistoric features. (May – August 2016)
- **CA-LAN-321 Project Compliance Plans, and Native American and Lead Agency Consultation, Agoura Hills, Los Angeles County, CA.** Tasks included the authoring of a cultural resource Treatment and Data Recovery Plan, a cultural resource Management Plan, and a Curation Plan for all artifacts, as well as the organization of meetings with the Chumash Tribal Groups and the Lead Agency. (April 2015 – June 2016)
- **Canyon Park Homes, Sylmar, Los Angeles County, CA.** Native American Tribal Group consultation and pre-construction monitoring for this 80-acre residential property development, as well as EIR section writing. (February 2015 – March 2016)
- **Oakwood Schools Built Environment and Archaeological Assessment, North Hollywood, Los Angeles County, CA.** Principal and Project Manager for the Phase I cultural resource assessment of the project property prior to the construction of a new middle and high school campus within the North Hollywood area. Challenging tasks included Native American ghost writing for the lead agency (City of Los Angeles) and addressing a modern human cremation garden in the report (November 2015 – February 2016)
- **Floral Canyon Residential Development Cultural Resource Survey, North Hollywood, CA.** Principal and Project Manager for this Phase Ia cultural resource survey of an 8-acre property. The cultural resource parts of the CEQA checklist were also completed. (September – December 2015).

- **Hilton Property Phase 3 Construction Site Phase Ib Cultural Resources Survey, Agoura Hills, Los Angeles County, CA.** Principal and Project manager for this extensive preliminary survey project, including excavation of over 200 shovel test pits and 4 test units to define the boundaries of a prehistoric ceremonial site of over 80-acres in size, used by Chumash Native Americans from 400 A.D. to the late 1700s. Recordation of over 190-features and 11,500 artifacts. Second phase will include data recovery tasks and an ammended Environmental Impact Report. (February 2014 – March 2015)
- **Blessed Theresa Church Construction, City of Winchester, Riverside County, CA.** Cultural consultation including cultural/paleo monitoring issues. (April 2014 – July 2014)
- **Village at Los Carneros, City of Goleta, Santa Barbara County, CA.** Reviewed all previous technical studies and wrote part of the cultural sections of the Environmental Impact Report for this residential house development project. (March 2014 – April 2014)
- **3121 Old Topanga Canyon Road Phase I Survey and Literature Search, City of Calabasas, Los Angles County, CA.** Principal and Project manager for this residential development project, including NAHC letters, literature review, site survey, paleontolgoical survey and literature search, final technical report, and the writing of the cultural resources section of the Environmental Impact Report. (March 2014 – April 2014)
- **Beacon Solar, Hecate Energy and LADWP, Kern County, CA.** Business Developer for the archaeology and biological monitoring, pre-construction surveys, and desert totoise fence monitoring for this large, 2000-acre solar project for the Los Angeles Department of Water and Power. (July – October 2013).
- **Q-Cells Solar Survey, Palm Springs, Riverside County, CA.** Principal and Project Manager for a cultural survey and record search of 36-acres north of Palm Springs for solar development. (October 2013 – October 2013)
- **Pacific Gas and Electric NERC Support Monitoring, sub to URS, Northern and Central California.** Principal and Project Manager for this 4-year project in support of the national NERC power pole reliablity project for PG&E. Involves cultural, biological, and paleontological monitoring and field surveys. (October 2013 – October 2013)
- **Gold Bar Transmission Line Survey, McEwen Mining, Eureka County, NV.** Principal and Project Manager for this 2,577-acre cultural survey for the develeopment of a 33-mile transmission line to service the Gold Bar Mine in Nevada. Bureau of Land Management was the principal Federal agency. (April 2013 – October 2013).
- **East Kern Wind Resource Area (EKWRA) Power Pole Replacement Project, Environmental Intelligence / Southern California Edison, Kern County, CA.** Principal and Project Manager. This two-year project included cultural resource surveys, the evaluation of numerous cultural sites, and cultural and paleontological monitoring for the construction of over 130-miles of new power poles and fiber optics lines to service Tehachapi Moutain wind farms. (January 2013 – October 2013)
- **Pure Source Power, Victorville, San Bernardino, CA.** Principal and Project Manager for a cultural survey and record search of 140-acres north of Palm Springs for solar development. (September 2013 – October 2013)

- **Dry Ranch Solar Project, Silverado Power, Los Angeles County, CA.** Principal. Dr. Bischoff managed this 64-acre solar project near Lancaster, which included a record search, field survey, and cultural report to meet CEQA compliance. This project included coordination with Southern California Edison for a gen-tie line and telecom attachments. (March - April 2013)
- **Plainview Solar Project, Silverado Power, Los Angeles County, CA.** Principal. Dr. Bischoff managed this 114-acre solar project near Lancaster, which included a record search, field survey, and cultural report to meet CEQA compliance. (April - May 2013)
- **Silverleaf Solar Project, Cultural and Paleontological Survey, Agile Energy, Imperial County, CA.** Principal and Project Manager. Dr. Bischoff provided general review and quality control for a large solar project south of San Diego. This project involved an over 2,000-acre survey of proposed solar fields and 5-miles of electrical transmission gen-tie lines. The Bureau of Land Management was the principal Federal agency. (November 2011 - July 2012)
- **Desert Harvest Solar Project, Build Environment Survey, eneXco Energy, Riverside County, CA.** Project Manager. Dr. Bischoff was the project manager for the built environment survey of 1,600-acre solar field and 12-miles of electrical transmission gen-tie lines. This included the production of a separate technical report for the Bureau of Land Management that included a historic structure inventory, assessment of significance, and an indirect effects analysis. (November 2011 - June 2012)
- **Silverleaf Solar Project, Built Environment Survey, Agile Energy, Imperial County, CA.** Project Manager. Dr. Bischoff was the project manager for the built environment survey of 2,000-acre solar field and 5-miles of electrical transmission gen-tie lines. This included the production of a separate technical report for the Bureau of Land Management that included a historic structure inventory, assessment of significance, and an indirect effects analysis. (November 2011 - July 2012)
- **IVSC2 Solar Project, County of Imperial, Imperial County, CA.** Principal and Project Manager. Dr. Bischoff provided oversight of the 140-acre solar project east of the Salton Sea. This project was notable for the quick response time required to field a survey crew and complete a draft report for the County (Sept-Oct 2012)
- **Desert Harvest Solar Project, Cultural and Paleontological Resource Survey, eneXco Energy, Riverside County, CA.** Principal and Project Manager. Dr. Bischoff provided general review and quality control for a large solar project northeast of Blythe, CA. This project involved an over 1,600-acre survey of proposed solar fields and 12-miles of electrical transmission gen-tie lines. Bureau of Land Management was the principal Federal agency. (November 2011 - July 2012)
- **Desert Harvest Solar Project, Build Environment Survey, eneXco Energy, Riverside County, CA.** Project Manager. Dr. Bischoff was the project manager for the built environment survey of 1,600-acre solar field and 12-miles of electrical transmission gen-tie lines. This included the production of a separate technical report for the Bureau of Land Management that included a historic structure inventory, assessment of significance, and an indirect effects analysis. (November 2011 - June 2012)

- **AT&T Fiber-optics Renewal Project, Evaluations, Mitigations, and Monitoring, AT&T, San Bernardino County, CA.** Cultural Principal and Project Manager. Dr. Bischoff will provide project management, technical writing, and quality control for the cultural and paleontological evaluations, data recoveries, and monitoring efforts for the AT&T fiber renewal project. This project involved the survey of over 90 miles of proposed new fiber-optic line between Barstow and Las Vegas, NV, and the management of over 100-cultural sites. Bureau of Land Management and Mojave National Preserve were the principal Federal agencies. (July 2013 – October)
- **Fiber Node Evaluations, Freedom Communications, Orange County, CA.** Cultural Principal. Dr. Bischoff provided general project management and quality control for the cultural background record searches and surveys for dozens of telecommunication sites throughout the City of Irvine as part of the Freedom Communications site development project. Dozens more sites are expected to be tested in the coming year. (April 2012 – October 2013)
- **San Diego Churches and Public Building Historic Structure Evaluations, DePratti Inc., City of San Diego, CA.** Principal Investigator. Dr. Bischoff acted as Principal and QA/QC manager for this project, which involved the evaluation of dozens of historic structures as part of the DePratti Communication telecommunication attachment project in the City of San Diego. (November 2011 – October 2013)
- **The Plunge Evaluation, DePratti Inc., City of San Diego, San Diego County, CA.** Principal for this historic architecture project involving the structural evaluation and National Register documentation for The Plunge historic salt-water bath house in San Diego. (September 2013 – September 2013)
- **AT&T Fiber-optics Renewal Project, Surveys, Literature Searches, and Technical Studies, AT&T, San Bernardino County, CA.** Cultural Principal and Project Manager. Dr. Bischoff provided general project management and quality control for the cultural, paleontological, and ethnographic surveys, literature searches, and technical studies. This project involved the survey of over 90 miles of proposed new fiber-optic line between Barstow and Las Vegas, NV, and the management of over 100-cultural sites. Bureau of Land Management and Mojave National Preserve were the principal Federal agencies. (April 2012 – July 2013)
- **Digital West Fiber Line Feasibility Study, San Luis Obispo to Los Angeles, Counties of San Luis Obispo, Sanata Barbara, Ventura, and Los Angeles, CA.** Project Manager for this large feasibility study for placing a new fiber line down the US 101 freeway corridor. Biological, cultural, paleontological, and permitting constraints were all examined. (April 2012 – July 2013)
- **Digital 395 Broadband Stimulus Project, Praxis and California Broadband Corporation, California and Nevada.** Cultural Director. Dr. Bischoff acted as the California report manager of the cultural division, directed fieldwork, and authored management documents and reports. This project involved the new installation of over 650 miles of fiber-optic line across California and Nevada. The programmatic agreement of this complex project included 10 federal, state, and tribal agencies, with another seven acting as interested parties, and the management, evaluation, and monitoring of over 170 cultural sites. NTIAA was the Principal Federal Agency, but also involved twelve other California and Nevada State and Federal agencies and Tribal Groups (November 2011 – April 2012)

- **Fort Irwin Cell Tower Geotech Boring Monitoring, Northrop-Grumman and Fort Irwin Army Post, San Bernardino County, CA.** Principal. This project involves the cultural and paleo monitoring of sensitive areas as part of the construction of over 24 new cell tower locations. (October 2013 – October 2013)
- **Edwards Airforce Base Telecommunication Cultural Monitoring, Team Fischel Company, Edwards AFB, Kern County, CA.** Project Manager and Principal for the cultural monitoring of 40-miles of telecommunication trenching on Edwards AFB, including pre-construction meetings and a final monitoring report. (May 2013 – Sept. 2013)
- **Fort Irwin Cell Tower Surveys and Monitoring, Northrop-Grumman and Fort Irwin Army Post, San Bernardino County, CA.** Principal. This project involves the cultural and paleo survey of over 24 new cell tower locations and associated access roads on Fort Irwin, as well as construction phase monitoring. (April 2013 – October 2013)
- **Marine Corps Base, Camp Pendleton, Cultural Resources Consultation, Marine Corps Base, Pendleton, San Diego County, CA.** On-Call Senior Cultural Resources Consultant. Dr. Bischoff provided senior-level cultural resource consultation related to Camp Pendleton’s Basewide Utilities Infrastructure Improvements project. He provided consulting on cultural resource management for several waste treatment and utility line systems as part of the Camp’s “Grow the Force” initiative. (2011 – October 2013)
- **Pacoima Spreading Grounds Improvement Project, LACDPW, Los Angeles County, CA.** Cultural Principal. Dr. Bischoff managed the cultural resources record search and CEQA cultural section mitigation measures of an EIR for the improvement of the Pacoima spreading grounds and related canal resources. (April 2013 – October 2013)
- **Devil’s Gate Reservoir Sediment Removal and Management Project, LACDPW, Los Angeles County, CA.** Principal of Cultural Resources. This project involved removal of sediment within the Devil’s Gate Reservoir area, which required a preliminary cultural survey and record search under CEQA, as well as an EIR. Dr. Bischoff served as the cultural principal for the project and provided a recommended plan for dealing with sedimentary soils vs. native soils, monitoring criteria, and potential discovery situations. Dr. Bischoff helped write Environmental Impact Report sections, and worked with the Gabrieleno Tribal Group in the protection of archaeological and tribal cultural resources. (2011 – October 2013)
- **Peck Road Spreading Basin Improvement Project, LACDPW, Los Angeles County, CA.** Cultural Principal. Dr. Bischoff managed the cultural resources record searches, field survey, paleontological survey, and CEQA cultural section mitigation measures of an MND for the improvement of the Peck Road Spreading Basin, including a related new water discharge pipe. (June 2013 – September 2013)
- **Marina Del Rey Waterline Replacement Project Cultural Monitoring, LACDPW, Los Angeles County, CA.** Cultural Principal. This project with the Los Angeles Department of Public Works involved the cultural monitoring for the Marina Del Rey 18-inch Waterline Replacement. Chambers Group also provided a qualified archaeological monitor at the project site during excavation activities during construction. (March - May 2013)
- **Dieguito Wetlands Restoration Monitoring, Southern California Edison, Del Mar, San Diego County, CA.** Principal Investigator and Project Manager. This project involved the extensive rehabilitation of Southern California Edison property as part of the Dieguito Wetlands Restoration project. (April 2012 - January 2013)

- **Live Oaks Spreading Grounds Project, LACDPW, Los Angeles County, CA.** Cultural Principal. Dr. Bischoff managed the cultural resources record search and site visit for this public works project. (April 2013 – October 2013)
- **Los Penasquitos Wetlands Monitoring, AMEC, Del Mar, San Diego County, CA.** Principal Investigator. Dr. Bischoff managed the monitoring tasks, budgets, and professional standards for this project near the City of Del Mar as part of the Torrey Pines State Nature Reserve restoration. (October - December 2012)
- **San Geronio Creek Water Recharge Basin Construction Monitoring, Beaumont Cherry Valley Water District, Cherry Valley, Riverside County, CA.** Principal and Project Manager. This project involved paleontological and archaeological construction monitoring during construction, including emergency evaluation and monitoring when early 19th Century structures and materials were unexpectedly encountered during earth moving. (February 2012 – April 2012)
- **Penmar Golf Course Water Quality Improvement Project, Pacific Hydrotech and City of Santa Monica, Santa Monica, CA.** Principal Investigator. Dr. Bischoff managed QA/QC review, budgets, and professional standards for the project in the City of Venice. Penmar was a multi-year waterline and tank improvement project in which evidence of ethnic Japanese barrios and fossil Pleistocene animal bones were discovered. (November 2011 - November 2012)
- **Oxford Retention Basin Flood Protection Project, LACDPW, Los Angeles County, CA.** Principal and Project Manager. The Oxford Basin in Marina Del Rey was receiving enhancement, and Dr. Bischoff managed the completion of the cultural survey, literature review, and construction monitoring for the project. (2011 - 2012)
- **Veterans Administration, VISN 21 On-Call, Western States, Teamed with KAL Architectes.** This project will provide cultural and biological technical services for Veterans Administration projects from October 2013 to October 2018. (October 2013 – October 2013)
- **Historic Structure Evaluations for Statewide Weatherization Efforts, sub to ICF for the State of California, All Counties, CA.** Project Manager and Principal. This project involves meeting NEPA compliance for low-income subsidized weatherization efforts throughout the State of California. Hundreds of structures will be evaluated as part of this project by a Chambers Architectural Historian using a abbreviated format. (November 2011 to October 2013)
- **CEQA Services for Improvements to Polytechnic and Wilson High Schools, LBUSD, City of Long Beach, CA.** Cultural Principal. Dr. Bischoff provided oversight and incorporation of the historic architecture technical reports into the project CEQA documents. (June 2013 – August 2013)
- **Mill Creek Crew Room Cultural Monitoring, Angeles National Forest (ANF), Los Angeles County, CA.** The County of Los Angeles Department of Public Works proposed to replace the crew room building within the Angeles Forest Mill Creek Summit Maintenance Yard facility. This CEQA/NHPA project involved the preparation of a treatment and discovery plan document, ARPA permitting, constant consultation with the ANF, construction monitoring, and a final monitoring report. (April – July 2013)

- **Review of Technical Report and CEQA Documents Relating to the Proposed Demolition of Santa Ana Public Building #16, City of Santa Ana, Santa Ana, CA.** Principal. This project involved the review of technical documents, mitigation measures, and CEQA documents relating to the demolition of a 1950s public building in the City of Santa Ana. (May 2013 – July 2013)
- **Roosevelt School, LBUSD, City of Long Beach, CA.** Cultural Principal. Dr. Bischoff provided oversight, authorship, and counsel on the EIR for the demolition of the Roosevelt Elementary School in Long Beach. This proved to be a complex project, involving an historic built environment resource evaluation and mitigation plan, legal investigation, and extensive responses to public comments. This process resulted in a HABS/HAER mitigation project. (November 2011 - June 2012)
- **Foothill Toll Road Cultural and Paleontological Monitoring, Ghiradelli and Associates, Orange County, CA.** Principal and Project Manager for cultural monitoring related to the upgrade of all tollroad payment stations in Orange County. (October 2013 – October 2013)
- **9th Street Extension Historic Structure Inventory and Evaluation, City of Holtville, Imperial County, CA.** Principal and Project Manager. Dr. Bischoff managed and provided QA/QC for this project involving a Caltrans inventory of project APE historic built environment resources, and the historic evaluation of a canal feature. Final deliverables included a Historic Resources Evaluation Report and a Historic Property Survey Report to CALTRANS standards. (June 2013 – August 2013)
- **Francisquito Bridges Replacement (3-Total), LADWP/CALTRANS, Los Angeles County, CA.** Principal. Dr. Bischoff managed and oversaw the completion of this project in the Angeles Forest. This project involved the replacement of three existing bridges on San Francisquito Canyon Road over San Francisquito Canyon Creek. The proposed improvement project involved widening the two lane bridges, improvement of approachment roadway, and the placement and installation of retaining walls, concrete barriers with tubular-steel handrails, and metal beam guardrails. (2011 – September 2013)
- **Murrieta Whitewood Road Extension, City of Murrieta, Riverside County, CA.** Principal and Project Manager. This road extension project involved a cultural resource survey and records search, a paleontological field study, and native american Consultation due to the historic use of the nearby Murrieta Hot Springs by local Native Americans. (April – June 2012)
- **Nuevo Road/ I-215 Interchange Improvement in the City of Perris, CALTRANS, Riverside County, CA.** Principal. Dr. Bischoff managed and provided QA/QC for this project involving street widening and additional improvements at the Nuevo Road/ I-215 interchange. Final deliverables included a record search and a survey report to CALTRANS standards. (2011 – 2012)
- **Soledad Canyon Road Bridge Replacement Project, LACDPW, Los Angeles County, CA.** Principal. LADPW intends to replace a bridge on Soledad Canyon Road. Chambers Group completed a record search and NAHC records review for potential archaeological resources. This project is on-going and may in the future involve further work, including cultural and historic structure surveys and evaluation. (2011 – 2012)

- **Grove Lumber Facility Cultural and Paleontological Technical Studies, Thatcher Engineering, City of Perris, Riverside County, CA.** Principal for the cultural technical studies for this development project, including cultural and paleontological record searches, NAHC letters, and a cultural study (October 2013 – October 2013)
- **Newport Beach Yacht Club Evaluation, Community Development Department, City of Newport Beach, Orange County, CA.** Principal for this historic architecture project involving the built environment evaluation of the Newport Beach Yacht House. (October 2013 – October 2013)
- **Blossom Plaza Historic Structure Evaluation, China Town, City of Los Angeles, CA.** Principal for this historic architecture project involving the updating of technical reports and a standing structure evaluation. (July 2013 – September 2013)
- **Moreno Valley Residential Building Evaluation, City of Moreno Valley, Riverside, CA.** Principal for the architectural assessment of the J. Langdon Ranch located at 11761 Davis Street, in the city of Moreno Valley, Riverside County, California. (April 2013)
- **Indian Wells Tennis Court Development Project, Indian Wells, Riverside County, CA.** Principal Provided technical review of the planning documents cultural section, as well as oversaw Native American Heritage Commission communication for this project to enhance the Indian Wells Tennis Garden complex. (December 2012 – April 2013)
- **Scripps Hospital Paleontological and Archaeological Monitoring, Worley-Parsons, City of Encinitas, CA.** Principal Investigator. Dr. Bischoff managed QA/QC review, budgets, and professional standards for the cultural and paleontological monitoring of this large development project. (2011 - 2013)
- **Tehachapi Renewable Transmission Project (TRTP), Southern California Edison, Kern, Los Angeles, and San Bernardino Counties, CA.** Principal and Project Manager. Dr. Bischoff was responsible for all office and field operations that ensured the successful inventory and management of cultural resources related to this 300-mile transmission line project, including the management of standing historical structures and paleontological resources. He managed an annual budget in excess of \$4 million, a staff of up to 40 persons, wrote compliance documents (Programmatic Agreement Appendices, ARPA permits, Project Agency Yearly Reports, and Management Plans), and managed hazmat situations. Dr. Bischoff completed over 150 individual projects in southern California including survey, evaluation, mitigation, and resource monitoring. He wrote individual budgets for project-specific tasks, as well as construction-related administrative tasks, each with different scopes of work and budget amounts. He reconciled all budgets on a monthly basis and coordinated them with the master construction schedule. Dr. Bischoff managed field compliance with NEPA, with TRTP-specific environmental agency agreements, and with the cultural section of the project EIR/EIS and Programmatic Agreement. He also met legal and agency guidelines for Section 106 of NHPA, CEQA, NAGPRA, and TRTP Cultural Resource Management Plan. The Angeles National Forest was the lead Federal Agency, but the CPUC and other Federal and California State Agencies were also involved. (November 2009 - June 2011)

- **East Kern Wind Resource Area (EKWRA) Power Pole Replacement Project, Southern California Edison, Kern County, CA.** Principal and Project Manager. Dr. Bischoff managed original technical studies for a project designed to replace hundreds of power poles in the Tehachapi Mountains area in support of new wind farm construction. He conducted large area surveys, some on BLM properties, and developed a management plan for dozens of archaeological sites. Bureau of Land Management was the principal Federal agency. (February 2010 - June 2011)
- **San Jose Salt Barge HAER Documentation Project, USACE and Santa Clara Valley Water District, City of San Jose, CA.** Principal. Dr. Bischoff consulted on the excavation and evaluation of a shallow-water shipwreck discovered during a wetlands rehabilitation project. This project involved USACE, San Francisco District as lead agency and the Water District as client. (January – February 2011)
- **Operations and Maintenance Contract, Southern California Edison. Southern California.** I acted as the Principal for all work orders issued to our office under the O/M contract. A major task under this contract was the response to the Crown Fire in 2010. I worked directly with SCE during and immediately after the fire to evaluate and protect cultural resources. (Jan 2010 - June 2011)
- **Crown Fire Survey and Cultural Site Update, Southern California Edison, Los Angeles County, CA.** Project Manager. Dr. Bischoff led the cultural response to the Crown Fire, which included surveying and updating known cultural sites as part of the SCE post-fire power pole and access road inspection. (August – Sept. 2010)

**MICHAEL BAKER PEER REVIEW ANALYSIS OF CULTURAL
RESOURCES PHASE I ASSESSMENT**

January 30, 2020

Mike Marshall, Associate Planner
CITY OF SANTA CLARITA
23920 Valencia Blvd., Suite 302
Santa Clarita, CA 91355

RE: PEER REVIEW OF "CULTURAL RESOURCES PHASE I ASSESSMENT FOR SIERRA WEST ASSISTED LIVING AND MEMORY CARE PROJECT"

Dear Mr. Marshall:

Michael Baker International has reviewed Envicom Corporation's *Cultural Resources Phase I Assessment for the Sierra West Assisted Living and Memory Care Project* report dated January 15, 2020. The intent of the peer review is to determine if the report is compliant with the California Environmental Quality Act (CEQA) and if all cultural resources identification efforts have been completed and all information required to complete the impacts analysis as part of the Initial Study/Mitigated Negative Declaration (IS/MND) has been provided.

ENVICOM'S SUMMARY OF FINDINGS

The report summarizes the methods and results of a South Central Coastal Information Center (SCCIC) records search, Native American Heritage Commission (NAHC) Sacred Lands File search, historical map and aerial photograph review, and field survey, as well as a Natural History Museum of Los Angeles County (NHMLAC) paleontological resources record search. Below is a summary of findings.

- The SCCIC records search identified no previously recorded cultural resources within the project site or quarter-mile search radius. Two previous cultural resources studies were identified within a portion of the project site; neither study identified resource concerns within the project site.
- The NAHC Sacred Lands File search provided negative results; no sacred lands are known within the project site. Envicom provided the NAHC search results and recommended its use during Assembly Bill 52 consultation, to be completed by the lead agency.
- Envicom reviewed historical maps dating between 1903 and 1973 and identified the site as having been previously developed with various residential buildings from between circa 1920 to circa 1980. Envicom also identified the adjacent cemetery founded in 1958 within a historical ranch property. The cemetery includes a pioneer cemetery with graves dating to as early as 1888.

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- The archaeological field survey of the project site did not identify prehistoric or historic-period features. Further, Envicom notes that the project site included modern grading and berm creation.
- Envicom's paleontological records search identified the project site as near rock formations considered sensitive for paleontological resources based on the results of the NHMLAC search.

Envicom identified potential sensitivity for historic-period archaeological resources through map research based on the presence of buildings beginning circa 1920. Envicom recommended archaeological and paleontological monitoring and discovery protocol, and compliance with California Health and Safety Code Section 7050.5.

MICHAEL BAKER INTERNATIONAL COMMENTS

The Envicom study completed typical cultural resources identification efforts. Due to Envicom's identification of historic-period sensitivity of the project site and a nearby historic-period cemetery, as well as paleontological sensitivity, Michael Baker International reviewed additional sources to identify the level of sensitivity for each resource type. This was completed to determine the extent of archaeological and paleontological monitoring required, to help support the impacts analysis and mitigation measure development as part of the IS/MND. Sources reviewed included maps predating 1903, local historical society records, local citywide cultural resources report, and the geotechnical report completed for the project:

- "County-Road Connecting the Fort Tejon and Los Angeles Road with Government Lands East of Lyon's Station" (Seebold 1875)
- Township 3 North, Range 16 West Plat Map (BLM 1876)
- Santa Clarita Valley Historical Society Online Archives
- *City of Santa Clarita Historic Preservation Survey & Planning Analysis* (HRG 2009)
- Area topographic quadrangles (USGS 1929, 1933, 1952)
- "Geologic and Soils Engineering Feasibility Report, Proposed Assisted Living and Memory Care Facility, Sierra Highway, APN 2827-005-042 & -043, City of Santa Clarita, California" (Southwest Geotechnical, Inc. 2019)

HISTORICAL LITERATURE AND MAP REVIEW RESULTS

Sources reviewed indicate that the project site has a high likelihood to be the historical location of Lyon's Station. Lyon's Station, originally known as Wiley Station in 1852 and renamed in 1855, was a stagecoach stop along the Los Angeles and Fort Tejon Road. In 1868, it was noted as including a large frame building which housed a store, post office, telegraphic office, tavern, and stage depot. Behind the depot was the family cottage and board-and-batten residences for Lyon's twenty employees and their families. A cemetery had also been established by that point. By 1876, the station included the California Star Oil Company oil refinery. The stage depot is depicted on an 1876 plat map and, interestingly, is noted to have gone out of business the same

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year after the newly constructed Southern Pacific Railroad bypassed the station in lieu of a different station location. After it went out of business, the oil refinery structures were relocated to another area station serviced by the railroad; the fate of the additional on-site buildings is unclear. (SCVHS 2020a, 2020b, 2020c, 2020d; HRG 2009: Appendix E)

Lyon's Station is memorialized as California Historical Landmark No. 688, which is mounted at the Eternal Valley Cemetery (adjacent to the project site), and the stagecoach stop is noted in the city's *Historic Preservation Survey & Planning Analysis* as having potential historic significance and requiring additional survey and evaluation efforts (HRG 2009: Appendix D).

In the sources reviewed, the stagecoach stop's exact location has been noted as elusive. However, map research and topographic analysis suggests it was likely located at the project site. The below historical maps depict the station location georeferenced with the project site.

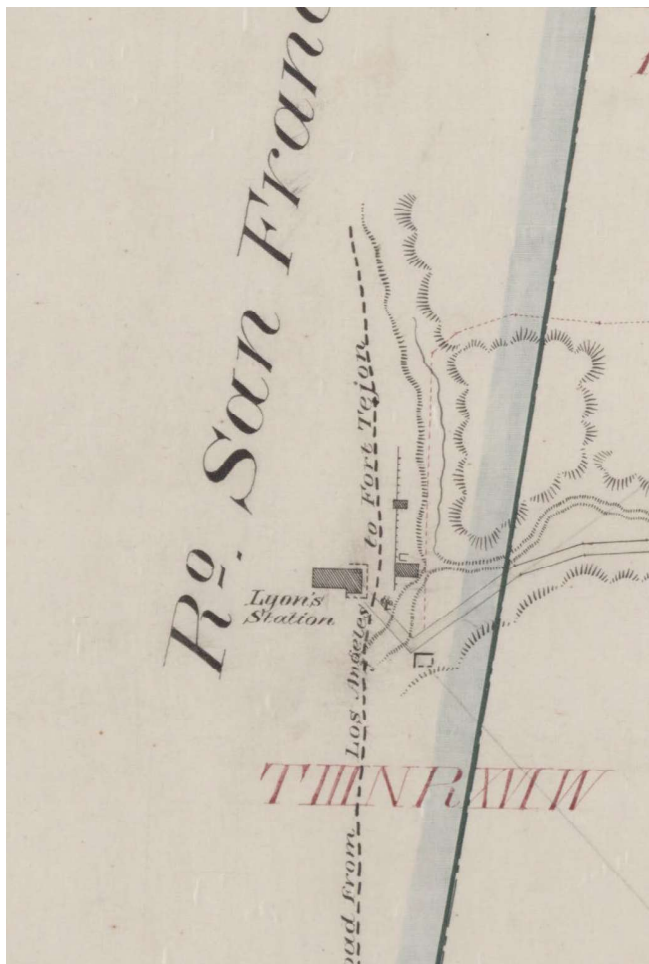


Figure 1. 1875 map depicting Lyon's Station (Seebold 1875)



Figure 2. Overlay of the project area, 1875 map of Lyon's Station, and current aerial imagery. Note that the road and creek alignments are nearly the same.

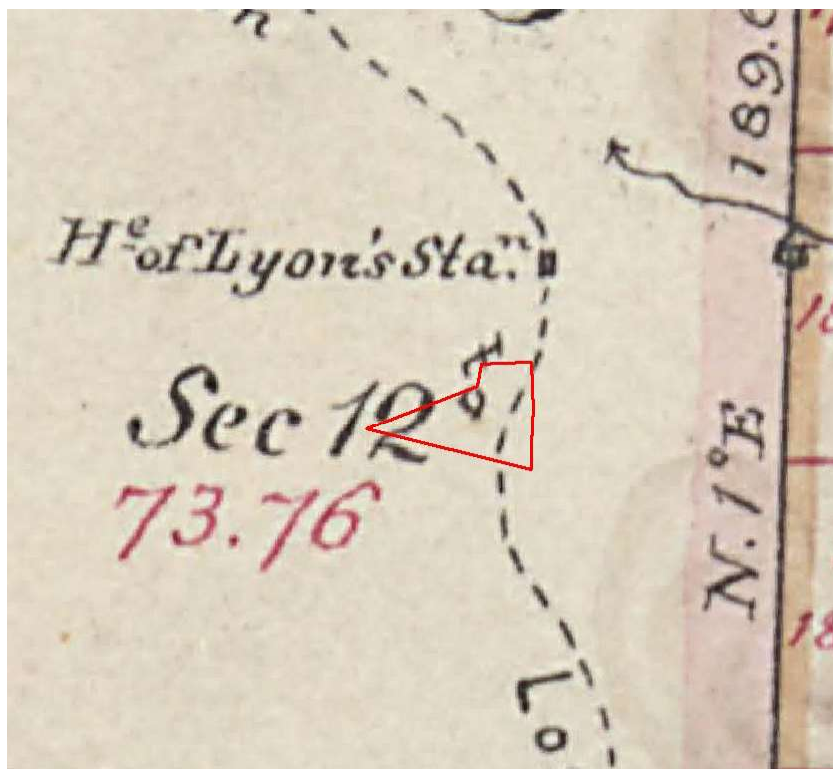


Figure 3. 1876 plat map depicting Lyon's Station with the project area georeferenced. The project area is identified as less the 100 feet away from Lyon's Station; however, the map is hand-drawn without 100 percent accuracy. One hundred feet is within the margin of error for hand-drawn survey maps. (BLM 1876)

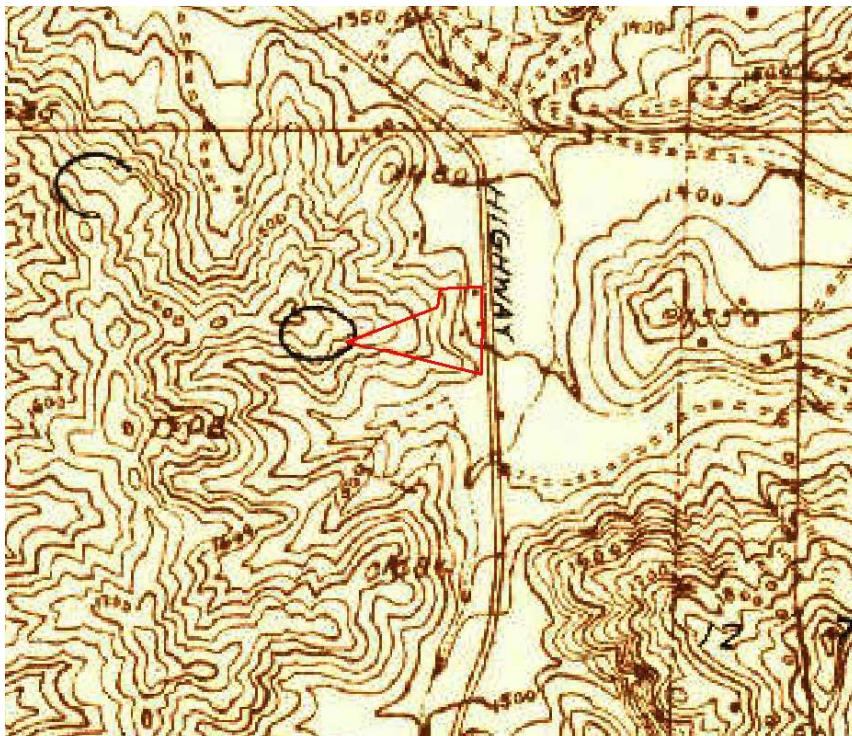


Figure 4. 1929 *Newhall, Calif.*, Topographic quadrangle depicting buildings in the same orientation as in the 1875 map above. (USGS 1929)

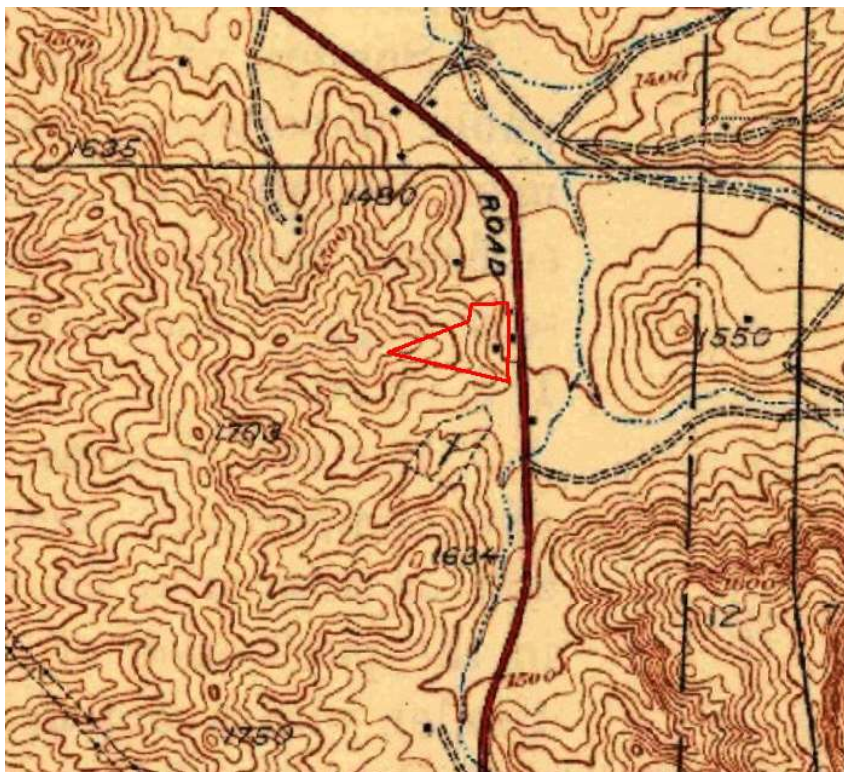


Figure 5. 1933 *Newhall, Calif.*, topographic map depicting buildings in the same orientation as in the 1875 map above.

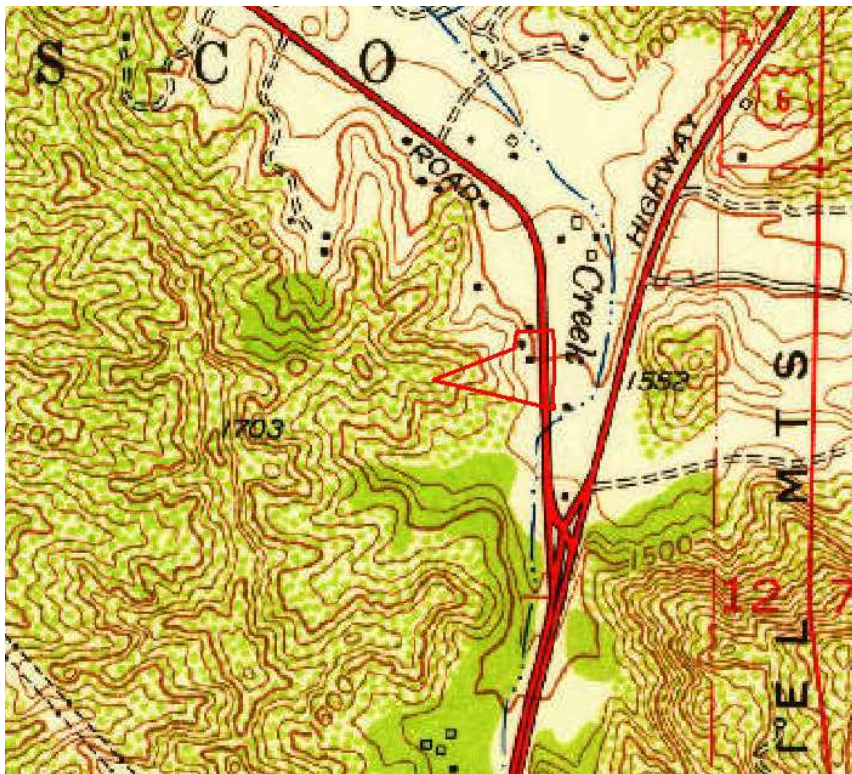


Figure 6. 1952 Oat Mountain, Calif., topographic quadrangle depicting the project area and a new building orientation. It is unknown if these are buildings associated with Lyon's Station or are new buildings.

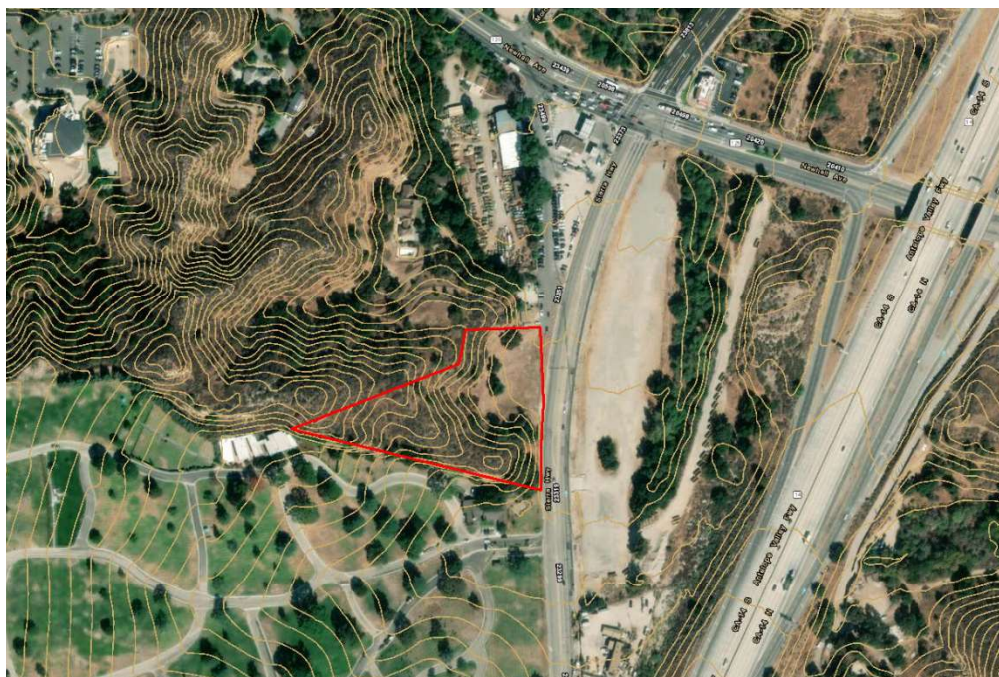


Figure 7. Current aerial view of the project site depicting contour lines. Note the contours are consistent with the topographic maps above.

Based on the additional literature and historical map review, the site is highly likely the location of Lyon's Station, which operated between 1852 and 1876. The buildings associated with the station were demolished or relocated at an unknown date between 1933 and 1952, as suggested by the above topographic maps.

There is extensive literature regarding Lyon's Station documented by the Santa Clarita Historical Society; HRG (2009) identified the site as having potential significance and requiring additional research and survey; and Lyon's Station is California Historical Landmark No. 688.

There are no built environment resources associated with Lyon's Station; however, any archaeological deposits associated with Lyon's Station would be considered historical resources as defined by CEQA Section 15064.5(a) because they are associated with a California Historical Landmark No. 688. The project has the potential to impact a historical resource.

Additionally, Michael Baker International reviewed the historical location of the pioneer cemetery associated with Lyon's Station to assess the potential for burials within the project site. Depiction of the cemetery is not provided on area maps prior to 1929 (see **Figure 4** above); however, the cemetery appears to be located in its historic location now within the Eternal Valley Cemetery. It is located approximately 500 feet southwest of the project site, a sufficient distance so that historic-period burials entombed outside of the cemetery boundaries and within the project site are not a concern.

Lastly, the historical map and literature review did not identify historic-period Native American habitation within the project site, though the project site is known to have alluvial soils which have sensitivity for prehistoric archaeological resources. Furthermore, Newhall Creek, a natural water course, is within close proximity to the project site. However, Envicom's field survey did not identify surface archaeological deposits. There is moderate sensitivity for buried prehistoric-archaeological resources.

GEOTECHNICAL AND PALEONTOLOGICAL RESOURCES REVIEW

An additional review of the NHMLAC search findings by Michael Baker International indicated no resources identified within the project site. The east side of the project site includes younger Quaternary alluvium that typically does not contain significant vertebrate fossils. The NHMLAC indicates that alluvium has low sensitivity for paleontological resources. A majority of the proposed excavation will be within alluvial soils.

The project site is also underlain by the Saugus Formation, which includes Pliocene to Pleistocene-era deposits. The NHMLAC provides brief overviews of five known fossil localities within the formation, but does not provide the distance to the project site or the depth of excavation at which the fossils were discovered. The NHMLAC recommends monitoring during excavation into the Saugus Formation because of the likelihood of paleontological resource discovery in the formation. Some project-related excavation may occur within the Saugus Formation.

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Michael Baker International reviewed the geotechnical study (Southwest Geotechnical, Inc. 2019) to identify the depths at which alluvium and Saugus Formation occur. Alluvium occurs within the crescent-shaped area of the project site at depths between 2-29 feet. It is underlain by the Saugus Formation in this area at depths between 12 and 35 feet. The Saugus Formation becomes more prominent along the hillside where it is located at depths of 16 inches.

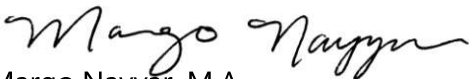
MICHAEL BAKER INTERNATIONAL SUMMARY OF FINDINGS

Michael Baker International conducted additional research to supplement the Envicom study to support the IS/MND impacts analysis. Findings are summarized below.

- There is high potential for buried historic-period archaeological resources associated with Lyon's Station, California Historical Landmark No. 688, because the resource was likely located within the project site.
- There is low likelihood of encountering historic-period burials associated with the pioneer cemetery because the cemetery was originally located approximately 500 feet southwest of the project site—a sufficient distance so as not to warrant concern regarding burials entombed outside of the cemetery's known boundaries.
- The historical map and literature review did not identify historic-period Native American habitation within the project site, though the project site is known to have alluvial soils which has sensitivity for subsurface prehistoric archaeological resources. Sensitivity for prehistoric archaeological deposits is considered moderate.
- There is low likelihood for encountering paleontological resources within the areas planned for excavation within alluvial soils; however, there is high potential for encountering resources within the Saugus Formation.

Based on the above findings, the IS/MND will require mitigation measures to avoid impacts to a historical resources, archaeological resources, and paleontological resources.

Sincerely,



Margo Nayyar, M.A.

Senior Cultural Resources Manager

Attachment 1 – "Cultural Resources Phase I Assessment for Sierra West Assisted Living and Memory Care Project" (Envicom 2020)

PREPARER'S QUALIFICATIONS

Michael Baker Cultural Resources Manager Margo Nayyar is a senior architectural historian with ten years of cultural management experience in California. Her experience includes built environment surveys, evaluation of historic-era resources using guidelines outlined in the National and California Registers, and preparation of cultural resources technical studies pursuant to CEQA and Section 106 of the National Historic Preservation Act, including identification studies, finding of effect documents, memorandum of agreements, programmatic agreements, and Historic American Buildings Survey, Historic American Engineering Record, and Historic American Landscapes Survey mitigation documentation. She prepares cultural resources environmental document sections for CEQA environmental documents including infill checklists, initial studies, and environmental impact reports, as well as National Environmental Policy Act environmental documents, such as environmental impact statements and environmental assessments. She also specializes in municipal preservation planning, historic preservation ordinance updates, Native American consultation, and provision of Certified Local Government training to interested local governments. She develops Survey 123 and Esri Collector applications for large-scale historic resources surveys. Ms. Nayyar has a master of arts degree in public history from California State University, Sacramento, and a bachelor of arts degree in history from University of California, Santa Cruz. She meets the Secretary of the Interior's Professional Qualification Standards for history and architectural history, and manages a team of architectural historians and archaeologists.

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- USGS (United States Geological Survey). 1929. *Newhall, Calif.* 7.5 minute topographic quadrangle.
- _____. 1933. *Newhall, Calif.* 7.5 minute topographic quadrangle.
- _____. 1952. *Oat Mountain, Calif.* 7.5 minute topographic quadrangle.

Attachment 1

"Cultural Resources Phase I Assessment for Sierra West Assisted Living and Memory Care Project" (Envicom 2020)

AMENDED MITIGATION MEASURES

CULTURAL RESOURCES MITIGATION MEASURES – MAY 6, 2020

CUL MM-1 ARCHAEOLOGICAL MONITORING PLAN

The project site has a high likelihood of being the historic location of Lyon's Station, California Historical Landmark No. 688. There are no built environment resources associated with Lyon's Station; however, any archaeological deposits associated with Lyon's Station would be considered historical resources as defined by CEQA Section 15064.5(a) because they would be associated with a California Historical Landmark. Furthermore, the project site is known to have alluvial soils and is within close proximity to Newhall Creek, a natural watercourse, and therefore, the site has moderate sensitivity for buried prehistoric archaeological resources. To lessen impacts to historical and/or archaeological resources, the applicant shall retain a Senior Qualified Archaeologist (M.A. level or higher) to develop an Archaeological Monitoring Plan for the project site. The monitoring plan shall include the archaeological context, rationale for monitoring, monitoring procedures, and what to do with resource/remains discoveries. The monitoring program shall require that the Senior Qualified Archaeologist hold a preconstruction meeting with the grading contractor. The Senior Qualified Archaeologist shall also provide technical and compliance oversight of all work as it relates to archaeological resources, including an assessment of any monitoring discovery situations.

The program will also require that a Secretary of the Interior Professionally Qualified and/or Register of Professional Archaeologists listed archaeological monitor be present during ground disturbing activities within surface or alluvial soils or until the Saugus formation is identified (0-29 feet below surface). The archaeological monitor shall have the authority to temporarily halt or redirect grading and other ground-disturbing activities in the event cultural resources are encountered. If potentially significant cultural material is encountered, the archaeologist shall make recommendations regarding the treatment of the discovery. Impacts to significant archaeological deposits shall be avoided if feasible, but if such impacts cannot be avoided, the deposits shall be evaluated for eligibility to the California Register. If the deposit is not California Register eligible, no further protection of the find is necessary. If the deposits are California Register eligible, impacts shall be mitigated. Acceptable mitigation may consist of but is not necessarily limited to systematic recovery and analysis of archaeological deposits, recording the resource, preparation of a report of findings, and accessioning recovered archaeological materials at an appropriate curation facility. The Senior Qualified Archaeologist shall prepare a final monitoring and mitigation report for submittal to the City that documents the results of the monitoring effort and any discoveries.

CUL MM-2 INADVERTENT DISCOVERY OF HUMAN REMAINS

The historical location of the pioneer cemetery associated with Lyon's Station appears to be located in its historic location now within the Eternal Valley Cemetery located approximately 500 feet southwest of the project site, a sufficient distance so that historic-period burials entombed outside of the cemetery boundaries and within the project site are not a concern. However, according to the California Health and Safety Code Section 7050.5, should human remains be identified during earth moving activities, there shall be no further excavation or disturbance of a site or any nearby area reasonably suspected to overlie adjacent remains until the Los Angeles County coroner has determined the manner and cause of any death, and the recommendations concerning the treatment and disposition of the human remains have been made to the person responsible for the excavation or to his or her authorized representative. Project personnel/construction workers shall not collect or move any human remains and associated materials. If the human remains are of Native American origin, the coroner must notify

the Native American Heritage Commission (NAHC) within 24 hours of this identification. The NAHC will immediately identify a Native American most likely descendant to inspect the site and provide recommendations within 48 hours for the proper treatment of the remains and associated grave goods. Implementing California Health and Safety Code Section 7050.5 would result in less than significant impact to human remains.

PAL MM-1 PALEONTOLOGICAL MONITORING PLAN

No known paleontological resources are located within the project site, however, there is paleontological sensitivity within the Saugus Formation known to underlie the project site at various depths between 16 inches and 35 feet. The Saugus Formation becomes more prominent along the hillside where it is located at depths of 16 inches. Non-sensitive alluvium occurs within the crescent-shaped area of the project site at depths between 2-29 feet; it is underlain by the Saugus Formation in this area at depths between 12 and 35 feet. Some project-related excavation may occur within the Saugus Formation.

To lessen impacts to potential paleontological resources, the applicant shall retain a Senior Qualified Paleontologist (M.A. level or higher) meeting the Society of Vertebrate Paleontology Standards to develop a Paleontological Monitoring Plan for the project site in areas where the Saugus Formation is exposed or are likely to be exposed during project construction. The Senior Paleontologist shall conduct construction worker paleontological resources sensitivity training at the Project kick-off meeting, prior to ground disturbing activities. The Senior Qualified Paleontologist shall also provide technical and compliance oversight of all work as it relates to paleontological resources, including an assessment of any monitoring discovery situations.

When excavation takes place within the Saugus Formation, a qualified paleontological monitor will also be present. A qualified paleontological monitor will have at least a paleontological field school, and shall have a bachelor's degree in either paleontology, geology, or a related field with demonstrable direct paleontological experience suitable to being a paleontological monitor. The paleontological monitor shall be authorized to stop work where potential paleontological resources are discovered, to provide the opportunity to examine, recover and characterize such materials. Any significant paleontological resources collected during project-related excavations shall be curated into an accredited repository. The Senior Qualified Paleontologist shall prepare a final monitoring and mitigation report for submittal to the City that documents the results of the monitoring effort and any discoveries.