

APPENDIX C-1

Biological Resources Search Results



Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad (Santa Paula) OR Moorpark (3411838) OR Simi (3411837) OR Camarillo (3411921) OR Newbury Park (3411828) OR Thousand Oaks (3411827) OR Point Mugu (3411911) OR Point Dume (3411817) OR Triunfo Pass (3411818)

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Accipiter cooperii</i> Cooper's hawk	ABNKC12040	None	None	G5	S4	WL
<i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020	None	Threatened	G2G3	S1S2	SSC
<i>Aimophila ruficeps canescens</i> southern California rufous-crowned sparrow	ABPBX91091	None	None	G5T3	S3	WL
<i>Anniella spp.</i> California legless lizard	ARACC01070	None	None	G3G4	S3S4	SSC
<i>Anniella stebbinsi</i> southern California legless lizard	ARACC01060	None	None	G3	S3	SSC
<i>Antrozous pallidus</i> pallid bat	AMACC10010	None	None	G5	S3	SSC
<i>Aquila chrysaetos</i> golden eagle	ABNKC22010	None	None	G5	S3	FP
<i>Arizona elegans occidentalis</i> California glossy snake	ARADB01017	None	None	G5T2	S2	SSC
<i>Artemisospiza belli belli</i> Bell's sage sparrow	ABPBX97021	None	None	G5T2T3	S3	WL
<i>Aspidoscelis tigris stejnegeri</i> coastal whiptail	ARACJ02143	None	None	G5T5	S3	SSC
<i>Astragalus brauntonii</i> Braunton's milk-vetch	PDFAB0F1G0	Endangered	None	G2	S2	1B.1
<i>Athene cunicularia</i> burrowing owl	ABNSB10010	None	None	G4	S3	SSC
<i>Atriplex coulteri</i> Coulter's saltbush	PDCHE040E0	None	None	G3	S1S2	1B.2
<i>Baccharis malibuensis</i> Malibu baccharis	PDAST0W0W0	None	None	G1	S1	1B.1
<i>Bombus crotchii</i> Crotch bumble bee	IIHYM24480	None	Candidate Endangered	G3G4	S1S2	
<i>Buteo regalis</i> ferruginous hawk	ABNKC19120	None	None	G4	S3S4	WL
<i>California Walnut Woodland</i> California Walnut Woodland	CTT71210CA	None	None	G2	S2.1	
<i>Calochortus clavatus var. gracilis</i> slender mariposa-lily	PMLIL0D096	None	None	G4T2T3	S2S3	1B.2



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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Calochortus plummerae</i> Plummer's mariposa-lily	PMLIL0D150	None	None	G4	S4	4.2
<i>Catostomus santaanae</i> Santa Ana sucker	AFCJC02190	Threatened	None	G1	S1	
<i>Centromadia parryi ssp. australis</i> southern tarplant	PDAST4R0P4	None	None	G3T2	S2	1B.1
<i>Chaenactis glabriuscula var. orcuttiana</i> Orcutt's pincushion	PDAST20095	None	None	G5T1T2	S1	1B.1
<i>Charadrius alexandrinus nivosus</i> western snowy plover	ABNNB03031	Threatened	None	G3T3	S2S3	SSC
<i>Chloropyron maritimum ssp. maritimum</i> salt marsh bird's-beak	PDSCR0J0C2	Endangered	Endangered	G4?T1	S1	1B.2
<i>Chorizanthe parryi var. parryi</i> Parry's spineflower	PDPGN040J2	None	None	G3T2	S2	1B.1
<i>Cicindela hirticollis gravida</i> sandy beach tiger beetle	IICOL02101	None	None	G5T2	S2	
<i>Cicindela senilis frosti</i> senile tiger beetle	IICOL02121	None	None	G2G3T1T3	S1	
<i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
<i>Coelus globosus</i> globose dune beetle	IICOL4A010	None	None	G1G2	S1S2	
<i>Danaus plexippus pop. 1</i> monarch - California overwintering population	IILEPP2012	None	None	G4T2T3	S2S3	
<i>Deinandra minthornii</i> Santa Susana tarplant	PDAST4R0J0	None	Rare	G2	S2	1B.2
<i>Delphinium parryi ssp. blochmaniae</i> dune larkspur	PDRAN0B1B1	None	None	G4T2	S2	1B.2
<i>Diadophis punctatus modestus</i> San Bernardino ringneck snake	ARADB10015	None	None	G5T2T3	S2?	
<i>Dudleya blochmaniae ssp. blochmaniae</i> Blochman's dudleya	PDCRA04051	None	None	G3T2	S2	1B.1
<i>Dudleya cymosa ssp. agourensis</i> Agoura Hills dudleya	PDCRA040A7	Threatened	None	G5T1	S1	1B.2
<i>Dudleya cymosa ssp. marcescens</i> marcescent dudleya	PDCRA040A3	Threatened	Rare	G5T2	S2	1B.2
<i>Dudleya cymosa ssp. ovatifolia</i> Santa Monica dudleya	PDCRA040A5	Threatened	None	G5T1	S1	1B.1
<i>Dudleya parva</i> Conejo dudleya	PDCRA04016	Threatened	None	G1	S1	1B.2
<i>Dudleya verityi</i> Verity's dudleya	PDCRA040U0	Threatened	None	G1	S1	1B.1



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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Elanus leucurus</i> white-tailed kite	ABNKC06010	None	None	G5	S3S4	FP
<i>Empidonax traillii extimus</i> southwestern willow flycatcher	ABPAE33043	Endangered	Endangered	G5T2	S1	
<i>Emys marmorata</i> western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
<i>Eremophila alpestris actia</i> California horned lark	ABPAT02011	None	None	G5T4Q	S4	WL
<i>Eriogonum crocatum</i> conejo buckwheat	PDPGN081G0	None	Rare	G1	S1	1B.2
<i>Eucyclogobius newberryi</i> tidewater goby	AFCQN04010	Endangered	None	G3	S3	SSC
<i>Eumops perotis californicus</i> western mastiff bat	AMACD02011	None	None	G5T4	S3S4	SSC
<i>Euphydryas editha quino</i> quino checkerspot butterfly	IILEPK405L	Endangered	None	G5T1T2	S1S2	
<i>Gasterosteus aculeatus williamsoni</i> unarmored threespine stickleback	AFCPA03011	Endangered	Endangered	G5T1	S1	FP
<i>Gila orcuttii</i> arroyo chub	AFCJB13120	None	None	G2	S2	SSC
<i>Helminthoglypta traskii traskii</i> Trask shoulderband	IMGASC2473	None	None	G1G2T1	S1	
<i>Horkelia cuneata var. puberula</i> mesa horkelia	PDROS0W045	None	None	G4T1	S1	1B.1
<i>Lasiurus blossevillii</i> western red bat	AMACC05060	None	None	G5	S3	SSC
<i>Lasiurus cinereus</i> hoary bat	AMACC05030	None	None	G5	S4	
<i>Lasthenia glabrata ssp. coulteri</i> Coulter's goldfields	PDAST5L0A1	None	None	G4T2	S2	1B.1
<i>Lupinus paynei</i> Payne's bush lupine	PDFAB2B580	None	None	G1Q	S1	1B.1
<i>Microtus californicus stephensi</i> south coast marsh vole	AMAFF11035	None	None	G5T1T2	S1S2	SSC
<i>Monardella hypoleuca ssp. hypoleuca</i> white-veined monardella	PDLAM180A5	None	None	G4T3	S3	1B.3
<i>Monardella sinuata ssp. gerryi</i> Gerry's curly-leaved monardella	PDLAM18163	None	None	G3T1	S1	1B.1
<i>Myotis ciliolabrum</i> western small-footed myotis	AMACC01140	None	None	G5	S3	
<i>Myotis yumanensis</i> Yuma myotis	AMACC01020	None	None	G5	S4	



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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Navarretia ojaiensis</i> Ojai navarretia	PDPLM0C130	None	None	G2	S2	1B.1
<i>Neotoma lepida intermedia</i> San Diego desert woodrat	AMAFF08041	None	None	G5T3T4	S3S4	SSC
<i>Nolina cismontana</i> chaparral nolina	PMAGA080E0	None	None	G3	S3	1B.2
<i>Oncorhynchus mykiss irideus pop. 10</i> steelhead - southern California DPS	AFCHA0209J	Endangered	None	G5T1Q	S1	
<i>Orcuttia californica</i> California Orcutt grass	PMPOA4G010	Endangered	Endangered	G1	S1	1B.1
<i>Panoquina errans</i> wandering (=saltmarsh) skipper	IILEP84030	None	None	G4G5	S2	
<i>Passerculus sandwichensis beldingi</i> Belding's savannah sparrow	ABPBX99015	None	Endangered	G5T3	S3	
<i>Pelecanus occidentalis californicus</i> California brown pelican	ABNFC01021	Delisted	Delisted	G4T3T4	S3	FP
<i>Pentachaeta lyonii</i> Lyon's pentachaeta	PDAST6X060	Endangered	Endangered	G1	S1	1B.1
<i>Phrynosoma blainvillii</i> coast horned lizard	ARACF12100	None	None	G3G4	S3S4	SSC
<i>Polioptila californica californica</i> coastal California gnatcatcher	ABPBJ08081	Threatened	None	G4G5T2Q	S2	SSC
<i>Pseudognaphalium leucocephalum</i> white rabbit-tobacco	PDAST440C0	None	None	G4	S2	2B.2
<i>Quercus dumosa</i> Nuttall's scrub oak	PDFAG050D0	None	None	G3	S3	1B.1
<i>Rallus obsoletus levipes</i> light-footed Ridgway's rail	ABNME05014	Endangered	Endangered	G5T1T2	S1	FP
<i>Riparia riparia</i> bank swallow	ABPAU08010	None	Threatened	G5	S2	
<i>Senecio aphanactis</i> chaparral ragwort	PDAST8H060	None	None	G3	S2	2B.2
<i>Setophaga petechia</i> yellow warbler	ABPBX03010	None	None	G5	S3S4	SSC
<i>Sorex ornatus salicornicus</i> southern California saltmarsh shrew	AMABA01104	None	None	G5T1?	S1	SSC
<i>Southern Coast Live Oak Riparian Forest</i> Southern Coast Live Oak Riparian Forest	CTT61310CA	None	None	G4	S4	
<i>Southern Coastal Salt Marsh</i> Southern Coastal Salt Marsh	CTT52120CA	None	None	G2	S2.1	
<i>Southern Riparian Forest</i> Southern Riparian Forest	CTT61300CA	None	None	G4	S4	



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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Southern Riparian Scrub Southern Riparian Scrub	CTT63300CA	None	None	G3	S3.2	
Southern Sycamore Alder Riparian Woodland Southern Sycamore Alder Riparian Woodland	CTT62400CA	None	None	G4	S4	
Southern Willow Scrub Southern Willow Scrub	CTT63320CA	None	None	G3	S2.1	
Spea hammondi western spadefoot	AAABF02020	None	None	G3	S3	SSC
Sternula antillarum browni California least tern	ABNNM08103	Endangered	Endangered	G4T2T3Q	S2	FP
Streptocephalus woottoni Riverside fairy shrimp	ICBRA07010	Endangered	None	G1G2	S1S2	
Suaeda esteroa estuary seablite	PDCHE0P0D0	None	None	G3	S2	1B.2
Taxidea taxus American badger	AMAJF04010	None	None	G5	S3	SSC
Texosporium sancti-jacobi woven-spored lichen	NLTEST7980	None	None	G3	S2	3
Thamnophis hammondi two-striped gartersnake	ARADB36160	None	None	G4	S3S4	SSC
Thamnophis sirtalis pop. 1 south coast gartersnake	ARADB3613F	None	None	G5T1T2	S1S2	SSC
Thelypteris puberula var. sonorensis Sonoran maiden fern	PPTHE05192	None	None	G5T3	S2	2B.2
Tortula californica California screw moss	NBMUS7L090	None	None	G2G3	S2?	1B.2
Trimerotropis occidentiloides Santa Monica grasshopper	IORT36300	None	None	G1G2	S1S2	
Tryonia imitator mimic tryonia (=California brackishwater snail)	IMGASJ7040	None	None	G2	S2	
Valley Needlegrass Grassland Valley Needlegrass Grassland	CTT42110CA	None	None	G3	S3.1	
Valley Oak Woodland Valley Oak Woodland	CTT71130CA	None	None	G3	S2.1	
Vireo bellii pusillus least Bell's vireo	ABPBW01114	Endangered	Endangered	G5T2	S2	

Record Count: 99

*The database used to provide updates to the Online Inventory is under construction. [View updates and changes made since May 2019 here.](#)

Plant List

51 matches found. [Click on scientific name for details](#)

Search Criteria

Found in Quads 3411931, 3411838, 3411837, 3411921, 3411828, 3411827, 3411911 3411818 and 3411817;

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Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
Abronia maritima	red sand-verbena	Nyctaginaceae	perennial herb	Feb-Nov	4.2	S3?	G4
Asplenium vespertinum	western spleenwort	Aspleniaceae	perennial rhizomatous herb	Feb-Jun	4.2	S4	G4
Astragalus brauntonii	Braunton's milk-vetch	Fabaceae	perennial herb	Jan-Aug	1B.1	S2	G2
Atriplex coulteri	Coulter's saltbush	Chenopodiaceae	perennial herb	Mar-Oct	1B.2	S1S2	G3
Baccharis malibuensis	Malibu baccharis	Asteraceae	perennial deciduous shrub	Aug	1B.1	S1	G1
Calochortus catalinae	Catalina mariposa lily	Liliaceae	perennial bulbiferous herb	(Feb)Mar-Jun	4.2	S3S4	G3G4
Calochortus clavatus var. clavatus	club-haired mariposa lily	Liliaceae	perennial bulbiferous herb	(Mar)May-Jun	4.3	S3	G4T3
Calochortus clavatus var. gracilis	slender mariposa lily	Liliaceae	perennial bulbiferous herb	Mar-Jun(Nov)	1B.2	S2S3	G4T2T3
Calochortus plummerae	Plummer's mariposa lily	Liliaceae	perennial bulbiferous herb	May-Jul	4.2	S4	G4
Camissoniopsis lewisii	Lewis' evening-primrose	Onagraceae	annual herb	Mar-May(Jun)	3	S4	G4
Centromadia parryi ssp. australis	southern tarplant	Asteraceae	annual herb	May-Nov	1B.1	S2	G3T2
Cercocarpus betuloides var. blancheae	island mountain-mahogany	Rosaceae	perennial evergreen shrub	Feb-May	4.3	S4	G5T4
Chaenactis glabriuscula var. orcuttiana	Orcutt's pincushion	Asteraceae	annual herb	Jan-Aug	1B.1	S1	G5T1T2
Chloropyron maritimum ssp. maritimum	salt marsh bird's-beak	Orobanchaceae	annual herb (hemiparasitic)	May-Oct(Nov)	1B.2	S1	G4?T1
Chorizanthe parryi var. parryi	Parry's spineflower	Polygonaceae	annual herb	Apr-Jun	1B.1	S2	G3T2
Convolvulus simulans	small-flowered morning-glory	Convolvulaceae	annual herb	Mar-Jul	4.2	S4	G4

<u>Deinandra minthornii</u>	Santa Susana tarplant	Asteraceae	perennial deciduous shrub	Jul-Nov	1B.2	S2	G2
<u>Delphinium parryi ssp. blochmaniae</u>	dune larkspur	Ranunculaceae	perennial herb	Apr-Jun	1B.2	S2	G4T2
<u>Delphinium parryi ssp. purpureum</u>	Mt. Pinos larkspur	Ranunculaceae	perennial herb	May-Jun	4.3	S4	G4T4
<u>Dichondra occidentalis</u>	western dichondra	Convolvulaceae	perennial rhizomatous herb	(Jan)Mar-Jul	4.2	S3S4	G3G4
<u>Dudleya blochmaniae ssp. blochmaniae</u>	Blochman's dudleya	Crassulaceae	perennial herb	Apr-Jun	1B.1	S2	G3T2
<u>Dudleya cymosa ssp. agourensis</u>	Agoura Hills dudleya	Crassulaceae	perennial herb	May-Jun	1B.2	S1	G5T1
<u>Dudleya cymosa ssp. marcescens</u>	marcescent dudleya	Crassulaceae	perennial herb	Apr-Jul	1B.2	S2	G5T2
<u>Dudleya cymosa ssp. ovatifolia</u>	Santa Monica dudleya	Crassulaceae	perennial herb	Mar-Jun	1B.1	S1	G5T1
<u>Dudleya parva</u>	Conejo dudleya	Crassulaceae	perennial herb	May-Jun	1B.2	S1	G1
<u>Dudleya verityi</u>	Verity's dudleya	Crassulaceae	perennial herb	May-Jun	1B.1	S1	G1
<u>Eriogonum crocatum</u>	conejo buckwheat	Polygonaceae	perennial herb	Apr-Jul	1B.2	S1	G1
<u>Hordeum intercedens</u>	vernal barley	Poaceae	annual herb	Mar-Jun	3.2	S3S4	G3G4
<u>Horkelia cuneata var. puberula</u>	mesa horkelia	Rosaceae	perennial herb	Feb-Jul(Sep)	1B.1	S1	G4T1
<u>Lasthenia glabrata ssp. coulteri</u>	Coulter's goldfields	Asteraceae	annual herb	Feb-Jun	1B.1	S2	G4T2
<u>Lepechinia fragrans</u>	fragrant pitcher sage	Lamiaceae	perennial shrub	Mar-Oct	4.2	S3	G3
<u>Lilium humboldtii ssp. ocellatum</u>	ocellated Humboldt lily	Liliaceae	perennial bulbiferous herb	Mar-Jul(Aug)	4.2	S4?	G4T4?
<u>Lupinus paynei</u>	Payne's bush lupine	Fabaceae	perennial shrub	Mar-Apr(May-Jul)	1B.1	S1	G1Q
<u>Monardella hypoleuca ssp. hypoleuca</u>	white-veined monardella	Lamiaceae	perennial herb	(Apr)May-Aug(Sep-Dec)	1B.3	S3	G4T3
<u>Monardella sinuata ssp. gerryi</u>	Gerry's curly-leaved monardella	Lamiaceae	annual herb	Apr-Jun	1B.1	S1	G3T1
<u>Monardella sinuata ssp. sinuata</u>	southern curly-leaved monardella	Lamiaceae	annual herb	Apr-Sep	1B.2	S2	G3T2
<u>Navarretia ojaiensis</u>	Ojai navarretia	Polemoniaceae	annual herb	May-Jul	1B.1	S2	G2
<u>Nolina cismontana</u>	chaparral nolina	Ruscaceae	perennial evergreen shrub	(Mar)May-Jul	1B.2	S3	G3
<u>Orcuttia californica</u>	California Orcutt grass	Poaceae	annual herb	Apr-Aug	1B.1	S1	G1
<u>Pentachaeta lyonii</u>	Lyon's pentachaeta	Asteraceae	annual herb	(Feb)Mar-Aug	1B.1	S1	G1
<u>Phacelia hubbyi</u>	Hubby's phacelia	Hydrophyllaceae	annual herb	Apr-Jul	4.2	S4	G4
<u>Phacelia ramosissima var. austrolitoralis</u>	south coast branching phacelia	Hydrophyllaceae	perennial herb	Mar-Aug	3.2	S3	G5? T3Q
<u>Piperia michaelii</u>	Michael's rein orchid	Orchidaceae	perennial herb	Apr-Aug	4.2	S3	G3
<u>Pseudognaphalium leucocephalum</u>	white rabbit-tobacco	Asteraceae	perennial herb	(Jul)Aug-Nov(Dec)	2B.2	S2	G4

<u>Quercus dumosa</u>	Nuttall's scrub oak	Fagaceae	perennial evergreen shrub	Feb-Apr(May-Aug)	1B.1	S3	G3
<u>Senecio aphanactis</u>	chaparral ragwort	Asteraceae	annual herb	Jan-Apr(May)	2B.2	S2	G3
<u>Suaeda esteroa</u>	estuary seablite	Chenopodiaceae	perennial herb	(May)Jul-Oct(Jan)	1B.2	S2	G3
<u>Suaeda taxifolia</u>	woolly seablite	Chenopodiaceae	perennial evergreen shrub	Jan-Dec	4.2	S4	G4
<u>Texosporium sancti-jacobi</u>	woven-spored lichen	Caliciaceae	crustose lichen (terricolous)		3	S1	G3
<u>Thelypteris puberula var. sonorensis</u>	Sonoran maiden fern	Thelypteridaceae	perennial rhizomatous herb	Jan-Sep	2B.2	S2	G5T3
<u>Tortula californica</u>	California screw-moss	Pottiaceae	moss		1B.2	S2S3	G2G3

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Questions and Comments

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APPENDIX C-2

Oak and Landmark Tree Report

Oak and Landmark Tree Report

Project:

*School of Management
California Lutheran University
Memorial Parkway
Thousand Oaks, California 91360*

Prepared for:

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Date:

May 17, 2019

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Oak and Landmark Tree Report

*School of Management
California Lutheran University
Memorial Parkway
Thousand Oaks, California 91360*

INTRODUCTION

This Oak and Landmark Tree Report was prepared at the request of Christine Cano, Project and Space Manager, Facility and Operations Planning, California Lutheran University (CLU). CLU proposes to construct a new School of Management to be located within the university on Memorial Parkway, Thousand Oaks, California. The proposed building will be built at the current location of Nygreen Hall, which will be demolished.

The immediate vicinity contains three protected trees, including two coast live oaks (*Quercus agrifolia*) and one California sycamore (*Platanus racemosa*) that are protected under the City of Thousand Oaks Municipal Code. The purpose of this Oak and Landmark Tree Report is as follows:

- Document findings related to a field inventory and ground-level visual analysis of the subject trees, including photographs and a tree location map.
- Analyze potential impacts to the subject trees that might result due to construction of the proposed School of Management building.
- Present recommendations with respect to protection of the protected trees during construction activities, as well as any treatments that would serve to improve or promote their health.

This report was prepared in accordance with Title 9, Chapter 4, Articles 42 and 43 of the City of Thousand Oaks Municipal Code, relating to Oak and Landmark Tree Preservation and Protection and Resolution 2010-014 - Thousand Oaks Oak Tree Preservation and Protection Guidelines. Oak trees within the City of Thousand Oaks are recognized as significant historical, aesthetic and valuable ecological resources. It is the intent of the Oak Tree Permit to preserve and maintain healthy oak trees in the development process. Unless allowed by an Oak Tree Permit, no person shall cut, remove, encroach into the protected zone or relocate any tree of the genus *Quercus* that is at least 2 inches in diameter when measured at a point 4-1/2 feet above natural grade. The status of limbs or trees as deadwood or dead trees must be confirmed by the City's Oak Tree Preservation Consultant.

The Landmark Tree Permit process is intended to preserve and maintain healthy Landmark Trees in the development process. Landmark Trees include specimens of the following species:

- *Platanus racemosa* (California sycamore) which exceed 12 inches in diameter when measured at a point 4-1/2 feet above natural grade
- *Umbellularia californica* (California bay laurel) which exceed 8 inches in diameter when measured at a point 4-1/2 feet above natural grade

- *Juglans californica* (southern California black walnut) which exceed 8 inches in diameter when measured at a point 4-1/2 feet above natural grade
- *Heteromeles arbutifolia*, (toyon) which exceed 8 inches in diameter when measured at a point 4-1/2 feet above natural grade

Unless allowed by a Landmark Tree Permit, no person may cut, remove, encroach into the protected zone or relocate any landmark tree on any public or private property within the City. The status of major limbs or trees as deadwood must be confirmed by the City's Landmark Tree Preservation Consultant.

SCOPE OF WORK

The scope of work included a full ground field observation of the cultural and physical conditions of two protected oak trees and one landmark tree. Associate Certified Arborist Ann Burroughs recorded pertinent data on the Field Evaluation Forms contained in Appendix B on February 8, 2019.

Photographs are included in Appendix C for reference and record purposes. A Tree Location Map is included in Appendix D. This map was prepared using a Site Plan dated May 16, 2019 provided by California Lutheran University.

All information provided by the preparer is certified to be true and correct as of the date of the field observations. All protected oak and landmark trees that might be impacted within the vicinity of the proposed project were inventoried.

TREE CHARACTERISTICS AND SITE CONDITIONS

A 1-1/4 inch diameter metal tag stamped with the tag number shown on the Tree Location Map was attached to the north side of each protected tree within the vicinity of the School of Management project. The tag numbers used were '1263', '2642' and '2643'. Trees #1263, #2642 and #2643 are the only protected oak and landmark trees within the vicinity of the proposed construction. Additional oak and sycamore trees are located on the campus but were not included within this report since they are far from the proposed construction.

Tree #1263, a California sycamore, is located within a raised planter on the westerly side of the existing Nygreen Hall. Tree #2642 and #2643, single-trunk coast live oak trees, are located near Memorial Parkway on either side of the stairs that form a part of a north-south axis that runs throughout the campus. All three trees appear to have been planted in place.

The site terrain is generally flat but slopes downward from the edge of the building pad to Memorial Parkway, which runs along the northerly edge of the site. On the building pad, Nygreen Hall is surrounded by a lawn, concrete patios and various planter areas.

Detailed information with respect to species, diameter, and number of trunks, height, canopy dimensions, form, crown class, age class, and pruning history is provided for the subject trees on the Field Evaluation Forms in Appendix B.

TREE HEALTH AND DEFECTS

The overall health and appearance ratings are as follows:

Tree #	Health	Appearance
1263	B-	B
2642	A	A
2643	A	A

Specific details are documented for the trees on the Field Evaluation Forms in Appendix B. Issues noted on the forms include foliage color, density and leaf size, and presence of epicormic growth or twig dieback. Assessments of relative annual shoot growth, woundwood development and vigor are also provided. Specific tree defects were evaluated and noted as to their location (root crown, trunk, scaffolds, or branches), as well as the severity of the defect. Note that tree #1263 is infested with mistletoe.

IMPACT ANALYSIS AND SPECIFIC RECOMMENDATIONS

As noted above, California Lutheran University proposes to demolish the existing 8,600 square foot Nygreen Hall and construct a new 15,000 square foot School of Management building in the same location. Changes to the existing landscape will include the construction of new ADA compliant ramps, revisions to the axial stairway to the east of the building, three new water treatment swales, and a new, small patio area on the westerly side of the new building.

Two protected oak trees and one protected sycamore would experience encroachment. No protected trees would require removal to construct the project as proposed. The impacts may be summarized as follows:

Tree #1263 – This mature California sycamore is located within a raised planter near the westerly side of the existing Nygreen Hall. The westerly wall of the proposed building will be located approximately 10 feet further east than the westerly wall of the existing building. A concrete sidewalk at the easterly edge of the planter will be demolished to construct a 23-foot wide concrete patio area bordered by a new wall adjacent to the planter that contains the tree. A 14-foot long cut-out in the wall immediately adjacent to the trunk is proposed as well as a reduction in the width of the patio in this area to 20 feet. These two design measures reduce construction impacts to the tree, allowing it to remain.

This tree would be encroached upon by construction of the proposed patio and wall. Demolition of the existing concrete walkway would occur 2.3 feet from the trunk and construction of the new wall would occur approximately 7 feet from the trunk at the closest point. In addition, grading would occur up to the tree's trunk on its easterly side to meet the grade on the southerly side of the tree. Encroachment would occur within approximately 43 percent of the tree's protected zone. However, all encroachment, with the exception of approximately one percent of the protected zone would occur in areas that are presently beneath concrete or within a planter area on the opposite side of an existing wall.

Due to the limited rooting space within the planter it is likely some tree roots have grown beneath the existing concrete walkway. Trees exhibit what is termed as a 'zone of rapid taper', where large roots typically exist. This zone is estimated to be 7 to 10 feet from the trunk. Since the new walls would be constructed slightly less than 7 feet from the trunk it is likely roots of a significant size exist below the walkway and would require removal to construct the walls.

The most recent edition of the International Society of Arboriculture (ISA) Best Management Practices (BMP) for Managing Trees during Construction includes guidelines for determining a Tree Protection Zone (TPZ). The TPZ is based on a tree species' tolerance for construction damage and the relative age of the tree. Taking these two factors into consideration, a TPZ can be established using multiples of a tree's trunk diameter measurement.

California sycamores are known to have a moderate tolerance to construction impacts. Using the BMP, the recommended TPZ for a mature California sycamore of this size is approximately 13 feet. In addition, the most recent edition of the ISA BMP for Root Management states that severing roots at a distance closer than six times dbh is more likely to affect tree health and stability. Six times dbh for this tree would be 6.5 feet. Therefore, proposed construction activities are limited to no closer than 7 feet from the trunk.

The new wall will be installed within and west of the area of the existing walkway to be demolished. To construct the cut-out in the wall and patio, removal of the existing planter wall 5 feet from the easterly side of the trunk would be required. As a general rule roots grow radially and horizontally outward from the trunk. In typical clay-loam soils, they are usually located within the upper 1 foot to 3 feet of soil and extend well beyond the tree's drip line. When roots are constrained by walls in close proximity to the trunk they often grow immediately against and along the walls. The possibility exists that the existing wall is providing support to the tree and its removal in this location could destabilize the tree. Demolition of concrete within the protected zone of the tree should be performed with hand tools or small equipment under the observation of this office.

Once the wall is removed, we recommend that a trench be excavated at the proposed limits of excavation for the new wall, under the observation of this office. Excavation should be performed with hand tools or small equipment to insure that roots are not damaged during the work. It is possible that roots from the tree will be encountered. Should any incidental roots be encountered they should be cut cleanly at the edge of the excavation. If roots over 2 inches in diameter must be excised, this office will further evaluate the tree's stability. The evaluation will consider the size of the roots and their distance from the trunk. Based on the results of the excavation it can be determined whether or not the new wall could be built and the tree remain with no long-term impacts.

If the work is performed carefully under the observation of this office, the tree may be able to remain. However, because of the above-mentioned ISA BMPs, we are therefore concerned about the both tree's stability and about the potential for premature decline and mortality of the tree.

We recommend that following the excavation, a strict monitoring protocol be implemented. Initially the tree should be observed for new trunk lean and raised or cracked soil at the base of the trunk a week after completion of excavation within the tree's protected zone. It should then be observed once monthly for the following three months.

Thereafter, the tree should be monitored on at least a semiannual basis as well as following a significant wind event or an extreme weather event such as sustained rains, during construction and for a minimum of three additional years following completion of construction. The tree would be monitored to detect general decline, new trunk lean, raised or cracked soil at the base of the trunks, and a decrease of health or vigor.

The tree is infested with mistletoe. Mechanical control through pruning is the most effective control method. A qualified tree trimmer should use thinning-type pruning cuts to remove infected branches at their point of origin or back to large lateral branches. Infected branches need to be cut at least one foot below the point of the mistletoe attachment to completely remove embedded haustoria, the slender projection from the mistletoe that enables the parasite to penetrate the tissues of its host and absorb nutrients from it.

Tree #2462 – This semi-mature coast live oak is located just south of the sidewalk adjacent to Memorial Parkway, west of the axial stairway. Coast live oak trees are reported to have a high tolerance to construction impacts. Using the BMP, the recommended TPZ for a mature coast live oak of this size is approximately 6 feet. Construction activities will occur no closer than approximately 7 feet from the trunk.

The existing concrete ramp located at the southerly and easterly edges of the planting area containing the oak tree will be removed. The axial stair on the east side of the sidewalk will be demolished and a new, slightly narrower axial stair constructed. This work would occur approximately 8 feet from the trunk at the closest and would amount to approximately 40 percent of the tree's protected zone. Because this area is covered in concrete it is possible that only minor roots would be found within this area. The area where the sidewalk was removed (23 percent of the protected zone) will become expanded planting area for the oak.

The existing planting area north of tree #2462 and south of the sidewalk along Memorial Parkway will be removed and a concrete ramp leading to the new building's north entry will be constructed. A curb will be constructed on both the northerly and southerly side of the ramp. At the bottom of the ramp the curb on the southerly side would turn toward the southeast and form the edge of the planter area containing the oak. This work would occur approximately 7.5 feet from the trunk at the closest and would amount to approximately 14 percent of the tree's protected zone.

The northeasterly corner of the new building will extend into the tree's protected zone by five square feet. This report assumes that 5 feet of over-excavation and re-compaction will be required to construct the building. This excavation, along with grading to accommodate the entry ramp will occur within the westerly and southwesterly portion of the tree's protected zone. This work would occur approximately 8 feet from the trunk at the closest and would amount to approximately 17 percent of the tree's protected zone.

Finally a new water treatment swale and its associated piping would be constructed within the southeasterly edge of the protected zone. This would occur no closer than approximately 15 feet from the trunk, outside the tree's drip line.

Altogether work is proposed for approximately 70 percent of the tree's protected zone. However all the work would occur outside of the recommended TPZ. In addition, 23 percent of the work would consist of removal of concrete and expansion of the planter area.

We recommend the contractor excavate a trench at the proposed limit of excavation for the over-excavation, the curbing adjacent to the ramp and the grading to accommodate

the ramp to the depth of the proposed work adjacent to the tree under the observation of this office. Should any incidental roots be encountered they should be cut cleanly at the edge of the excavation. If roots over 2 inches in diameter must be excised, this office will perform further evaluation of tree stability. The evaluation will consider the size of the roots and their distance from the trunk.

If these procedures are followed it is unlikely this work will impose long-term adverse impacts on the tree, as long as the work is performed carefully.

Tree #2463 – This semi-mature coast live oak is located just south of the sidewalk running adjacent to Memorial Parkway, east of the axial stairway. The tree would be encroached upon by demolition of the existing stairway. Construction of the new stairway would occur within the edge of protected zone, but outside the tree's drip line. Work would occur no closer than 15 feet from the trunk. Encroachment would be limited to less than one percent of the tree's protected zone.

If the work is performed carefully under the observation of this office, no significant long-term impacts to the tree are anticipated.

GENERAL RECOMMENDATIONS

The following general recommendations are provided for educational purposes and construction guidance. They should be followed to establish and maintain a healthy cultural environment for native trees. These recommendations apply to native trees in general; specific questions should always be referred to the project arborist or the City of Thousand Oaks. The recommendations also apply to the care of most ornamental trees.

WORK WITHIN THE PROTECTED ZONE

The protected zone is an area surrounding a tree, defined within the City of Thousand Oaks Oak Tree and Landmark Tree Ordinances. It includes all area within the dripline of the tree, plus 5 feet beyond the dripline. This distance must be no less than 15 feet from the trunk. Given the high sensitivity of native trees, great care must be taken when work is conducted within the protected zone. Specifically:

Observation -- All work conducted within the protected zone of a protected oak or landmark tree should be performed within the presence of a qualified arborist. This work will also require a permit from the City of Thousand Oaks. This will help to insure that work is performed in a manner that will not harm the tree.

Notice – A minimum of 48 hours notice should be provided to the project arborist prior to the planned start of work. This notification must also be provided to the City of Thousand Oaks. The notice will insure that the project receives the highest possible scheduling priority and avoid delays.

Hand Tools -- All work should be accomplished with the use of hand tools only. Except under special circumstances, tractors, backhoes and other vehicles cannot be operated in a manner that will preserve major tree roots, minimize soil compaction, and insure the safety of both the vehicle operator and the tree.

Certification -- All work conducted within the protected zone should be certified by the project arborist. For work performed under a permit, this may be a requirement of the City of Thousand Oaks.

WORK OUTSIDE OF THE PROTECTED ZONE

To protect trees within the vicinity of major construction, trees should be temporarily fenced at the edge of the protected zone prior to the beginning of construction operations on a site. The fence should be constructed of chain link material, a minimum of 5 feet in height. The project arborist should be contacted to develop a fencing plan, generally required by the City of Thousand Oaks. The fence may be removed at the completion of the construction upon approval by the City.

PLANTING WITHIN THE PROTECTED ZONE

Planting within the protected zone of native trees is generally discouraged. Ideally, the natural leaf litter should be allowed to collect beneath the tree, creating a natural mulch and fertilizer. If planting is necessary or the natural leaf litter is removed, the following should be considered:

Plant Material -- Only compatible plantings should be utilized. A good reference planting under oak trees is Compatible Plantings Under and Around Oaks by the California Oak Foundation.

Irrigation -- No spray-type irrigation systems should be used within the protected zone. It is important that sprinkler systems do not throw water against the trunk of a native tree. A continuously wet soil condition near the root crown (the area where the tree trunk meets the ground) favors the growth of predatory disease organisms. The two most prominent organisms in southern California are avocado root rot (*Phytophthora cinnamomi*) and oak root fungus (*Armillaria mellea*). At a minimum, all spray irrigation should be kept at least 15 feet from the trunk to prevent drift onto the root crown.

Resistant Varieties -- Avoid plants that are susceptible to either avocado root rot or oak root fungus. Oak trees are particularly susceptible to these diseases in developed areas. Avoiding other plants susceptible to these diseases will also help to keep the diseases in a dormant state. Consult publications by the University of California Cooperative Extension for plant lists.

Mulch -- Place a 4-inch thick layer of organic mulch throughout the protected zone of each tree. Aesthetically pleasing options include crushed walnut hulls and shredded bark. These mulches are beneficial when the natural leaf litter is not available, minimizing evaporation, moderating temperature and providing weed control.

TREE MAINTENANCE AND PRUNING OPERATIONS

Most native trees require very little pruning, with the exception of periodic deadwooding. However, if a tree has a major defect, the employment of proper pruning practices may be more desirable than the uncontrolled damage that could otherwise occur. Always consult qualified professionals for advice.

Ornamental or Aesthetic Pruning -- Removal of live tissue for the purpose of altering the appearance of a protected oak or landmark tree is not desirable and is generally not allowed by the City of Thousand Oaks. Activities such as thinning out, heading up, or other similar practices contribute to the onset of insect and disease attacks.

Deadwooding -- Removal of dead tissue, regardless of size, may usually be performed without a permit. All pruning should follow standards endorsed by the International Society of Arboriculture.

Other Pruning Operations -- Branches that are considered to be unsafe due to decay, cavities, cracks, physical imbalance, fire damage, disease, or insects should be referred to a qualified arborist for inspection, especially if the branches exceed 2 inches in diameter. A permit is generally required by the City of Thousand Oaks to remove such branches. A brief written report will be prepared by the project arborist to provide the basis for the request.

Cavities and Hollows -- Cavities and hollows should be kept free of loose debris. Some contain decayed wood; these should generally be referred to a qualified arborist for treatment. Concrete or other materials should not be used to seal or fill in cavities or hollows. These materials create a haven for diseases and insects over time. Openings may be covered with screening to prevent debris build-up and habitation by bees.

Wound Seal -- Pruning wounds should generally not be sealed with any type of compound. Over time, these materials crack and create entry points for disease and insects. A proper pruning cut will heal naturally over a short period of time.

WATERING AND FERTILIZATION

Winter rains should be sufficient to provide the water needed for oak trees in natural areas. Oak and landmark trees in landscaped areas will usually receive enough water from adjacent plantings. If you suspect that a tree is in need of supplemental water, contact the project arborist for advice.

Watering -- If supplemental water is required, use a water probe, such as a "Ross Root Feeder" to apply the water. Alternatively, a low volume soaker hose could be utilized. Apply the water at various locations, just outside the dripline of the tree. A total of 15 to 20 hours of low-volume application should suffice. Repeat this watering cycle every one to two months as needed. Water should generally not be applied to oak trees in the summer, as they are effectively dormant and cannot accept the water.

Fertilization -- Fertilizer can be applied along with the water. A total of 0.75 pound of actual nitrogen per inch of trunk diameter per year is a basic rule-of-thumb. However, ask your local certified nurseryman for a specific recommendation and follow the manufacturer's directions carefully. Over-fertilization can be deadly and is generally not required for native trees.

Aeration -- Ventilation of the root system can be very beneficial in areas where soil has been compacted. Hand dig holes 6 inches in diameter to a depth of 2 feet. Do not cut any roots in excess of 1 inch in diameter. Dig the holes 2 feet on center, in concentric circles around the trunk, throughout the dripline. If possible, add holes outside of the dripline. Fill the holes with an organic matter. If oak leaf litter is not available, organic mulch will be beneficial. This organic matter will be decomposed, producing a year-round source of fertilizer for the tree. Note that the City of Thousand Oaks may require a permit to complete such work under a protected oak or landmark tree.

DISEASES AND INSECTS

Effective pest control starts with regular observation by the property owner. Issues such as abnormal leaf drop, oozing sap, and discolored or dying leaves indicate that something has changed and expert inspection is required. Property owners should be very careful when using pesticides around trees. Herbicides should never be utilized within one hundred feet of a protected oak or landmark tree, unless applied by a certified

pesticide applicator. Misuse of these compounds can lead to the death of beneficial organisms or even to the death of the tree.

GRADE CHANGES

Any change to the grade at the root crown of a tree can have a negative impact. As little as 6 inches can lead to the death of the tree. Drainage patterns should be maintained to prevent water from flowing and ponding at the base of a tree. If excess material builds up at the root crown, use a small shovel to remove the excess soil and debris. The flare at the root crown should just be visible.

INSPECTION

Trees should be inspected on a periodic basis by a qualified arborist. The inspection basis should be determined by the relative hazard value of the tree. For example, trees surrounding a high-use business should be inspected on a quarterly basis, whereas trees located within a low-use open space might only require bi-annual inspection. It is the responsibility of the property owner to establish and implement an appropriate inspection schedule upon the recommendation provided by the qualified arborist.

WARRANTY

The trees discussed herein were generally reviewed for physical, biological, functional, and aesthetic conditions. This examination was conducted in accordance with presently accepted industry procedures: an at-grade, macro-visual observation only. No extensive microbiological, soil/root excavation, upper crown examination, nor internal tree investigations were conducted and therefore, the reportings herein reflect the overall visual appearance of the trees on the date reviewed. No warranty is implied as to the potential failure, health or demise of any part or the whole of the trees described in this report.

Clients are advised that should physical or biological concerns be evidenced for the specimens within this report, prudent further investigation, detailed analysis or remedial action may be required.

As living organisms, plants continually exhibit growth and response to environmental changes that influence the development, health and vigor of the specimen. These influences may not be externally visible and may be present or develop over various time periods depending on the site conditions.

It is recommended that due to the general nature of plant development and continued environmental and physical influences on vegetation at a specific site, regular monitoring by a qualified arborist is scheduled.

Locations of property lines or the exact tree locations, site amenities, structures or easements are assumed to be as illustrated on any enclosed maps. They are a composite of information provided by the client, records of fact and/or on-site field review. No investigation was made to verify these conditions.

This report represents the independent opinion of the preparer and was conducted per the client's scope of request. The report is therefore limited to the extent described herein.

APPENDIX A – SUMMARY TABLE

OAK AND LANDMARK TREE SUMMARY

Tree Number	Species		dBH (inches)	Canopy (feet)	Height (feet)	Impact
	Scientific Name	Common Name				
1263	<i>Platanus racemosa</i>	California sycamore	13	32	70	encroach
2642	<i>Quercus agrifolia</i>	coast live oak	9	25	40	encroach
2643	<i>Quercus agrifolia</i>	coast live oak	8	23	43	encroach

Summary of Oak Tree Impacts:	
Preserve	0
Encroach	3
Remove	0
Total	3

APPENDIX B – FIELD EVALUATION FORMS

FIELD EVALUATION FORM

Owner: Cal Lutheran Univ. public private unknown other: _____
Site/Address: Nygreen Hall, Memorial Parkway Thomas Guide: Page: _____ Coordinate: _____
Date: 2/8/19 Inspector: AB Date of last inspection: _____ not previously inspected

TREE CHARACTERISTICS

Tree #: 1263 Species: *Quercus agrifolia* *Quercus lobata* other Platanus rademosa
of trunks: 1 dbH (inches): 13 Height (feet): 70

Compass direction	N	NE	E	SE	S	SW	W	NW
Dripline (feet)	<u>17</u>	<u>14</u>	<u>17</u>	<u>17</u>	<u>19</u>	<u>14</u>	<u>12E</u>	<u>17</u>
Clearance to canopy (feet)	<u>20</u>	<u>21</u>	<u>26</u>	<u>10</u>	<u>7</u>	<u>15</u>	<u>25</u>	<u>15</u>

Form: generally symmetric minor asymmetry major asymmetry stump sprout stag-headed
Crown class: dominant co-dominant intermediate suppressed
Age class: young semi-mature mature over-mature/senescent Live crown ratio: _____ %
Pruning history: crown cleaned excessively thinned topped crown raised pollarded crown reduced flush cuts cabled/braced none multiple pruning events Approximate dates: _____ unknown
Special Value: specimen heritage/historic wildlife unusual street tree screen shade indigenous protected by government agency

TREE HEALTH

Foliage color: normal chlorotic necrotic out of 14
Epicormics? Y Twig Dieback? Y out of 14
Foliage density: normal sparse 11
Leaf size: normal small
Annual shoot growth: excellent average poor
Major pests/diseases: Mistletoe
Woundwood development: excellent average poor none
Vigor class: excellent average fair poor
Growth obstructions: stakes wire/ties signs cables curb/pavement guards other _____

SITE CONDITIONS

Site character: residence commercial industrial park open space natural woodland/forest school
Landscape type: parkway raised bed container mound lawn shrub border wind break
Irrigation: none adequate inadequate excessive trunk wetted Pavement lifted? Y N
Recent site disturbance? Y construction soil disturbance grade change line clearing site clearing
% dripline paved: 0% 10-25% 25-50% 50-75% 75-100%
% dripline w/fill soil: 0% 10-25% 25-50% 50-75% 75-100%
% dripline grade lowered: 0% 10-25% 25-50% 50-75% 75-100%
Soil problems: drainage shallow compacted droughty saline alkaline acidic small volume disease center history of failure clay expansive slope _____° aspect _____
Obstructions: lights signage line-of-sight view overhead lines underground utilities traffic adjacent vegetation other _____
Exposure to wind: single tree below canopy above canopy recently exposed windward, canopy edge area prone to windthrow
Prevailing wind direction: _____ Occurrence of snow/ice storms: never seldom regularly

FIELD EVALUATION FORM - PAGE 2 OF 2

Tree Number 1243

TARGET

Use Under Tree: building parking traffic pedestrian recreation landscape hardscape small features utility lines Can target be moved? Y N Can use be restricted? Y N Occupancy: occasional use intermittent use frequent use constant use

TREE DEFECTS - Noted as applicable

ROOT DEFECTS: Suspect root rot? Y N Mushroom/conk present? Y N ID: _____
 Exposed roots: severe moderate low Undermined: severe moderate low
 Root pruned: _____ feet from trunk Root area affected: _____ % Buttress wounded? Y N When: _____
 Restricted root area: severe moderate low Potential for root failure: severe moderate low
 LEAN: _____ degrees from vertical natural unnatural self-corrected Soil heaving? Y N
 Decay in plane of lean? Y N Roots broken? Y N Soil cracking? Y N Lean severity: severe moderate low
 Compounding factors: _____

CROWN DEFECTS: S = severe, M = moderate, L = low

DEFECT	ROOT CROWN	TRUNK	SCAFFOLDS	BRANCHES
Poor taper				
Bow, sweep				
Co-dominants, forks				
Multiple attachments				
Included bark				
Excessive end weight				
Cracks/splits				
Hangers				
Girdling				
Wounds/seam				
Decay				
Cavity				
Conks/mushrooms				
Bleeding/sap flow				
Loose/cracked bark				
Nesting hole/bee hive				
Deadwood/stubs				
Borers/termites/ants				
Cankers/galls/burls				
Previous failure				

RECOMMENDED TREATMENT

Prune: remove defective part reduce end weight crown clean thin raise canopy crown reduce restructure shape
 Pest control: Mistletoe Cable/Brace: _____
 Other Activities: aerate soil remove fill soil remove irrigation/planting remove wire, etc. fertilize/water
 Inspect further: root crown decay aerial monitor Remove tree? Y N Replace tree? Y N Move target? Y N Other: _____
 no action required at this time
 Effect on adjacent trees: none evaluate Notification: owner manager governing agency Date: _____

ADDITIONAL COMMENTS

Remove mistletoe

FIELD EVALUATION FORM

Owner: Cal Lutheran Univ. public private unknown other: _____
 Site/Address: Nyagreen Hall, Memorial Parkway Thomas Guide: Page: _____ Coordinate: _____
 Date: 2/8/19 Inspector: AB Date of last inspection: _____ not previously inspected

TREE CHARACTERISTICS

Tree #: 2642 Species: *Quercus agrifolia* *Quercus lobata* other _____
 # of trunks: 1 dbH (inches): 9 Height (feet): 40

Compass direction	N	NE	E	SE	S	SW	W	NW
Dripline (feet)	11	14	14	14	14	12	9	10
Clearance to canopy (feet)	6	10	7	2	10	4	3	3

Form: generally symmetric minor asymmetry major asymmetry stump sprout stag-headed
 Crown class: dominant co-dominant intermediate suppressed
 Age class: young semi-mature mature over-mature/senescent Live crown ratio: _____ %
 Pruning history: crown cleaned excessively thinned topped crown raised pollarded crown reduced flush cuts cabled/braced none multiple pruning events Approximate dates: _____ unknown
 Special Value: specimen heritage/historic wildlife unusual street tree screen shade indigenous protected by government agency

TREE HEALTH

Foliage color: normal chlorotic necrotic Woundwood development: excellent average poor none
 Epicormics? Y N Twig Dieback? Y N
 Foliage density: normal sparse Vigor class: excellent average fair poor
 Leaf size: normal small Growth obstructions: stakes wire/ties signs cables
 Annual shoot growth: excellent average poor curb/pavement guards
 Major pests/diseases: _____ other _____

SITE CONDITIONS

Site character: residence commercial industrial park open space natural woodland/forest school
 Landscape type: parkway raised bed container mound lawn shrub border wind break
 Irrigation: none adequate inadequate excessive trunk wetted Pavement lifted? Y N
 Recent site disturbance? Y N construction soil disturbance grade change line clearing site clearing
 % dripline paved: 0% 10-25% 25-50% 50-75% 75-100%
 % dripline w/fill soil: 0% 10-25% 25-50% 50-75% 75-100%
 % dripline grade lowered: 0% 10-25% 25-50% 50-75% 75-100%
 Soil problems: drainage shallow compacted droughty saline alkaline acidic small volume disease center history of failure clay expansive slope _____ ° aspect _____
 Obstructions: lights signage line-of-sight view overhead lines underground utilities traffic adjacent vegetation other _____
 Exposure to wind: single tree below canopy above canopy recently exposed windward, canopy edge area prone to windthrow
 Prevailing wind direction: _____ Occurrence of snow/ice storms: never seldom regularly

FIELD EVALUATION FORM - PAGE 2 OF 2

Tree Number 2642

TARGET

Use Under Tree: building parking traffic pedestrian recreation landscape hardscape small features utility lines Can target be moved? Y N Can use be restricted? Y N
 Occupancy: occasional use intermittent use frequent use constant use

TREE DEFECTS - Noted as applicable

ROOT DEFECTS: Suspect root rot? Y N Mushroom/conk present? Y N ID: _____
 Exposed roots: severe moderate low Undermined: severe moderate low
 Root pruned: _____ feet from trunk Root area affected: _____ % Buttress wounded? Y N When: _____
 Restricted root area: severe moderate low Potential for root failure: severe moderate low
 LEAN: 15 degrees from vertical natural unnatural self-corrected Soil heaving? Y N
 Decay in plane of lean? Y N Roots broken? Y N Soil cracking? Y N Lean severity: severe moderate low
 Compounding factors: _____

CROWN DEFECTS: S = severe, M = moderate, L = low

DEFECT	ROOT CROWN	TRUNK	SCAFFOLDS	BRANCHES
Poor taper				
Bow, sweep				
Co-dominants, forks				
Multiple attachments				
Included bark				
Excessive end weight				
Cracks/splits				
Hangers				
Girdling				
Wounds/seam				
Decay				
Cavity				
Conks/mushrooms				
Bleeding/sap flow				
Loose/cracked bark				
Nesting hole/bee hive				
Deadwood/stubs				
Borers/termites/ants				
Cankers/galls/burls				
Previous failure				

RECOMMENDED TREATMENT

Prune: remove defective part reduce end weight crown clean thin raise canopy crown reduce restructure shape
 Pest control: _____ Cable/Brace: _____
 Other Activities: aerate soil remove fill soil remove irrigation/planting remove wire, etc. fertilize/water
 Inspect further: root crown decay aerial monitor Remove tree? Y N Replace tree? Y N Move target? Y N Other: _____
 no action required at this time
 Effect on adjacent trees: none evaluate Notification: owner manager governing agency Date: _____

ADDITIONAL COMMENTS

Remove mycorrhizal around trunk

FIELD EVALUATION FORM

Owner: Cal Lutheran Univ. [] public [x] private [] unknown [] other: _____
Site/Address: Nygreen Hall, Memorial Parkway Thomas Guide: Page: _____ Coordinate: _____
Date: 2/8/19 Inspector: AB Date of last inspection: _____ [] not previously inspected

TREE CHARACTERISTICS

Tree #: 2643 Species: [x] Quercus agrifolia [] Quercus lobata [] other _____
of trunks: 1 dbH (inches): 8 Height (feet): 43

Table with 9 columns: Compass direction, Dripline (feet), Clearance to canopy (feet). Rows for N, NE, E, SE, S, SW, W, NW.

Form: [] generally symmetric [x] minor asymmetry [] major asymmetry [] stump sprout [] stag-headed
Crown class: [x] dominant [] co-dominant [] intermediate [] suppressed
Age class: [] young [x] semi-mature [] mature [] over-mature/senescent Live crown ratio: _____ %
Pruning history: [] crown cleaned [] excessively thinned [] topped [] crown raised [] pollarded [] crown reduced [] flush cuts []
cabled/braced [x] none [] multiple pruning events Approximate dates: _____ [] unknown
Special Value: [] specimen [] heritage/historic [x] wildlife [] unusual [] street tree [x] screen [x] shade [x] indigenous [x] protected by
government agency

TREE HEALTH

Foliage color: [x] normal [] chlorotic [] necrotic Woundwood development: [] excellent [] average [] poor [x] none
Epicormics? Y [N] Twig Dieback? Y [N]
Foliage density: [x] normal [] sparse Vigor class: [] excellent [x] average [] fair [] poor
Leaf size: [x] normal [] small Growth obstructions: [] stakes [] wire/ties [] signs [] cables
[] curb/pavement [] guards
[] other _____
Annual shoot growth: [] excellent [x] average [] poor
Major pests/diseases: _____

SITE CONDITIONS

Site character: [] residence [] commercial [] industrial [] park [] open space [] natural [] woodland/forest school
Landscape type: [] parkway [] raised bed [] container [] mound [] lawn [x] shrub border [] wind break
Irrigation: [] none [x] adequate [] inadequate [] excessive [] trunk wetted Pavement lifted? Y N
Recent site disturbance? Y [N] [] construction [] soil disturbance [] grade change [] line clearing [] site clearing
% dripline paved: 0% 10-25% 25-50% 50-75% 75-100%
% dripline w/fill soil: 0% 10-25% 25-50% 50-75% 75-100%
% dripline grade lowered: 0% 10-25% 25-50% 50-75% 75-100%
Soil problems: [] drainage [] shallow [] compacted [] droughty [] saline [] alkaline [] acidic [] small volume [] disease center [] history
of failure [] clay [] expansive [x] slope 3 aspect N
Obstructions: [] lights [] signage [] line-of-sight [] view [] overhead lines [] underground utilities [] traffic [] adjacent vegetation [] other
Exposure to wind: [x] single tree [] below canopy [] above canopy [] recently exposed [] windward, canopy edge [] area prone to windthrow
Prevailing wind direction: _____ Occurrence of snow/ice storms: [x] never [] seldom [] regularly

FIELD EVALUATION FORM - PAGE 2 OF 2

Tree Number 2643

TARGET

Use Under Tree: building parking traffic pedestrian recreation landscape hardscape small features utility lines Car
 target be moved? Y N Can use be restricted? Y N
 Occupancy: occasional use intermittent use frequent use constant use

TREE DEFECTS - Noted as applicable

ROOT DEFECTS: Suspect root rot? Y N Mushroom/conk present? Y N ID: _____
 Exposed roots: severe moderate low Undermined: severe moderate low
 Root pruned: _____ feet from trunk Root area affected: _____ % Buttress wounded? Y N When: _____
 Restricted root area: severe moderate low Potential for root failure: severe moderate low
 LEAN: _____ degrees from vertical natural unnatural self-corrected Soil heaving? Y N
 Decay in plane of lean? Y N Roots broken? Y N Soil cracking? Y N Lean severity: severe moderate low
 Compounding factors: _____
 CROWN DEFECTS: S = severe, M = moderate, L = low

DEFECT	ROOT CROWN	TRUNK	SCAFFOLDS	BRANCHES
Poor taper				
Bow, sweep				
Co-dominants, forks				
Multiple attachments				
Included bark				
Excessive end weight				
Cracks/splits				
Hangers				
Girdling				
Wounds/seam				
Decay				
Cavity				
Conks/mushrooms				
Bleeding/sap flow				
Loose/cracked bark				
Nesting hole/bee hive				
Deadwood/stubs				
Borers/termites/ants				
Cankers/galls/burls				
Previous failure				

RECOMMENDED TREATMENT

Prune: remove defective part reduce end weight crown clean thin raise canopy crown reduce restructure shape
 Pest control: _____ Cable/Brace: _____
 Other Activities: aerate soil remove fill soil remove irrigation/planting remove wire, etc. fertilize/water
 Inspect further: root crown decay aerial monitor Remove tree? Y N Replace tree? Y N Move target? Y N Other:

 Effect on adjacent trees: none evaluate Notification: owner manager governing agency Date: _____

ADDITIONAL COMMENTS

APPENDIX C – PHOTOGRAPHS



Tree #1263



Tree #2642



Tree #2643

APPENDIX D – TREE LOCATION MAP

APPENDIX D

Cultural Resources Phase I Assessment



April 13, 2020

City of Thousand Oaks
Community Development Department
2100 Thousand Oaks Blvd
Thousand Oaks, CA 91362

Attn: Carlos Contreras, Senior Planner

**Subj: Cultural Resources Phase I Assessment for CLU Management Building Project
(Envicom project #59-114-001)**

Dear Ms. Rice,

In January of 2020, Envicom Corporation (Envicom) completed a Phase I Cultural Resource Assessment for CLU Management Building Project (**Figure 1**). The CLU Management Building Project (project), is the construction of a 28,471 square feet (sf) building which would require the demolition of Nygreen Hall, a classroom building constructed in 1973 (**Figure 2**). The general location of the project is as follows:

United States Geological Survey 7.5' Quadrangles: Thousand Oaks, CA
Township: 2 North Range: 20 West Section: N/A
Latitude: 34° 13'21.89" North Longitude: 118°52'42.66" West

The Phase I Cultural Resource Assessment included a cultural resource record search conducted by Envicom at the South Central Coastal Information Center (SCCIC) and a Native American cultural resource record search conducted by the State of California Native American Heritage Commission (NAHC). Both record searches examined the development 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. Because paleontological resources were also of concern, a record search request was also made with the Natural History Museum of Los Angeles (NHM).

The purpose of the record searches 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.



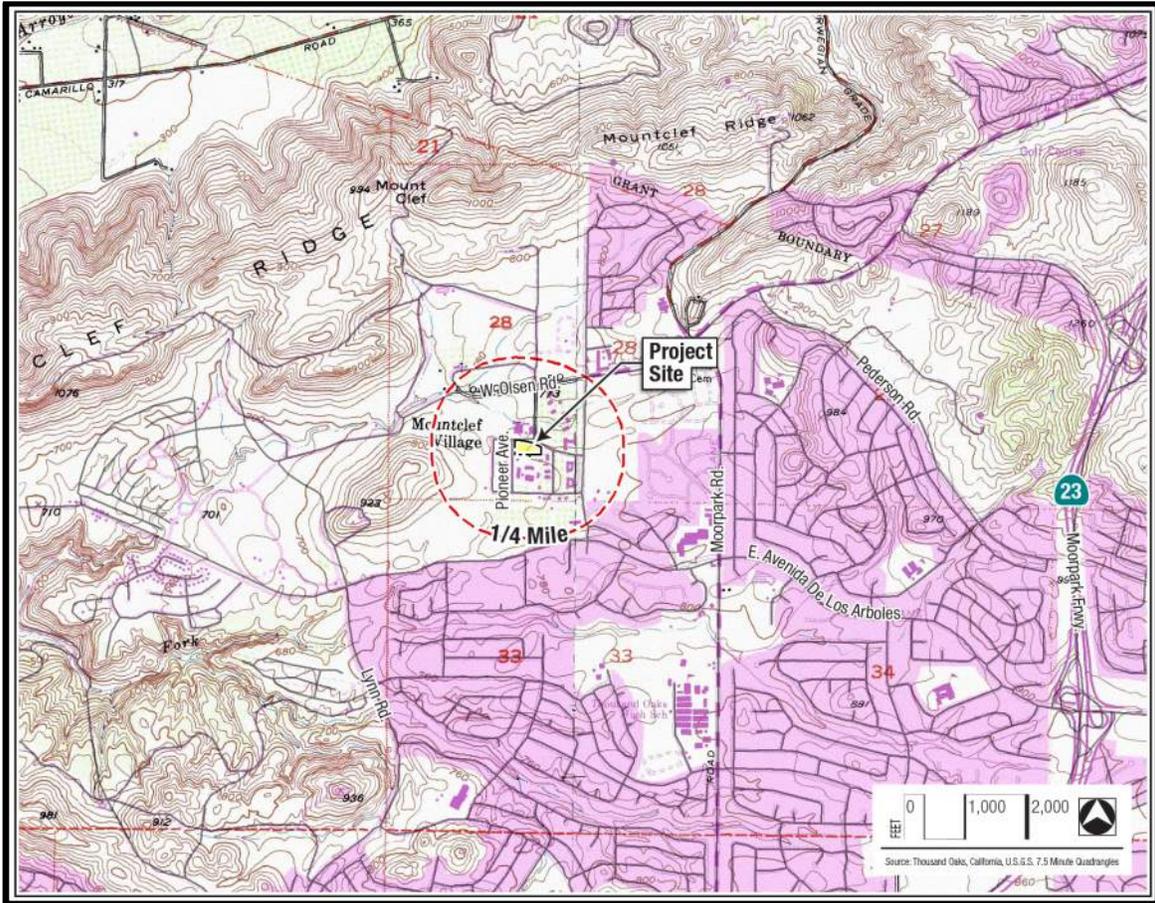


Figure 1: The project location in Ventura County, California, with the 0.25-mile study area shown (1981 Thousand Oaks Quadrangle Topographic Map).



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

RECORD SEARCH RESULTS

SCCIC and NAHC Record Searches

On January 8, 2020, Envicom visited the SCCIC with a request to search their database for cultural resources located within the study area (defined as the development site, plus a 0.25-mile buffer area) for regional cultural resource context (see **Figure 1**). The record search included the collection of all complete site records for cultural resources, as well as copies of any cultural resource technical reports that intersected with the study area. Envicom also contacted the NAHC on January 13, 2020, with a similar record search request.

The SCCIC record search found no previously identified cultural resources located within the project property, and no cultural resources within the 0.25-mile portion of the study area. The SCCIC record search identified one cultural resource report (VN-02098) that involved the project development site. The report in question was a Phase I study of the California Lutheran Campus in 1998 as part of the University's Master Plan. Examination of this report, entitled "Phase I Archaeological Survey of the California Lutheran University Master Plan Study Area, Thousand Oaks, Ventura County, California," by W & S Consultants of Simi Valley, did not find any cultural resources within the Master Plan Study Area, and thus no resources within the current project study area. No additional cultural resource reports were recorded within either the development site or the 0.25-mile portion of the project study area.

The results from the 2019 NAHC record search were received on January 21, 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, and the response letter from the NAHC is 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 a cultural resource's physical location and details are 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 1900 and 1979. The first historic map showing local residential development is the 1900 Triunfo Pass USGS maps which indicates some development of buildings and roads in the local area, and residential development within the project property (**Figure 3**). The 1943 Triunfo Pass USGS map shows even more development of residential buildings and unimproved roads in the property and surrounding region (**Figure 4**). The oldest aerial photograph in the UCSB Library historic aerial photography database was from 1938 (**Figure 5**). As was found with the USGS maps, this photo shows development on the project property and in the local area. Examination of historic Google Earth satellite images shows the local area and developed project site from 1989 to current with limited changes (**Figure 6**).

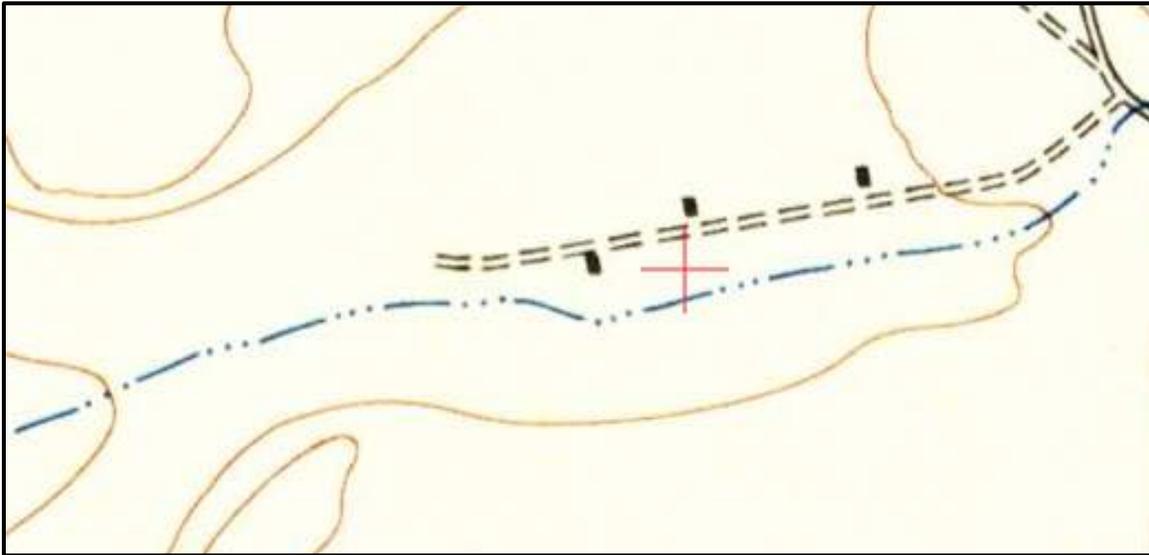


Figure 3: The 1900 Triunfo Pass USGS Map (red cross marks the project location).

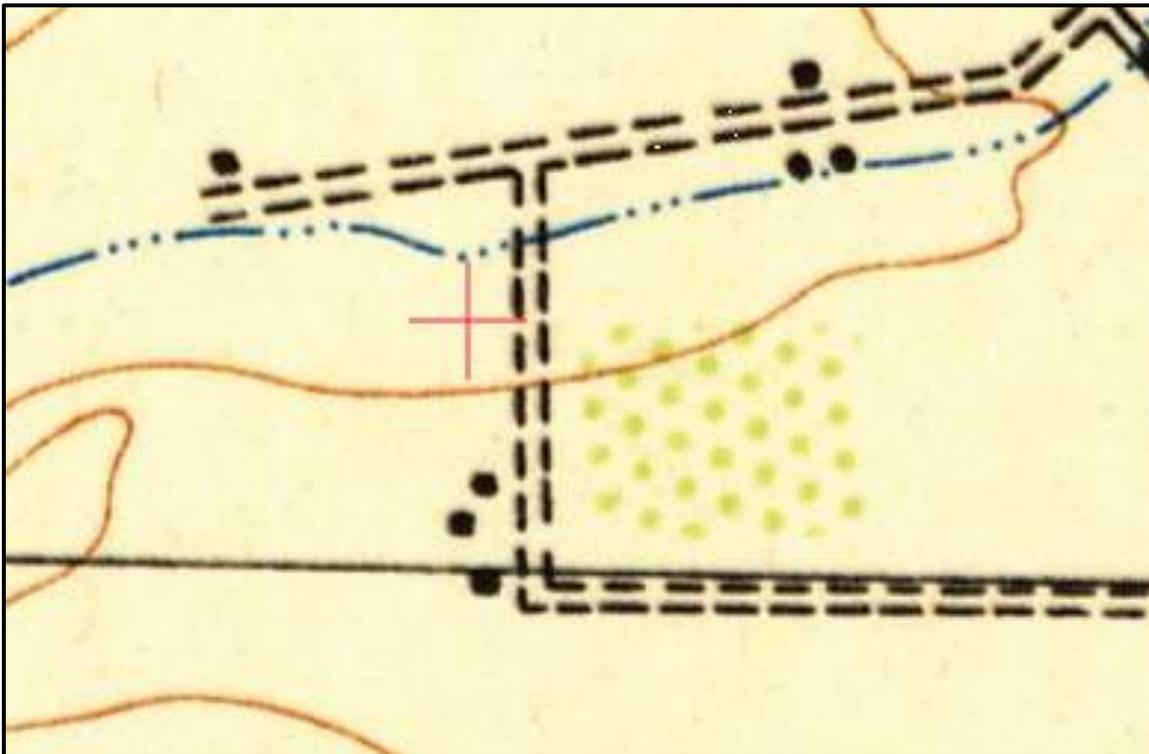


Figure 4: The 1943 Triunfo Pass USGS Map (red cross marks the project location).



Figure 5: The project area in the 1938 aerial image, showing the project property (just above center) and surrounding area undeveloped (UCSB Historic Aerial Image Database).



Figure 6: The project area in 1989 image, showing the project property (Google Maps Image Database).

The review of historic maps, satellite images, and aerial images indicated that the project property could contain historic cultural resources dating to prior to the 1940s, which is considered to be a more significant historic time period for the development of Southern California. The oldest historic maps and aerial images were, therefore, ***positive for potential older historic resources within the project development site.*** However, the 1973 construction of Nygreen Hall, a large classroom building that required extensive landscape modification, limits the chance of finding remnant material or features.

Paleontological Record Search Results

A NHM record search request was submitted on January 13th, 2020 (see Appendix A). The NHM record search findings were received on January 29th, and confirmed that the project is near areas considered to be sensitive for paleontological resources at deeper depth (see Appendix B). They recommended 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.

Field Survey Results

Envicom staff visited the project property on January 10, 2020. The project property is fully developed within the University campus (**Figure 7, Figure 8, Figure 9, Figure 10, Figure 11, and Figure 12**). There are potted plants and trees around the project property. No early historic or prehistoric artifacts or features were observed on the surface. The findings were, therefore, ***negative for cultural resources within the project property.*** However, since asphalt covers most of the surface, the observed findings should not be considered representative of subsurface deposits.

RECOMMENDATIONS

The results of the SCCIC and NAHC database record searches were negative for cultural resources within the project property. The surface assessment of the property was negative for cultural resources; however, almost the entire property was covered with buildings, asphalt, lawn or decorative plantings. Examination of the historic USGS maps, historic satellite image database, and the historic aerial photo databases were potentially positive for older historic cultural resources within the project property and surrounding region, however, the 1973 construction of Nygreen Hall made the presence of remnant material unlikely. The NHM findings recommended monitoring of soils removed at deeper depths, which Envicom suggests be set at below 10-feet in depth, based on the depth of fossil finds noted by the NHM in their report.

Envicom does not recommend further cultural resource assessment prior to construction for archaeological resources. Envicom also does not recommend a project built environment study, due to the building to be removed – Nygreen Hall – being constructed in 1973, which is below the 50-year threshold for being a cultural resource. However, Envicom does make the following recommendations, which are consistent with the Campus Master Plan:



Figure 7: project property showing the front of the existing building (Nygreen Hall).



Figure 8: The project property, showing the back of the building.



Figure 9: A view of the project property.

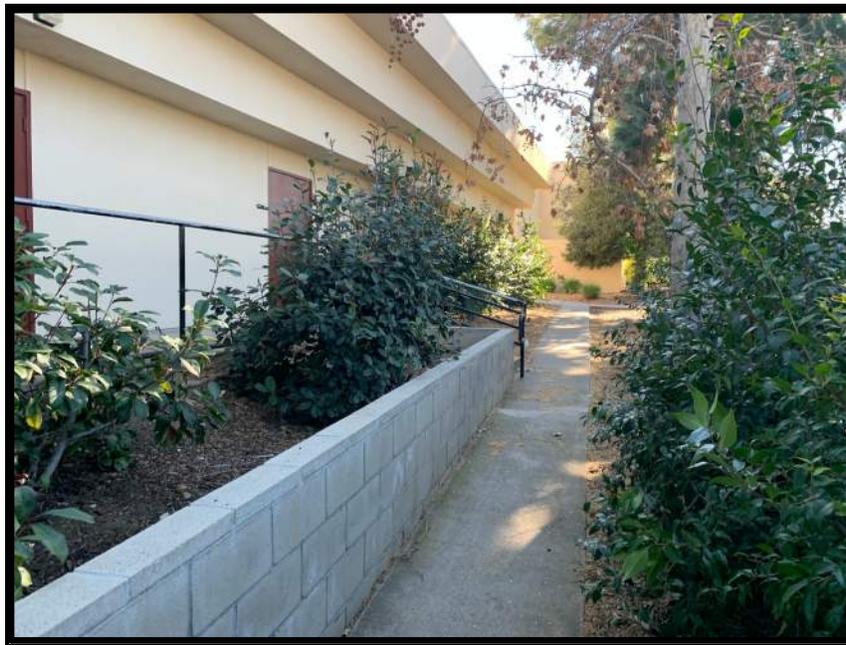


Figure 10: A view of the project property.

Recommendation 1: 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, which will be developed prior to project grading. If project excavation is below 10-feet in depth, then a paleontological monitor should be on site to watch for fossil resources. Such monitoring will be outlined in the “discovery” protocol, developed prior to grading.

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.

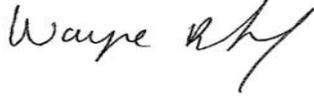
Recommendation 2: Inadvertent Discovery of Human Remains.

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.

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 (with Samantha Renta)
Envicom Director of Cultural Resources

ATTACHMENTS:

- Appendix A: NAHC and NHM Request Letters.
- Appendix B: NAHC and NHM Response Letters.
- Appendix C: Resume of Dr. Wayne Bischoff (lead author)

APPENDIX A
NAHC and NHM Request Letters

January 13, 2020

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

**Subj: Cultural Resources Phase I Assessment for CLU Management Building
(Envicom Project #59-114-001)**

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: Newbury, CA
Township: 2 North Range: 20 West Section: N/A
Latitude: 34° 13'21.89"North Longitude: 118°52'42.66"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).

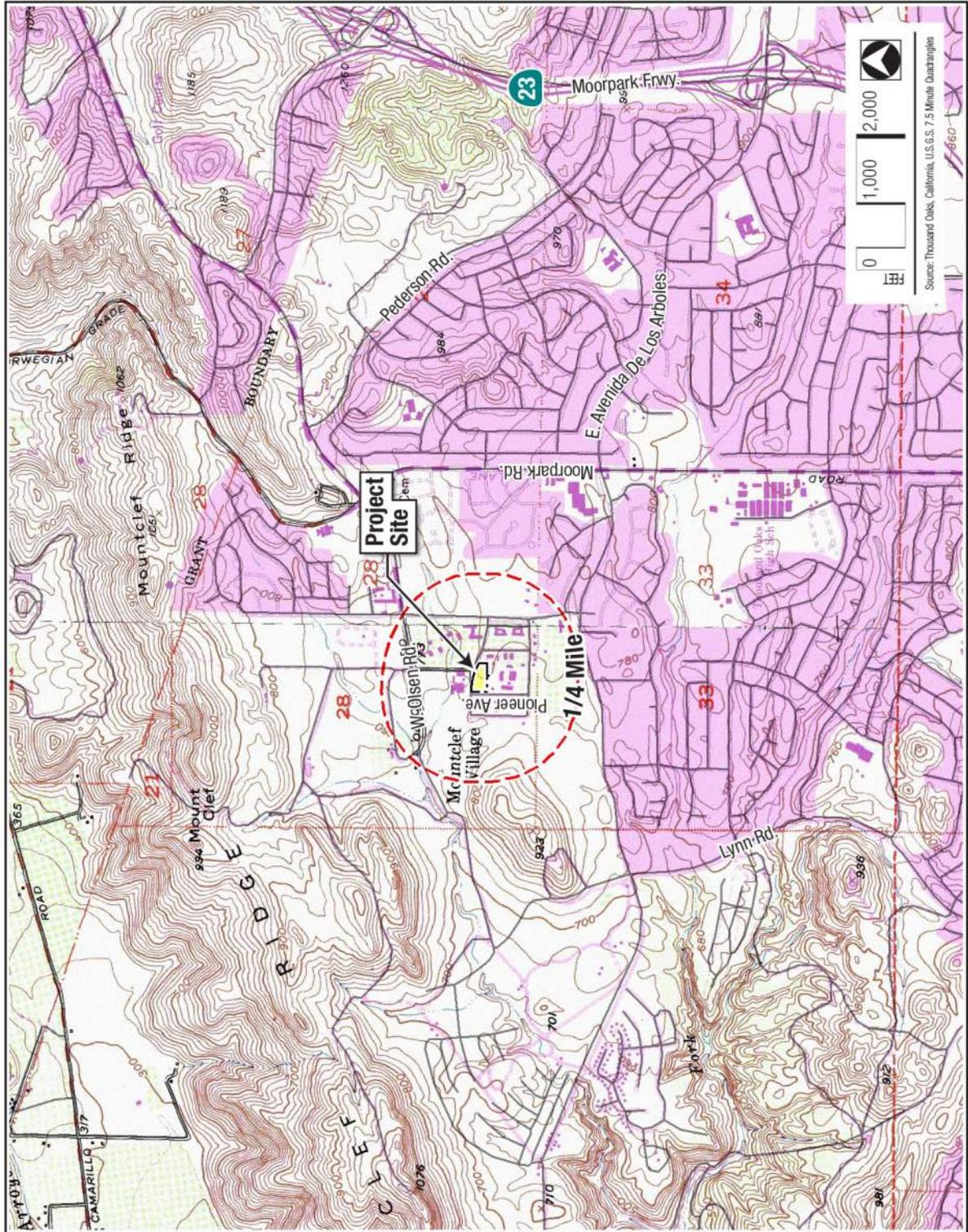
Sincerely,



Dr. Wayne Bischoff
Director of Cultural Resources

Attachment:

Project vicinity map on 1:24,000 topographic map



January 13, 2020

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

Attn: Dr. Samuel McLeod

**Subj: Cultural Resources Phase I Assessment for CLU Management Building
(Envicom Project #59-114-001)**

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: Newbury, CA
Township: 2 North Range: 20 West Section: N/A
Latitude: 34° 13'21.89"North Longitude: 118°52'42.66"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).

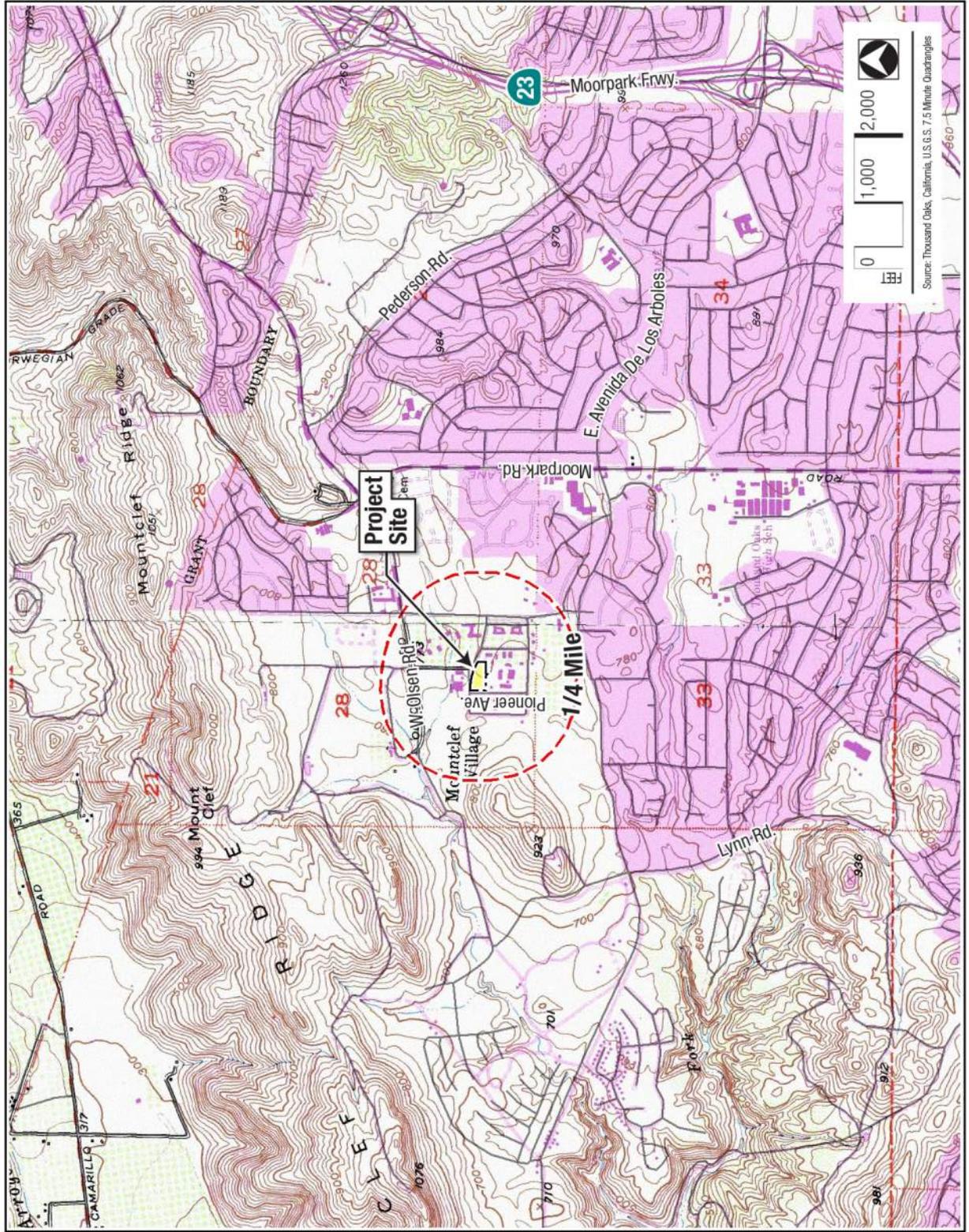
Sincerely,



Dr. Wayne Bischoff
Director of Cultural Resources

Attachment:

Project vicinity map on 1:24,000 topographic map



APPENDIX B
NAHC and NHM Response Letters

NATIVE AMERICAN HERITAGE COMMISSION

January 21, 2020

Wayne Bischoff
Envicom CorporationVia Email to: wbischoff@envicomcorporation.com**Re: CLU Management Building Project, Ventura 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 me. 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: Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green
Staff Services Analyst

Attachment

CHAIRPERSON
Laura Miranda
LuiseñoVICE CHAIRPERSON
Reginald Pagaling
ChumashSECRETARY
Merri Lopez-Keifer
LuiseñoPARLIAMENTARIAN
Russell Attebery
KarukCOMMISSIONER
Marshall McKay
WintunCOMMISSIONER
William Mungary
Paiute/White Mountain
ApacheCOMMISSIONER
Joseph Myers
PomoCOMMISSIONER
**Julie Tumamait-
Stenslie**
ChumashCOMMISSIONER
[Vacant]EXECUTIVE SECRETARY
Christina Snider
Pomo**NAHC HEADQUARTERS**
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

**Native American Heritage Commission
Native American Contact List
Ventura County
1/21/2020**

Barbareno/ Ventureneno Band of Mission Indians

Eleanor Arrellanes,
P. O. Box 5687 Chumash
Ventura, CA, 93005
Phone: (805) 701 - 3246

Northern Chumash Tribal Council

Fred Collins, Spokesperson
P.O. Box 6533 Chumash
Los Osos, CA, 93412
Phone: (805) 801 - 0347
fcollins@northernchumash.org

Barbareno/ Ventureneno Band of Mission Indians

Raudel Banuelos,
331 Mira Flores Chumash
Camarillo, CA, 93012
Phone: (805) 427 - 0015

San Luis Obispo County Chumash Council

Mark Vigil, Chief
1030 Ritchie Road Chumash
Grover Beach, CA, 93433
Phone: (805) 481 - 2461
Fax: (805) 474-4729

Barbareno/ Ventureneno Band of Mission Indians

Patrick Tumamait,
992 El Camino Corto Chumash
Ojai, CA, 93023
Phone: (805) 216 - 1253

Santa Ynez Band of Chumash Indians

Kenneth Kahn, Chairperson
P.O. Box 517 Chumash
Santa Ynez, CA, 93460
Phone: (805) 688 - 7997
Fax: (805) 686-9578
kkahn@santaynezchumash.org

Barbareno/Ventureneno Band of Mission Indians

Julie Tumamait-Stenslie,
Chairperson
365 North Poli Ave Chumash
Ojai, CA, 93023
Phone: (805) 646 - 6214
jtumamait@hotmail.com

yak tityu tityu yak tilhini – Northern Chumash Tribe

Mona Tucker, Chairperson
660 Camino Del Rey Chumash
Arroyo Grande, CA, 93420
Phone: (805) 748 - 2121
olivas.mona@gmail.com

Chumash Council of Bakersfield

Julio Quair, Chairperson
729 Texas Street Chumash
Bakersfield, CA, 93307
Phone: (661) 322 - 0121
chumashtribe@sbcglobal.net

Coastal Band of the Chumash Nation

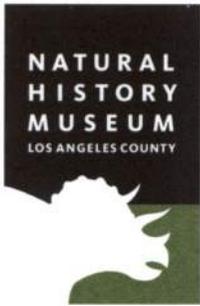
Gino Altamirano, Chairperson
P. O. Box 4464 Chumash
Santa Barbara, CA, 93140
cbcn.consultation@gmail.com

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed CLU Management Building Project, Ventura County.

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

27 January 2020

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 CLU Management Building Project, Envicom Project # 59-114-001, in the City of Thousand Oaks, Ventura 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 CLU Management Building Project, Envicom Project # 59-114-001, in the City of Thousand Oaks, Ventura County, project area as outlined on the portion of the Newbury Park USGS topographic quadrangle map that Samantha Renta sent to me via e-mail on 13 January 2020. 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 at depth in the proposed project area.

The entire proposed project area has surficial deposits composed of younger Quaternary Alluvium, derived as alluvial fan deposits from the surrounding more elevated terrain. These deposits typically do not contain significant vertebrate fossils in the uppermost layers, but may well contain significant fossil vertebrate remains in older deposits at modest depth. Our closest vertebrate fossil locality in similar sediments is LACM 1680, south-southwest of the proposed project area north of the Ventura Freeway (Highway 101) and east of Arroyo Conejo, that produced fossil specimens of mammoth, *Mammuthus*, and horse, Equidae, at a depth of 14-15 feet below the surface. A little further to the south-southeast, between the Ventura Freeway (Highway 101) and Thousand Oaks Boulevard, our older quaternary locality LACM 7660 produced a fossil specimen of mastodon, *Mammut americanum*.

Shallow excavations in the younger Quaternary Alluvium exposed throughout the proposed project area are unlikely to uncover significant vertebrate fossils. Deeper excavations in the proposed project area that extend down into older Quaternary deposits, however, may well encounter significant vertebrate fossil remains. Any substantial excavations in the proposed project area, therefore, should be monitored closely to quickly and professionally recover any fossil remains discovered while not impeding development. Sediment samples should also be collected and processed to determine the small fossil potential in the proposed project area. Any fossils collected should be placed in an accredited 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 cursive script that reads "Samuel A. McLeod". The signature is written in black ink and is positioned below the word "Sincerely,".

Samuel A. McLeod, Ph.D.
Vertebrate Paleontology

enclosure: invoice

APPENDIX C

Resume of Dr. Wayne Bischoff (lead author)



WAYNE BISCHOFF, PH.D.

Professional Resume

Registered Professional Archaeologist (RPA #32450562)

Education

- 2000 - **Ph.D. in Anthropology (Historical Archaeology emphasis), Michigan State University, East Lansing, MI.**
- 1991 - **Bachelor of Arts (Anthropology, Education, and U.S. History), Purdue University, West Lafayette, IN.**

Professional Summary

- **Over 25 Years' Experience Managing Projects.** Projects completed under the California Environmental Quality Act (CEQA), Section 106 and 110 of the National Historic Preservation Act (NHPA), the National Environmental Protection Act (NEPA), as well as numerous other federal and state laws and permit regulations regarding cultural resources.
- **Successful Performance History.** Dr. Bischoff has managed up to 60 professional staff in multiple offices covering several states. He has completed challenged projects, developed successful cultural resource teams, and is experienced with budgeting and scoping projects, successful proposal writing, client and agency relationships, and large project management.
- **Numerous Market Sectors.** Dr. Bischoff has completed projects involving solar, wind, geothermal, and electric transmission lines; defense, public works, education, residential, and commercial development; telecommunication, mining, transportation, parks and trails, and water resources; and storm and sewer lines, industrial sites, and railroads.
- **Planning and Compliance Document Author.** Dr. Bischoff has been an author on Environmental Impact Reports (EIR), Mitigated Negative Declarations (MND), Environmental Impact Statements (EIS), Environmental Assessments (EA), Programmatic Agreements (PA), Memorandum of Agreements (MOA), Initial Studies (IS), ACOE permits, and Memorandum of Understanding (MOU).
- **Extensive Experience with Federal, State, County, and Local Agencies.** SHPOs, FHA, NPS, and CALTRANS. Multiple Bureau of Land Management districts (Barstow, Bishop, Moreno Valley, Needles, El Centro, Nevada). The Army and National Guard, Marine Corps, Navy, and Air Force. The GSA, the USDA, Forest Service, California Coastal Commission, and several USCOE districts, LACDPW, LADWP, and many regional water districts. Fish and Wildlife, the CPUC, and the Counties of Los Angeles, San Bernardino, Riverside, Ventura, Imperial, Kern, Santa Clara, Inyo, Mono, Santa Barbara, San Diego, and Orange. Many port authorities, state agencies, and local governments.
- **Consultation and Communication with Many Tribal Groups.** Tribal groups include the Chumash, Gabrielino, Tongva, Washo, Piute, Quechan, Cahuilla, Tataviam, San Manuel, Morongo, and Luiseno. *I am a professional expert in AB-52 compliance and Tribal consultation.*
- **Over 500 Cultural Resource Projects Completed in Eleven States.** Including hundreds of Phase I Surveys, Phase II Evaluations, Phase III Data Recoveries, and Monitoring Projects. I have authored cultural resource Monitoring Plans, Evaluation Plans, Data Recovery Plans, PRIMPs, Construction Phase Management Plans, WEAPs, Feasibility Studies, and National Register and National Landmark nominations. Reports have included Cultural, Paleontological, and Built Environment resources.
- **Historic Architecture Project Management.** Including built environment surveys and inventories, building assessments and evaluations, HABS/HAER mitigation reports, landscape studies, and indirect effects reports. Subjects have included houses, commercial buildings, roads, canals, and power lines.



Professional Experience

Cultural Resources Director, Envicom Inc., Westlake Village, CA February, 2014 – Current

As Cultural Resources Director at Envicom, I complete all cultural resource, archaeological paleontologist, Native American consultation, and built environment projects for Envicom, and author cultural resource sections of permitting and planning documents. Project area includes Ventura, Santa Barbara, San Luis Obispo, Kern, Los Angeles, Riverside, and San Bernardino Counties. I oversee cultural staff and work with planning teams on larger projects. I am also responsible for business development and project management tasks. I write proposals, oversee quality control, develop agency relationships, write technical reports, and manage and develop budgets.

Projects:

- **Archaeological and Paleontological Monitoring of the Twin Lakes Water Tank Construction for the Las Virgenes Water District, Porter Ranch, CA.** Principal and Project Manager for this monitoring project. (May 2020 – Current).
- **Cultural Resource Tasks Associated with the Arrowhead Estates Project, Banning, CA.** Principal and Project Manager for this 65-acre residential project, which will construct 170+ houses near the historic Saint Boniface Indian School (now demolished). This project involved the National Register nomination of the Indian School, a HAER-level documentation of a stone and concrete water channel, the curation of all artifacts with the Morongo Tribal Group, the installation of historic signage, and the archaeological and Native American monitoring of the project site grading. (April 2020 – Current).
- **Archaeological, Paleontological, and Native American Monitoring for the JPA/Las Virgenes Water District Solar Farm Expansion, Calabasas, CA.** Principal and Project Manager for this monitoring project. (April 2020 – Current).
- **Evaluation of Six Native American Archaeological Sites for the Terra Gen Oasis Windmill Farm, Kern County, CA.** Principal and Project Manager for this archaeological evaluation project, which utilized shovel test pits and test units to evaluate six prehistoric Native American cultural resources that would be impacted by future windfarm development. (March 2020 – Current).
- **Summit View Apartments Project Paleontological Monitoring for this Veterans Housing Project, City of Los Angeles, CA.** Principal and Project Manager for this paleontological monitoring project. (February 2020 – Current).
- **Oakmont Senior Housing Archaeological, Paleontological, and Native American Monitoring Project, Agoura Hills, CA.** Principal and Project Manager for this archaeological, paleontological, and Native American monitoring project. (January 2020 – Current).
- **Conrad N. Hilton Foundation Phase Ib of Proposed Phase II Building Locations, Agoura Hills, California.** This project involved the excavation of 48 shovel test pits within the western periphery of cultural resource CA-LAN-320 on Foundation property. (January 2020 – Current).
- **18800 Gale Avenue Archaeological, Biological, and Paleontological Monitoring Project, Rowland Heights, CA.** Principal and Project Manager for this archaeological, biological, and paleontological monitoring project. (November 2019 – Current).

- **Phase I Survey of the Reconstruction of the Brookview Ranch Riding and Event Venue, School of Management Building, County of Los Angeles, CA (with Samantha Whittington).** Principal and Project Manager for this riding venue rebuild and expansion. Project included a SCCIC/NAHC record search and a site visit. One of the challenges has been integrating a prehistoric cultural resource immediately north of the project development, but on the project property, into the assessment recommendations (August 2019 – Current).
- **Los Angeles Unified School District (LAUSD) Environmental On-Call for archaeological and paleontological tasks, Los Angeles County, CA.** Principal, Project Manager, and cultural resource task completion as needed. Envicom is one of three selected vendors for one year, with four potential renewable years in the contract. (February 2019 – Current).
- **Phase II Evaluation of CA-LAN-41 within the Boundary of the Agoura Village project, City of Agoura Hills, Los Angeles County, CA.** Principal and Project Manager for the completion of an Evaluation (Phase II) of a complex prehistoric cultural resource within the boundary of the Agoura Village project. The Phase II involved the excavation of a number of test units, as well as more detailed mapping of the site. (January 2019 – Current).
- **Los Angeles Community College District Environmental On-Call (including cultural resources), Los Angeles County, CA.** Principal, Project Manager, and cultural resource consultant as needed. (February 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. (January 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).
- **CA-LAN-320 Phased Evaluation Project, Agoura Hills, Los Angeles County, CA.** Principal and Project Manager for the phased evaluation (Phase II) of CA-LAN-320 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 300 B.C. 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. (August 2015 – Current).
- **Phase I Survey of The Emerald Residential Project, Lancaster, Los Angeles County, CA (with Samantha Renta).** Principal and Project Manager for this approximately 5-acre housing project, which included an SCCIC/NAHC/NHM record searches and a site visit. (February 2020 – April 2020).
- **Phase I Survey of The West Palmdale Residential Complex Project, Palmdale, Los Angeles County, CA (with Samantha Renta).** Principal and Project Manager for this approximately 35-acre housing project, which included an SCCIC/NAHC/NHM record searches and a site visit. (February 2020 – April 2020).
- **Conrad N. Hilton Foundation Geotech Boring Archaeological and Paleontological Monitoring, Agoura Hills, California.** This project involved the monitoring of geotech trench and drilling sites within Foundation and Las Virgenes Water District properties within the City of Agoura Hills. (January 2020 – April 2020).
- **Phase I Survey of 4510 Via Vienta, Malibu, Los Angeles County, CA (with Samantha Renta).** Principal and Project Manager for this project, which included an SCCIC record search and a site visit. (January 2020 – April 2020).

- **Phase I Survey of the Proposed California Lutheran University, School of Management Building, Thousand Oaks, CA (with Samantha Renta).** Principal and Project Manager for this university project. Project included a SCCIC/NAHC record search and a site visit. (December 2019 – April 2020).
- **Phase I Survey of the Twin Lakes Water Tank Project, Porter Ranch, Los Angeles County, CA (with Samantha Whittington).** Principal and Project Manager for the completion of a SCCIC/NAHC record search, NAHC record search request, and a site survey for the Los Virgenes Municipal Water District. (October 2019 – April 2020).
- **Phase I Survey of 1175 Camille Drive, Ojai, Ventura County, CA (with Samantha Renta).** Principal and Project Manager for this project, which included an SCCIC/NAHC record search and a site visit. (January 2020 – February 2020).
- **Vineland and Cleon Self Storage Project Phase I Cultural Survey, Burbank, CA (with Samantha Renta).** Principal and Project Manager for this commercial project. Project included NHM/SCCIC/NAHC record searches, but no site visit due to extensive urbanization. (December 2019 – January 2020).
- **Phase I Survey of 5617 Busch Drive, Malibu, Los Angeles County, CA (with Samantha Renta).** Principal and Project Manager for this project, which included an SCCIC record search and a site visit. (December 2019 – January 2020).
- **Sierra West Assisted Living Project, Los Angeles County, CA (with Samantha Renta).** Principal and Project Manager for this group residential project. Project included NHM/SCCIC/NAHC record searches, and a site visit. A project challenge was addressing historic early 20th Century structures, including an early stagecoach station, which once were located on the property, as well as the proximity of the parcel to a historic (1880s) cemetery. (October 2019 – April 2020).
- **Cultural Resource Monitoring of the 21110 Oxnard Hotel project, Woodland Hills, Los Angeles County, CA (with Samantha Renta).** Principal and Project Manager for this monitoring project. (August 2019 – January 2020).
- **Phase I Survey of the Castaic Apartments Project, Town of Castaic, Los Angeles County, CA (with Samantha Renta).** Principal and Project Manager for this large 105-acre mixed use development project, which included an SCCIC/NAHC record search, an NHM record search, and a site visit. The cultural survey discovered two complex older historic sites, which required extensive recordation and evaluation (July 2019 – April 2020).
- **Phase I Survey of the Riverwalk II Mixed-Use Project, Santa Clarita, CA.** Principal and Project Manager for this commercial and Residential Project. Project included a SCCIC/NAHC record search and a site visit. (December 2019 – December 2019).
- **Phase I Survey of 5814 Philip Road, Malibu, Los Angeles County, CA (with Samantha Renta).** Principal and Project Manager for this project, which included an SCCIC record search and a site visit. (October 2019 – December 2019).
- **Phase I Survey of Improvements to the Coronado Golf Course, San Diego, San Diego County, CA (with Samantha Whittington).** Principal and Project Manager for this project, which included an SCCIC/NAHC record search only. (October 2019 – November 2019).
- **Phase I Survey of 6208 Tapia Drive, Malibu, Los Angeles County, CA (with Samantha Whittington).** Principal and Project Manager for this project, which included an SCCIC record search and a site visit. (October 2019 – November 2019).
- **Phase I Survey of 6711 Wandermere Road, Malibu, Los Angeles County, CA (with Samantha Whittington).** Principal and Project Manager for this project, which included an SCCIC record search and a site visit. (September 2019 – October 2019).

- **Phase I Survey of 5820 Foxview Drive, Malibu, Los Angeles County, CA (with Samantha Whittington).** Principal and Project Manager for residential project, which included an SCCIC/NAHC record search, an NHM record search, and a site visit. (September 2019 – October 2019).
- **Phase I Survey of the new Keyes Porsche Auto Dealership, Woodland Hills, Los Angeles County, CA (with Samantha Whittington).** Principal and Project Manager for this project, which included an SCCIC/NAHC/NHM record search, a site visit, and the production of a separate Ethnographic Assessment Report for the project. Envicom also supported the Lead Agency in AB-52 consultation with the Tataviam and Tongva Tribal Groups. (August 2019 – October 2019).
- **Cultural Resource Monitoring of the 21121 Van Owen development project, Canoga Park, Los Angeles County, CA.** Principal and Project Manager for this monitoring project. (September 2019).
- **Phase I Survey of the Avenue 34 Mixed-Use Development Project, City of Los Angeles, Los Angeles County, CA (with Samantha Whittington).** Principal and Project Manager for this project, which included an SCCIC/NAHC record search and a site visit. (August 2019 – September 2019).
- **Phase I Survey of the Faith Lutheran Senior Living Project, City of Inglewood, Los Angeles County, CA (with Samantha Whittington).** Principal and Project Manager for this project, which included an SCCIC/NAHC record search and a site visit. (August 2019 – September 2019).
- **Phase II Evaluation of Cultural Resource CA-LAN-513 within the Boundary of 6282 Sea Star Estates Residential Development within the City of Malibu, Los Angeles County, CA (with Samantha Whittington).** Principal and Project Manager for this Phase II evaluation, which involved surface examination only due to plowed field conditions. No evidence of a cultural resource was found. (September 2019).
- **Phase I Survey of an Agricultural Development Parcel in Balcom Canyon, City of Somis, Ventura County, CA (with Samantha Whittington).** Principal and Project Manager for this project, which included an SCCIC/NAHC record search, a site visit, and the recordation of a prehistoric site at the edge of the project boundary. (July 2019 – August 2019).
- **Phase I Survey of 31215 Bailard Road, City of Malibu, Los Angeles County, CA (with Samantha Whittington).** Principal and Project Manager for this project, which included an SCCIC record search and a site visit. (July 2019 – August 2019).
- **Phase II Evaluation of the Proposed Location of the Printz Colony House within the Strathearn Historic Park, City of Simi Hills, Ventura County, CA (with Samantha Whittington).** Principal and Project Manager for this Phase II evaluation of part of the 1880s Strathearn Farmstead. Evaluation tasks included the excavation of shovel test pits and a single test unit, construction monitoring, and a combined report for the Rancho Simi Recreation and Parks District (June 2019 – July 2019).
- **Phase I Survey of the Parks LA project, City of Los Angeles, Los Angeles County, CA (with Samantha Whittington).** Principal and Project Manager for this project, which included an SCCIC/NAHC/NHM record search, a site visit, and a Natural History Museum paleontological assessment. (June 2019 – July 2019).
- **Phase I Survey of the Rancho Malibu residential development project, City of Malibu, Los Angeles County, CA (with Samantha Whittington).** Principal and Project Manager for this project, which included an SCCIC/NAHC/NHM record search, a site visit, and a Natural History Museum paleontological assessment. (June 2019 – July 2019).
- **Archaeological and Paleontological Monitoring for the Agoura Landmark Development Project, Agoura Hills, CA.** Principal and Project Manager for this monitoring project. A negative findings report was also completed and submitted to the City (January 2019 – July 2019).

- **Phase I Survey of 380 South Rosemead, City of Los Angeles, Los Angeles County, CA (with Samantha Whittington).** Principal and Project Manager for this development project, which included an SCCIC/NAHC/NHM record search, a site visit, and a Natural History Museum paleontological assessment. (May 2019 – June 2019).
- **Phase II Evaluation of CA-LAN-129 and CA-LAN-129a, two prehistoric sites, and CA-LAN-4363H, an early historic site located in Calabasas, CA.** Principal and Project Manager for the evaluation of these three sites as part of permitting with the Corps of Engineers. The evaluation was written to NRHP/SHPO standards. (May 2019 – June 2019).
- **Phase I Survey of 1160 Sulphur Mountain Road, City of Ojai, Ventura County, CA.** Principal and Project Manager for this residential development project, which included a SCCIC/NAHC record search and a site visit (May 2019 – May 2019).
- **Phase I Survey of the Cal Grow Farms Project, City of Perris, Riverside County, CA.** Principal and Project Manager for this agricultural development project, which included a SCCIC/NAHC/NHM record search and a site visit. (March 2019 – May 2019).
- **Phase I Survey of the Riverwalk Mixed-Use Project, Santa Clarita, CA.** Principal and Project Manager for this commercial and Residential Project. Project included a SCCIC/NAHC record search and a site visit. (March 2019 – May 2019).
- **Phase I Survey of the West Village Project, Calabasas, CA.** Principal and Project Manager for this Army Corps of Engineers (ACOE) permitting project. Project included a SCCIC/NAHC/NHM record search and a site visit, as well as SHPO review of the final report. (March 2019 – May 2019).
- **Phase I Survey of the Belvedere Middle School Improvements Project, City of Los Angeles, Los Angeles County, CA.** Principal and Project Manager for the completion of a SCCIC/NAHC record search and NAHC record search request for LAUSD. (November 2018 – April 2019).
- **Phase I Survey “The Angel” Project, Los Angeles County, CA.** Principal and Project Manager for this low income housing project in the San Fernando Valley. Project included a SCCIC/NAHC record search and a site visit. (January 2019 – March 2019).
- **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 – March 2019).
- **Phase I Survey of the Deer Lake Water Tank Project, Porter Ranch, Los Angeles County, CA.** Principal and Project Manager for the completion of a SCCIC/NAHC record search, NAHC record search request, and a site survey for the Los Virgenes Municipal Water District. (November 2018 – March 2019).
- **Phase I Survey of the Sherwood Development Corporation, Tract 4409, Ventura County, CA.** Principal and Project Manager for this Army Corps of Engineers (ACOE) permitting project. Project included a SCCIC/NAHC record search and a site visit, as well as SHPO review. (January 2019 – February 2019).
- **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 – December 2018)
- **Phase II Evaluation of Cultural Resource CA-LAN-513 within the Boundary of 6361 Sea Star Estates Residential Development within the City of Malibu, Los Angeles County, CA.** Principal and Project Manager for this Phase II evaluation, which involved limited shovel test pits and surface examination. No evidence of a cultural resource was found. (November 2018 – December 2018)

- **Phase I Survey for the Massilia Spa Project, Los Angeles County, CA.** Principal and Project Manager for the completion of a SCCIC/NAHC 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 – December 2018)
- **Phase I Survey of the Conejo Creek Park, City of Thousand Oaks, Ventura County, CA.** Principal and Project Manager for the completion of a SCCIC/NAHC record search, NAHC record search request, and a site survey. (August 2018 – November 2018)
- **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 – October 2018)
- **Valencia Travel Village, Valencia, Los Angeles County, CA.** Principal and Project Manager for the completion of a Phase I for trailer park and recreation center. (August 2018 – October 2018)
- **Phase I Survey of the JPA Solar Farm, Calabasas, Los Angeles County, CA.** Principal and Project Manager for the completion of a SCCIC/NAHC record search, NAHC record search request, and a site survey for the Los Virgenes Municipal Water District. This 20-acre solar project also addressed a large prehistoric Native American site located next to and partially on the property. Project included Native American consultation with the Lead Agency and the Tataviam and the recordation of two prehistoric petroglyphs (August 2018 – October 2018)
- **Simi BMX Course Phase I Survey, Simi Valley, CA.** Principal and Project Manager for the completion of a SCCIC/NAHC record search, NAHC record search request, and a site survey. (July 2018 – August 2018)
- **Phase I Paleontological Survey of the 3467 Camino de la Cumbre Property in Sherman Oaks, Los Angeles County, CA.** Principal and Project Manager for the completion of a Natural History Museum record search and paleo report. (August 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 SCCIC/NAHC record search, paleontological record search, NAHC record search request, and a site survey. Additional tasks included writing for the cultural section of the MND document (April 2018 – August 2018)
- **Phase I Survey for the 17-acre Olivias Park Extension commercial development project in Ventura, Ventura County, CA.** Principal and Project Manager for the completion of a SCCIC/NAHC record search, NAHC record search request, and a site survey, followed by limited monitoring. (January 2018 – June 2018)
- **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 SCCIC/NAHC 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 SCCIC/NAHC record search, NAHC record search request, and a site survey. (May 2018 – June 2018)
- **Cultural, Paleo, and Native American Monitoring for the Agoura Hills Marriott Development Project, Agoura Hills, CA.** Principal and Project Manager for this monitoring project. During monitoring, a prehistoric Chumash cultural resource was discovered (number not yet assigned), which led to artifact collection, analysis, and a final report of findings that was submitted to the City (January 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 SCCIC/NAHC 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 SCCIC/NAHC record search, NAHC record search request, and a site survey. (March 2018 – May 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 SCCIC/NAHC 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 SCCIC/NAHC 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 SCCIC/NAHC 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 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 SCCIC/NAHC 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 SCCIC/NAHC record search, NAHC record search request, and a site survey. This project also included a Native American Tribal Cultural Resource Assessment. (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 SCCIC/NAHC 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. We were the official on-call cultural/paleo resources team for the Rams Stadium project, being called in to deal with modern faunal and ancient fossil remains found during excavation. We worked closely with the construction team to get an expert on site within 24-hours of the discovery or quicker, with the goal of getting the discovery assessed and the construction team back to work as soon as possible. (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 SCCIC/NAHC 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. This project also assessed built environment resources, which included early 1900s buildings, early 1900s water control features, culverts, and bridges, and 1950s landscaping elements (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 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 SCCIC/NAHC 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 SCCIC/NAHC 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 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 SCCIC/NAHC 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)
- **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 – 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 SCCIC/NAHC record search, NAHC record search request, and a site survey. Project also included coordination with numerous biology tasks. (August 2017 – September 2017)
- **Canyon View Estates Paleontological Survey, Santa Clarita, Los Angeles County, CA.** Principal and Project Manager for this paleontological record search, site survey, and report. (August – September 2017)
- **North Canyon Ranch 170-acre Residential Subdivision in Simi Valley, Ventura County, CA.** Principal and Project Manager for the completion of a SCCIC/NAHC 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)
- **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 SCCIC/NAHC 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 SCCIC/NAHC 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 SCCIC/NAHC record search, NAHC record search request, and a site survey for this multi-unit residential development. (May 2017 – August 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 SCCIC/NAHC record search, NAHC record search request, and a site survey for apartment complex development. (June 2017 – August 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 SCCIC/NAHC 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)
- **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 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 SCCIC/NAHC record search, NAHC record search request, and a site survey for this small residential development. (June 2017 – July 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 SCCIC/NAHC record search, NAHC record search request, and a site survey. (May 2017 – June 2017)
- **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 amended campus-wide EIR (December 2017 – June 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)
- **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 I and Army Corps of Engineers permit for the project (ACOE, Los Angeles District). Extensive communications and consultation with the ACOE and SHPO. (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 SCCIC/NAHC 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 SCCIC/NAHC 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 SCCIC/NAHC 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 SCCIC/NAHC 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)
- **Conrad N. Hilton Foundation Trail Project Cultural Assessment, Agoura Hills, Los Angeles County, CA.** Project Manager for the Phase Ib 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)
- **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 SCCIC/NAHC record search, site survey, and technical report. (May 2015 – June 2016)
- **CA-LAN-320 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 amended 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 Angeles County, CA.** Principal and Project manager for this residential development project, including NAHC letters, literature review, site survey, paleontological survey and literature search, final technical report, and the writing of the cultural resources section of the Environmental Impact Report. (March 2014 – April 2014)

**Cultural Division Director, Chambers Group, Inc., Santa Ana, CA
October, 2011 – October 2013**

As Cultural Director, I oversaw all existing cultural, paleontological, ethnographic, and built environment projects for Chambers Group. Projects were staged out of seven regional offices located within California and Nevada. I oversaw a permanent staff of 20 individuals and a temporary staff of up to 40 people. I also was responsible for business development and coordination of projects with multi-disciplinary teams, including Biology, Air Quality, SWPPP, and Planning professionals. I reviewed and authored cultural sections of EA, EIR, and EIS documents. I also wrote proposals, oversaw quality control, provided cultural compliance sections of technical reports, developed agency relationships, wrote technical reports, managed and developed budgets, and oversaw all cultural staff. I performed QA/QC on all documents and ensured that management and mitigation measures were clearly defined and legally-defendable. Yearly Division budget was up to 3-million dollars annually.

Energy Projects:

- **Beacon Solar, Hecate Energy and LADWP, Kern County, CA.** Business Developer for the archaeology and biological monitoring, pre-construction surveys, and desert tortoise 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 reliability 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 development 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 Mountain 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 SCCIC/NAHC 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 SCCIC/NAHC 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, Cultural Resources 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. (November 2011 - June 2012)
- **Silverleaf Solar Project, Built Environment Survey, Agile Energy, Imperial County, CA.** Project Manager. 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)

Telecommunication Projects:

- **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, Santa 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)

Defense Projects:

- **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)

Water Projects:

- **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)

Public Works Projects:

- **Veterans Administration, VISN 21 On-Call, Western States, Teamed with KAL Architects.** 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 an 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)

Transportation Projects:

- **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 toll road 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 SCCIC/NAHC 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 SCCIC/NAHC 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)

Development Projects:

- **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)

Mining Projects:

- **Mining Projects, Quality Control and Management Support – Ormat, Enviroscientists, Newmont, McEwen, Midway, Reno, Nevada.** Dr. Bischoff was directly involved with the management of dozens of mining-related surveys, monitoring, and site evaluation projects conducted from the Chambers Group Reno, Nevada, office. Bureau of Land Management was the principal Federal agency. (2011 – October 2013)
- **Ruth Mine Reclamation Cultural Survey and Evaluation, ERRG and USACE, Inyo County, CA.** Principal. Dr. Bischoff oversaw the Intensive Phase I mapping of the Ruth Mine site, evaluation of several site features, and negotiations with the Army Corps of Engineers and the BLM. Extensive mapping of Mine features and structures were completed as part of this project. Bureau of Land Management was the principal Federal agency. (2011 - 2012)

Staff Archaeologist, Marine Corps Base Camp Pendleton, San Diego County, CA. June 2011 – Oct. 2011

Dr. Bischoff was a staff cultural resources specialist at Camp Pendleton, and worked on NEPA, Section 106, and Section 110 compliance requirements for resource management and Base construction projects. Dr. Bischoff was responsible for writing, developing, and executing cultural sections of CATEXs, EAs, EISs, and organized/reviewed NHPA Section 106 and Section 110 reports. Types of projects included archaeological surveys and evaluations, historic research, and monitoring projects. He also performed historic structure surveys and evaluations, and wrote and prepared appropriate documentation to meet construction project cultural and environmental compliance requirements.

**Principle Investigator and Project Manager, Pacific Legacy, Inc., Lancaster, CA.
Sept. 2009 – June 2011**

While at Pacific Legacy, I acted as the cultural resource principal and project manager for various Pacific Legacy clients, including the San Jose Water District, Aera Energy, Berry Petroleum, Quad Knopf, AT&T, and **Southern California Edison**. My primary responsibility was the oversight of subcontracted services to Southern California Edison's Tehachapi Renewable Transmission Project (TRTP). The TRTP is one of the largest green-energy projects in the U.S. and involves the wreck-out and new construction of hundreds of transmission lines and power facilities to carry electricity from wind and solar generation sites to the greater Los Angeles area. During this time, I built the Lancaster office from a staff of two, to a fully-functioning regional office with a permanent staff of eight people and temporary staff of several dozen.

Major Projects:

- **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)

**Principal and Office Manager, Marushia Consultants, Inc. Okemos, MI.
June 2003 – Sept. 2009**

Marushia Consultants was a Cultural Resource Management Company. In this position I bid on projects, managed existing accounts, was responsible for office and project budgets, and oversaw marketing and business development. During this time, I was part of the legal contract team, and represented the company with the public and with agencies. I also managed project NEPA/NRHP compliance, wrote compliance documents, conducted historic structure analysis, dealt with hazmat situations, engaged in industrial sites mitigation, and was a team member on public parks and museum development projects. Major clients included the Detroit District Corps of Engineers, several engineering companies, the City of Kansas City (MO), the Maumee (OH) Wolcott Museum, the Port Authority of Kansas City (MO), the Indiana Department of Transportation, the Carroll County (IN) Wabash and Erie Canal Association, and the National Park Service. During this time, I developed relationships with new clients in several Midwest states (OH, IN, MO) and retained clients that I had previously worked with under other companies.

Major Projects:

- **Carroll County Wabash River Bridge Replacement, Beam, Longest, and Neff Engineering, Carroll County, IN.** Principal, Project Manager. Dr. Bischoff evaluated and tested several historic archaeology sites and acted as a consultant to the County historical society on a Memorandum of Agreement. Due to the important and undisturbed nature of the sites encountered, the bridge was later relocated away from all resources. (2005)
- **Park Expansion and Surveying of Carroll County Park and Trail Lands, Wabash and Erie Canal Association and City of Delphi, Carroll County, IN.** Principal, Project Manager. Over the course of 10 years, Dr. Bischoff managed all Section 106 and cultural resource management plan writing, park and trail survey and site evaluation, and construction monitoring for the large park and trail (20+ miles) project in central Indiana. He developed a master Management and Interpretive Plan, represented the project with the State of Indiana, and consulted on the construction of a multi-million dollar interpretive center. (1993 - 2005)
- **Wolcott Museum and Grounds, Park and Public Area Development, Maumee, OH.** Principal and Project Manager. This project involved the use of archaeology survey and historic research to enhance knowledge of the park archaeological resources and to aid in overall interpretation of the landscape. (2004-2005)
- **Soo Locks National Landmark Writing and Building Inventory, Detroit District USACE and National Park Service, Sault Ste. Marie, MI.** Principal and Project Manager. Dr. Bischoff was responsible for completing all National Landmark forms, conducting historic research and writing, and compiling the inventory and photography of over 100 buildings and structures at the Soo Locks facility at Sault Ste. Marie. This project was a joint undertaking by USACE, Detroit District and the National Park Service. (2003-2005)

- **Development of the Town of Kansas Archaeological Park, Kansas City (MO).** Dr. Bischoff was part of the City of Kansas City Town of Kansas park development team, acting as the principal for cultural and historical resources. Preliminary work had begun on the plan for developing the park and for the purchasing and renovation of several historic buildings when the project was closed by the City due a reallocation of funds. Much of the completed work involved creating a land-use history for the entire 8-block park as a preliminary step for creating a park master plan. (2003-2004)
- **Missouri River Redundant Trunk Water Line, Black and Veatch and City of Kansas City, Missouri, Kansas City, Missouri.** Principal, Project Manager. Dr. Bischoff performed preliminary work for a NEPA/NRHP EIS, including the evaluation of alternative pipeline locations. Preliminary writing and planning was initiated, but the project was cancelled by the client due to cost issues. (March 2003-April 2004)
- **National Register Nominations for Multiple Lime Kilns Near Delphi, Indiana, Wabash and Erie Canal Association and City, Carroll County, IN.** Principal and Project Manager. Completed paperwork for the nomination of multiple historic 19th Century lime kilns to the National Register of Historic Places. Information used to enhance public interpretation of local archaeological resources, trails, and park lands. (2003-2004)

**Principal and Office Manager, Landmark Environmental Services. Sheridan, Indiana.
Oct. 2001 – June 2003**

Landmark Environmental Services was a Cultural Resource Management company. I was office manager in Michigan and tracked project budgets in excess of \$300,000 dollars. He also bid on projects and marketed to new clients, successfully adding new clients to the company in several states (OH, TN, MO) and retaining relationships with clients I had previously worked with. I acted as part of federal and state agency teams as projects demanded. I also managed NEPA/NRHP compliance, historic structure analysis, rail relocation and industrial site projects, and public parks and museum development. Major clients included the Detroit District Corps of Engineers, the Indiana Department of Transportation, several engineering companies, the City of Erin (TN), the City of Kansas City (MO), the Maumee (OH) Wolcott Museum, the Port Authority of Kansas City (MO), Federal Highways, the Tennessee State Historic Preservation Office, the Carroll County (IN) Wabash and Erie Canal Association, the City of Lafayette (IN), and the National Park Service.

Major Projects:

- **US-231 Bypass Historic Structure Survey, INDOT, Dubois County, IN.** Principal, Project Manager. Dr. Bischoff identified historic landscapes and structures eligible for the National Register and worked with the IN SHPO and INDOT offices on recommendations for route selection based on findings. This large historic structure survey project involved the evaluation of hundreds of historic structures along several alternative routes for the US-231 bypass in southern Indiana, and the defining of a number of original farming landscapes dating back to the early 19th Century German immigration period in the area. This project became one of the first projects in the state to have a historic landscape element, and was used in part by INDOT to define the criteria for how to establish and define a historic landscape. (2002-2003)
- **National Register Nomination of Standing Stone Lime Kilns Near Erin, Project for the State of Tennessee, Nashville, Tennessee.** Principal and Project Manager. Completed paperwork for the nomination of multiple historic 19th Century lime kilns to the National Register of Historic Places. Information used to enhance public interpretation of local archaeological resources, trails, and park lands. (2002-2003)

- **Lafayette, Indiana, Rail Relocation, City of Lafayette, Tippecanoe County, IN.** Principal, Project Manager. Dr. Bischoff was a field director on the original Wabash and Erie Canal Lafayette Wharf (used 1840-1880) mitigation, which took place in 1993-1994. This project involved the uncovering of 9-city blocks of original canal wharfing during the relocation of railroad tracks through Lafayette, Indiana to below street level. Due to the bankruptcy of the original contracting company, Dr. Bischoff was brought back onto the project to manage artifact analysis and report. He directed the analysis of thousands of nineteenth century artifacts and was the primary author on the final report document. (2002-2003)
- **Consultant for the Tennessee State Historic Preservation Office.** I provided consultation services for the development of grant projects in under-represented counties in Tennessee. (2002-2003)
- **Interstate-69 Extension, INDOT, KYTC, and FHA, Southern IN and Northern KY.** Principal. Dr. Bischoff was a member of the technical study cultural team for the extension of I-69 to the Ohio River in Indiana, and into Northern Kentucky. He worked with the Indiana DOT and Federal Highways on the selection of routes that would later be surveyed (2002). To this end, early forms of geographic cultural site modeling were used in the attempt to predict high vs. low cultural site density areas. (2002)
- **Town of Kansas Archaeological Park and Riverfront Access Pedestrian Bridge, City of Kansas City, MO.** Principal, Project Manager. Dr. Bischoff was responsible for all survey, evaluation, and monitoring activities related to this project. He was a team member on the Memorandum Of Agreement development and provided public testimony as needed. The final MOA was among the City, the Port Authority of Kansas City (MO), the Missouri SHPO, and other local parties. (2001-2003)
- **Soo Locks National Register and National Landmark Writing and Building Inventory, Detroit District USACE and National Park Service, Sault Ste. Marie, MI.** Principal and Project Manager. Dr. Bischoff was responsible for completing all National Register and National Landmark forms, conducting historic research and writing, and compiling the inventory and photography of over 100 buildings and structures at the Soo Locks facility at Sault Ste. Marie. This project was a joint undertaking by USACE, Detroit District and the National Park Service. (2001-2003)

**Principal and Office Manager, Hemisphere Field Services. Minneapolis, Minnesota.
June 1999 – Sept. 2001**

Hemisphere Field Services was a Cultural Resource Management company. I was the Michigan office manager, acted as the Principal on several successful bids, and oversaw several project budgets in excess of \$600,000 dollars. I also represented the company with the public and with agencies, and provided public testimony. I managed NEPA/NRHP compliance, wrote compliance documents, conducted historic structure analysis, dealt with hazmat situations, engaged in industrial sites mitigation, and managed public parks and museum development. Clients included the Detroit District Corps of Engineers, the Upper Mississippi Corps of Engineers, the Minnesota Department of Military Affairs, the Minneapolis Community Development Agency, several engineering companies, the City of Kansas City (MO), the Carroll County (IN) Wabash and Erie Canal Association. During this time, I worked with the SHPOs of MI, WI, ND, MN, and IN, was part of the development teams for Environmental Impact Statements in several states, was a co-author on Memorandum of Agreements (MO, IN), and developed marketing strategies in several states for Hemisphere Field Services that resulted in a number of new clients for the company.

Major Projects:

- **Soo Locks National Register and National Landmark Writing and Building Inventory, Detroit District USACE and National Park Service, Sault Ste. Marie, MI.** Principal and Project Manager. Dr. Bischoff was responsible for completing all National Landmark forms, conducting historic research and writing, and compiling the inventory and photography of over 100 buildings and structures at the Soo Locks facility at Sault Ste. Marie. This project was a joint undertaking by USACE, Detroit District and the National Park Service. (2000-2001)
- **Service Contract: USACE, Detroit District, MI.** Principal. Dr. Bischoff worked with USACE, Detroit District for various Michigan, Wisconsin, and Minnesota historic and archaeological projects for this four-year contract. He managed various projects, conducted historic structure surveys and evaluations, worked on HABS/HAER documentation, and coordinated cultural resource surveys, National Landmark evaluations, and environmental impact statements. The largest individual projects completed included the preparation of an EIS for the Fox River Improvements in Wisconsin, National Register building inventory and historical research writing for the Soo Locks in northern Michigan, and HABS/HAER recordation of historic rail yard buildings on COE properties Minnesota. (2000-2001)
- **Guthrie Theater Location Survey and Cultural Sites Evaluation, City of Minneapolis, MN.** Principal, Project Manager. Dr. Bischoff was involved with the creation of a land-use history for the project area, including potential hazmat locations, and the mechanical surveying of several city blocks prior to construction with this large construction project. Dr. Bischoff conducted WEAP hazmat training due to the existence of a collapsed historic train depot, repair house, and yard facilities underneath the site location. (2000-2001)
- **Town of Kansas Archaeological Park and Riverfront Access Pedestrian Bridge, City of Kansas City, MO.** Principal, Project Manager. Dr. Bischoff was responsible for all survey, evaluation, and monitoring activities related to this project. He was a team member on the Memorandum Of Agreement development and provided public testimony as needed. The final MOA was among the City, the Port Authority of Kansas City (MO), the Missouri SHPO, and other local parties. (1999-2001)
- **Survey and Evaluation of Two historic Properties, Minneapolis Community Development Agency, Minneapolis, MN.** Principal and Project Manager. These projects involved re-use of urban areas for the city. I was involved with site survey and evaluation. (2000-2001)
- **Fort Ripley Management Plan, Fort Ripley Army Post, MN.** Principal, Project Manager. Dr. Bischoff was responsible for archaeological testing, historic research, and the development of a management plan for Fort Ripley as part of the Army National Guard's ongoing Section 106 and Section 110 obligations. (2000-2001)
- **Baraboo Badger Army Ammunition Plant Decommissioning, GSA, WI.** Principal, Project Manager. Dr. Bischoff managed all work related to this project, including the enforcement of the project's Memorandum of Agreement. This project involved archaeological testing of several hundred acres, recording of dozens of historic farmsteads, and evaluation of all archaeological sites in preparation for the final dispersal of Army lands to historic groups, tribes, and the State of Wisconsin. (2000-2001)
- **Levee Improvements, Grand Forks, North Dakota, St. Paul District Corps of Engineers.** This project involved archaeological survey and testing of several areas scheduled to have levee improvements within the city of Grand Forks. (2000-2001)

**Project Manager, Michigan State University. East Lansing, Michigan.
1993 – 1999**

I conducted research projects at Michigan State and also managed cultural resource management (CRM) projects in several states, bid on projects, managed project budgets, conducted limited marketing in Indiana and Michigan, and organized public interactions on projects.

Major Projects:

- **Clinton Township Canal Park and Trails Development, Clinton Township, MI.** Principal and Project Manager. Dr. Bischoff conducted several years of archaeological and documentary research in locating park and canal features. This information was later incorporated into trail development and kiosk historical information. (1997-1999)
- State of Indiana Grant for surveying historic transportation-related sites in Central Indiana.
- Three-year analysis and reporting of Southwest artifacts from the Puebla de la Mesa, New Mexico.
- Analysis and reporting of skeletal collection for NAGPRA Compliance, Tippecanoe County Historical Association, West Lafayette, Indiana.
- Analysis of skeletal collection for NAGPRA Compliance, Michigan State University Museum, East Lansing, MI.
- Initial evaluation of the Wabash and Erie Canal unexpected discovery: The Lafayette (IN) Rail Relocation Project and HTNB engineering. I was the original project manager for the City until contract negotiations were solidified between the principals and Great Lakes Research (Williamston, MI), at which time I became a crew chief and project historian. I produced a land-use history for the project, as well as historical background. This project involved WEAP hazmat training due to the existence historic fuel oil plants and other contaminants.