ARCHAEOLOGICAL/HISTORICAL SURVEY OF THE SAN ONOFRE TO MISSION 230 KV TRANSMISSION LINE

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TABLE OF CONTENTS

Section	<u>Title</u>	Page
	FORWARD	v
1.0	INTRODUCTION	1
1.1	Project Characteristics	1
1.2	Archaeological/Historical Investigation Characteristics	15
2.0	PROJECT DESCRIPTION	17
2.1	Project Location	17
2.2	Project Setting	17
3.0	BACKGROUND DATA	19
3.1	Archaeological Overview	19
3.1.1	San Dieguito Cultural Pattern	22
3.1.2	La Jolla Cultural Pattern	23
3.1.3	Late Milling Cultural Pattern	23
3.2	Historical/Ethnohistoric Overview	24
3.2.1	Protohistoric-Spanish Period, 1769-1821	24
3.2.2	Mexican Period, 1821-1848	34
3.2.3	Early Anglo Period, 1848-1884	37
3.2.4	Anglo Community Development, 1884-1920	38
3.2.5	Recent Historical Impacts, 1920 to Present	41
3.2.6	Origins of Area Place Names	43
3.3	Record Search Data	47
3.3.1	San Diego State University and San Diego Museum of Man	48
3.3.2	University of California, Riverside/ Los Angeles	48

TABLE OF CONTENTS (Cont.)

Section	<u>Title</u>	Page
3.3.3	National Register/California Landmarks	48
4.0	TECHNIQUES OF ARCHAEOLOGICAL INVESTIGATION	50
4.1	Field Survey	50
4.2	Photographic Record	51
4.3	Survey Limitations	51
5.0	FIELD INVESTIGATION RESULTS	52
5.1	Survey Results	52
5.2	Description of Archaeological Resources	52
6.0	ARCHAEOLOGICAL RESOURCE ANALYSIS AND SIGNIFICANCE	65
6.1	Resource Analysis	65
6.2	Archaeological Significance	66
6.2.1	Explanation or Documentation of Historic Events or Movements	68
6.2.2	Native American Ethnic Values	68
6.2.3	Native American Spiritual Values	69
6.2.4	Direct Link or Bond with the Past	69
6.2.5	Sites as Sources of Potentially Unique Scientific Data	70
6.3	National Register Evaluation	71
6.3.1	Site SDi-4538	72
6.3.2	Site W-120	72
6.4	Summary of Significance	73
7.0	POTENTIAL ADVERSE IMPACTS	74
7.1	Direct Adverse Impacts	74
7.1.1	Historic Resources	74
7.1.2	Prehistoric Resources	74

TABLE OF CONTENTS (Cont.)

Section	Title	Page
8.0	MITIGATION MEASURES	76
9.0	CONCLUSIONS	79
	REFERENCES	80
	List of Figures	
Figure	<u>Title</u>	Page
1	Regional Locale of the Project Area	2
2-1	Current Investigation and Archaeological Sites Encountered Within SDG&E Right-Of- Way) (San Onofre Bluff 7.5' USGS Quadrangle)	3
2-2	Current Investigation Within SDG&E Right- Of-Way (No Archaeological Sites Encountered) (Las Pulgas 7.5' USGS Quadrangles)	4
2-3	Current Investigation Within SDG&E Right-Of- Way (No Archaeological Sites Encountered) (Las Pulgas Canyon 7.5' USGS Quadrangles)	5
2-4	Current Investigation and Archaeological Sites Encountered Within SDG&E Right-Of-Way (Oceanside and San Luis Rey 7.5' USGS Quadrangles)	6
2-5	Current Investigation and Archaeological Sites Encountered Within SDG&E Right-Of-Way (San Luis Rey 7.5' USGS Quadrangles)	7
2-6	Current Investigation and Archaeological Sites Encountered Within SDG&E Right-Of-Way (Encinitas and Rancho Santa Fe 7.5' USGS Quadrangles)	8
2-7	Current Investigation and Archaeological Sites Encountered Within SDG&E Right-Of-Way (Rancho Santa Fe 7.5' USGS Quadrangle)	9
2-8	Current Investigation and Archaeological Sites Encountered Within SDG&E Right-Of-Way (Rancho Santa Fe and Del Mar 7.5' USGS Quadrangles)	10

TABLE OF CONTENTS

List of Figures (Cont.)

Figure	Title	Page
2-9	Current Investigation and Archaeological Sites Encountered Within SDG&E Right-Of-Way (Del Mar and La Jolla 7.5' USGS Quadrangles)	11
2-10	Current Investigation and Archaeological Resources Encountered Within SDG&E Right-Of-Way (La Jolla 7.5' USGS Quadrangle)	12
3	Native Settlements in San Diego County and Linguistic Boundaries	32
	List of Tables	
Table	<u>Title</u>	Page
1	Archaeological Sites Encountered During Field Investigations of the Project Area	53
	Attachments	
Number	<u>Title</u>	Page
1	Resumes	R-1
2	Persons Consulted	PC-1
3	Cultural History	CH-1
4	Ethnobotanical Data	EB-1
5	Record Search Data	RS-1

FOREWARD

This report has been prepared in response to a request by the Nuclear Regulatory Commission (NRC letter dated 10/2/78, Docket No. 50-361 & 50-362) for additional archaeological/historical information regarding proposed San Onofre 2&3 (SONGS) transmission lines. The information contained herein incorporates results of earlier reports (Environmental Data Statement submitted to California Public Utilities Commission, Fall 1978) and is intended as a complete response regarding the archaeological/historical matters on the SONGS to Mission line.

ARCHAEOLOGICAL/HISTORICAL SURVEY OF THE SAN ONOFRE TO MISSION 230 KV TRANSMISSION LINE

1.0 INTRODUCTION

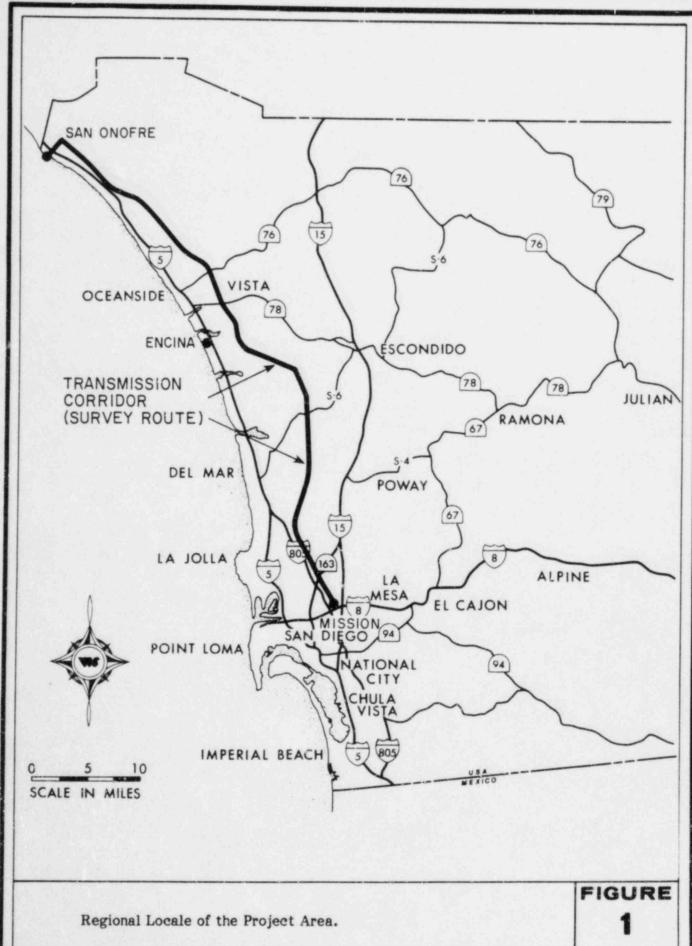
This report details and discusses an intensive archaeological/historical field survey conducted for San Diego Gas & Electric Company (SDG&E) within an existing 230 KV transmission line right-of-way (R/W) within San Diego County.

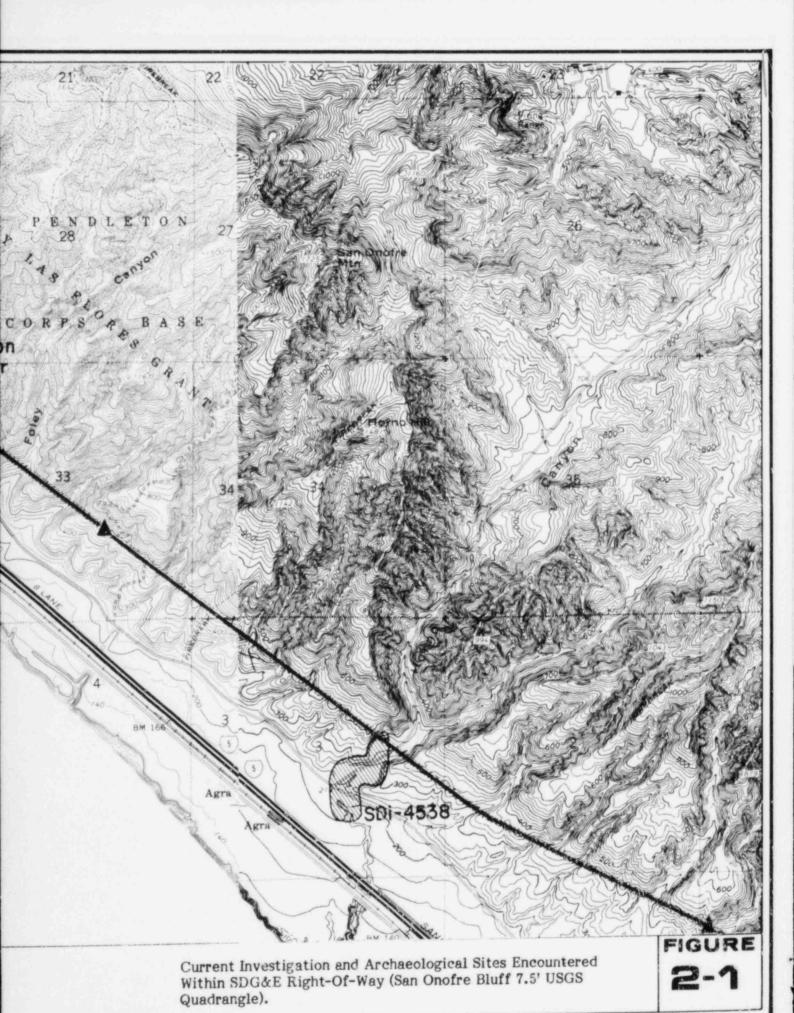
The transmission line corridor starts from the San Onofre Nuclear Generating Station and terminates at the Mission Substation (Figure 1). The survey was conducted in order to assess the location and significance of cultural resources within the San Onofre to Mission 230 KV transmission line right-of-way.

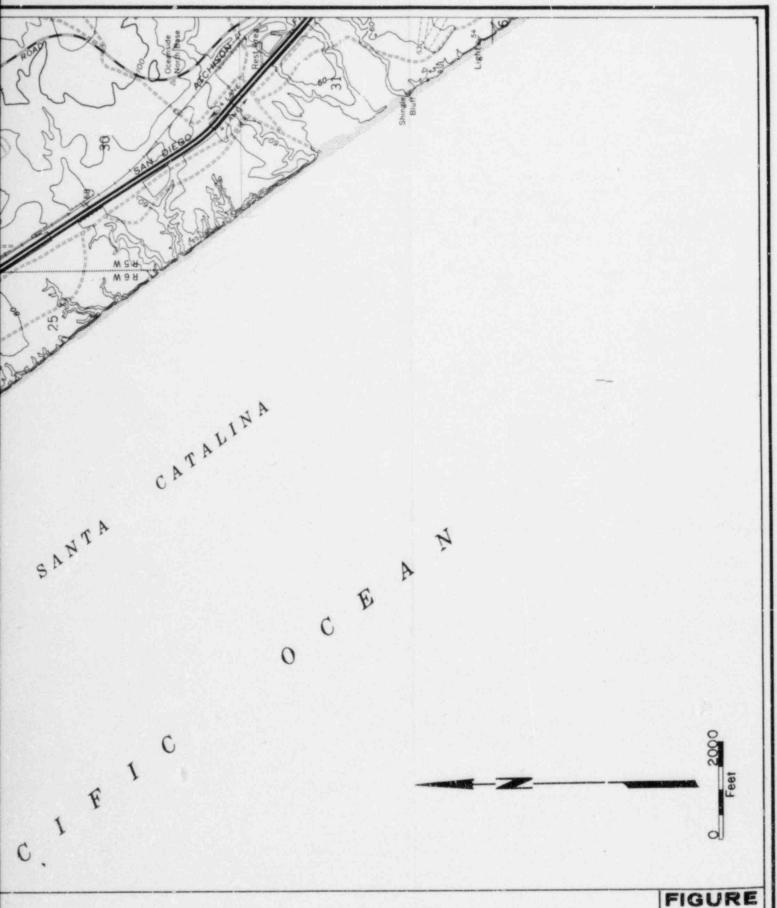
1.1 Project Characteristics

Currently, a combination of double circuit steel lattice towers, steel poles, and wooden H-frame towers (196 structures in all) occupies the right-of-way to be used for the San Onofre to Mission transmission line. The R/W varies in width from 100 to 200 feet. One 138 KV circuit, which connects San Onofre with SDG&E's San Luis Rey Substation, is now supported by these existing structures. Also, the San Onofre-Mission #1 Circuit is supported on the remainder of the existing towers from Encina Hub to Mission Substation. For much of the R/W, this circuit is carried by lattice steel towers designed to accommodate two circuits. Thus, for about 80 percent of the San Onofre to Mission R/W, one vacant position exists on the lattice towers.

Approaching the Oceanside Airport from the north, the existing 138 KV circuit transitions from the steel lattice towers to lower wooden H-frame structures for a distance of about one mile (Figure 2-4). The reason for this transition is to reduce the height of the circuit and the structures in the vicinity of the Oceanside Airport. South





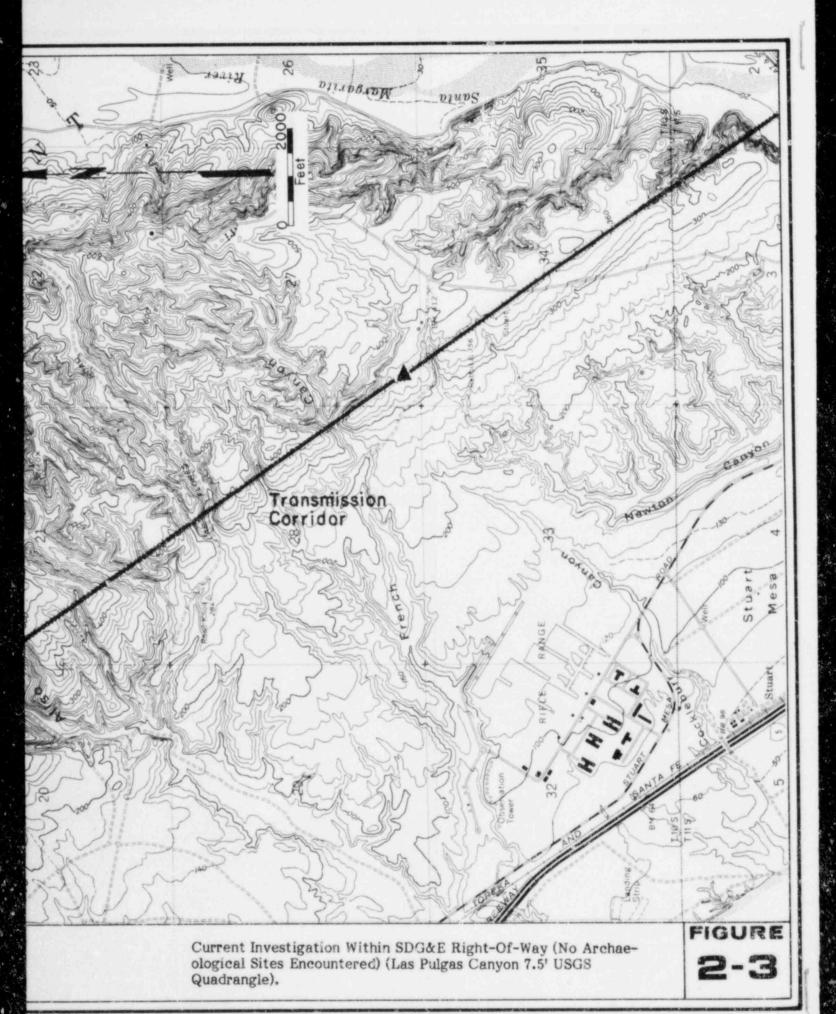


Current Investigation Within SDG&E Right-Of-Way (No Archaeological Sites Encountered) (Las Pulgas 7.5' USGS Quadrangle).

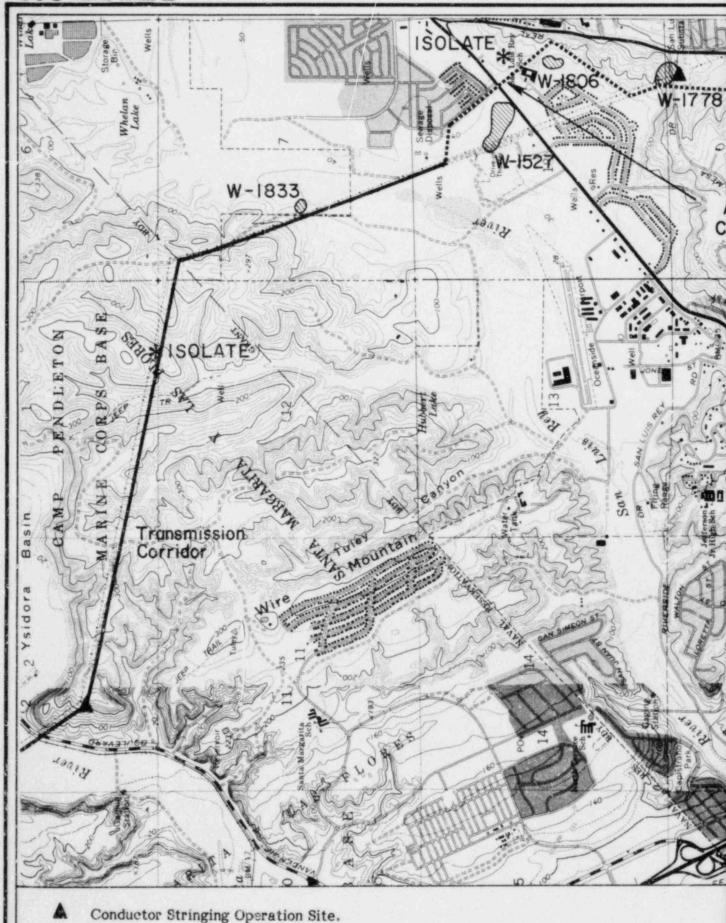
2-2



▲ Conductor Stringing Operation Site.



Previously Surveyed.

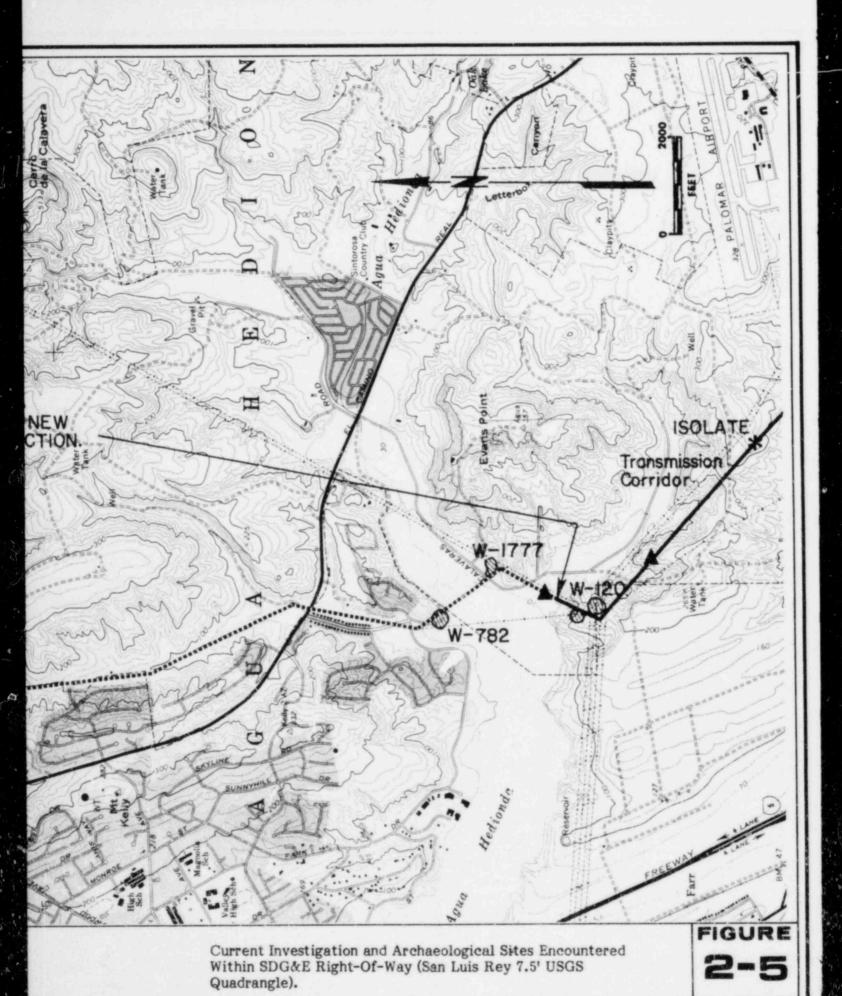


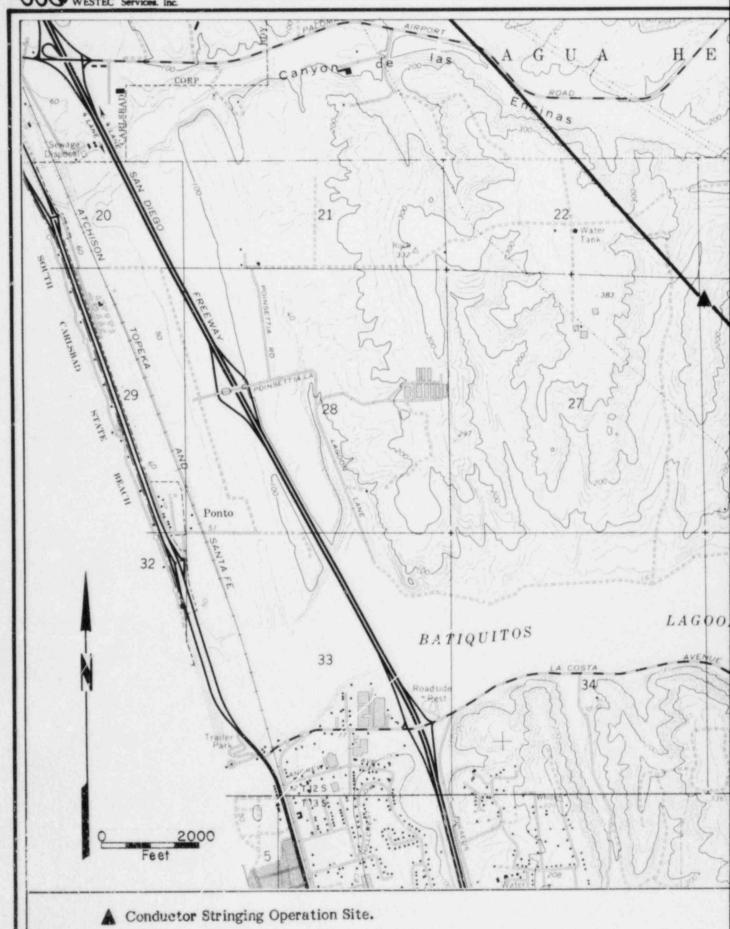


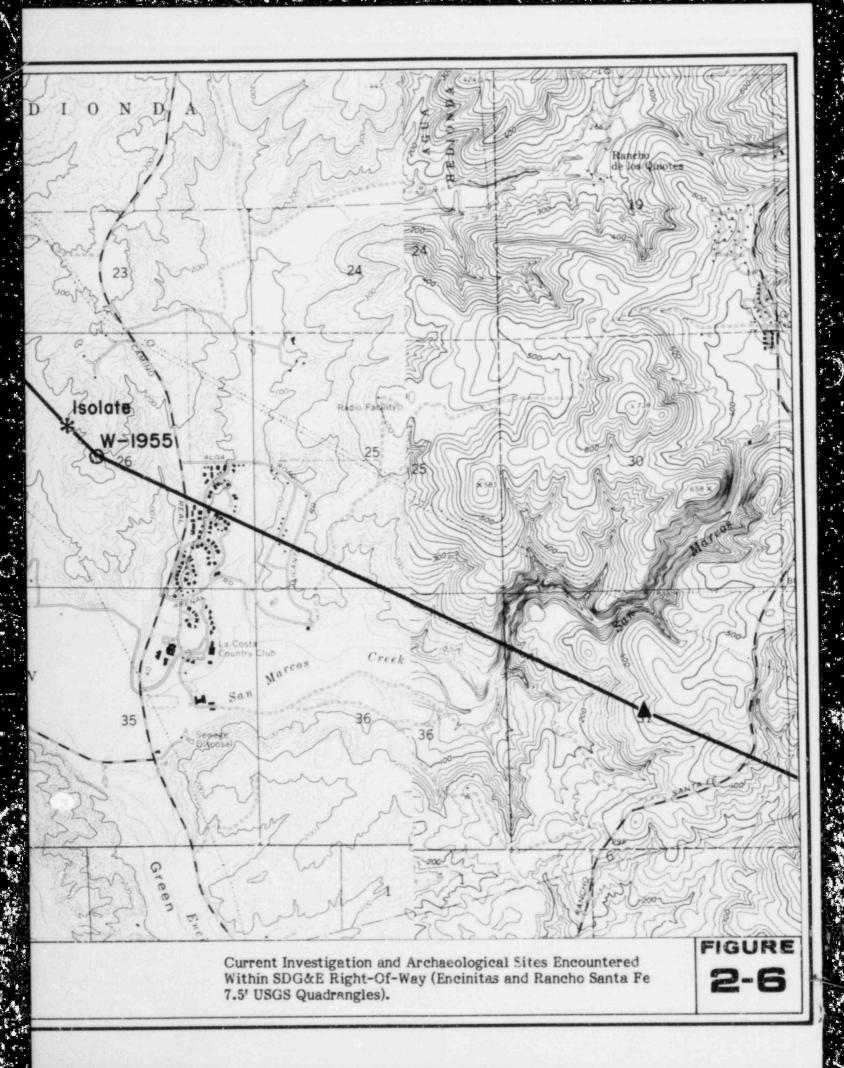


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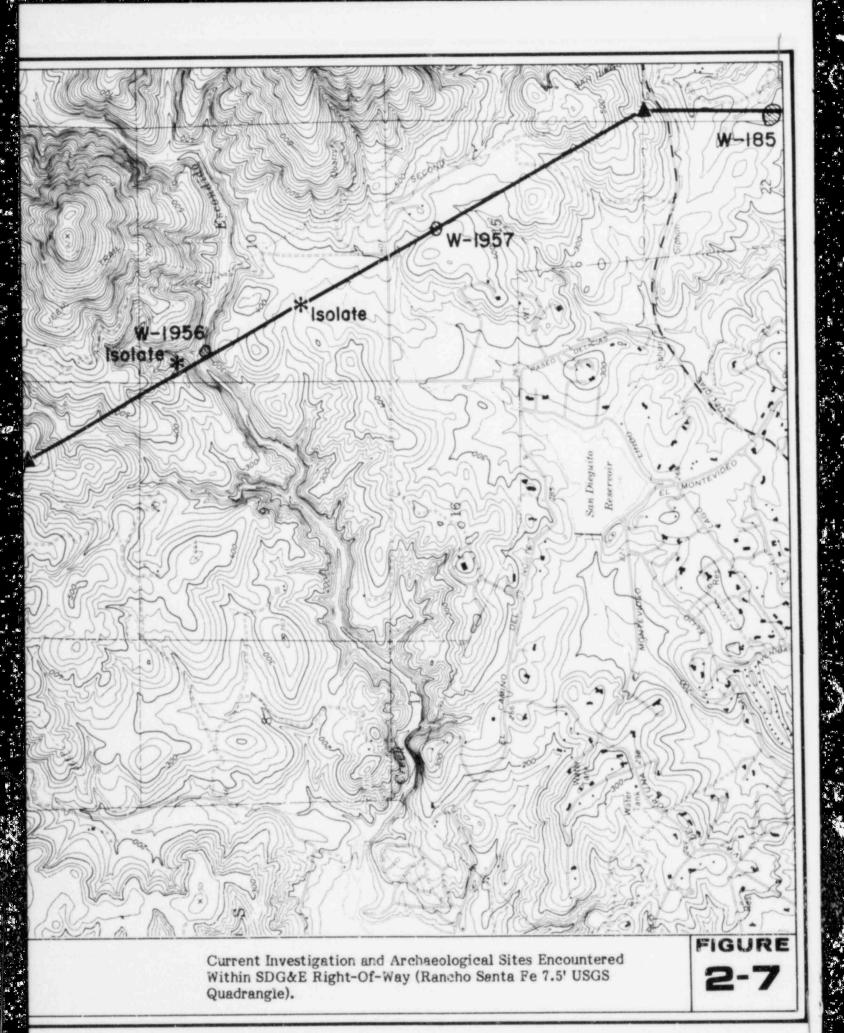
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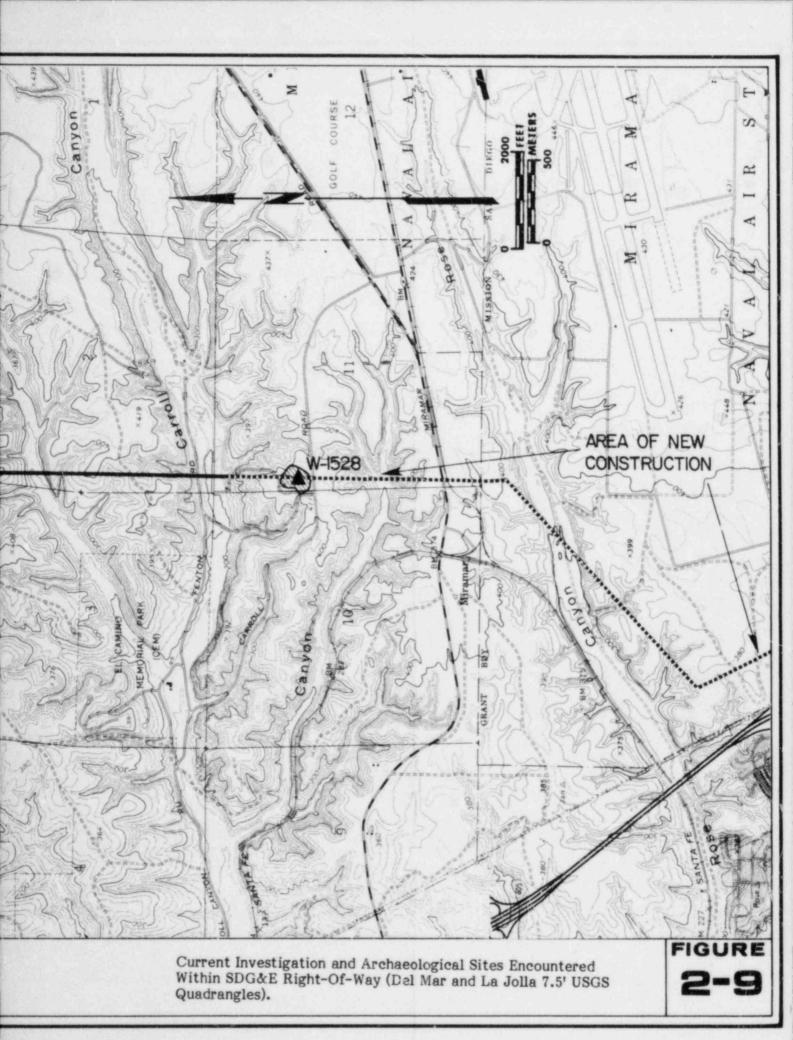


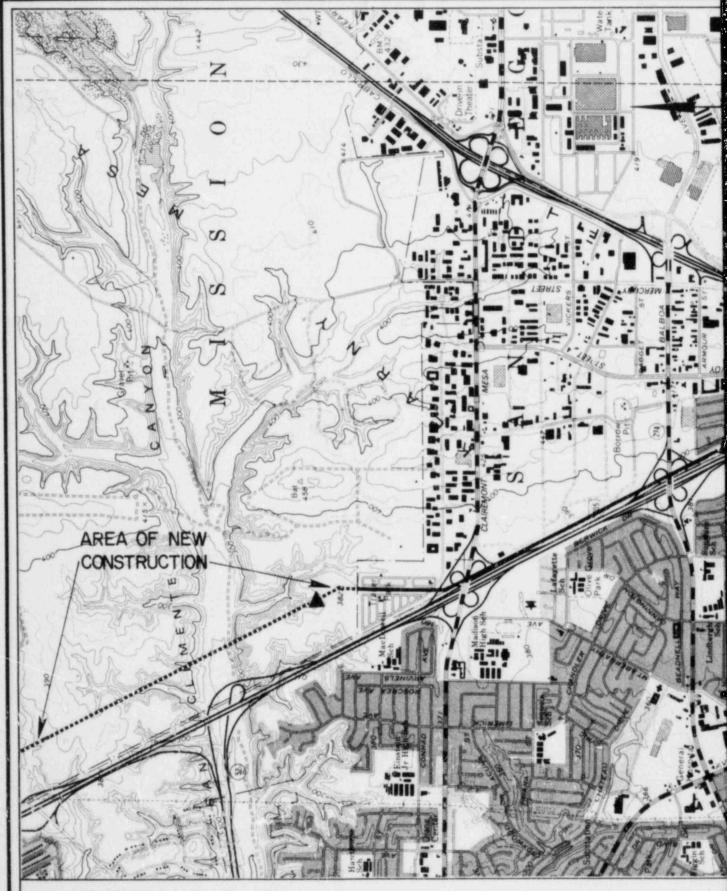




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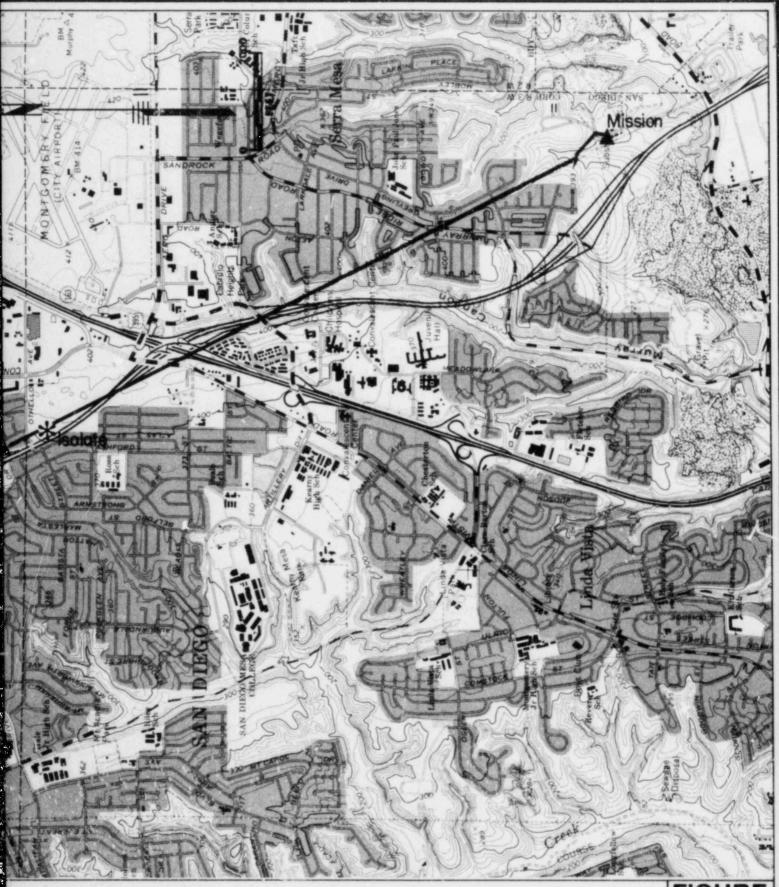
Previously Surveyed.





▲ Conductor Stringing Operation Site.

..... Previously Surveyed.



Current Investigation and Archaeological Resources Encountered Within SDG&E Right-Of-Way (La Jolla 7.5' USGS Quadrangle).

FIGURE 2-10

of the airport area, the circuit again transitions to a taller, lattice steel tower, which carries the circuit into the San Luis Rey Substation.

South of the substation, the existing 138 KV circuit continues southward to the Encina Hub, and is supported throughout this distance (5.6 miles) by wooden H-frame towers. These wooden towers are adjacent and parallel to the existing San Onofre-Mission #1 230 KV and planned San Onofre-Encina 230 KV circuits (Figures 2-4 and 2-5).

At the Encina Hub, the 138 KV circuit, which is supported to this point by the wooden structures mentioned above, transitions to steel lattice towers which carry the circuit westward into the Encina substation. As with the segment of the R/W north of the Oceanside Airport, the steel lattice towers which carry the existing 230 KV circuit from the Encina Hub to the vicinity of Miramar Naval Air Station (NAS) contain one vacant position.

Just north of Miramar Road in the City of San Diego, the existing 230 KV circuit again transitions to lower wooden H-frame towers. These wooden towers support the existing circuit for a distance of approximately 4.2 miles, and have been constructed at the lower height to accommodate the Navy's operational requirements at NAS Miramar (Figures 2-9 and 2-10).

South of Miramar, the existing circuit again transitions to the higher steel lattice towers which support the circuit to its terminus at SDG&E's Mission substation, located just northeast of the point where I-805 crosses Friars Road in Mission Valley.

The proposed project calls for the addition of one circuit throughout the entire 53-mile length of the San Onofre to Mission right-of-way (Figures 2-1 through 2-10). Where vacant positions currently exist on the lattice towers, the new circuit would merely be pulled into place, thus occupying the second position on the lattice towers. This portion of the project would involve roughly 42.1 miles of the 52.9-mile R/W, the remaining 10.8 miles consisting of the following segments which would involve construction:

- 1. East of Oceanside Airport 1.0 miles
- 2. San Luis Rey substation to Encina Hub 5.6 miles
- 3. West of NAS Miramar 4.2 miles

Proposed construction within these segments of the San Onofre-Mission R/W would result in the placement of 42 new structures and would involve the following activities:

1. East of Oceanside Airport

Installation of new wooden structures within a one-mile segment of the R/W to provide for lower structures in the vicinity of the airport. These structures will be similar to the wooden structures which support the existing 230 KV circuit along this segment. The lower profile near the airport was requested by the City of Oceanside.

2. San Luis Rey Substation to Encina Hub

Replacement of existing 138 KV wooden structures with double circuit 230 KV steel towers within a 5.6-mile segment of the R/W parallel to and contiguous with an existing double circuit 230 KV steel tower line between San Luis Rey Substation and Encina Hub (the point at which existing 138 and 230 KV lines turn west toward the Encina Power Plant).

3. West of Miramar Naval Air Station

Installation of new wooden structures adjacent to existing wooden structures on a 3.2-mile segment of the route west of the Miramar Naval Air Station to provide for lower structures in the vicinity of the Naval Air facility. The lower wooden structures are necessary to accmmodate the Navy's operational requirements.

Specific work activities involved in the project include the following:

- Excavation and placement of footings for 42 new structures. These include
 the wooden structures near Oceanside Airport, the steel lattice towers
 between the San Luis Rey Substation and the Encina Hub, and the wooden
 structure towers west of NAS Miramar.
- 2. Hauling, assembly, and erection of wooden structures and steel towers.
- 3. Hauling and installation of conductor and overhead groundwire assemblies.
- 4. Conductor stringing operations.

In summary, the proposed project will consist of four interrelated activities:

- The addition of one circuit to the existing vacant position on existing double circuit steel towers from San Onofre to the Mission Substation (42.1 miles of the 52.9-mile R/W).
- The installation of new wooden structures for a 1.0-mile segment of the R/W east of the Oceanside Airport.
- 3. The installation of 5.6 miles of steel attice towers between the San Luis Rey Substation and the Encina Hub.
- 4. The installation of 4.2 miles of wooden H-frame towers west of the Miramar Naval Air Station.

1.2 Archaeological/Historical Investigation Characteristics

The current investigation and detailed report includes an intensive field survey of the proposed project area by a qualified archaeological staff and consultant (resumes are presented as Attachment 1 to this report). The field survey was conducted within the existing transmission line right-of-way from the San Onofre Nuclear Generating Station to the San Luis Rey Substation. From the Encina Hub, the survey commenced south within the subject right-of-way to Carroll Canyon and continued from Clairemont Mesa Boulevard until termination of the right-of-way within the Mission Substation (Figures 2-1 through 2-10). Information from other recent field investigations which located archaeological resources within those portions of the existing San Onofre to Mission 230 KV transmission line right-of-way scheduled for new construction (WESTEC 1978a; WESTEC 1978b) has been incorporated into the current investigation (Figures 2-4, 2-5, 2-9 and 2-10).

The investigative techniques employed in this study conform with the guidelines and requirements of the Nuclear Regulatory Commission and the Public Utilities Commission.

Prior to the commencement of fieldwork, a thorough review of pertinent literature was conducted, including, but not restricted to: previous fieldwork reports for the area; historical documents relating to prehistoric sites; and a compilation of known sites in the area (Section 3.0).

The Native American Heritage Council and all appropriate area representatives were contacted for their advice or comments regarding this project (Attachment 2). No responses have been received at this time (no negative comments are anticipated). Any responses to these requests and consideration of these resources in light of the proposed project will be appended to this report (and Attachment 2) when available.

2.0 PROJECT DESCRIPTION

2.1 Project Location

The route of the existing right-of-way involved in this project is shown on Figures 2-1 through 2-10.

The 52.9-mile route extends from the San Onofre Nuclear Generating Station in San Diego County, through Camp Pendleton, areas of unincorporated San Diego County, and portions of the Cities of Oceanside, Carlsbad, and San Diego, terminating at the San Diego Gas & Electric Company's Mission Substation northeast of the crossing of Interstate Highway 805 (I-805) and Friars Road in Mission Valley.

2.2 Project Setting

That portion of the San Onofre to Mission 230 KV circuit right-of-way subjected to current investigation is comprised of two study areas. The first area originates at the San Onofre Nuclear Generating Station in extreme northwest San Diego County. The subject right-of-way extends southward along steep canyons and drainages within Camp Pendleton towards the San Luis Rey River floodplain. As the corridor continues southeast, it is surrounded by steeply sloping hills and canyons. The corridor extends up a steep canyon to the San Luis Rey Substation which is situated on an irregular mesa top. From this point to its termination at the Encina Hub, the right-of-way continues to traverse canyon/knoll systems although it generally avoids the steeper slopes.

The second area of reconnaissance commences from the Encina Hub and continues to the south one and one-half miles, finally connecting with the Encina Hub. The subject right-of-way then turns southeast and continues to the south past Batiquitos Lagoon, over Escondido Creek, San Dieguito River and through Los Perasquitos to Carroll Canyon. From Carroll Canyon, the corridor traverses the broad Miramar Mesa and San Clemente Canyon to its termination in the City of San Diego at the Mission Substation.

Past grazing and farming activities have apparently removed much of the native vegetation which would have been present within the study area. Plant associations noted on or near the existing right-of-way included relatively small oak woodland or woodland-grass communities in nearby canyons, consisting of coast live oak (Quercus agrifolia) and associated undergrowth.

Sporadic stands of chaparral-type associations are present on slopes above the right-of-way, and in other areas where native vegetation has not been cleared or is currently undergoing autosuccessional replacement. Plants within this community include dense, stiff branched scherophyllous scrubs such as chamise (Adenostoma fasciculatum), blue lilac (Ceanothus tomentosus), warty-stem ceanothus (Ceanothus verrucosus), black sage (Salvia mellifera), toyon (Heteromeles arbutifolia), scrub oak (Quercus dumosa), yucca (Yucca schidigera), deerweed (Lotus scoparius), and yerba santa (Eriodictyon crassifolium). Poison oak (Toxicodendron diversilobum), sumac (Rhus laurina), and sagebrush (Artemisia californica) were also noted. A listing of these plants and others in the immediate vicinity with their known use by native Americans is provided in Attachment 4, Table EB-1.

The geological setting varies from the predominant undivided sandstone formations (both Torrey and Del Mar sands and Rose Canyon shale) to marine and non-marine terrace deposits on the mesa tops and knolls. Canyon floors are silted with alluvium and slope wash sediments. Soils within the project area vary from well-drained sandy loams to gravelly clay loams.

3.0 BACKGROUND DATA

3.1 Archaeological Overview

The coastal region of southern California has long been the subject of archaeological investigation. Stretching back at least to the early fieldwork of Malcolm Rogers in the 1920s, numerous archaeological researchers have collected a vast array of information and data pertinent to reconstructing past lifeways of native Californians (Rogers 1929).

Past field investigations along coastal San Diego County have been sponsored by institutions such as the San Diego Museum of Man, San Diego State University, University of California at Los Angeles, University of San Diego, and Scripps Institution of Oceanography. Implementation of the California Environmental Quality Act has brought the private sector into archaeological research through predevelopment surveys and mitigation or salvage projects.

The interpretation and synthesis of over 50 years of coastal archaeological research would entail the preparation of several lengthy papers or monographs. Thus, for the purpose of this analysis, a brief overview of previous fieldwork is provided to establish a broad, regional framework within which the archaeological sites along the proposed San Onofre to Mission 230 KV right-of-way can be viewed. The reader is referred to the various sources noted throughout this discussion and in Attachment 3. Regionally specific data are presented in this subsection to supplement the cultural history discussed in Attachment 3 and ethnobotanical data in Attachment 4.

Archaeological studies have been conducted adjacent to the northern San Onofre to San Luis Rey Substation right-of-way within Camp Pendleton. In his survey report Charles Bull (1975:39-41) reported an extremely large site (SDi-4538) with a midden depth of over one meter (3 feet). Dr. Paul H. Ezell removed fragments of human bone from SDi-4538. The transmission corridor below San Onofre cuts across the site known as the Horno Canyon archaeological site.

As shown in Figure 2 of the Bull report (1975:3), his survey area included small segments of the SDG&E corridor near Horno Creek and further to the south at Las Flores Creek. For the most part, the transmission corridor across Camp Pendleton has not been previously field surveyed, although one major study (Welch 1977) has been conducted north and east of the project area, and several smaller studies have been completed along the San Luis Rey River (Carrico 1974, 1977; Drover 1977; Kaldenberg 1973), no major excavation or survey oriented toward testing hypotheses or generating significant data have been conducted in the area. A recent testing program at a site (SDi-5130) approximately 2000 feet west of the corridor near the Oceanside Airport revealed an extensive shell midden site that may have comprised a major settlement (Carrico 1975). Studies throughout the general area (Meighan 1954:215-227; McCown 1955; Warren 1964) have added significant data at the survey level, but have not possessed the type of data base which generates or warrants the conclusions necessary to formulate an adequate "cultural history" of the area.

Fieldwork and research along the coast between the San Luis Rey Substation and Mission Substation indicate a predominance of camp middens and campsites containing La Jolla cultural components within the coastal littoral (Rogers 1929:454-67, 1966; Moriarty et al. 1959). The relative sparseness of Paleo-Indian San Dieguito sites is considered an indication that this ill-defined culture preferred and utilized inland valleys and desert regions (Rogers 1966:1-140; 1929:454-67; Moriarty 1969:1-8).

Taken as a whole, Early Milling sites in the coastal littoral in and around the corridor comprise an increasingly better-defined cultural pattern encompssing settlement and land use factors, special activity areas, and human movement across the land. Many of our assumptions about La Jolla peoples have not been thoroughly validated through rigorously applied, empirical archaeological research. However, competent excavors and researchers (Kaldenberg and Ezell 1974; Moriarty 1959; Harding 1951; Rogers 1929, 1945, 1966) have produced at least chronological and cultural parameters,

and in so doing have developed a broad depiction of La Jolla peoples in the San Diego coastal region.

The cultural picture that emerges is one of a largely nomadic people who seasonally inhabited the low mesas and knolls overlooking costal lagoons and bays, beach fronts, and inland slopes. Drawn to the estuaries and ocean bluffs by an environment teeming with edible life forms, the La Jollans evidently exploited the ocean and estuaries as a segment of a seasonal round (Warren 1954:4-5).

If the archaeological record is correct in categorizing La Jollan sites within the study area, it would appear that the La Jolla peoples operated from seasonal base camps located along the ocean front (Shumway et al. 1959; Rogers 1929) or along bayestuary channles (May 1973; Carrico 1976b; Kaldenberg and Ezell 1974; Warren et al. 1961; Werren 1964). These seasonal base camps are probably the result of a people who had developed a "Central-Based Wandering" community pattern. As defined by Beardsley and others (1956:138), a Central-Based Wandering people is one "that spends part of each year wandering and the rest at a settlement or 'central base,' to which it may or may not consistently return in subsequent years."

The cultural remains left at seasonal base camps of Central-Based Wanderers should differ significantly from those left at limited-use areas or temporary campsites, by virtue of variable techno-economic activities, intensity of use, ecological setting, and settlement systematics. J.N. Hill (1974:91) has suggested that main village sites or main base camps should possess relatively greater numbers of certain attributes or artifacts when compared with campsites or special use areas. Using the model developed by Hill, it can be seen that certain large La Jollan sites that have been labelled as habitation sites or villages tend to have more structures or features, increased incidence of burials, evidence of multiple sex/age utilization, more hearths, greater variety of artifacts, evidence of tool manufacture and sharpening, more ornaments and decorative artifacts, evidence of a wider variety of floral and faunal

remains, location on or near ecologicaledge situations (ecotones), location strategically near a wide variety of economical, cultural and technological resources, and, finally, location near major drainages or sources of water. In fact, excavations along the southern San Diego County coast have supported Hill's contention of site differentiation and made it possible to categorize archaeological sites as limited-use areas, campsites and village or base campsites. Sites such as Scripps Estates I:SDi-525 (Moriarty et al. 1959; Shumway et al. 1961), Torrey Pines Mesa:W-340/W-1075/W-1076 (Gross 1970; Carrico 1977), Batiquitos Lagoon:SDi-603 (Crabtree et al. 1963:323-439), the Sorrento Valley site (Harding 1951) and the Fox Point site (Smith 1973) probably represent major La Jollan base camps or proto-villages. Other sites along coastal San Diego County probably represent limited-use areas where the La Jolla people sought to exploit the rich and variable environment surrounding them.

3.1.1 San Dieguito Cultural Pattern

The oldest sites (San Dieguito Tradition circa 12,000 to 8000 years ago) are generally located on knoll and mesa tops well above present-day water sources. San Dieguito sites usually reflect temporary camping or sporadic resource exploitation by high nomadic hunters. Typical cultural debris on San Dieguito sites include flaking debris, large chopping scraping tools and blades. Cultural elements not usually associated with San Dieguito sites include milling equipment, shell middens, ceramics, crematons and small projectile points.

Thus far, no village type sites associated with the San Dieguito culture have been excavated or reported within the general area. Similarly, no San Dieguito human burials have been found in San Diego County. A majority of San Dieguito sites are relatively small stone tool scatters or remnants of stone workshops where tools were manufactured.

3.1.2 La Jolla Cultural Pattern

Within the study area, La Jollan sites (circa 7000 to 3000 years ago) are the most frequently occurring type of site. These sites are most often situated on lower terraces and hills above major water courses. The greatest density of La Jollan sites occurs on the margins of lagoons and estuaries adjacent to the San Diego coast. As one goes inland to the coastal foothills and valleys, sites associated with the La Jolla Pattern decrease.

Typically, La Jollan sites consist of medium to large activity areas including shellsish processing camps, occupation areas, stone tool workshops and milling sites. Extensive camps may include human burials, stone tools, faunal remains, fire hearths and possible living floors. Less intensively occupied sites may be comprised of a few scattered stone tools or remnants of sporadic camping.

3.1.3 Late Milling Cultural Pattern

The Late Milling Archaic Tradition encompasses two different linguistic groups; the Shoshonean-speaking Luiseno and the Yuman-speaking Kumeyaay-Northern Dieguero. Although different linguistically, these people shared similar material cultural traits.

Late Milling sites are often situated near present-day water sources at much lower elevations than the sites of either the San Dieguito or La Jolla patterns. Generally, Late Milling sites vary from single isolated artifacts to entire village (rancheria) sites. Preliminary data indicates that most Late Milling villages were situated at the far eastern edges of lagoons or further inland along major water confluences.

Late Milling sites frequently contain ceramics, projectile points, shell middens, milling equipment, stone tools and stone tool manufacturing debris. Several sites along the coastal zone of San Diego have contained cremations and other objects of sacred value.

3.2 Historical/Ethnohistoric Overview

3.2.1 Protohistoric-Spanish Period, 1769-1821

The arrival of Spanish explorers and missionaries in July 1769 began the slow process of changing southern California from land controlled by a prehistoric society to a land dominated by European society and technology. The years 1769-1821 represent the fascinating transition period wherein the use of archaeological data and historical data must be combined to depict the cultural history of the area.

The following dicussion is necessarily brief because of the limited study area and because a thorough documentation of this period would require extensive use of original Spanish papers and documents. Rather than using a chronological approach, the discussion follows a geographic framework based on specific points of early Spanishnative contact and/or lands that passed from native ownership to Spanish ownership.

Mission Valley

A thorough ethnohistoric review of Mission Valley is well beyond the scope of this paper. Several major sources clearly document the extensive native American settlement and land use throughout Mission Valley although no major settlements or ethnohistorically known villages are within or adjacent to the study area.

Primary ethnohistoric sources indicate a large <u>rancheria</u>, Cosoy, probably estended from the foot of Presidio Hill and eastward up Mission Valley to at least the area west of the Stardust Country Club (Englehardt 1920; Geiger 1955, 1970). A recent manuscript has more fully documented the village of Cosoy and provides several sources for its location (Ezell and Ezell 1973).

Kearny Mesa

The dearth of ethnohistoric and historic data about Kearny Mesa is probably a good indicator of infrequent use or travels across this largely uninviting flatland. Although native Americans no doubt exploited the area, their foraging left scant trace. No known villages or major native settlements are recorded for this area.

Rose Canyon

The Rose Canyon area near the project site has not played a significant role in San Diego County history, although historically-important persons have been associated with the canyon. On July 15, 1769 Spanish explorer Gaspar de Portola passed through Rose Canyon on his way to Monterey, California. Portola and others in his party remarked that Rose Canyon was relatively treeless although small oaks, chaparral and a type of wild rose were abun ant (Teggart 1911; Fages 1972; Palou 1926). Portola's trail, later called El Camino Real, followed what is now the Santa Fe railroad route through Rose Canyon, across Miramar Mesa and into Sorrento Canyon. Portola and the other diarists did not note any Indians near the present project site, although they reported villages at the present site of the Pacific Drive-In (Rinconada) and, later, in Sorrento Valley (Ystagua). These two villages appear extensively in later mission records (Merriam 1968).

Almost one hundred years after Portola's visit to the Rose Canyon, which he had named Cañon de San Diego, Louis Rose, a prominent San Diego pioneer, established a rancho in the canyon and left his name on the area. Rose operated a tannery and thriving farm a few miles west of the project site and made extensive use of nearby oaks and lumber both as timber and as firewood (Hayes 1929:127-130).

Another large settlement was situated east of the study area in and around the Mission San Diego. Known as Nipaguay, this <u>rancheria</u> was occupied throughout the Spanish period and well into the Mexican era. Population figures and general references indicate that Nipaguay was one of the larger villages along the San Diego River drainage (Merriam 1968; Englehardt 1920).

Los Peñasquitos

On July 16, 1764 a Spanish exploring party led by Gaspar de Portola crossed the desolate Miramar Mesa and entered the yawning lush Soledad-Sorrento

Valley west of the study area. Soledad Valley is the terminus for Los Perasquitos Creek and the Sorrento Canyon drainage.

As the exploring party approached Sorrento Valley, Crespi, a member of the party, noted that at first the valley looked "to us to be nothing less than a cultivated cornfield or farm, on account of its mass of verdue (Bolton 1926:111)." Adjacent to the valley on a small knoll the men saw a Kumeyaay village with six straw houses. After ascertaining that the natives were not only friendly but joyous at the arrival of the Spaniards, Portola and his party descended into the valley where they noted that the rich verdure was made up of large-leafed wild calabashes and thickets of Castilian roses.

While the men and animals were resting Portola made a gesture of good faith toward the Indians.

"We stopped a little so that the commander might distribute some beads among the heathen of this village, and then continued on our way to the north side of the valley (Palou: 2:111)."

In return for the generosity which the Spaniards had shown, the natives offered a guide to the explorers. As the group left the valley with the Indian guide leading the way to a good camp site, Crespi reported that he saw two well-made pots of clay sitting in nearby pools of water (Palou 1926:2:111).

The village in Sorrento Valley was to have repeated contact with the Spaniards in the ensuing years. The Kumeyaay name for this village was Hispanisized as Ystagua or Estagua although, as was the case with many village names, the native word was often replaced with a geographical place name. In the case of Ystagua the name Rancheria de la Nuestra Senora de la Soledad was frequently used in the mission records (Merriam 1968:155). This rancheria probably controlled the land that later became Los Perasquitos rancho.

Between 1774 and 1800 the Spanish missionaries succeeded in baptizing at least one hundred and forty-two persons from this village or from areas

associated with this village. An unusual feature of these baptismals is that one hundred and five of them were performed on children (Merriam 1968:155). This high percentage of children is an anomaly when compared with the records for most of the other Indian villages where the ratio was most often equal between children and adults.

When, in 1775, the various Kumeyasy villages banded together to storm the Presidio and the Mission San Diego de Alcala, Ystagua did not take up arms against the Spaniards. Rivera y Moncada's report indicated that most of the coastal villages did not side with their inland and mountain brethren in the abortive attempt to drive the Spanish colonists out of southern California (Rivera 1967:455).

San Dieguito

Documentation of native American occupation of the lower portion of the San Dieguito River began in July 1769 when Don Gaspar de Portola traversed the mouth of the river near present-day El Camino Real and Via de Valle. As Portola and his exploring party descended into the San Dieguito River Valley, Miguel Costanso (Teggart 1911:167) noted that:

"The Indians of the canyon immediately came to see us; they approached little by little, full of suspicion, and as they were greeted and presented with some strings of glass beads they quieted down and became so familiar with us that they occasioned annoyance."

The Spaniards named the river valley and the Indian <u>rancheria</u> San Dieguito, after Saint James the lesser, thus catapulting a prehistoric village into European California history.

During the next fifty years of Spanish control the village at San Dieguito had repeated contacts with the Spanish intruders including at least 38 baptisms through Mission San Diego de Alcala and 7 baptisms through Mission San Luis Rey (Meriam 1968:143, 151). The village of San Dieguito, or Jallague as the natives called it, did not take part in the 1775 sacking of the Mission San Diego and apparently had very amiable relations with the Spaniards (Carrico 1977).

Another as yet undocumented village or major campsite was located east of the current study area near the San Diego Aqueduct. This campsite is known primarily to native Americans through their oral tradition rather than through historical or archaeological data.

As the Spanish mission period was drawing to a close in 1821, Father Sanchez of the Mission San Diego noted that missionized natives were planting and harvesting corn in the river valley as part of their labors for the mission. Following the successful Mexican revolution in 1822, the newly formed Mexican government awarded land grants to those persons who had been loyal to the revolt. One such land grant was that of Rancho San Dieguito, awarded to Juan Maria Osuna in 1836 and comprising much of current Fairbanks Ranch property.

When he gained title to Rancho San Dieguito Osuna also assumed control over the Indian pueblo of San Dieguito which Governor Figueroa had established 1833 (Brackett 1951) to ensure that the Indians residing in the area were guaranteed land rights and a means of subsistence. Juan Maria Osuna built adobe houses, brought in livestock and began cultivating the rich river valley apparently dispossessing the native occupants. In 1839 the natives complained that Osuna had run livestock over their fields, driven them off the most productive land and mistreated his laborers and servants. The complaints of the natives went unheard and unheeded; Osuna was a man of great power and prestige within a Mexican Community which afforded Indians little equality.

Throughout the Mexican period, circa 1822-1848, Osuna and his family apparently devoted most of their efforts toward maintaining a well-stocked and successful rancho within the river valley itself. Except for grazing, there is no indication that the nearby hills and valleys were used by Osuna. The Osuna adobes are (were) located above the current site of the Rancho Santa Fe golf course and recreation area. The main house has been restored and is used as a private dwelling.

Batiquitos

Batiquitos Lagoon and its tributary San Marcos Creek was first visited by Europeans in July 1769 when the Portola exploring party traversed the valley. Portola noted a large Indian village adjacent to fresh water sources. In later years Batiquitos (Spanish for "little baths" or "pools") was a stopping place for pasturage and water.

As early as 1774 missionaries from the San Diego mission, then located on Presidio Hill, succeeded in baptizing at least one native. Between 1774 and 1793 baptismal records for Batiquitos, also known as Apo-ijac, Acusquel or Apusquele, indicate that 25 children, 11 women and 9 men were given baptismal rites. Another 211 natives from villages or rancherias close to, or actually at, Batiquitos were converted between 1774 and 1808 (Merriam 1968:150-151).

Later post-Spanish period records contain only brief mentions of Batiquitos as an Indian village, possibly indicating its abandonment. Several researchers have speculated that most of the coastal villages were abandoned or drastically depopulated during the early Spanish colonial period, circa 1780-1820.

Agua Hedionda

When Don Gaspar Portola and his party of explorers arrived at what is now known as Agua Hedionda Lagoon on July 18, 1769, they reported foul-smelling stagnant pools of water, thus the Spanish name for stinking water was permanently attached to the area. Portola's diarist noted that an abandoned native village occupied the valley floor near some clear water (Palou 1926:2:115). Later mission records and travalogues report that Agua Hedionda rancheria was a major Luiseño settlement that was abandoned by the mid-1800s (Carrico 1977; Merriam 1968) when the Agua Hedionda Rancho was granted to Juan Maria Marron.

Buena Vista

After their visit to the Agua Hedionda Valley, Portola's party continued northward across mesa tops and deep canyons until they reached a deep, wide valley near present-day El Camino Real and Highway 78. Because of the scenic vista and open view to the Pacific Ocean, Portola named this valley Buena Vista, literally "good view."

Portola noted that a native village was situated on the summit of a hill above Buena Vista Creek. The villagers had been told of the Spaniards' trek northward by native runners sent from the rancheria at San Elijo below Agua Hedionda (Palou 1926:2:116-117). Aware that the Spaniards had beads for trade, and curious to see these bearded men on large sweating beasts, at least forty villagers walked into the Spanish camp to barter and gawk. After an amiable exchange, the Luiseño traders left camp with glass trade beads, apparently satisfied that the newcomers were friendly traders.

Buena Vista was another major Luiseño settlement that endured early Spanish influence and thrived until the early American period. In later years the rancheria apparently moved somewhat east away from the lagoon itself and inland, somewhat removed from El Camino Real and white influence.

San Luis Rey

The presence of Luiseños throughout the lower portions of the San Luis Rey River is well-documented by historians, early explorers and ethnographers. Gaspar de Portola crossed the wide San Luis Rey River Valley on his way to Monterey (Carrico 1977) and found the valley floor "so green that it seemed to us that it had been planted (Palou 1926:2:116)." It was also noted that two large Luiseño villages were situated on both sides of El Camino Real at opposite ends of the valley.

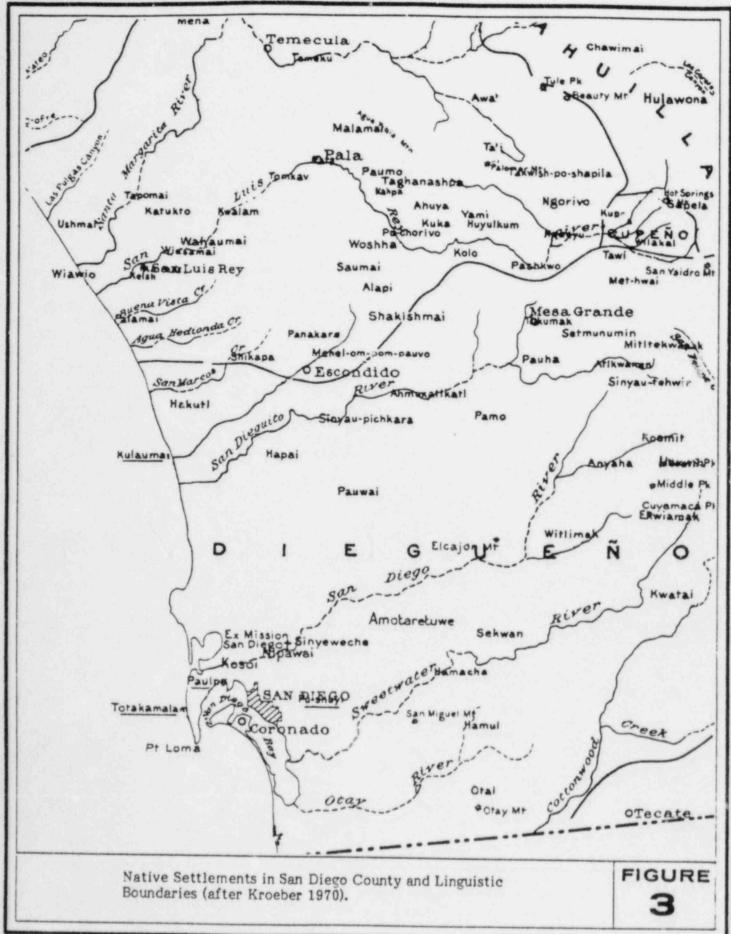
The Spaniards found the natives to be friendly, outgoing and prepared for their arrival. Because of the water supply, lush vegetation and large numbers of natives, it was recommended that the San Luis Rey Valley, originally named San Juan

Capistrano, and later called San Juan Capistrano Viejo, be considered as a potential mission site. Twenty-nine years later, in 1798, four tracts of land were granted by King Carlos IV and a mission was officially founded at San Luis Rey although a church would not be built until 1802. The present mission structure was begun in 1811 and completed in 1815. Mission San Luis Rey de Francia was one of the most successful California missions in terms of converting natives and development of a farming/grazing subsistence.

Secularization of the mission, circa 1834, left the church without funds to support its large gardens, to maintain the thousands of heads of livestock or its converted native population. The most industrious converted natives were relocated at the Pueblo de Las Flores within the Las Flores Valley in what is now Camp Pendleton. Gradually the mission fell into a dilapidated state and the natives drifted away from the mission system. The American takeover of California, which was finalized by statehood in 1850, led to further deterioriation of the church.

In a dialogue reportedly dictated about 1835 by Pablo Tac, a Luiseño neophyte, the Luiseño name of Quechla was given for San Luis Rey (Tac 1958:19). Pablo Tac stated that quechlam was the plural form of a native word for a certain kind of stone and that quechla was the singular form. A recent historian (Hudson 1964) noted that Keish, Qee'sh, and Quechla are orthographic variances for the same Luiseño village/placename. In his 1908 study of the Luiseño, Sparkman (1908:191) reported that his informants called San Luis Rey, Keish (see Figure 3).

The San Luis Rey area contained 21 different Luiseño clans indicating a dense and diverse population, equalled in numbers of clans only by the <u>rancheria</u> at Pechanga (Strong 1929:276-277). Based on Kroeber's estimate (1970:686) that a clan was comprised of 25 to 30 persons, a population of between 525 and 630 Luiseños can be suggested for the San Luis Rey area. Kroeber (1970:Plate 57) recorded four villages in



the vicinity of Mission San Luis Rey: Keish (at San Luis Rey); Wiasamai and Wahaumai, located west of San Luis Rey; and Kwalam, located halfway between San Luis Rey and Pala (see Figure 3).

Santa Margarita

The first European exploration of the Santa Margarita Valley was accomplished when Portola and his party continued their push northward to Monterey in July 1769. The Spaniards reported that a native village of no less than sixty persons was situated along the banks of Santa Margarita Creek. The natives traded with Portola's men and received glass beads which they apparently considered worthwhile.

Throughout the late eighteenth century, the village at Santa Margarita had repeated contact with Spanish traders. Attempts to missionize the natives were only minimally successful until the founding of Mission San Luis Rey de Francia in 1798. Following secularization of the missions in 1834, various influential persons throughout California sought and received large grants of land. Pio Pico received a provisional grant in 1836 for portions of what later became the Santa Margarita y Las Flores.

Pio Pico's dealings with the natives who occupied the Santa Margarita area were frequently unscrupulous and unjust. Throughout the early 1800s natives either abandoned their traditional villages within what is now Camp Pendleton or temporarily centralized at the Pueblo de Las Flores. Originally, a pueblo established for the emancipated Luiseros from Mission San Luis Rey, Las Flores and Las Flores Valley as a whole was coveted by Pio Pico and his brother Andres. The Picos apparently gained title to Las Flores by granting it to Pablo Apis, a Luisero nota, or leader, in 1844 and traded Apis the 2,200 acre Temecula grant for the more than 43,000 acre Las Flores grant (Witty 1970:29; Rush 1965:94). The later consolidation of the San Onofre, Santa Margarita and Las Flores grants led to the formation of the huge Santa Margarita y Las Flores Rancho and the removal or demise of native population within the rancho.

3.2.2 Mexican Period, 1821-1848

With the changeover to Mexican rule, the missions which previously provided cohesion for Alta California began to dissolve into ineffectuality. In their place a large number of ranchos were established — the so-called "Spanish" land grants were doled out almost entirely during the Mexican Period.

Within San Diego County, dissolution of the missions was felt most markedly in the vicinity of San Luis Rey and San Diego. Although the Mexicans assumed control in the early 1820s, it was not until the 1830s that secularization was effected. The missions were abandoned and a series of 32 ranchos was established in San Diego County. Five of the ranchos occupied portions of the study area (Brackett 1951).

Rancho Santa Margarita y Las Flores, Spanish for Saint Margaret and the Flowers, was by far the largest of the five land grants; it is now Camp Pendleton. Actually, this grant is a combination of the 89,742-acre Rancho San Onofre y Santa Margarita, granted in 1841, and the more southerly 43,699-acre Las Flores Rancho, granted in 1844. Both were granted to Andres and Pio Pico (Rush 1965). The two rancho names were known from earliest historic times. The Santa Margarita River was named by Don Gaspar de Portola in 1769, and the name Las Flores is noted on early documents as a Luisero rancheria. Originally, the Las Flores ranch was one of six ranches comprising the San Luis Rey Mission cattle empire and extended north into present-day Orange County. There are two major buildings remaining from this period. One, the main ranchhouse, is now the Commandant's headquarters at Camp Pendleton. The other is the asistencia at Las Flores, now in ruins. Neither is close to the project study area.

Agua Hedionda was a medium-sized rancho approximately one-tenth the size of Rancho Santa Margarita y Las Flores. It spread over slightly more than 13,000 acres, occupying roughly the area of today's City of Carlsbad (USGS quadrangles). Land grant status was granted in 1892 to Juan Maria Marron, an important politico and popular figure in San Diego (Brackett 1951). The main ranch house (now a private residence)

and several adobe ruins remain from the Mexican Period. One of the ruins is contiguous to the study area one-quarter of a mile east of the corner of Chestnut Avenue and present-day El Camino Real, but not within the proposed disturbance zone. None of the other structures are within the study area.

The next land grant south of Rancho Agua Hedionda is Rancho Los Encenitos, the ranch of the little oaks, which wa named by Portola on his 1769 journey. Rancho Los Encenitos comprises one square league, 4431.03 acres, and was one of the smallest land grants in the state. In 1842 it was granted to Andres Ybarra; shortly after Ybarra acquired the property, a ranch house complex was built. Today, only adobe walls of the main ranch remain (Rush 1965) because the house was not used after the arrival of the railroad. Neither the main ranch house nor any other ranch buildings are close to the proposed project area and, although the ranch has had changing uses, its land remains as some of the most undeveloped in coastal southern California.

Rancho San Dieguito, little San Diego ranch, is the next land grant south and encompasses the Rancho Santa Fe area. This ranch is not discussed in this report because the project study area is entirely east of Rancho San Dieguito.

The first land grant in San Diego County and one of the most historic — Rancho de Los Perasquitos — is the next ranch south (Brackett 1951; Lowe 1978). Captain Francisco Maria Ruiz received the 8486-acre grant in 1823, shortly after the transition between Spanish and Mexican rule. Not considered large in comparison to other ranchos, it was used primarily for cattle operations.

Captain Ruiz erected the first Perasquitos ranch house about 1827; this historic Mexican-style adobe is located at the western edge of the property and over two miles west of the transmission right-of-way.

On December 11, 1846, the retreating army of General Kearny rested at the Ruiz adobe after the battle of San Pasqual (Stone 1966). Ruiz gave the weary

Americans food, wine and shelter (Moyer 1969:2-3; Rush 1965:24-25). Hailed by some as the oldest standing building in California, the Ruiz adobe is in rapid deterioration.

Later in the Mexican Period, Perasquitos was deeded to Francisco Maria Alvarado whose daughter and heir, Tomassa, married Captain George Johnson. Johnson built the historic Johnson-Taylor adobe in the east central portion of Los Perasquitos in about 1876. Johnson was a wealthy part-owner of the Colorado River Navigation Company and a politician. In 1883, J. S. Taylor, a founder of the City of Del Mar, purchased the ranch and made further improvements on the ranch house and its environs (Moyer 1969:3; Rush 1965:35-36). Currently in a state of abandonment, the Johnson-Taylor adobe is located about two miles east of the proposed project. Both the Ruiz and Johnson-Taylor adobes have been designated as Historical Landmarks by the San Diego Historical Site Board.

The last of the ranchos in San Diego County was Rancho Ex-Mission San Diego del Alcala whose western boundary coincides with the western boundary of the transmission corridor. The Mission, from which the ranch evolved, was established in 1769 and moved to its present site in 1774. The Mission took its name from the Bay named by Vizca Vizcaino in 1602. Some sources say that Vizcaino called it San Diego in honor of St. James, but Stein disagrees with this translation and suggests the transliterated "St. Didacus."

One of the most prosperous of California missions, San Diego de Alcala began to suffer reversals of fortune with the Mexican accession to power. With secularization in 1836, the 58,875 acre tract came under a succession of overseers and a few months before the end of Mexican rule it was formally granted to Santiago Arguello. This grant stood even though it was politically protested (Rush 1965). This mission buildings are more than two miles east of the study area and no known structures of historic value are located in the immediate vicinity of the transmission line.

3.2.3 Early Anglo Period, 1348-1884

The influx of Americans, resulting in the political takeover of southern California by the United States of America, wholly changed the character, fabric, and physical appearance of the area. Changes were not immediate, however, and for over 30 years (1848-1878), present-day San Diego County conditions changed at the relatively leisurely pace typical of earlier decades. Two significant innovations manifested themselves during the period: 1) American citizens' acquisition of Rancho lands; 2) the construction of a railroad through San Diego County.

Patenting of lands through the American court system was a long, slow process. It was not uncommon for the patenting process to take 10 tor 15 years, longer in some instances. The claims for the Pico grants were recognized by the courts in 1855, for instance, but a patent was not granted until 1879. At the Agua Hedionda Rancho, conditions were only slightly more efficient; a patent was granted in 1870, long after Juan Marron's death (Brackett 1951).

The patenting process was uniformly slow througout the area. In practice, the long patenting delay was not particularly confusing because the settler's land rights were considered inviolate unless a court proved it otherwise. At Los Encenitos Rancho, a conformation of grant was approved in late 1852, shortly after American accession, however a patent was not granted until 1871. A patent was issued to Los Peñasquitos Rancho in 1876, and thee ex-Mission San Diego Rancho did not receive its patent until the same year. Competition over these lands may well have delayed their patenting: Los Peñasquitos Ranch was contested between Francisco Alvarado and George A. Johnson, while the ex-Mission San Diego Ranch was disputed between Santiago Arguello and the combined interests of Padre Olivia and José Antonio Estudillo (Brackett 1951).

Railroad construction had significant impacts upon the area's development.

Although the area's growth was not immediate, the Southern California Railroad was built north from San Diego (actually National City), and by 1881 was completed to the

study area. The original route did not go to Los Angeles. It turned inland at present-day Escondido Junction and followed today's spur line route to Fallbrook. Then the line wound through the tortuous Santa Margarita Canyon to Temecula, reaching San Bernardino in 1884. The connection to Los Angeles was completed within the next three years (WESTEC Services, Inc 1978c). Small stations and section houses were established at intermediate points along the line, but no real town development along the railroad in the North County occurred until the late 1880s.

Very little urban development took place during this time. Early records show given populations only for the various ranchos — each rancho was purported to have had a convenient arbitrary population of 25 persons (Rand McNally and Co. 1973). Los Encenitos Ranch became a stage station along the Los Angeles-San Diego route, but there was little encroachment for other uses prior to the mid-1880s. Otherwise, growth occurred only at San Luis Rey where a post office was established in late 1861. With only a short interruption, this post office has continued to operate to the present day (U.S. Post Office Department n.d.).

3.2.4 Anglo Community Development, 1884-1920

Completion of the Southern California Railroad made coastal San Diego County far more accessible than ever before. The easy accessibility opened the area to thousands of tourists and new residents.

The previously natural landscape and the rancho-oriented lifestyle both were doomed by changing land uses, including an increase in agriculture. The easy accessibility, increased population and changing land uses produced the Great Real Estate Boom of 1886-1888. The short-lived economic prosperity largely disappeared after the boom, but it had formed the basic urban patterns which predominate today.

Successful boom towns whose limits now encroach upon the study area include Oceanside and Carlsbad. The two towns have had parallel histories with

Oceanside consistently playing the role of "big brother," growing a little faster, starting a bit earlier, and developing more broadly than its neighbor to the south.

Oceanside, named for its relation to inland San Luis Rey, began about 1884 as a seaside hamlet. It had an established population prior to the Great Boom of 1886-1888 and, due to massive out-of-state advertising, grew during the boom. Unlike most other southern California communities, it continued to grow after the boom; by 1900 it had a population of 330 and by 1920 Oceanside had over 1150 residents (Rand McNally n.d.). By that time, it was a mercantile and service center, exporting a wide variety of local vegetables through local packing houses. There was also a silica sand plant (Heibron 1936:319). Carlsbad is slightly older than Oceanside; John W. Frazier homesteaded in what is present-day central Carlsbad about 1883. Lured to the area by Frazier's recently excavated and ever flowing well, several small agriculturalists gathered to form the community of Frazier's Well. A resort town was established there during the Great Boom because of the well-known, reputedly healthful qualities of the water. The town was renamed because of the water's supposed similarity to the famed Well No. 9 at Karlsbad, Bohemia. Carlsbad's population quickly decreased following the Great Boom. Like Oceanside, Carlsbad had an agricultural growth incentive from the late 1910s to 1920s. However, by that time Oceanside had established itself as the local retail center, effectively preventing Carlsbad from similar expansion and economic diversity (WESTEC Services, 1978c).

Early urban growth in the southern portion of the project area vicinity was much less dramatic, because it is several miles further inland. Genreally, the transmission route follows a rugged, dry area midway between the two major north-south transportation corridors in the County, and there was little incentive to start towns in that area. Despite its inaccessibility, aras near the present corridor route became ripe for speculation during the boom fo the 1880s. In the period between 1885 and 1889 (U.S. Post Office Department n.d.), communities such as Merigan (or Sumac),

San Dieguito, Black Mountain, Lusardi, and Linda Vista sprang into existence; now they are all only memories. Several have been forgotton so completely that no physical evidence is left, and only a few obscure records —promotion circulars, courthouse documents or post office repositories — prove that they ever existed.

Merigan (Sumac), adjacent to Olivenhain, had a post office from 1889 to 1891. The San Dieguito post office was begun earlier in 1894 and lasted to 1886. Although it is probable that the post office existed near or on the site of central Rancho Santa Fe (the land grant Rancho San Dieguito), this connection has not been proven. The town of Black Mountain was a postal entity from 1888 to 1903, and was probably near the head of McGonigle Canyon, but the exact location is unknown. Stein (1975) reports that Black Mountain was the location of California's first gold mine in 1828, but the mine and town may or may not have been located on the same site. Lusardi, named for Peter Lusardi, an early Italian rancher, was a town that existed from 1889 to 1911 (Stein 1975; U.S. Post Office Department). It was located along present-day Black Mountain Road, about one mile south of Rancho Bernardo Drive. Linda Vista, Spanish for beautiful view, lived and died as an 1880s boom town long before the name was used for a residential subdivision in suburban San Diego. A station stop along the Atchison Topeka and Santa Fe Railroad, Linda Vista was locatred at the top of the grade between Rose and Soledad Canyons (where Miramar Road presently crosses over the tracks). A post office existed at this site between 1886 and 1899.

Lacking any further data on these emphemeral communities, there is little evidence to mark their passing. They were probably homesteading-oriented, agricultural ventures, and with the exception of Linda Vista, were likely located outside of the immediate vicinity of the project study area. The Linda Vista site is probably more than 200 yards from the study area, assuming that Linda Vista's historic impacts occurred in a compact area near the railroad's main line.

The completion of an all-weather road through the area provided more incentive for growth. Wagon roads and trails were abundant into the 20th century, but non-railroad transport was actually little improved over that available to the padres in the 18th century. Demands began to be made for better roads after 1906, due to the availability of the automobile. The first long-distance road between Los Angeles and San Diego was completed in 1909; constructed of dirt and gravel, this surface was replaced with concrete by 1918 to support the general increase in trafffic (McVicar 1971).

3.2.5 Recent Historical Impacts, 1920 to Present

In recent decades, the landscape of many coastal southern California areas has been transformed to the extent that evidence of historic lifestyles and artifacts is scarcely recognizable. Generally speaking, the northern portion of the project study area has experienced very little development, but many changes have occurred south of the old Santa Margarita y Las Flores grant boundary. Despite the large growth in the area, even today the transmission lines go through zones less developed than those to the east or west.

The northern portion of the study area has changed in recent years from pastoral to military; in 1942, the U.S. Navy purchased the entire grant area. Since World War II, the U.S. Marine Corps has occupied the land, and acquired additional land on the northeastern boundary of the old land grant (Brackett 1951). The population of the base is small, concentrated, and located over a mile from all portions of the transmission line right-of-way (USGS quadrangles).

The line travels through generally uninhabited land in the Oceanside-Carlsbad area. Several post-World War II tract areas and the small subsettlement of Oceana are in close proximity to the transmission line; all appear to have been built after the line's construction (ASCS, various dates). Further south the line generally follows present-day El Camino Real Street, but south of State Highway 78, it jogs east to include the

valley wherein the original El Camino Real is thought to have traveled (WESTEC Services 1978c). The land is generally undisturbed and dry; however, swamplands, a cemetary, a golf course and agricultural lands all come near or underneath the right-of-way. The transmission line travels through incorporated areas of both Oceanside and Carlsbad due to large annexations in the late 1950s and mid-1960s, respectively (Burrus 1971).

Southeast of the Encina power generation station, the transmission line passes through lands that are alternately either Carlsbad or unincorporated land. East of El Camino Real, the transmission line passes through the Rancho La Costa area. This development was begun in 1965; and growth has occurred continuously up to the present time.

Southeast of the La Costa area, the land near the transmission line is entirely rural and undeveloped except for small areas of sprawling ranch-style houses. South of Lusardi Creek, the line enters an undeveloped incorporated are belonging to the City of San Diego. This area was absorbed into the City in 1962 and 1964 (San Diego City Engineering Records Section) and remains predominantly rural as far south as Carroll Canyon Road. A light-industrial park there signals the beginning of a massive urbanized area.

The area south of Carroll Canyon Road has been heavily impacted, but most of the development near the transmission corridor occurred only recently. The line passes through Miramar Naval Air Station, which has been used for military activities since before World War II (when it was Camp Kearny); most early land use impacts took place well to the esat of the present western boundary. The railroad here, of course, is almost a century old; and El Camino Real (the railroad follows much the same route in this vicinity) predates the railroad by over a century. But the more expansive, obvious features — the freeways, housing tracts and commercial features — are all nonhistoric, and most have existed only since the 1950s or 1960s. Generally, residential areas close

to Mission Valley are older, but historic artifacts within or near the study are rare or non-existent.

Available records indicate that the transmission line was built during the mid-to-late 1950s apparently causing no obvious interference to existing structures. It was not the first long-distance electrical transmission line in the area; Heilbron (1936:201) indicates that an SDG&E line existed across north County as early as 1936. The present line was built to join the Encina power plant which was constructed in 1952, therefore, its earlier route was at least partially rerouted.

South of the Encina power plant, the line was also built after 1952, probably between the mid-1950s and early 1960s (ACSC). Uniformly, streets appear to have been patterned around the line. Furthermore, it does not appear that initial transmission line construction damaged significant historical properties, because it was located in generally rural, undeveloped areas.

3.2.6 Origins of Area Place Names

Although few structures of historic importance exist within the immediate vicinity of the transmission line, the large diversity of cultural influences/impacts in the area is evidenced by the historical nomenclature used. Spaniards, Mexicans and Americans have all contributed to the topography of the area. From north to south, place names crossing or close to the right-of-way include:

- Foley Canyon, a small canyon on the northwest side of San Onofre Mountain, located about two miles southeast of the San Onofre Station. The derivation of its name, however, remains unknown according to Lou Stein, local place name expert (1975-49).
- San Onofre is used as a place name for the nuclear generating station, a coastal bluff, and a high ((1725 ft. above mean sea level (MSL)) mountain in extreme northwestern San Diego County and a long-time Santa Fe Railway stop (northwest of the generating station). San Onofre is Spanish for Saint Onuphrus, a fourth-century

Egyptian hermit; records indicate the name was first used in 1828 for a land grant in the area, Santa Margarita y San Onofre, which was administered by nearby Mission San Juan Capistrano. Like many land grants, it was named for a saint. Brackett (1951) explains, "The ranchero usually named his holdings for the patron saint of his family, or the saint upon whose holy day the grant was made."

- Horno Canyon is south of San Cnofre Mountain. "Horno" is Spanish for an "oven" or "kiln," but its direct application as a place name is not known. Stein suggests it was named because of the extremely hot temperatures that may exist in the area.
- Piedra de Lumbre Canyon is located immediately northwest of Las Pulgas Canyon on Camp Pendleton. One of several suggested meanings for the Spanish phrase translates it as "fire rock." It is not known why or when the canyon was given this appelation.
- Las Pulgas Canyon, largest canyon within Camp Pendleton, is located at the center of the present-day Marine base and is midway between the generating station and the Camp's southern boundary. The name is Spanish for "the fleas." Unfortunately, fleas were an integral part of everyday life in many southern California areas. When Portola's expedition traveled north from San Diego in July 1769, they stopped at a deserted Indian rancheria which was infested with fleas to the point where the troops became infested and gave the site its name (Gudde 1949).
- Aliso Canyon is located two miles south of Las Pulgas Canyon. "Aliso" is the Spanish word for alder, although it has also been used for sycamore. The name has widespread use in California, and considering the predominant tree cover in the area, it is probable that it was named for the common western canyon sycamore, rather than the less frequent white alder (Lacy 1978).
- French Canyon is located immediately north of Stuart Mesa, in southern Camp Pendleton. It is place-named for settlers of French origin. Stein states that it is

now a nickname form, which suggests that the original name may previously have been somewhat less complimentary than at present.

- <u>Fire Mountain</u> is located about two miles due east of central Oceanside. Stein indicates that the mountain (200 ft above MSL), currently occupied by a cemetary, was named because of the red stone outcroppings visible on its slopes.
- Buena Vista Creek is the drainage which generally separates Oceanside from Carlsbad. Spanish for "good view," it is a commmon local name; the downstream lagoon and an upstream rancho are also called Buena Vista. Records indicate that the creek may have been named before the rancho; the creek was known as early as the end of the Spanish period (1821), while the land grant was not approved until 1845. Both creek and rancho may have been named for an Indian rancheria in the area (Gudde 1949).
- Mount Kelly is a hilltop, 347 ft above MSL, immediately east of downtown Carlsbad. In 1870, Robert Kelly took over the ownership of the Rancho Agua Hedionda holdings, and in the 1890s his holdings were divided among his nine nephews and nieces. Many members of the Kelly family are active in the Carlsbad area today (WESTEC Services, 1978c).
- Evans Point, the highest point in the western portion of Carlsbad, is located a mile east of Agua Hedionda Lagoon and generally west-southwest of Kancho Agua Hedionda. It was named in 1908 for Admiral Robley D. Evans who commanded the U.S. Navy's Great White Fleet. The present residence of the Allen Kelly family, it was an earlier generation of Kellys who climbed the hill that year to watch the Fleet during the West Coast portion of its highly publicized tour. The family was so impressed by the passage that they named the hill after Admiral Evans (Howard-Jones 1978; Pickle 1978).
- Canyon de las Encinas is located along present-day Palomar Airport Road in southern Carlsbad. The name is a Spanish term signifying "canyon of the oaks" (canyon"

is an anglicized corruption of the Spanish word "caron"). The name, in English, is a common one; its origin in this locale is unknown.

- Escondido Creek (Spanish for "hidden") flows under the transmission line east of Olivenhain. The town is named after the creek; specific details concerning its naming are unknown. Stein says that the creek name came from the Anza expedition which camped there and called it "Agua Escondido."
- San Dieguito refers to a variety of physical and cultural features in the present-day Encinitas and Rancho Santa Fe areas. A corruption of the Spanish term for "Little San Diego," it has been in use since 1778 when it was first applied to an Indian rancheria. It is used to describe an Indian pueblo, a mexican land grant, an 1880s post office, a river, a valley and the present-day region of San Diego County (Stein 1975).
- La Zanja Canyon is an east-west trending c you south of Lusardi Creek. A spanish term signifying a ditch or trough, its origin here is unknown.
- McGonigle Canyon is located between La Zanja Canyon and the Santa Monica Ridge. It is named for Felix McGonigle an early (1870s) settler and landholder in the district. The canyon had formerly been named Cordero Canyon for two brothers who travelled in the Portola expedition.
- Santa Monica Ridge, just south of McGonigle Canyon, is named in honor of Saint Monica, a patron saint. It was probably named during the Spanish or Mexican periods, perhaps because a group of travellers visited there on her feest day. Specific data, however, is unavailable.
- Deer Canyon, south of the Santa Monica Ridge, is a very common name of logical origin.
- <u>Carroll Canyon</u>, originating in the Kearny Mesa area, was named in honor of a
 pioneer settler, Thomas Carroll. He had moved into the area by the early 1890s, and
 specialized in growing orchard crops (Stein 1975).

- Soledad Canyon, originating on the Miramar Mesa area, was in all likelihood, named after nearby Soledad Mountain, which was named by early Spanish explorers. Soledad is the Spanish word for "solitude," and was a common term for place names during colonial times (Gudde 1949).
- Rose Canyon, located between Soledad and San Clemente Canyons, was named for a prominent citizen of early San Diego. Louis Rose arrived from Texas in 1850 and Roseville, part of Point Loma, was his land development. He was also responsible for denuding Rose Canyon and other nearby areas of trees to provide firewood for his tannery near the Bay and his kiln in Rose Canyon. This was nearly 100 years after Portola's visit to Rose Canyon, which he named Caron de San Diego.
- San Clemente Canyon, situated north of Clairemont Mesa Boulevard, is named because in the early 1870s the canyon was variously used as a vineyard, orchard, and garden with an Indian named Clement in charge of the plantings (Anonymous 1875).
- Montgomery Field, a Kearny Mesa airport, was named for John Montgomery,
 a famous early flier whose many local air shows popularized aviation in San Diego.
- Murray Ridge, above Mission Valley and west of I-805, like Murray Canyon but unlike nearby Lake Murray, was named for pioneer John Murray. He and his family homesteaded in Mission Valley when the land was opened for settlement in the 1880s (Stein 1975).

3.3 Record Search Data

The San Diego Museum of Man and the San Diego State Unviersity have a number of sites recorded within and surrounding the right-of-way which may be impacted by new construction. Those sites have been discussed in general in the previous subsections and are located on maps and described further in Attachment 5 of this report.

Additional record search data covering the entire length of the proposed San Onofre to Encina 230 KV right-of-way have also been received from the above

institutions, as well as from the California State Office of Historic Preervation. Responses to these additional requests and consdieration of these resources in light of the proposed project are also appended to this report as Attachment 5. The information obtained through WESTEC Services' record search effort are summarized in the following sub-paragraphs.

3.3.1 San Diego State University and San Diego Museum of Man

WESTEC Services, Inc. has completed a thorough review of pertinent record data from those institutions and agencies possessing such data. The Society for California Archaeology District 11 Clearinghouse at San Diego State University forwarded a complete record search for the entire San Onofre to Mission right-of-way which is included in Attachment 5 to this report. Similar data were requested from the San Diego Museum of Man and are also contained in Attachment 5.

3.3.2 University of California, Riverside/Los Angeles

Data from San Diego State University and San Diego Museum of Man constitute a complete inventory of officially recorded archaeological sites in, or adjacent to, the transmission corridor. Communication with the University of California, Riverside (Kaye White 1978:Personal Communication) and with the University of California, Los Angeles (Martin Rosen 1978:Personal Communication) confirmed the completeness of our inventory. Both of these institutions reported that San Diego State University was the official clearinghouse and that records kept at Riverside and at Los Angeles were incomplete duplicates of the larger, more updated records at San Diego State University.

3.3.3 National Register/California Landmarks

The records at the California State Office of Historic Preservation indicated that several State Landmarks and National Register sites were located in the general vicinity of the corridor. Our review of the data provided in their letter dated August 31, 1978 is as follows:

- CLS No. 616/National Register Las Flores Adobe and Las Flores Site are located approximately one and one-quarter miles west-southwest of the San Onofre to Encina Hub corridor.
- CLS No. 784, El Camino Real, is the recorded location of an early road/trail system. Throughout western San Diego County much of this historic road has been incorrectly recorded as following old Highway 101 along the coast. Actually the route was considerably farther inland near the present day El Camino Real between Carmel Valley and the San Luis Rey River. At the San Luis Rey River the original El Camino Real continued an inland route past the Mission San Luis Rey, across the high mesas east of Ysidora Basin, in Windmill Canyon, down to the Santa Margarita River near the Home Ranch and then followed a route similar to present-day Basilone Road until it left San Diego County.

The San Onofre to Mission line is contiguous to old El Camino Real from Buena Vista Creek to the San Luis Rey River along an approximate four mile stretch. The corridor crosses the probable route of El Camino Real within Carroll Canyon, above Agua Hedionda near Rancho Santa Fe, and above Rose Canyon.

- Santa Margarita Ranchouse is located within Camp Pendleton more than two miles northeast of the corridor route.
- San Luis Rey Mission Church is situated one mile northeast of the transmission corridor as it crosses the San Luis Rey River.
- La Christianita, California Historical Landmark #562, is located several miles north of the generating station.

4.0 TECHNIQUES OF ARCHAEOLOGICAL INVESTIGATION

4.1 Field Survey

The survey techniques employed in this study conform with the guidelines and requirements of the Society for California Archaeology (King et al. 1973) and with those set forth by the National Park Service in their "Guidelines for the Preparation of Statements on Environmental Impact on Archaeological Resources."

On-foot reconnaissance of the transmission line right-of-way during current investigation started in the most northerly aspect of the northenmost section of the project area. Traveling south between the right-of-way boundaries, two 2-person teams transversed each previously unsurveyed segment (in parallel, zig-zag fashion) of the existing right-of-way. As shown in Figures 2-1 through 2-5, these areas included the San Onofre Nuclear Generating Station and the existing southeasterly right-of-way to the San Luis Rey Substation. Beyond the Encina Hub, the current field survey continued south within the subject right-of-way towards Carroll Canyon (Figures 2-5 through 2-10). The survey resumed one-half mile north of Clairemont Mesa Boulevard and continued to the southeast until termination of the right-of-way within the Mission Substation in San Diego. Existing access roads, areas below existing transmission lines and towers within the right-of-way were also thoroughly examined during field investigation. Archaeological resources were tentatively marked on survey maps (scale: 1 inch = 2000 feet) and nearby natural foatures (i.e. trees, tall shrubs) were flagged to facilitate a later field check.

All archaeological resources located during the course of the intensive field survey were subsequently field checked. The secondary field-check phase included all previously recorded and newly discovered sites. This included compiling new site record forms or updating previous site information and evaluating the cultural assemblage and areal extent. All site information has been recorded with the San Diego Museum of

Man and San Diego State University, Department of Anthropology. A photographic record was compiled and sketch maps were prepared to include extent of site area, general topography, nearby roadways and other identifiable man inade features.

Additionally, each of the conductor stringing operation locations (puller and reel) was subsequently field checked to include a reinvestigation of possible cultural resources and evaluation of impact upon any archaeological sites within said locations.

4.2 Photographic Record

A photographic record of each site encountered within the study area was compiled. Photographs portray those features or remains comprising the most substantial or outstanding aspects of each site, as well as the general setting surrounding each resource.

Camera equipment employed during this process consisted of a 35mm single lens reflex camera Vivitar. Kodacolor II color print (ASA 100) film was used for the majority of photographs taken. Photograph record forms were used to document each exposure, and these records (along with the negative) are on file at the WESTEC Services, Inc. archaeological laboratory. Additionally, a complete set of prints will be forwarded to SDG&E (Attachment 6).

4.3 Survey Limitations

Portions of the subject right-of-way surveyed for the current study are covered by dense, drying, ruderal grasses. This flora obscures the surface soils from scrutiny in all but the most recently disturbed areas. For this reason, recently graded access roads, cleared areas around existing power poles, game trails, and other portions of the subject property not blanketed by a dense layer of drying grasses were intensively scrutinized.

5.0 FIELD INVESTIGATION RESULTS

5.1 Survey Results

The results of the current intensive archaeological/historical field survey of the proposed 230 KV transmission line project between the San Onofre and Mission Generating Stations were positive. Four previously recorded archaeological sites, 4 newly discovered archaeological sites and six artifact isolates were found within the right-of-way boundaries, as shown in Figures 2-1 through 2-10.

Additionally, results of two previous field surveys of portions of the same proposed San Onofre to Encina 230 KV right-of-way scheduled to receive construction impacts (WESTEC 1978a; WESTEC 1978b) were also positive: ten a chaeological sites were encountered within or adjacent to the right-of-way boundaries. Five artifact isolates were also noted. Locations of these sites are shown in Figures 2-1 through 2-10.

No historic sites were encountered within the proposed San Onofre to Encina 230 KV transmission line project.

Location and description of all archaeological sites encountered during previous and current field investigations of the project area are detailed in the following subsection and in Table 1. Reference is made to each site's location in relation to the project area, each site's apparent surface extent, and the general condition of each site's resources. Where appropriate, disparities between data obtained through an examination of record searches and that which was noted in the course of the field survey are also discussed.

5.2 Description of Archaeological Resources

o SDi-4538: Discovered in 1960 by Speegle and Ezell, this La Jollan site is described as a midden deposition containing an abundance of shellfish remains. One human burial was exposed by a stream cut and a surface collection was performed,

Table 1

ARCHAEOLOGICAL SITES ENCOUNTERED DURING FIELD INVESTIGATIONS
OF THE PROJECT ARFA

San Onofre to Encina August 1978	San Onofre to Mission October 1978	Current Study December 1978
W-1527 (SDi-5455)	W-1806	SDi-4538
W-120	W-1778	W-1833
	W-1779	W-185
	W-1780	W-281
	W-1781	W-1955
	W-1782	W-1956
	W-1777	W-1957
	W-120	W-1958
	W-1528 (SDi-5444)	Isolate Artifacts (6)
	Isolate Artifacts (5)	

although no artifact description was completed. The site is located at the mouth of Horno Canyon just northeast of Interstate 5, within the Camp Pendleton Marine Corps base.

During the current field investigation the site area was revisited. Several artifacts including a chopping tool and flake were observed as well as shellfish remains consisting of Chione sp. and Pecten sp.. At this time, it was noted that site SDi-4538 was located directly beneath transmission lines that span Horno Canyon and directly to the southwest of the project right-of-way. The site area has been impacted severely by military construction and maintenance of a road leading into Horno Canyon. Dimensions for this resource were incalculable due to the disturbed nature of the area.

- W-1833: This site is located on the north side of the San Luis Rey River centered on a small knoll east from a SDG&E power transmission line and immediately adjacent to the right-of-way (Franklin 1978). SDi-5131 (adobe) is one-quarter mile to the southwest. The river drainage is to the south/southeast 100 meters. The artifact assemblage is comprised of manos, chopping tools, Tizon Brown Ware fragments, hammerpounders, some flakes, one metate fragment, historic porcelain and glass. The inventory is not extensive and was not present on the surface in large amounts. Species of shellfish (Chione californiensis) were observed at the base of the knoll on the southwest fringe, with occasional fragmented shell on the knoll itself. The site measures 60 meters northeast to southwest, by 40 meters northwest to southeast. Ruderal grasses obscured the ground, but artifact visibility was nonetheless adequate. Site soil was an expansive clay/loam and was cracked in most areas. There was no obvious soil discoloration indicative of a rich midden. The presence of old historic glass and porcelain may be linked with SDi-5131, or SDi-5133, but that area of investigation was not pursued at this phase.
- W-1527: Discovered in 1977 by Richard Norwood, this archaeological site is also recorded with San Diego State University as SDi-5445. It has been described as a

light shell scatter covering an extensive area. No other cultural debris were observed, and ground cover (weeds) was described as heavy (Norwood 1977). The site is located north of Mission Road, west of El Camino Real, and east of the Valley Drive-In in The city of Oceanside, California.

During an earlier survey of portions of the proposed San Onofre to Encina 230 KV transmission line project (WESTEC 1978a), site W-1527 was revisited and assessed. At that time, it was noted that site W-1527 was located near the 30 foot contour within the natural floodplain of the San Luis Rey River. Although the site did not match the previous configurations recorded by Norwood (1977), extremely thick ground cover definitely limited complete documentation of the site's surface extent. At the request of SDG&E, WESTEC Services, Inc. implemented an accurate mapping and limited data recovery program for site W-1527, designed to refine record information and better assess potential adverse impacts. Trench excavation resulted in the recovery of historic debris, shellfish remains and limited stone tools and flaking debris examined from each test trench coupled with the site's physical setting within a major floodplain, may indicate that the site is comprised of flood deposited debris. Scrutiny of the horizontal and vertical deposition of these materials, coupled with available data concerning the flooding and disruption of the San Luis Rey River floodplain in 1916 (McGlashaw and Ebert 1918), indicate that natural environmental forces may have deposited these cultural debris rather than deposition by human agency (Carrico 1978).

• W-1806: This site was also encountered during an earlier survey of the existing transmission line corridor (WESTEC 1978b) and is situated near the southeast boundary of the San Luis Rey School, some 600 meters southwest of the intersection of Mission Road and El Camino Real. Primarily a shell midden scatter comprised of a variety of shellfish remains (Chione sp., Aquipecten sp., Ostrea sp., Donax sp.) in a matrix of slightly darkened soils, this resource exhibited only two aritifacts: a single

Tizon Brown Ware pot sherd and one quartz flake. Intensive survey in the immediate region of this site suggests that much of what may have been a large, permanent campsite has already been destroyed by construction of the adjacent school and nearby housing. Scattered shellfish remains were observed along both the southeast and northeast perimeters of the school yard, and the area of site concentration appears along what may have previously been a low-lying knoll (60 foot contour) prior to school site construction. Dimensions for this resource were incalculable due to the disturbed nature of the area.

- W-1778: Located west of El Camino Real and north of Mesa Drive, site W-1778 occupies a previously disturbed ridgeline near the 200 foot contour (WESTEC 1978b). Sighted immediately within and adjacent to SDG&E's San Luis Rey Substation, this resource is comprised of stone tools (four hammer-pounders), flaking debris, scattered shellfish remains (Chione sp., Aquipecten sp., Ostrea sp., Donax sp.) and darkened soils. Dimensions for this resource were calculated as being 40 meters (131 feet) by 30 meters (98 feet), although the site may have been larger prior to the impacts of construction related to Mesa Drive and the substation.
- W-1779: Situated on the toe of a west-facing knoll overlooking Loma Alta Creek, site W-1779 occupies some 1,050 square meters (35 x 30 meters) between the 125 and 150 foot contours. Noted during a previous study (WESTEC 1978b) were thousands of shellfish remains, primarily Donax sp., although at least one clamshell (Saxidomus sp.) was observed. Additionally, fire-cracked rocks were found in several disjunct portions of the site.

Site disturbance has occurred, but is not immediately measurable. SDG&E transmission lines lie along the site's western boundary, while the most prominent topographic feature on or near the site (to the east) has been graded flat.

• <u>W-1780</u>: This resource was encountered within and immediately adjacent to the subject right-of-way on the eastern side of El Camino Real between Oceanside

Boulevard and Vista Way (WESTEC 1978b). The two loci identified for site W-1780 are situated between the 200-220 foot contours, and occupy an area some 60 meters (196 feet) by 30 meters (98 feet), and 15 meters (49 feet) by 10 meters (33 feet) in size. Artifacts and cultural debris noted during the course of this study include hammer-pounders, chopping tools, and numerous manos; shellfish remains (Chione sp., Aquipecten sp., Donax sp., and salt water mollusk), fire-cracked rock, and dark, black soils were also observed.

Site W-1780 has received intensive disturbance from nearby development, which has obliterated approximately 0.25 acres of site material. Prior periodic grading associated with SDG&E transmission easement roads has also impacted the site, cutting into as much as one-half meter (depth) of the site's surface.

• W-1781: Occupying a ridgeline just above the 100 foot contour, site W-1781 is situated just inside the northernmost portions of the City of Carlsbad corporate boundary. The site is comprised of two separate areas exhibiting artifact concentrations, while a thin, scattered layer of cultural debris may be seen connecting the two. Site area has been estimated as 15,000 square meters, measuring 50 meters (164 feet) by 300 meters (984 feet) on a side.

Artifacts observed on the surface include two quartz projectile points, one bifacial blade fragment, one domed scraper, felsite flakes, bifacial andunifacial manos (one each), numerous (10+) hammer-pounders, two pot sherds and chopping tools. Faunal remains consist of Chione sp., Aquipecten sp., Ostrea sp., Donax sp., and numerous mammal bone fragments.

SDG&E's San Onofre to Mission right-of-way is some 30 meters east of this resource. Previous site disturbances include an earthen water reservoir, a modern house foundation, past agricultural activies, and SDG&E access roads.

• W-1782: Discovered within the immediate path of the subject right-of-way on the northern side of Agua Hedionda slough, site W-1782 occupies the toe and south-

facing slope of a low-lying knoll between the 10 to 60 foot contours (WESTEC 1978b). Observed on the surface were chopping tools, one bifacial mano, flakes, one ham nerpounder, fire-cracked rock, and shellfish remains (Chione sp., Aquipecten sp) scatte ed over an area measuring some 80 meters (262 feet) by 50 meters (164 feet) — or 4,000 square meters in size.

Previous adverse impacts to this resource consist of easement roads, transmission poles and towers, and grading (in the northeast portion of the site). Additional impacts created by foot, horse and ORV traffic have also occurred.

• W-1777: Overlooking Agua Hedionda slough to the west, site W-1777 occupies a low knoll (20-60 foot contours) extending westward from Evans Point to the east. Previously impacted by the existing SDG&E right-of-way (including the present subject corridor), agricultural activities, and access roads, the site has been reduced to 2,400 square meters in size, measuring some 40 meters (131 feet) by 60 meters (197 feet) on a side.

The site consists of a light shell midden and lithic scatter exhibiting flakes, chopping tools, a scraper, fire-cracked rock, and shellfish remains (Chione sp., Aquipecten sp.) and salt walter mollusk (WESTEC 1978b).

• W-120: Discovered during the 1920's and recorded by Malcolm Rogers in 1929, the site was described as a highland permanent camp with manos, metates, and fire hearths. Recent survey of this region for San Diego County's Comprehensive Planning Organization identified at least one locus of W-120 on the higher portions of the mesa near the 100 to 160 foot contours (Carrico 1978:personal communication).

During the two previous investigations (WESTEC 1978a; WESTEC 1978b), site W-120 was revisited, and a second locus was observed. Located at a lower elevation than the previously described locus, W-120A exhibited flakes, one mano and mano fragment, fire-cracked rocks and shellfish remains (Chione sp., Donax sp.)

scattered across an area measuring some 20 meters (65 feet) by 15 meters (49 feet) in size.

Site W-120 (both loci) is presently being impacted by easement roads, wooden transmission poles and steel lattice towers, and a large community of apparently homeless hispanic-speaking peoples.

- <u>W-1955</u>: Newly discovered during the current investigation, this site consists of a large shell midden containing an abundance of <u>Chione</u> sp., <u>Ostrea</u> sp. and <u>Pecten</u> sp. shellfish remains. Several artifacts including a scraper and flake were also observed. The site is located on a ridge one-third mile west of the intersection of El Camino Real and Alga Road and directly under and adjacent to an SDG&E power pole. An unknown amount of the site has been removed by a nearby housing development. Presently the site surface areal extent is given as 2,500 square meters.
- W-1956: Within the subject right-of-way, and along the southern slope of Escondido Creek, investigation of a concentration of exposed bedrock revealed the presence of milling surfaces on a single boulder. Two grinding slicks were noted although no other artifacts were encountered. Site disturbance is minimal, probably due to existing steep terrain and brush cover.
- W-1957: Directly to the northwest of Del Dios Road and immediately north of a large horse ranch, site W-1957 occupies the slope of a small knoll (420 foot contour) extending directly beneath an existing transmission line and access road. Previously impacted by the existing SDG&E right-of-way and agricultural activities, the site consists of lithic material scattered within an area measuring approximately 70 meters by 70 meters. The site consists of one bifacial mano, a chopping tool, one pushplane and several flakes.

- W-185: Previously recorded by Malcolm Rogers, this site was minimally described as a multi-cultural campsite with scattered mano fragments. Site W-185 was revisited and assessed during the current field survey. Updated site information indicates that the site is located on a small knoll now in a lemon grove near the 220 foot contour immediately north of the San Dieguito River. The site consists of a large, 10,000 meter square, campsite with heavily patinated metavolcanic scrapers, flakes, chopping tools, and hammerstone pounders. Several unifacial manos, various Tizon Brown Ware sherds and shellfish remains (Pecten sp.) were also noted. The site has obviously been disturbed by clearing and agriculture and a SDG&E tower is located within the site boundaries on the top of the knoll.
- W-281: The site is located south of the San Dieguito River and approximately one mile west of the San Dieguito Valley. Record search data indicates that this previously recorded site is located within the western boundaries of the subject right-of-way. However, assessment of the site area during current investigation revealed cultural material, including heavily patinated scrapers, flakes and debitage, extending the full length of a knoll (10,000 square meters) at the 320 foot contour. Site cultural material was seen within the existing right-of-way, beneath a tower, transmission lines and within the access road, and to the east and west of the subject right-of-way.
- W-1958: Immediately to the south of site W-281, a newly discovered archaeological site, W-1958, was encountered on a knoll within a 300-320 foot contour. Extending the full length of the knoll for approximately 16,000 square meters, the site consists of flakes, scrapers and shellfish remains (Chione sp.). The inventory is not extensive but was scattered over the surface in small amounts. Surface artifacts were

observed within the SDG&E right-of-way and immediately to the east on the knoll extension. Previous site disturbances include past agricultural activities and SDG&E access roads.

• W-1528: Previously recorded by Richard Norwood (1978), record searches describe this resource as a surface scatter of artifacts including two manos, ten flakes and two flaked stone tools within the SDG&E right-of-way and immediately east of the subject right-of-way in a disturbed area north of Carroll Canyon Road.

Current and previous (WESTEC 1978b) investigation of this region disclosed the resource previously recorded, and located additional cultural debris in the subject right-of-way and immediately to the east and west of an SDG&E access road. Due to periodic grading activities, these newly identified materials are scattered thinly over an area measuring 35 meters (115 feet) by 125 meters (410 feet) in size (4,375 square meters). Situated entirely above the 410 foot contour, this portion of site W-1528 consists of assorted felsite and basalt flakes and tool fragments (20+), one small domed scraper, one pushplane, one sidescraper, one hammerstone pounder, a single bifacial mano, and a limited amount of shellfish remains (Chione sp., Ostrea sp.). Site disturbance in this portion of W-1528 has been extensive; beyond the grading activities mentioned above, site W-1528 is additionally impacted by the subject right-of-way, easement roads, domestic shrubs and trees, a single building, and material refuse.

• W-114 and W-261: Record search data indicated the presence of two additional previously recorded archaeological sites, W-114 and W-261, within the existing right-of-way (Attachment 5). Both archaeological sites are represented in record search data by placement on maps of only the site numbers without exact indication of site location. Said representation, along with minimal site description,

usually indicates an early recordation of such sites, 1920s or 1930s, and only general area location without updated site information.

During the course of the current investigation, the locations of sites W-114 and W-261 were rechecked. The previously recorded site location of W-261 was thoroughly scrutinized and no evidence of cultural material was encountered within or immediately adjacent to the existing SDG&E right-of-way. Present field survey as well as recent survey data obtained through the Comprehensive Planning Organization (Carrico 1978:personal communication) also indicates that site W-114 is located approximately one-quarter mile to the northeast of the subject right-of-way.

• <u>Isolates</u>: During the course of the previous field investigations of the project right-of-way and during the current field survey, isolated artifacts that appeared to be without direct context with other artifacts or features were noted (Figures 2-1 through 2-10). The proximity of some isolates to archaeological sites would suggest that prior to as yet undetermined disturbances, these isolates could have been contained within one or another of the archaeological sites discussed in the previous subsection.

During the current field investigation an isolated chopping tool and four extremely weathered shell fragments were noted within the subject right-of-way and immediately adjacent to a transmission pole northwest of the San Luis Rey River. No other artifacts were encountered and no archaeological site has been recorded in the vicinity.

An isolated mano and several <u>Donax</u> sp. shell were noted along the subject right-of-way north of Mission Road. These materials were most probably associated with site W-1527 (documented in the report for the proposed San Onofre to Encina 230 KV circuit - WESTEC 1978a) prior to the use of this area for agricultural activities.

A single <u>Chione</u> sp. shell was noted on a low-lying knoll 180 meters north of site W-1806 (WESTEC 1978b). This isolate may have been associated with what has already been described as a heavily impacted, and highly disturbed archaeological site.

A single basalt scraper was noted immediately south of archaeological site W-1779 an sprobably associated with activities at that site.

Two isolates were also noted near site W-1781 (WESTEC 1978b); one lying 200 meters northwest, and another situated some 100 meters southeast of the site. These were identified as a basalt nammerstone-pounder and a small domed felsite scraper, respectively. It is highly probable that these isolates were more closely associated to the principal site locus prior to recent intensive disturbance.

Approximately one mile south of the Encina Hub, two isolated flakes were encountered directly beneath the power lines within the existing right-of-way.

Further south and approximately one-half mile northwest of El Camino Real, a small scatter of shellfish remains were noted on the slopes of a small knoll next to an SDG&E tower. No other artifacts were encountered although a newly recorded archaeological site, W-1955, was discovered nearby. The shell scatter consisted of eight fragments of Chione sp.

A single flake was noted within the subject right-of-way on the northern slope of Escondido Creek. The artifact isolate is most likely associated with activities conducted at the newly discovered site, W-1956, located directly opposite on the southern bank of Escondido Creek.

Two additional artifact isolates were noted during the current investigation.

A metate and a single flake were encountered directly beneath a SDG&E tower within a large pile of rocks collected beneath the tower. Since the surrounding area is presently

under cultivation (tomatoes), it is probable that the rocks had been deposited beneath the tower during field clearing. The artifact isolates may represent cultural material displaced from a nearby disturbed site by clearing or plowing.

An isolated scraper was also noted immediately south of Othello Avenue within the subject right-of-way. Recent grading and other landform alterations have severely disturbed this location. No other artifacts were recovered and no archaeological site has been recorded in the vicinity.

6.0 ARCHAEOLOGICAL RESOURCE ANALYSIS AND SIGNIFICANCE

6.1 Resource Analysis

The cultural resources present within and adjacent to the proposed San Onofre to Mission 230 KV transmission line project appear representative of a well-developed hunting and gathering group (or groups) exhibiting a limited range of diverse technologies. These resources are herein analyzed in terms of their observable qualities relative to the generalized data base for prehistoric cultures in the San Diego County region.

As previously discussed, intensive survey of the project right-of-way revealed the presence of 18 archaeological sites. Food processing, as evidenced by milling technologies, was noted at 55 percent of the sites (W-120, W-1527, W-1780, W-1782, W-1833, W-1528, W-185, W-1956, W-1957 and W-1781), while 77 percent of the sites subjected to study exhibited rather extensive surface scatters of at least four species (or subspecies of salt water shellfish). Stone working, or evidence of sharpening, using, or making stone tools, was observed at every site with the exception of sites W-1779 and SDi-4538 (88 percent). The presence of pottery, as evidenced by fragmentary remains, was noted only at sites W-1527, W-1781, W-185 and W-1833 (22 percent).

Prehistoric land use and, therefore, settlement patterns, are dependent upon several factors, including lack or presence of natural, exploitable resources, nearness to water, avoidance of areas considered taboo or beyond tribal/band boundaries, and site specific terrain. Generally, one can anticipate finding large shell midden sites within a few miles of the beach/lagoon zone because it is often more expedient in terms of search and preparation time to migrate to a major seasonal food source than it is to transport the resource back to a camp or village located several miles distant. To maximize the quantity and type of exploitable resources, large camps or villages were often situated in locales central to several major resources. Establishment of base

camps afforded prehistoric peoples the opportunity to maintain a semi-permanent central base from which they could extensively exploit the varied surrounding resources.

A group of people who operate from a semi-permanent base camp often form "a community that spends part of each year wandering and the rest at a settlement of 'central base,' to which it may or may not consistently return in subsequent years" (Beardsley 1950:138). The concept of central based gatherers is probably applicable to the prehistoric peoples who occupied the sites currently under discussion. If this is the case, these archaeological resources may represent small, satellite camps or special use areas that were occupied sporadically as support camps for larger, more permanent camps or villages located nearby. Specifically, the quantity and type of artifacts at each site are indices to the type and intensity of human activity conducted there.

6.2 Archaeological Significance

In recent years archaeologists, cultural historians and native Americans throughout California generally, and San Diego County specifically, have been formalizing previously ill-defined concepts of site significance (Moratto and Kelly 1976:193-201; Lipe 1974:213-45; May 1976; California Legal Services 1977:2-5, 8). This redefinition and clarification of basic premises has led to a more cohesive statement of significance, although several major problems still exist, e.g. the apparent conflict between some native American values and scientific research methods.

Any evaluation of significance as it may apply to cultural resources must take into account several considerations. Past criteria for judging significance have often been far too oriented toward saving or salvaging only sites or features which represented the finest, largest or most unique cultural resource. As a result of this "Cadillac" approach, cultural resources have frequently been destroyed without regard for their research potential or resource value.

In many areas large Victorian houses and structures indicative only of upper class life have been saved and restored, while at the same time little attention has been focused on preserving elements of middle or lower class life. Similarly, until recently, archaeological sites representing major village complexes, ceremonial sites or obvious occupational areas have been more likely to receive attention than have quarry sites, bedrock grinding stations or temporary campsites (Talmage et al. 1977).

If this type of highly selective assessment of significance were allowed to continue, future cultural historians would be left with a seriously skewed data base without hope of ever replacing or reconstructing the serious gaps which would exist. In an effort to avoid this self-perpetuated destruction of resources many cultural resource managers, government agencies and field researchers have begun to take a more critical assessment of significance.

A recent article by Moratto and Kelly (1976:193-202) has suggested that significance of cultural resources should be considered in light of historic, scientific, ethnic, public, geographic, monetary and legal significance. Rather than representing individual approaches to ascertaining significance, use of these criteria are employed as interdependent factors. The following assessment of significance for the cultural resources in the study area uses the system suggested by Moratto and Kelly as well as local levels of significance.

Archaeological sites can be evaluated for significance based on their ability to: (1) better explain or document a specific historic event or movement; (2) further our understanding of native American ethnic values; (3) preserve or maintain native American spiritual values; (4) transmit a feeling of, or a direct link to, the prehistoric past; or (5) represent a particular cultural pattern within a geographic or regional context.

The condition or integrity of a site must be considered when assessing significance. A site that could have many of the attributes noted above may have been severely disturbed to the point that its significance has been either lessened or destroyed.

6.2.1 Explanation or Documentaion of Historic Events or Movements

Archaeological sites can be sources of data about a specific historic event or movement if artifacts or cultural debris indicative of that event or movement are present. An example would be excavation of trash dumps associated with the early Anglo-American period, circa 1860. Stratified trash mounds might document the gradual change and historic movement from a largely Hispanic-Mexican economic system to an American-British system, as evidenced by changing ceramic wares and bottles, increase in machine-made goods and decrease in Mexican-made goods.

More specifically, a recent surface collection and limited subsurface archaeological test near Rancho Bernardo aided historians in correctly identifying the actual location of General George Kearny's ill-fated battle at Mule Hill (Schreier 1975:19-22). Prior to Mr. Schreier's investigation, the exact battle location was hotly disputed. Thus, an apparently insignificant scatter of rusted metal and leather pieces became important as a major source of documentation about a significant historic event in early American California.

None of the sites in the current study area can be said to represent or document specific historic events or movements.

6.2.2 Native American Ethnic Values

An archaeological site or natural feature can provide information about native American ethnic values by substantiating land claims or antiquity of territorial possession. Recent damage suits insituted by native Americans against water districts and the Federal Government have been won or lost partially on the basis of archaeological/anthropological data (Ezell 1961; Ezell and Carrico 1975). In that sense, an archaeological site can be a significant resource as an ethnic reference point, as proof of prehistoric occupation or as a source of ethnic identity.

At this stage of research, none of the sites currently under study appear to contain data or resources that could fulfill the above requirements. A majority of the sites are probably not ethnically associated with contemporary native people. Additionally, the site appears to lack the spectrum of data necessary to document ethnic identity.

6.2.3. Native American Spiritual Values

Native American spiritual values may make an otherwise seemingly insignificant site highly significant. The presence of sacred crystals, human burials or artifacts associated with religious practices can dramatically increase the threshold of site significance. Thus, spiritual or sacred significance can transcend the physical manifestation of a site. For example, although a site may be severely disturbed to the point that it possesses only minimal scientific value, the presence of human bone or sacred stones must be considered as evidence of significant cultural values.

Archaeological analysis of surface debris indicated a lack of those artifacts associated with spiritual values. Ethnographic data and consideration of living native Americans would aid in this assessment and will be evaluated if input from native representatives is received.

6.2.4 Direct Link or Bond with the Past

Large shell middens, bedrock pockmarked with grinding holes, and fragments (sherds) of prehistoric pottery on the surface of a site can constitute a link or bond with the distant past. Adults as well as children can thrill to the experience of holding a 9000 year old stone tool or feeling the 500 year old thumbprint indentations in a clay fragment. Outdoor museums or sites left in open space can relay a sense of the past not often found in textbooks.

The significance of visually apparent sites is that they afford an opportunity for interested citizens to see, touch and feel a glimmer of the past. Increased urbanization and concomitant destruction of such educationally valuable sites reduces

the opportunity for the public to view these sites and thus increases the significance of those that remain.

Past impacts, the irregular distribution of surface debris and the absence of aesthestically or visually appealing features of sites may negate the possibility that these sites as a whole can be seen as direct, tactile links with the past. However, certain features, e.g. bedrock milling complexes, may serve as tactile links although the surrounding site is destroyed or badly impaired.

6.2.5 Sites as Sources of Potentially Unique Scientific Data

A final measure of significance is the importance of a site in explaining or clarifying regional/geographic archaeological uniqueness. The effects of the southern California coast upon native populations were profound. The availability of fresh waters, the proximity to easily exploited lagoons, the lushness of the canyons, and temperate climate provided an environmental setting unlike any other.

The archaeological sites in the coastal zone and on adjacent plains provide a chance to study intense settlement patterns, the dietary adaptations of prehistoric peoples, the social mechanisms associated with semi-maritime cultures, and the gradual depopulation of the coast. As coastal land becomes more urbanized, coastal archaeological sites are lost with little or no data recovery. These resources are truly nonrenewable and sufficiently different to warrant at least minimal scientific testing.

The observed assemblages of cultural debris at sites W-1777 through W-1782 (inclusive), W-120, W-1527, W-1806, W-1833, W-1528, W-185, W-281, W-1955 through W-1958 and SDi-4538 may represent ill-defined, but probably unique and significant cultural resources. The question of significance in relation to archaeological resources can no longer be answered solely in terms of scientific value. The significance of any given archaeological site is multifaceted; consideration of only one of these aspects is wasteful at best. As suggested by Moratto and Kelly (1976:193-202), the significance of archaeological resources should be assessed in several terms,

including: research value to the scientist; aesthetic, cultural and economic values to the community at large, and; cultural heritage values to present-day native American peoples.

As resources for scientific inquiry, the 18 archaeological resources identified during the current study may possess information about prehistoric lifeways including diet, seasonality, lithic technology, settlement patters, regional dispersal and cultural change. Investigation of these archaeological locales which determines site function, provides data relative to inter-site relationships or refines the determination vis-a-vis cultural affinity would be a significant contribution to the prehistory of San Diego County.

Local native Americans may also view these resources as culturally significant to further documentation of their rich heritage, although no materials or locations were observed which might immediately be identified as displaying aspects of spiritual, mythological or religious importance.

6.3 National Register Evaluation

Archaeological resources in the study area vary from sites apparently possessing little scientific, cultural or aesthetic value, to sites that may be eligible for the National Register. At this time it is not possible to fully assess the archaeological sites in the study area by National Register Criterion (d). In brief, Criterion (d) states that properties may qualify for the National Register if they have yielded or might yield data or information significant to interpreting the prehistory or history of an area. Although each site in the study area can no doubt yield some information, it appears that two sites may warrant National Register status.

These two sites are SDi-4538 and W-120. Site SDi-4538 is located within the Camp Pendleton Marine Corps base and within the transmission corridor although not in a construction area. Site W-120 is located adjacent to the Encina Hub and south of an area slated for new construction.

6.3.1 Site SDi-4538

Site SDi-4538 as a whole is probably eligible for National Register status. The known presence of portions of at least one human skeleton coupled with the large areal extent of a midden deposit in an area that has received only limited archaeological investigation is evidence that this site may yield important data. Specifically the possibility of Juane rather than Luise cultural affinity may be examined at SDi-4538, or, if the site proves to be pre-Late Milling, an opportunity to document Early Milling patterns, e.g. Chumash versus La Jolla, may present itself.

The transmission corridor traverses a small, and severely damaged, portion of SDi-4538. Any further assessment or evaluation of SDi-4538 should involve the Department of the Interior and the responsible officers within the Marine Corps base itself. The bulk of the undisturbed portion of SDi-4538 as a whole is well-beyond the study area and removed from SDG&E jurisdiction. As currently proposed, no construction or new ground activity will result from the proposed project.

6.3.2 Site W-120

Site W-120 is one of several large archaeological sites situated along the upland terraces of ancient Agua Hedionda. Malcolm Rogers noted that this site contained artifacts from the late San Dieguito culture, the late La Jolla peoples and from the last group to inhabit, San Diego County, the Late Milling peoples (Northern Dieguero?). Test trenching at this site by Malcolm Rogers revealed cultural debris to almost one meter in depth (Rogers n.d.).

In the more than 50 years since Rogers recorded W-120, the two-acre sporadic midden site has been relic collected, randomly excavated and criss-crossed with dirt roads. Local relic collectors boast of the quantity and variety of artifacts that they have spirited away from this site. Yet, in spite of all these impacts, the site retains large unmolested areas worthy of future assessment and investigation.

In a soon to be published cultural resource inventory of the Carlsbad region, the Comprehensive Planning Organization (CPO) recommends that W-120 be considered for inclusion to the National Register. That recommendation is based on the extent of the site, the cultural variation present there, the location of the site on the supposed "boundary" between Northern Dieguero and Leisero peoples, and the research potential possessed by the site. Site W-120 was one of 22 from a total of 103 archaeological sites noted in the CPO study area which were recommended for National Register inclusion.

6.4 Summary of Significance

All present-day human populations have evolved from pre-historic hunters and gatherers or foragers more similar to the ancient inhabitants of southern California than dissimilar. The basic human needs of food, water and shelter were fulfilled in similar ways along the prehistoric coasts of France, Africa, as well as southern California. Salvage and preservation of significant archaeological resources can provide insights into prehistoric life. To learn about the native peoples of the survey area is to learn more about our own ancient roots.

7.0 POTENTIAL ADVERSE IMPACTS

Based on current survey and record search data and preliminary construction plans, the following impacts may adversely affect known cultural resources within the proposed project area.

7.1 Direct Adverse Impacts

For the purpose of this study, direct impacts are defined as those alterations in landform or altered land use that are a function of proposed installat on of new wooden structures, replacement of existing wooden structures and the proposed impact zones due to the addition of a circuit to existing towers. All new structures will be constructed within existing rights-of-way and, where possible, adjacent to existing towers.

7.1.1 Historic Resources

With the exception of the adobe ruin near Buena Vista Lagoon, and the recurring presence of El Camino Real mentioned earlier, no sites of historic significance or proven National Register status are known within or adjacent to the immediate project area. El Camino Real is recognized as California Historic Landmark number 784; the adobe ruin is as yet officially unrecognized. No known historic resources are within proposed impact zones or areas of new construction.

7.1.2 Prehistoric Resources

As discussed in Section 1.1, the major areas of new construction for the proposed project and, thus, the areas with the greatest potential for being adversely impacted, are the 0.6 mile segment of the right-of-way just east of the Oceanside Airport, the 5.6 miles between the San Luis Rey Substation and the Encina Hub, and the 4.2-mile segment of the right-of-way west of Miramar Naval Air Station (Figures 2-4 through 2-10). These areas contain archaeological sites W-1806, W-1777, W-1778, W-1779, W-1780, W-1781, W-1782, and W-1528

(Figures 2-4 through 2-10), which could potentially be adversely impacted by the proposed project.

Additional direct adverse impacts may occur during addition of one circuit throughout the existing San Onofre to Mission 230 KV transmission line right-of-way. Where vacant positions currently exist on the lattice towers, the new circuit would be pulled into place using specific conductor (puller and reel) stringing locations (proposed impact zones) as previously discussed in Section 1.1 and shown in Figures 2-1 through 2-10. Archaeological sites W-1778 and W-1528 are also situated within proposed staging locations and could be adversely impacted by the proposed project (Figures 2-4 and 2-9).

The remaining archaeological sites described in this report (W-1527, W-120, SDi-4538, W-1833, W-185, W-281, W-1955, W-1956, W-1957, and W-1958) will not be adversely impacted by proposed new construction or conductor stringing operation sites.

8.0 MITIGATION MEASURES

Based on curent survey data, record search responses, and preliminary construction plans for those portions of the proposed San Onofre to Mission 230 KV circuit scheduled for new construction, or conductor stringing operation sites, archaeological sites W-1777 through W-1782 (inclusive), W-1528, and W-1806 could be adversely impacted by the proposed project.

The areas of new construction for the proposed project are the 1.0-mile segment of the right-of-wer east of Oceanside Airport, the 5.6-mile segment between the San Luis Rey River and Encina Hub, and the 4.2-mile segment along the flight path west of Miramar Naval Air Station. As noted previously (Figures 2-4 through 2-10), these areas contain sites W-1777, W-1778, W-1779, W-1780, W-1781, W-1782, W-1528, and W-1806. Mitigation measures proposed by SDG&E to minimize or limit potential adverse impacts to these resources are as follows:

Phase I: Controlled, accurate instrument surveys for the locations and perimeters of these cultural resources within SDG&E's right-of-way will be made, and the data transferred to the appropriate SDG&E project maps (scale: 1" = 200'). Ground cover surrounding these resources ought to be sufficiently scrutinized and cleared to allow more accurate definition of each site's horizontal extent. Such a measure will provide a more accurate assessment with regard to the potential for direct adverse impacts.

Phase II: Based on the results of instrument surveys, SDG&E engineers for the proposed project should assess the possibility of avoiding those archaeological resources proven (by Phase I above) to exist within sensitive portions of the project right-of-way, i.e. within areas scheduled for new transmission towers/poles, SDG&E access roads, and construction or winching staging areas. This measure

would allow SDG&E to implement avoidance procedures which might better preserve the affected resources and preclude damaging archaeological testing procedures.

Phase III: For those cultural resources located in portions of the project area where avoidance is a viable engineering alternative, SDG&E's project engineers will design the project so that no construction will occur within or in the immediate vicinity of those resources, as defined by detailed mapping. Within the constraints of viable engineering design, SDG&E would incorporate into the project construction specifications a clause prohibiting any construction activities (including equipment staging, material storage, and construction of access roads) within or in the immediate vicinity of these archaeological sites.

Phase IV: For those cultural resources located in portions of the project where avoidance is not feasible, the results of contacts with appropriate native American representatives will be used to ascertain the existence of any religious or sacred values associated with those resources. If such values are found, further discussions would be held to determine an acceptable course of investigation/mitigation. Alternatives to the general methods described below could include capping to preserve the resource, or the attendance of a native American representative during any subsurface testing.

The general method of investigation will include surface collection and controlled, limited subsurface testing to assess those resources' subsurface extent. A combination of testing methods, to include mechanical trenching (e.g. ditch witch) and hand excavated test pits (i.e. 1 x 1 meter square) should be implemented to assess the nature, extent, and condition of any existing subsurface cultural deposits. All excavated (mechanical and hand-dug) soil should be passed through one-eighth-inch mesh hardware cloth and scrutinized by professional archaeologists to ascertain the presence or absence of subsurface cultural debris. Completion of

the subsurface testing procedures should be followed by a timely report detailing the fieldwork, results, disposition of cultural materials removed from the subsurface, and necessity for additional testing or other mitigation measures, if applicable.

9.0 CONCLUSIONS

The archaeological resources encountered within the San Onofre to Mission 230 KV transmission line right-of-way include some which are unique and significant cultural remains. The presence of these resources in an area which possesses the possibility for answering myriad questions about past lifeways enhances their significance and scientific value. Specific steps have been recommended to mitigate potential direct adverse impacts upon those resources within the right-of-way boundaries which could be affected by scheduled new construction or conductor staging operations. If these recommendations are implemented as noted in Section 8.0, valuable archaeological resources, specifically sites W-1528, W-1777 through W-1782, and W-1806 will not be lost nor impaired.

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Attachment 1
RESUMES

Ph.D.	Anthropology, University of Arizona at Tucson, 1956
M.A.	Anthropology, University of Arizona at Tucson, 1939
B.A.	Archaeology, University of Arizona at Tucson, 1937
A.A.	Sacramento Junior College, Sacramento, California, 1935

1977	Consultant,	WESTEC	Services.

- 1973-1978 Senior Investigator for Cultural Resources Inventory of Camp Pendleton, U.S. Marine Corps Base, California.
- 1973-1976 Mayor's Sciences Resources Panel, San Diego.
- Consultant, Colorado River Indian Tribes Museum excavations 1971 in the ruins of La Paz, Arizona.
- 1971-1975 Director, Applied Archaeological Program, Department of Anthropology and San Diego State University Foundation.
- 1970-1974 Director, excavation at Bancroft Ranch House, Spring Valley Historical Society.
- 1969 Summer excavation in Sweden (Viking cemetery).
- 1968 Consultant, Peace Corps Training Program.
- 1966-1968 Visiting lecturer, American Anthropological Association.
- 1966-1976 Project superintendent, Royal Presidio Excavation Project, San Diego Historical Society.
- 1964-1965 Visiting anthropologist for Cornell University, Coordinator of the Cornell Andean Research and Development Program in Bolivia, Ecuador, and Peru.
- 1956 Came to San Diego State College as Assistant Professor of Anthropology, now Professor of Anthropology Emeritus.
- 1956 Spring and summer, taught part-time, instructor in anthropology at, then, Arizona State College at Flagstaff, Arizona.
- 1956 Part-time Instructor in Anthropology, Arizona State College, Flagstaff, Arizona; conducted additional salvage excavations for El Paso Natural Gas Company; archaeological survey, El Paso Natural Gas Company Pipe Line route, Ashfork to Glendale, Arizona.

1955	Archaeological Survey, Southern Pacific Gas Line route across the Gila River Indian Reservation, Arizona.
1951	Began working as research anthropologist for the Gila-Pima-Maricopa Indian community.
1950	Carried out archaeological survey for the U.S. National Park Service; archaeologist on the El Paso Natural Gas Company Pipe Line through Arizona.
1949	Assistant excavation foreman, University of Arizona Archaeo- logical Field School at Point of Pines, Arizona.
1948	Re-entered the University of Arizona; granted the Ph.D. in Anthropology, 1956.
1946-1948	U.S. Immigration Border Patrol, Ajo, Arizona.
1943-1946	Served in the United States Navy.
1941-1943	U.S. Immigration Border Patrol, El Paso, Texas and Las Cruces, New Mexico.
1941	Field Supervisor, WPA Archaeological Project, Hillsboro, North Carolina.
1940	Laborer, Temporary Ranger, and Guide, U.S. National Park Service at Tonto, Walnut Canyon, and Casa Grande National Monuments, Arizona.
1939	Field Supervisor, WPA Archaeological Project, Pueblo Grande, Arizona.
1938	Assistant excavation foreman, Sul Ross-Peabody Expedition in the Big Bend, Texas.

Associations and Societies:

American Anthropological Association (Retired Fellow).

American Indian Ethnohistoric Conference.

American Society for Conservation Archaeology.

Archaeological Fellowship, San Diego State University (Advisor).

PAUL H. EZELL Page 3

Arizona Archaeological and Historical Society (Editor, "The Kiva," 1953-1955).

Arizona State Museum, Research Associate, 1951-1954.

Instituto Indigenista Americano.

Pacific Coast Archaeological Society (Advisor).

San Diego County Archaeological Society (Advisor).

San Diego Historical Society.

San Diego Museum of Man Association.

Society for Applied Archaeology (Fellow).

Society for Historical Archaeology.

Society for American Archaeology.

Southwestern Anthropological Association (President 1967-1968).

Society of Professional Archaeologists

Honors and Awards:

1976	Professor	Emeritus	of	Anthropology,	San	Diego	State	University.
1974	President,	Society	for	Californ's A	rchae	eology		

1969 Thord Gray Fellowship in Sweden, American-Scandinavian Foundation.

1968 President, Southwestern Anthropological Association.

1953 Holiday Fellowship in History, University of Arizona.

1952 Stillhamer Research Grant, American Association for the Advancement of Science.

1937 B.A. with distinction.

1935 A.A. with distinction.

Bibliography:

1977 Evidence for the Use of Mastic in Hafting Blades in the San Dieguito Complex. The Journal of alifornia Anthropology (in press).

- 1976 The Excavation Program at the San Diego Presidio. The Journal of San Diego History XXII: 1-20.
- 1972 (with Noel D. Broadbent) Archaeological Investigations at the Casa de Jose Manual Machado (The Sterart House). Pacific Coast Archaeological Society Quarterly, Vol. 9, No. 4, October, pp. 1-34.
- The Archaeological Survey of the Fallbrook and De Luz Reservoir Sites, Santa Margarita Project. Pacific Coast Archaeological Society Quarterly, Vol. 8, No. 3, July, pp. 27-37.
- Background to Battle: Circumstances Relating to Death on the Gila, 1857 (as junior author with Greta S. Ezell). <u>In:</u>
 Troopers West: Military & Indian Affairs on the American Frontier Ray Brandes (editor). Frontier Heritage Press, San Diego, pp. 168-187.
- 1970 A chapter from the logbook. The Journal of San Diego History, Fall, pp. 20-24.
- The Cocomaricopa Mail. In: Brand Book Number One, pp. 28-34, San Diego Corral of the Westerners.
- Magnetic Prospecting in Southern California (with James R. Moriarty, John D. Mudie and Anthony I. Rees). American Antiquity, Vol. 31, No. 1, pp. 112-113, July.
- 1963 The Maricopas: An identification from documentary sources.
 Anthropological Papers, No. 6. University of Arizona Press.
- 1963 Is there a Pima-Hohokam continuum? American Antiquity, Vol. 29, No. 1, pp. 61-66. Society for American Archaeology.
- Death of a Society (with Henry F. Dobyns and Greta S. Ezell).

 Ethnohistory, Vol. 10, No. 2, pp. 105-161. American Ethnohistoric Conference. Indiana University. Reprinted in The Emergent Native Americans: A Reader in Culture Contact Deward E. Walker, Jr. (editor), Little, Brown and Company, Boston, 1972, pp. 192-217.
- The Hispanic Accultuation of the Gila River Pimas. Memoir Series, No. 90. American Anthropological Association.
- What were Nixora? (with Henry F. Dobyns, Alden W. Jones and Greta S. Ezell). Southwestern Journal of Anthropology, Vol. 16, No. 2, Summer, pp. 230-258. University of New Mexico Press.

- 1959 Sonoran Missionaries in 1670 (with Henry F. Dobyns). New Mexico Historical Review, Vol. XXIV, No. 1, pp. 52-54, January, University of New Mexico Press.
- An early geographer of the Southwest: Father Diego Bringas.

 El Museo, Vol. 11, No. 2 (n.s.), May, pp. 18-30. San Diego

 Museum of Man.
- Thematic changes in Yuman warfare (with Henry F. Dobyns, Alden W. Jones and Greta S. Ezell). In: Cultural Stability and Cultural Change Proceedings of the 1957 Annual Spring Meeting of the American Ethnological Society, pp. 46-71.
- 1957 Fray Diego Bringas, a forgotten cartographer of Sonora.

 Imago Mundi, Vol. XII, pp. 150-158. Mouton & Co., The Hague,
 The Netherlands.
- The conditions of Hispanic-Pimen contacts on the Pima River.

 America Indigena, Vol. XVII, No. 2, April, pp. 164-191.

 Instituto Indigenista Interamericano, Mexico, D.F.
- 1957 Indians finally get compensation. Editorial, San Diego Union January 26, San Diego.
- 1956 Spanish leader visited pueblo. Feature article, Arizona Daily Star, February 23, Tucson.
- The Arizona section of the San Juan Pipeline (with Wesley L. Bliss). In Pipeline Archaeology, edited by Fred Wendorf, pp. 81-139. Laboratory of Anthropology, Santa Fe, and Museum of Northern Arizona, Flagstaff.
- 1955 Research in the archives in Mexico, D.F. (with Greta S. Ezell).
 Arizona Quarterly, Vol. 11, No. 3, Autumn, pp. 251-258.
 University of Arizona, Tucson.
- 1955 Indians under the law: Mexico, 1921-1947. America Indigena, Vol. XV, No. 3, July, pp. 199-214. Instituto Indigenista Interamericano, Mexico, D.F.
- The archaeological delineation of a cultural boundary in Papgueria. American Antiquity, Vol. 20, No. 4, April, pp. 367-374. Society for American Anthropology.
- 1955 An artifact of human bone from eastern Arizona (w h Alan P. Olson). The Plateau, Vol. 27, No. 3, January. Mu sum of Northern Arizona, Flagstaff.

PAUL H. EZELL Page 6

- An archaeological survey in northwestern Papagueria. The Kiva, Vol. 19, No. 2, Spring. Arizona Archaeological Society, Tucson.
- 1937 Shell work of the prehistoric Southwest. The Kiva, Vol. 3, No. 3, December. Arizona Archaeological and Historical Society, Tucson.



RICHARD L. CARRICO

Historian Manager, Cultural Resources Group

M.A. History, San Diego State University, 1976

B.A. Anthropology, San Diego State University, 1975

B.A. History, San Diego State University, 1972

WESTEC Services, Inc., 1973 to present Archaeological and Historical surveys and excavations, 1970 to present

WESTEC Services, Inc.

Environmental impact investigations and accompanying analyses of residential, commercial and industrial project sites' historical and archaeological resources. Investigations include field investigation, mapping, identification of cultural artifacts, and laboratory research. Has conducted archaeological/historical surveys throughout southern California. Has served as excavation director for several archaeological salvage projects. Designated qualified historian and archaeologist by San Diego County Environmental Review Board, and Society of Professional Archaeologists.

San Diego State University

Dig foreman at Bancroft Ranch House site, 1973-74. Completed archaeo-logical-historical investigations for San Diego State University Foundation in conjunction with private developers, the California Department of Transportation and on behalf of the Pima - Papago and Maricopa Indians.

Copley International

Completed primary research on a historical survey of the San Diego Santa Fe Depot for an Environmental Impact Report.

Palomar Community College

Employed as an instructor of Archaeology, 1974-75.

Mesa Community College

Employed as an instructor of Archaeology, 1976 to present.

Archaeological Investigations (Private)

Served as dig foreman on six San Diego North County sites: W-450, W-459, W-551, W-578, LSF-7, and LSF-2. Over 6,000 hours of excavation experience, survey experience and archaeological research.

Publications

- Journal of San Diego History, "Identification of Two Burials at the Presidio de San Diego," (Fall 1973).
- Petroglyph: Newsletter of SDSU Anthropology Department, "The Bancroft Ranch Site," (Fall 1973); "Archaeology as Art," (Winter 1973).
- Indian Historian, "The Wilderness Concept: An Anglo-Ethnocentric
 View of Over-Reaction," (at press).
- San Diego County Archaeological Society Occasional Paper No. 1, "The Bancroft Ranch House: A Preliminary Report," (December 1974).
- Journal of San Diego History, "Review of San Diego Indians as Farmers by Ted Couro," (Fall 1976).

Papers Presented

- "The Impact of the Railroad on Europe, 1848-1860," Phi Alpha Theta Conference, 1972.
- "The American Wilderness: A Study in Ethnocentric Over-Reaction,"
 Phi Alpha Theta Conference, 1973.
- "The Bancroft Ranch House: From Kumeyaay Village to Anglo Ranch," Society for Historical Archaeology Conference, Berkeley, California, 1974.
- "The Romero Burials at the Presidio de San Diego," Society for Historical Archaeology, Berkeley, California, 1974.
- "Archaeologists and Developers: A Symposium," Society for California Archaeology, San Diego, California, 1976.

Manuscripts

- "The Presidio de San Diego: From Fresh Adobe to Excavated Ruins," manuscript on file at the Serra Museum, San Diego Historical Society.
- "An Architectural and Historical View of the Presidio de San Diego Chapel," manuscript on file at Serra Museum, San Diego Historical Society.
- Editor of the Archaeological Fellowship of San Diego State University Newsletter and Quarterly Journal, 1973-1974.

Awards

Old Town Historians: Graduate Award for "An Architectural and Historical View of the Presidio de San Diego Chapel."

Professional Affiliations

Society for California Archaeology
Society for Historical Archaeology
Pacific Coast Archaeological Society
San Diego County Archaeological Society
Archaeological Fellowship of San Diego State University
San Diego Historical Society
Pacific Historical Society
Spring Valley Historical Society
Phi Alpha Theta - Honorary Historical Society

LESLEY C. ECKHARDT

Project Archaeologist

M.A. Archaeology, University of the Americas, Puebla, Mexico (pending) B.A. Anthropology, University of California, Riverside, 1975

WESTEC Services, Inc., 1977 to present Archaeological and Historical surveys and excavations, 1971 to present

WESTEC Services, Inc.

Environmental impact investigations and accompanying analyses of residential, commercial and industrial project sites' historical and archaeological resources. Investigations include field investigation, mapping, identification of cultural artifacts and laboratory research. Has conducted archaeological/historical surveys throughout southern California. Has served as excavation director for several archaeological salvage projects. Designated qualified archaeologist in Field Research by Society of Professional Archaeologists.

California Department of Transportation

Conducted excavations and analyses for state and federally funded highway projects.

University of California, Riverside

Conducted field surveys and excavations for private firms, state and federal agencies and the Archaeological Research Unit of UCR. Was actively involved in organizing and maintaining accurate field records and data banks.

Riverside County Parks Department

Conducted field surveys, excavations and analyses for department projects.

Bureau of Land Management, Riverside

Conducted field surveys and was actively involved in organizing and maintaining field records and data banks.

LESLEY C. ECKHARDT Page 2

Riverside City Museum

Conducted field surveys and analyses for museum projects.

University of the Americas, Mexico

Served as Assistant Instructor of Archaeology. Also conducted excavations and analyses for University projects.

Institute of Anthropology and History, Mexico

Conducted extensive field investigation at Cacaxtla, Tlaxcala. Investigations included excavation, mapping, identification of cultural artifacts, and laboratory research.

Publications

Perris Reservoir Archaeology, "Floral Remains," 1973.

Papers Presented

"Discovery of a New Pictograph Site in Rancho Dernardo, San Diego County," Annual Museum of Man Rock Art Symposium, 1977.

Manuscripts

Special Studies in "Archaeological Test Excavations in Moosa Canyon," California Department of Transportation, 1978.

Over thirty environmental impact reports, including excavation, field survey, and analysis material, on file with City and County of San Diego.

Organizations

Society for California Archaeology San Diego County Archaeological Society Archaeological Resource Management Society Spring Valley Historical Society Society of Professional Archaeologists

LESLEY ECKHARDT Page 3

Honors and Awards

1978	Membership Chairperson, Archaeological Resource Management		
1976	Graduate Fellowship, Anthropology Department, University of the Americas, Mexico		
1970-74	Dean's Honor List: University of Arizona, Tucson; Riverside City College, California; University of California, Riverside		
1966	Valedictorian, Victor Valley High School, California		

Randy L. Franklin

Associate Archaeologist

Associate in Arts, Palomar Junior College, San Marcos, California, 1978 Archaeological Certification, Palomar Junior College, San Marcos, California, 1978

WESTEC Services, Inc., 1977 to present

WESTEC Services, Inc.

As an associate archaeologist, Mr. Franklin investigates environmental impacts related to historical and archaeological resources. As a member of the Cultural Resources Group, his investigations and analyses are related to residential, commercial and industrial project sites. His experience includes field investigations and mapping, in addition to identification of cultural artifacts and laboratory research. He has conducted archaeological/historical surveys throughout San Diego County and has served as excavation field supervisor for several archaeological salvage projects.

Organizations

San Diego County Archaeological Society Sierra Club

Honors and Awards

1976-77 Dean's Honor List: Palomar Junior College, San Marcos, California

The following personnel who served as archaeological aides have, or are in the process of receiving, degrees in fields related to archaeological analysis.

These persons are deemed qualified to serve as archaeological surveyors: Cheri Briggs, Sandy Day, Brenda Gelinas, Roxana Phillips, Keith Rhodes, Neil Rhodes, Jay Thesken, and Tom Thurbur.

Attachment 2
PERSONS CONSULTED

WESTEC Services, Inc. 3211 Frith Avenue San Diego, CA 92103 (714) 294-9770



78-287E-3584 December 20, 1978

Ms. Rosalie Robertson 1174 Lexington Avenue El Cajon, California 92020

Subject: SDG&E Proposed Expansion of San Onofre to

Mission/Encina 230 KV Transmission Line

Dear Ms. Robertson:

I would like to bring to your attention the San Diego Gas & Electric Company's proposed San Onofre to Mission/Encina 230 KV transmission line expansion. This project is within an existing right-of-way, and will consist of new structure installation plus modification of existing structures. Topographic maps outlining the project's boundaries are enclosed.

In our capacity as archaeological consultants, WESTEC Services, Inc. has been retained to conduct this study. It is our concern that all, or portions, of the property described above may have social significance to present-day native American peoples. Record searches requested from San Diego State University and San Diego Museum of Man disclosed twenty previously recorded native American sites within the entire project area. These sites are representative of the technology and cultural heritage of early native American peoples: W-114 (SDi-1016); W-119; W-120; W-121; W-127A (SDi-210); W-137 (SDi-4990); W-139; W-178; W-185; W-261; W-281; W-393; W-696; W-940; W-954; W-1527 (SDi-5445); W-1528 (SDi-5444); W-1632 (SDi-5455); SDi-4538; and SDi-5536. Additionally, it has come to be recognized that certain areas, whether cultural remains are to be found there or not, may have sacred or religious significance to present-day native Americans. Within your jurisdiction as the native American representative the following sixteen sites have been recorded: W-114 (SDi-1016); W-119; W-120; W-121; W-127A (SDi-210); W-178; W-185; W-261; W-281; W-393; W-696; W-940 (SDi-4402); W-054 (SDi-4538); W-1528 (SDi-5444); W-1632 (SDi-5455); and SDi-5536.

We are not qualified to address these questions directly, so we would request your advice on the matter. As a representative for Kumeyaay Incorporated, we would appreciate any comments, information or advice you might offer.

WESTEC Services, Inc. has conducted a field survey of the power line right-of-way, to evaluate the condition of previously recorded sites and document the presence of any previously

Ms. Rosalie Robertson December 20, 1978 Page Two

unrecorded cultural remains. The Public Utilities Commission, the State Office of Historic Preservation, and the Nuclear Regulatory Commission will assess the impact of this proposed development to environmental resources in the region; in part on the basis of our report and any additional public input. When the study is completed, we will be pleased to provice you with a copy of t'e archaeological report for your consideration.

Copies of this letter have been sent to Stephen Rios, Patricia Duro, Henry Rodriquez, and Vincent Ibanez.

If you have any questions regarding this study or require additional information, please contact the undersigned at 714-294-9770.

Thank you for your assistance in this matter.

Respectfully.

Winail JA Richard L. Carrico Manager, Cultural

Resources Group

RLC/rc

Enclosures

WESTEC Services. Inc. 3211 Fifth Avenue San Diego. CA 92103 (714) 294-9770

78-283E-3584 December 20, 1978

Mr. Henry Rodriquez
P. O. Box 281
Pauma Valley, California 92061

Subject: SDG&E Proposed Expansion of San Onofre to Mission/Encina 230 KV Transmission Line

Dear Mr. Rodriguez:

I would like to bring to your attention the San Diego Gas & Electric Company's proposed San Onofre to Mission/Encina 230 KV transmission line expansion. This project is within an existing right-of-way, and will consist of new structure installation plus modification of existing structures. Topographic maps outlining the project's boundaries are enclosed.

In our capacity as archaeological consultants, WESTEC Services, Inc. has been retained to conduct this study. It is our concern that all, or portions, of the property described above may have social significance to present-day native American peoples. Record searches requested from San Diego State University and San Diego Museum of Man disclosed twenty previously recorded native American sites within the entire project area. These sites are representative of the technology and cultural heritage of early native American peoples: W-114 (SDi-1016); W-119; W-120; W-121; W-127A (SDi-210); W-137 (SDi-4990); W-139; W-178; W-185; W-261; W-281; W-393; W-696; W-940; W-954; W-1527 (SDi-5445); W-1528 (SDi-5444); W-1632 (SDi-5455); SDi-4538; and SDi-5536. Additionally, it has come to be recognized that certain areas, whether cultural remains are to be found there or not, may have sacred or religious significance to present-day native Americans. Within your jurisdiction as a native American representative, three sites -- W-137 (SDi-4990), W-139, and W-1527 (SDi-5445) -- have been recorded.

We are not qualified to address these questions directly, so we would request your advice on the matter. As a representative for the affected native American people from the San Luis Rey River to the Agua Hedionda Lagoon, we would appreciate any comments, information or advice you might offer.

WESTEC Services, Inc. has conducte' a field survey of the power line right-of-way, to evaluate the condition of previously recorded sites and document the presence of any previously

Mr. Henry Rodriquez December 20, 1973 Page Two

unrecorded cultural remains. The Public Utilities Commission, the State Office of Historic Preservation, and the Nuclear Regulatory Commission will assess the impact of this proposed development to environmental resources in the region; in part on the basis of our report and any additional public input. When the study is completed, we will be pleased to provide you with a copy of the archaeological report for your consideration.

Copies of this letter have been sent to Steve Rics, Vincent Ibanez, Rosalie Robertson, and Patricia Durc.

If you have any questions regarding this study or require additional information, please contact the undersigned at 714-294-9770.

Thank you for your assistance in this matter.

Respectfully,

Richard L. Carrico Manager, Cultural Resources Group

RLC/rc

Enclosures

WESTEC Services. Inc. 3211 Fifth Avenue San Diego, CA 92103 (714) 294-9770



78-286E-3584 December 20, 1978

Mr. Vincent Ibanez
Tribal Representative
Pechanga Reservation
P. O. Box 181
Temecula, California 92390

Subject: SDG&E Proposed Exapnsion of San Onofre to Mission/Encina 230 KV Transmission Line

Dear Mr. Ibanez:

I would like to bring to your attention the San Diego Gas & Electric Company's proposed San Onofre to Mission/Encina 230 KV transmission line expansion. This project is within an existing right-of-way, and will consist of new structure installation plus modification of existing structures. Topographic maps outlining the project's boundaries are enclosed.

In our capacity as archaeological consultants, WESTEC Services, Inc. has been retained to conduct this study. It is our concern that all, or portions, of the property described above may have social significance to present-day native American peoples. Record searches requested from San Diego State University and San Diego Museum of Man disclosed twenty previously recorded native American sites within the entire project area. These sites are representative of the technology and cultural heritage of early native American peoples: W-114 (SDi-1016); W-119; W-120; W-121; W-127A (SDi-210); W-137 (SDi-4990); W-139; W-178; W-185; W-261; W-281; W-393; W-696; W-940; W-954; W-1527 (SDi-5445); W-1528 (SDi-5444); W-1632 (SDi-5455); SDi-4538; and SDi-5536. Additionally, it has come to be recognized that certain areas, whether cultural remains are to be found there or not, may have sacred or religious significance to present-day native Americans. Within your jurisdiction as the native American representative, one site -- SDi-4538 -- has been recorded.

We are not qualified to address these questions directly, so we would request your advice on the matter. As a representative for the people of Pechanga, we would appreciate any comments, information or advice you might offer.

WESTEC Services, Inc. has conducted a field survey of the power line right-of-way, to evaluate the condition of previously recorded sites and document the presence of any previously

Mr. Vincent Ibanez December 20, 1978 Page Two

unrecorded cultural remains. The Public Utilities Commission, the State Office of Historic Preservation, and the Nuclear Regulatory Commission will assess the impact of this proposed development to environmental resources in the region; in part on the basis of our report and any additional public input. When the study is completed, we will be pleased to provide you with a copy of the archaeological report for your consideration.

Copies of this letter have been sent to Stephen Rios, Patricia Duro, Henry Rodriquez, and Rosalie Robertson.

If you have any questions regarding this study or require additional information, please contact the undersigned at 714-294-9770.

Thank you for your assistance in this matter.

Respectfully.

William Committee

Richard L. Carrico Manager, Cultural Resources Group

RLC/rc

Enclosures

WESTEC Services. Inc 3211 Fifth Avenue San Diego. CA 92103 (714) 294 9770

78-285E-3584 December 20, 1978

Ms. Patricia E. Duro Commissioner, Native American Heritage Commission P. O. Box 648 Valley Center, California 92082

Subject: SDG&E Proposed Expansion of San Onofre to Mission/Encina 230KV Transmission Line

Dear Ms. Duro:

I would like to bring to your attention the San Diego Gas & Electric Company's proposed San Onofre to Mission/Encina 230 KV transmission line expansion. This project is within an existing right-of-way, and will consist of new structure installation plus modification of existing structures. Topographic maps outlining the project's boundaries have been sent to all area representatives.

In our capacity as archaeological consultants, WESTEC Services, Inc. has been retained to conduct this study. It is our concern that all, or portions, of the property described above may have social significance to present-day native American peoples. Record searches requested from San Diego State University and San Diego Museum of Man disclosed twenty previously recorded native American sites within the entire project area. These sites are representative of the technology and cultural heritage of early native American peoples: W-114 (SDi-1016); W-119; W-120; W-121; W-127A (SDi-210); W-137 (SDi-4990); W-139; W-178; W-185; W-261; W-281; W-393; W-696; W-940; W-954; W-1527 (SDi-5445); W-1528 (SDi-5444); W-1632 (SDi-5455); SDi-4538; and SDi-5536. Additionally, it has come to be recognized that certain areas, whether cultural remains are to be found there or not, may have sacred or religious significance to present-day native Americans.

We are not qualified to address these questions directly, so we would request your advice on the matter. As a representative for the Native American Heritage Commission, we would appreciate any comments, information or advice you might offer.

WESTEC Services, Inc. has conducted a field survey of the power line right-of-way, to evaluate the condition of previously recorded sites and document the presence of any previously unrecorded cultural remains. The Public Utilities Commission, the

Ms. Patricia E. Duro December 20, 1978 Page Two

State Office of Historic Preservation, and the Nuclear Regulatory Commission will assess the impact of this proposed development to environmental resources in the region; in part on the basis of our report and any additional public input. When the study is completed, we will be pleased to provide you with a copy of the archaeological report for your consideration.

Copies of this letter have been sent to Stephen Rios, Henry Rodriquez, Vincent Ibanez, and Rosalie Robertson.

If you have any questions regarding this study or require additional information, please contact the undersigned at 714-294-9770.

Thank you for your assistance in this matter.

Respectfully,

Richard L. Carrico Manager, Cultural Resources Group

RLC/rc

WESTEC Services. Inc. 3211 Fifth Avenue San Diego, CA 92103 (714) 294-9770

78-284E-3584 December 20, 1978

Mr. Stephen M. Rios Executive Secretary Native American Heritage Commission 1400 Tenth Street Sacramento, California 95814

Subject: SDG&E Proposed Expansion of San Onofre to Mission/Encina 230 KV Transmission Line

Dear Mr. Rios:

I would like to bring to your attention the San Diego Gas & Electric Company's proposed San Onofre to Mission/Encina 230 KV transmission line expansion. This project is within an existing right-of-way, and will consist of new structure installation plus modification of existing structures. Topographic maps outlining the project's boundaries have been sent to all area representatives.

In our capacity as archaeological consultants, WESTEC Services, Inc. has been retained to conduct this study. It is our concern that all, or portions, of the property described above may have social significance to present-day native American peoples. Record searches requested from San Diego State University and San Diego Museum of Man disclosed twenty previously recorded native American sites within the entire project area. These sites are representative of the technology and cultural heritage of early native American peoples: W-114 (SDi-1016); W-119; W-120; W-121; W-127A (SDi-210); W-137 (SDi-4990); W-139; W-178; W-185; W-251; W-281; W-393; W-696; W-940; W-954; W-1527 (SDi-5445); W-1528 (SDi-5444); W-1632 (SDi-5455); SDi-4538; and SDi-5536. Additionally, it has come to be recognized that certain areas, whether cultural remains are to be found there or not, may have sacred or religious significance to present-day native Americans.

We are not qualified to address these questions directly, so we would request your advice on the matter. As a representative for the Native American Heritage Commission, we would appreciate any comments, information or advice you might offer.

WESTEC Services, Inc. has conducted a field survey of the power line right-of-way, to evaluate the condition of previously recorded sites and document the presence of any previously

Mr. Stephen M. Rios December 20, 1978 Page Two

unrecorded cultural remains. The Public Utilities Commission, the State Office of Historic Preservation, and the Nuclear Regulatory Commission will assess the impact of this proposed development to environmental resources in the region; in part on the basis of our report and any additional public input. When the study is completed, we will be pleased to provide you with a copy of the archaeological report for your consideration.

Copies of this letter have been sent to Patricia Duro, Henry Rodriquez, Vincent Ibanez, and Rosalie Robertson.

If you have any questions regarding this study or require additional information, please contact the undersigned at 714-294-9770.

Thank you for your assistance in this matter.

Respectfully,

Richard L. Carrico Manager, Cultural Resources Group

RLC/rc

Attachment 3
CULTURAL HISTORY

Attachment CULTURAL HISTORY

In the prehistoric past, the area now comprising San Diego County was densely occupied by native American peoples including at least three major cultures. From roughly 12,000 to 8,000 years ago, the San Dieguito people were the sole inhabitors of this region. Beginning about 8,000 years ago and extending to about 3,000 years ago, the La Jolla-Pauma culture was in existence, with the Pauma aspect being present in the inland regions. Commencing about 2,500 years ago and 1,000 years ago respectively, the kumeyaay (Diegueño) and Luiseño lived and hunted in the area. A broad overview of the three major cultural patterns is provided below.

The following cultural history is a means of outlining and briefly describing the known prehistoric cultural traditions. A primary goal of a cultural history is to provide a diachronic or developmental approach to past lifeways, settlement patterns and cultural processes.

Lacking a synthesis of valid, regionally specific data, we are forced to fall back on a geographically generalized accepted cultural history which is, at best, ill-defined. As perceived by recent scholars, at least three major cultural patterns have operated in San Diego County (Table CH-1). There is also the possibility that a much older "Early Man" period may have existed in North America, if not San Diego County.

Table CH-1
CHRONOLOGICAL MODEL FOR SAN DIEGO COUNTY PREHISTORY AND HISTORY

CLIMATE	TIME	CULTURAL SETTING STAGE
Medithermal		
Moderately warm; arid and semi-arid	1850	A.DAnglo-European Era A.DMexican Era
	1769	A.DHispanic EraHistoric
	1542	A.DProtohistoric
	1000	A.DLate Prehistoric culturesLate Milling
	3,000	B.PLa Jolla Complex termination
<u>Altithermal</u> 4,000		B.P.
	6,000	B.PLos Compadres (W-578) occupied
Arid, warmer than present	7,500	B.PEarly Milling
<u>Anathermal</u> 8,000		B.P. Harris Site (SDi-149) occupied
Climate like present 9,500 but growing warm, humid and subhumid		B.PPaleo-Indian
End of Glaciations10,000		B.P.
	21,000	B.PEarly Man
	48,000	B.PEarly Man

Recent research and experimentation with amino-acid dating (Bada 1974) has given new life to a decades-old assertion (Carter 1957) that humans were in the New World, and specifically along Mission Valley and the San Diego River, over 40,000 years ago. Although such a possibility exists, and continuing research seems to point in that direction, many scholars are unwilling to categorically state that humans occupied the New World before approximately 30,000 years ago. Continued research in the Arctic region and within our own area should help in resolving the date of initial New World occupation.

A. San Dieguito

The oldest well-documented inhabitants of the region were apparently the Paleo-Indian San Dieguito people. Typified as nomadic large-game hunters, these people occupied the mesas, mountains and deserts of San Diego County roughly between 21,000 and 8,000 years ago (Warren 1961:252-253; Rogers 1966:140-148; Ezell 1974:personal communication). The culture of the San Dieguito people has been divided into three relatively distinct phases representing assumed variations in time and space. Within these three phases exist various "industries" that are geographically and ecologically based; these are not of specific concern in this analysis. San Dieguito I, the oldest of the known Paleo-Indians in San Diego County, inhabited the desert regions east of the Cuyamaca/Laguna mountain ranges as long ago as 21,000 years (Childers 1974; Ezell 1974:personal communication).

In general, the ancient hunters of the San Dieguito I phase apparently left little or no permanent record on the land, except for their scattered lithic tools, waste stone debris and two recently discovered burials in the Yuha Basin-Truckhaven area (Rogers 1939:25-31; Ezell 1974:personal communication; Childers 1974; Wallace 1955:189-191). Broad characteristics of the San Dieguito I people include their manufacture and use of crudely formed stone flakes, blades and scrapers.

San Dieguito II is found both in the desert and throughout western San Diego County. Lithic artifacts represented by this phase include more finely worked blades, somewhat smaller and lighter points, and a larger variety of scrapers and choppers. In general, however, the same morphological types remain basically unchanged from the earlier phase. Like their predecessors, these people were medium-to-large-game hunters, although foraging must have served to supplement their diet (Warren 1961:262; Moriarty 1969:1-18), perhaps to a greater extent than most scholars have implied.

The terminal San Dieguito phase, San Dieguito III, represents a morphological and typological change, as indicated by an altered technology. The tool types become far more varied both in style and in functional design, thus indicating a change in the culturally determined mental templates. Such alteration in technological form can be attributed to environmental adaptation and/or a technological "snowball" effect, wherein technological advances and changes thrive and feed on themselves and progressively create a new technological mode.

As a result of such technological changes, the tools of the San Dieguito III phase exhibit not only a wider variety of tool types, but also a fundamental refinement in tool manufacture. A primary difference in tool technology is represented by the introduction of pressure-flaked blades and points. Unlike simple percussion flaking, pressure flaking requires a more delicate touch and more finely conceived mental template. The resulting tools exhibit form, complexity and balance not found in the early phases of the San Dieguito people.

Other diagnostic traits associated with San Dieguito III include planes, choppers, plano-convex scrapers, crescentic stones, elongated bifacial knives, and intricate leaf-shaped projectile points (Rogers 1939:28-31). Beyond specific tool types and the introduction of pressure flaking, there exists no absolute method of discerning between San Dieguito II and III. Patination, a weathering process involving chemical change on the surface of stones, is a relative guide to antiquity and provides gross distinctions between the San Dieguito phases; however, its use is limited by the many variables which are involved in its application.

B. La Jolla-Pauma

By about 7,000 years ago, a new group of peoples had begun to inhabit and exploit the coastal and inland regions of San Diego County (Moriarty 1969:12-13). These people, the La Jolla, were nomadic exploiters of maritime resources (Harding 1951; Moriarty

et al. 1959:185-216; Wallace 1960:277-306), who also relied on seed gathering and vegetal processing. The La Jolla people may have been entering into the mortar and pestle phase late in the terminal stage of the La Jolla-Pauma transitional period (Warren 1961). The tool types of the La Jolla indicate that these members of what Wallace (1955) terms Early Milling Horizon possessed a far greater reliance on the sea and foraging than their predecessors, the San Dieguito people, although Kaldenberg and Ezell (1974) have excavated at least one San Dieguito site, W-49, which contained a well-defined shell midden. The variety and quality of lithic tool manufacture is much more basic and unrefined when compared with even the basal phase of the San Dieguito complex.

Characteristic traits of the La Jolla culture include fire hearths, shell middens, flexed inhumation, grinding implements, and absence of ceramics. The archetype La Jolla sites are located along the coast near bay or lagoon areas. Several classic La Jolla sites are situated on the terraces above Agua Hedionda Lagoon and Batiquitos Lagoon.

In recent years, inland La Jolla sites of a seemingly later period have been discovered in transverse valleys and sheltered canyons, including Valley Center (True 1959:225-263; Warren et al. 1961:1-108; Meighan 1954:215-227). These non-coastal sites have led to a new name for La Jolla-type sites with an inland location. True (1959), Warren (1961) and Meighan (1954) had applied the term Pauma Complex to certain inland sites which possess a predominance of grinding implements (especially manos

and metates), lack of shell, greater tool variety, more sedentary life patterns than expressed by San Dieguito sites, and an increased dependence upon gathering. However, it is more probable that these inland sites represent a non-coastal manifestation of Early Milling peoples who adopted or developed a hunting mode more so than their coastal brethren. Wallace (1955:214-230) denotes this late transitional phase as Intermediate, and establishes its position between Early Milling Horizon and Late Milling Horizon.

C. Kumeyaay/Northern Diegueño - Luiseño

By 2,000 years ago, Yuman-speaking peoples sharing cultural elements had occupied the Gila/Colorado River drainage (Moriarty 1966). Through gradual westward migration the Yumans drifted into Imperial and San Diego Counties, where they came into contact and apparently acculturated with the remnants of the Early Milling La Jolla cultural tradition (Moriarty 1966, 1965). Because of basic similarities in the late La Jolla/early Yuman patterns, it is difficult to clearly define the contact period or point between La Jolla/Yuman.

Dr. James R. Moriarty (1965, 1966) has suggested that there existed a pre-ceramic Yuman phase, as evidenced from his work at the Spindrift Site in La Jolla. Based on a limited number of radiometric samples, Moriarty has concluded that a pre-pottery Yuman phase occupied the San Diego coast 2,000 years ago and that by 1,200 years ago ceramics had diffused from the eastern deserts.

Although some researchers still follow Malcolm Rogers' belief that Yuman peoples first appeared in San Diego County only 1,000 years ago (Rogers 1945), there is a growing body of data supporting Moriarty's hypothesis. A recent excavation of a La Jolla/ Kumeyaay site in Sorrento Valley (Carrico 1975) encountered a cultural stratification with a basal date of 3,755 years ago and a terminal date of 2,525 years ago. It is worth noting that the upper stratum (0-10 centimeters) of the dated column contained ceramics and projectile points commonly considered time-markers indicative of Late Milling Kumeyaay. Radiometric dating of a large shell sample from this stratum produced a date of 2,525±70 years B.P. The near absence of ceramics and total lack of projectile points below the 10-centimeter level, within a series of strata that contained a variety of seemingly early cultural material dated at 2,925±70 B.P. (30-40 centimeters) and 3,755±75 B.P. (50-60 centimeters) may indicate that the Rimbach Site is a multi-component, culturally stratified site containing a transition between La Jolla and Yuman circa 2,500 years ago.

Whether Yuman peoples moved into the area 2,500, 2,000, or 1,500 years ago, they brought with them a culture heavily influenced by their Yuman neighbors in the eastern desert region of California and along the Colorado River. These prehistoric/protohistoric peoples possessed ceramics, operated a closely knit clan system, utilized a highly developed grinding technology, had elaborate and extremely complex kinship patterns, created rock

art, and carried on extensive trade with the surrounding cultural areas (Rogers 1945:167-198; Kroeber 1970:709-725; Strong 1929). It has also been postulated that the Kumeyaay and their neighbors to the north, the Luiseño, may have been practicing a basic type of protoagriculture prior to Hispanic contact (Lewis 1973; Shipek 1974:personal communication; Treganza 1947).

About 1,000 to 1,500 years ago, a group of Shoshonean-speaking people migrated out of the Great Basin region and intruded like a wedge into southern California. This wedge separated the Yuman groups and was eventually to cause great cultural variations (Kroeber 1970:278; True 1966). In coastal San Diego County, this group of Shoshonean intruders has been labeled the San Luis Rey I and II Complex (Meighan 1954:215-227). When the early Hispanic explorers contacted these people, they called them Luiseños, after the Mission San Luis Rey de Francía founded in the heart of Luiseño (San Luis Rey II) territory. Agua Hedionda Lagoon is traditionally considered as the point of separation between

Although of a different linguistic stock, the Luiseño and the Diegueño (after San Diego) shared many cultural traits. D.L. True (1966) has suggested that basic similarities in ecological exploitation, environmental setting and temporal placement forced the late-coming and highly nomadic Shoshoneans to adapt to a life style and cultural pattern that was established and functioning upon their arrival. D.L. True outlines certain attributes or

traits which he finds as dissimilar between the two cultures. He notes that Luiseño projectile points are more basic than those of the Diegueño; those of the Luiseño are predominantly made of quartz. He also notes that ceramics were evidently a late development of the Luiseño; they probably learned the use of pottery from the Northern Diegueño. True also postulates the Luiseño possessed a very small, very closed trade network; that in general they were not as world-aware as the Diegueño, although Luiseño cosmology and religion seem better developed.

Luiseño territory encompassed an area from roughly Agua Hedionda inland to Escondido, east to Lake Henshaw, north into Riverside County, and west through San Juan Capistrano to the coast. The current general study area supported large populations of Luiseño, both in historic and prehistoric times. The Luiseño exploited a lush and bountiful environment within their territory through well-adapted seasonal migrations, extensive knowledge of native plant life, establishment of clan-governed districts, and various social control mechanisms.

The Luiseño were/are one of the most mystically sensitive and religious peoples of California. Even a cursory analysis of their cosmological tales, shamanism, world-view, and numerous specialized religious ceremonies reveals a deep-rooted, well-conceived, thoughtful approach to life's mysteries (Sparkman 1908:215-227; DuBois 1908; Kroeber 1970).

D. Protohistoric Period

The Hispanic intrusion (1769-1822) into native-American southern California affected the coastal tribes and peoples living in well-traveled river valleys. The Mexican Period (1822-1848) saw continued displacement of the native population by expansion of the land grant program and development of extensive ranchos. The Gold Rush and the concomitant granting of statehood, combined with an influx of aggressive, land-hungry Anglos, caused a rapid displacement of the natives, as well as deterioration of their culture and lifeways (Shipek 1974; Bancroft 1886; Kroeber 1970).

The literature on these later peoples, the Kumeyaay,
Luiseño, Cahuilla, Cupeño and others, is rather extensive and
includes Barrows (1900), Bean and Saubel (1972), Caughey (1952),
Gifford (1918), Hayes (1929), True (1970), Heizer and Whipple
(1957), Hooper (1920), Kroeber (1970), Cuero (1968), Sparkman
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Attachment 4
ETHNOBOTANICAL DATA

ETHNOBOTANICAL DATA

The intimate and complex relationship between native Americans and their environment has received renewed attention in recent years. Archaeologists, ethnographers; palynologists, and other scholars have attempted to gain insights into folk medicine and vegetal exploitation and preparation, and to understand the interrelationships between past peoples and their environs. Through ethnographies, histories and personal interviews, a large, although not comprehensive, body of knowledge has been compiled about native-American plant use in southern California.

The reader is referred to a series of works that, taken together, comprise a broad ethnobotanical background for San Diego County. Examples include: "Santa Ysabel Ethnobotany," by Ken Hedges (1967); Temalpakh, by Lowell John Bean and Katherine Saubel (1972); The Culture of the Luiseño Indians, by Philip Sparkman (1908); The Autobiography of Delfina Cuero (Cuero 1968); Indians of the Oaks, by Melicent Lee (1937); Handbook of the Indians of California, by Alfred Kroeber (1970); and "Southern Diegueño Customs," by Leslie Spier (1923).

Although plant life throughout the region has undergone a great deal of change (even during the 200 years since European contact), it is possible to make general assumptions about past plant communities and their use. Plant species noted near the project area, and their known use and period of ripening, are noted

in Table EB-1. Most native species present in the region today were also present in 1769, as evidenced by historical documentation (ges 1972:46-47; Palou 1926:110-117; Emory 1848). Thus, recent ethnobotanical studies (Hedges 1967) may be of use back to at least 1769, and probably earlier.

The presence of certain plants in the protohistoric period, and verification of their use by Late Milling peoples (circa 2,000 B.P. to 1769 A.D.), offers no assurance that earlier peoples utilized or even knew how to utilize specific plants. Construction of an ethnobotanical model with the hope of stretching inferences back prior to Spanish contact is tenuous, at best. The following discussion should be viewed as possible prehistoric uses of flora within the region.

The single most important food source for Late Milling peoples was the acorn. Although stands of coast live oak and scrub oak in the general vicinity provide a substantial quantity of acorns, the black oak, growing in the upland mountain regions, was preferred. Acorn collection and processing involves a series of specialized activities, ranging from scheduling (knowledge of when acorns are ripe and easiest to harvest), to shelling, grinding and leaching (Bean and Saubel 1972:121-1129; Hedges 1967:4-8; Lee 1937:241; Cuero 1968:30-31).

Ethnohistorical and ethnographic data indicate the importance of females in procuring and preparing foodstuffs in aboriginal hunting and gathering societies. One early visitor (Bartlett

Table EB-1
PLANT SPECIES NOTED NEAR THE PROJECT AREA, THEIR KNOWN USE AND PERIOD OF RIPENING

PLANT SPEC	IES			SEASONA	LITY	
Common Name	Scientific Name	Use	Winter	-	Summer	Fal
Willow	Salix sp.	Construction			-	-
Chamise	Adenostoma fasciculation	Construction/Medicinal				
Scrub Oak	Querous disnosa	Food				
Lilac	Ceanothus megavarpus	Firewood				х
Holly-Leaf Cherry	Prunus ilicifolia	Food/Beverage				x
Toyon	Heteromeles arbutifolia	Food				X
Sugarbush	Rhue ovata	Food/Beverage			×	^
Gooseberry	Ribes queroetorium	Food			×	
Squaw Bush	Rhus trilobata	Food/Beverage			x	
Engelmann Oak	Quercus engelmannii	Food				x
1.1ve Oak	Quercus agrifolia	Food				X
California Juniper	Juniperus californica	Food/Medicinal			x	
Manzanita	Arctostaphylos Adans.	Food/Beverage			×	
Jimsonweed	Datura meteloides	Hallucinogenic	******			
Miner's Lettuce	Montia perfoliata	Food		x		
Prickly Pear Cactus	Opuntia occidentalis	Food		-	x	
Wild Rose	Rosa californica	Food/Beverage			×	
White Sage	Salvia apiana	Food/Spice			x	
Black Sage	Salvia mellifera	Food/Spice			x	
Elderberry	Sambuous mexicana	Food/Spice			x	

1854:122) to the village of San Felipe noted: "The women appear to be the chief laborers, the men lounging about the camp most of the day." Moving on to the rancheria of 'Vallecitos, Bartlett (1854: 125) noted much the same about Diegueños residing there: "The laboring or preparing them [the acorns] for food is, like almost all other labor, performed by the women, who were to be seen in front of every hut wielding their heavy stone pestles."

Preparation of acorns requires specialized activities requiring technological diversity through the use of certain tools (i.e. hammerstone, mano, pestle) and specific grinding platforms (i.e. metates, mortars, slicks). The presence of all these implements and features within the area is evidence for acorn processing and use.

Although the nutritional value of acorns varies with species, size and preparation method, Bean and Saubel (1972:125-126) have noted that acorns are very high in fat content and caloric value, but contain less protein and carbohydrates than most cereal grains. Seasonal variation in acorn availability, accessibility of alternate food sources, and time of the year determine the relative importance of acorns at any given time. White (1963:121) has suggested that acorns comprised almost 50 percent of the Luiseño diet.

The inhabitants of the study area would have had access to a wide variety of native fruits that are ethnographically recorded as edible. Manzanita and holly-leaf cherry provided a fruit and a

seed that could be ground into a meal (Hedges 1967:34; Bean and Saubel 1972:41; Cuero 1968:31; Sparkman 1908:194-230). Prickly pear and elderberry were consumed fresh or were dried for storage (Hedges 1967:24, 44; Sparkman 1908:195; Bean and Saubel 1972:77, 138; Lee 1937:138-142, 155-156). Toyon berries were eaten fresh or were dried or parched before consumption (Bean and Saubel 1972:77; Sparkman 1908:194). Spanish dagger served as a fruit that was usually roasted prior to being eaten, although sometimes it was eaten raw.

Many of the plants comprising the Chaparral community have edible seeds that are easily harvested. Black and white sage seeds and leaves were ground into a meal that was made into mush or used to supplement other foods such as acorns (Sparkman 1908:229; Spier 1923:335; Hedges 1967:31; Lee 1937:63; Bean and Saubel 1972:136-138). Besides providing fruit, both prickly pear and Spanish dagger generate seeds that can be used as food (Sparkman 1908:230; Lee 1937:41; Spier 1923:336).

The riparian habitats along adjacent streams were a favored exploitation area for greens and native vegetables to supplement the native diet (Cuero 1968:33-34). Bartlett (1854:122) noted that the Diegueños at San Felipe waded "about the marsh gathering roots and seed..." Many of these greens were eaten raw; others were boiled or dried for later use. New leaves and tender shoots of white sage were eaten raw; blossoms of Spanish dagger were parboiled, and prickly pear pads were boiled (Hedges 1967:24, 31; Sparkman 1908:195-196; Lee 1937:126, 243; Spier 1923:336).

Beverages serve an important role in any diet, as sources of water, sugars, nutrients, and refreshment. Native Americans in the San Diego area soaked manzanita pulp and/or the whole fruit in water to produce a beverage (Cuero 1968:31; Bean and Saubel 1972: 40-41). Lemonadeberry was mixed with water to produce a slightly acidic beverage (Bean and Saubel 1972:132). Cana was often boiled to produce a tea that served as a refreshment and a medicinal tonic (Hedges 1967:19; Bean and Saubel 1972:70). Beverages were also made from berries of the sugar bush and basketweed (Bean and Saubel 1972:132).

Many plants that were used as food sources also provided medicines. White sage, one of the most important curative plants, doubled as a medicine and a purifier (Cuero 1968:50; Hedges 1967: 31; Bean and Saubel 1972:136; Sparkman 1908:1-9). White sage and California sagebrush were smoked or consumed as a cure for colds. White sage leaves were also used in a sweathouse as a vapor-producing medicinal (Bean and Saubel 1972:136, 138; Hedges 1967:44; Lee 1937:214, 243).

Teas containing medicinal herbs and spices were a common method for treating colds, influenza and respiratory problems.

Medicinal teas were made from white sage (Hedges 1967:31), elderberry blossoms (Bean and Saubel 1972:138), and holly-leaf cherry bark (Bean and Saubel 1972:120). Fevers were cured by drinking tea made from elderberry blossoms (Hedges 1967:44; Bean and Saubel 1972:138; Lee 1937:214, 243). Teas made by boiling buckwheat

leaves or flowers (Bean and Saubel 1972:72) or manzanita leaves (Bean and Saubel 1972:41) were also used as a treatment for gastric disorders and diarrhea.

Washes and antiseptic solutions were made from buckwheat, scrub oak, white sage, mistletoe, and chamise (Hedges 1967:38, 43; Bean and Saubel 1972:72, 129, 136). Poultices made from boiled cottonwood leaves were used for sprains, sore muscles, minor cuts, and headaches (Hedges 1967:39; Bean and Saubel 1972:106).

Construction materials for houses, fiber and thatching came from willows, oak, manzanita, deer weed, and chamise (Bean and Saubel 1972:29-31; Lee 1937:59; Cuero 1968:25; Spier 1923:338). Spanish dagger was the most commonly used source of fiber because of its pliable yet strong nature, plus its resistance to moisture and rotting (Cuero 1968:25, 31; Bean and Saubel 1972:152; Lee 1937:58-60; Spier 1923:338).

Firewood was derived from oak timbers and bark (Bean and Saubel 1972:130). Chamise roots were used in roasting pits; chamise branches were tied together to make torches (Bean and Saubel 1972:30). Manzanita served as a major fuel source, especially for indoor use, because of its clean burning (Spier 1923:41, 339).

Local floral resources could have provided a viable source of basket or thatching material, including basket weed, bunch or deer grass, willow, and juncus (Merrill 1973:13-16). Storage vessels or granaries were made of scrub oak, chamise and coffeeberry (Cuero

1968:31; Hedges 1967:13, 38, 40; Bean and Saubel 1972:135; Lee 1937:79-81). Dyes for baskets came from elderberry (Bean and Saubel 1972:138).

Soap was derived from a variety of plants, depending upon the season and availability. Spanish dagger root was culturally preferred and usually accessible (Bean and Saubel 1972:151-152; Cuero 1968:33). Sea-blite was another source of natural soap (Cuero 1968:33).

In summary, the area in and around the project area could have afforded native Americans a source of foods, medicines, condiments, and construction materials. Although ethnographic data cannot be directly applied to the prehistoric period, it may be inferred that at least some of the above data would apply to the aboriginal people who inhabited the study area.

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Sparkman, Philip Stedman

1908 The culture of the Luiseño Indians. University of California Publications in American Archaeology and Ethnology, 8(4):187-234.

Spier, Leslie

Southern Diegueño costoms. University of California Publications in American Archaeology and Ethnology, 20(16):292-358.

White, Raymond C.

Luiseño social organizations. University of California Publications in American Archaeology and Ethnology, 48(2):1-194.

Attachment 5
RECORD SEARCH DATA

DEPARTMENT OF PARKS AND RECREATION

P.O. BOX 2390 TRAMENTO 95811 (916) 445-8006



August 31, 1978

Richard L. Carrico Cultural Resource Manager Wester Services, Inc. 1520 State Street San Diego, CA 92101

Dear Mr. Carrico:

Subject: San Onofre to Mission 230 KV Circuit and San C fre to Encina 230 KV Circuit

I appreciate the opportunity to comment on the properties which may be effected by this undertaking. My staff has reviewed our files on properties listed on or determined eligible for listing on the National Register of Historic Places and properties listed on the California Historic Landmarks.

The following properties were noted to be in the vicinity of this undertaking and should be addressed in an enviornmental document:

State Landmarks

#562 La Cristianita

#616 Las Flores Asistencia

#784 El Camino Real

National Register of Historic Places

Las Flores Adobe Santa Margarita Ranchhouse Las Flores Site San Luis Rey Mission Church

If I can be of further assistance, please do not hesitate to contact Mr. William Seidel at (916) 445-8006.

Sincerely yours,

Dr. Know Mellon

State Historic Preservation Officer Office of Historic Preservation

KM:pbp

1350 El Prado, Balboa Park, San Diego, California 92101, Telephone (714) 239-2001 Page 1 of 10 REPORT ON ARCHAEOLOGICAL SITE FILES RECORD SEARCH
Source of Request: Wester Services, Inc William Eckhardt
Date of Request: 23 August 1978 (X)Letter ()Telephone (X) In Person
Date Request Received: 12 September 1978 (X) Map Received (X) Map Returned
Name of Project: SDG&E San Onofre to Mission and San Onofre to Encina Transmission Corrido
Job #3519 () The Museum of Man files show no recorded sites for the project area.
(X) The Museum of Man files show the following sites (X) within (X) in the vicinity of the project area.
Site No. W-99 Culture(s): La Jolla I and II; San Dieguito II (trace)
Description: Occupation site; cobble hearths; burials; metates; manos; midden; stone flaking. Recorded by: M.Rogers
Site No. V-108 Culture(s): San Dieguito II (trace); La Jolla II; Yuman III
Description: Highland accretion midden; hearths; burial; sherds; brown jasper knife; Canalino chalcedony spearpoint; flaking; tools; metates. Recorded by: M.Rogers
Site No. W-109 Culture(s): San Dieguito II (trace); La Jolla II; Yuman III
Description: Highland winter camp; hearths; sherds; flaking; midden; arrowpoints. Recorded by: M.Rogers
Site No. W-112 Culture(s): Traces of San Dieguito II, La Jolla II and Yuman III
Description: Highland accretion midden with scattered camping; cobble hearths; platforms; metates; cache of quartz moonstones. Recorded by: M. Pozers
Site No. W-113 Culture(s): La Jolla II
Description: Highland winter camp sites; cobble hearths; mortars; midden. Recorded by: M.Rogers
Site No. W-114 Culture(s): La Jolla II; Yuman III (trace)
Description: Highland winter camping; ccbble hearths; platforms; metates; shell. Recorded by: M.Rogers
Please note: The project area may contain archaeological resources in addition to those noted above. This report is made from San Diego Museum of Man files only and may not include data pertaining to localities other than those covered in previous Museum of Man surveys or gathered by other institutions or by individuals.
Record check by: Grace Johnson
Date: 25 September 1978 RS-2 Signed: Levell & English

ourc	e 0	i kequest:	Wester Services, Inc William Eckhardt	
me	of	Project: SIX	G&E San Onofre to Mission and Encina Transmis	sion Corridor - Job #3519
		W-115	Culture(s): La Jolla II	
		Description	: Highland winter camping; midden; cobble hea	rths; flaking; metates.
				Recorded by: M.Rogers
te	No.	W-116	Culture(s): San Dieguito II; La Jolla II; Yu	man III
		Description blade; she	. Highlan accretion; cobble hearths; platform	Recorded by: M.Rogers
te	No.	W-117	Culture(s): La Jolla II; Yuman III (trace)	
			Highland camping site; midden; hearth stone ad; shell; metates.	Recorded by: M.Rogers
te	No.	W-118	Cult (s): San Dieguito II; La Jolla I (?)	
		Description bead; perio	Slow errace camp site; cobble hearths; b	ourial; Canalino red serpentin
		shell; char		Recorded by: M.Rogers
te	No.			Recorded by: M.Rogers
te	No.	w-119 Description metale frag	coal.	Recorded by: M.Rogers la I (?) and II; Yuman III (t cobble hearths; sweathouse; ht;
te		w-119 Description metale frag	Culture(s): San Dieguito II (trace); La Jol. Permanent highland slough terrace midden; ments; manos; burial; quartzite digging weig king and flaked artifacts.	Recorded by: M.Rogers la I (?) and II; Yuman III (t cobble hearths; sweathouse; ht; Recorded by: M.Rogers
		W-119 Description metale frag	Culture(s): San Dieguito II (trace); La Jol Permanent highland slough terrace midden; ments; manos; burial; quartzite digging weig king and flaked artifacts. Culture(s): San Dieguito III; La Jolla II;	Recorded by: M.Rogers la I (?) and II; Yuman III (t cobble hearths; sweathouse; ht; Recorded by: M.Rogers Yuman III
te		W-119 Description metale frag sherds; fla W-120 Description	Culture(s): San Dieguito II (trace); La Jol Permanent highland slough terrace midden; ments; manos; burial; quartzite digging weig king and flaked artifacts. Culture(s): San Dieguito III; La Jolla II;	Recorded by: M.Rogers la I (?) and II; Yuman III (t cobble hearths; sweathouse; ht; Recorded by: M.Rogers Yuman III den; metates; manos. Recorded by: M.Rogers
te	No.	W-119 Description metale frag sherds; fla W-120 Description W-121 Description Canalino	Culture(s): San Dieguito II (trace); La Jol. Permanent highland slough terrace midden; ments; manos; burial; quartzite digging weig king and flaked artifacts. Culture(s): San Dieguito III; La Jolla II; Highland permanent camp site; hearths; mid	Recorded by: M.Rogers la I (?) and II; Yuman III (t cobble hearths; sweathouse; ht; Recorded by: M.Rogers Yuman III den; metates; manos. Recorded by: M.Rogers and II; Yuman III cobble hearths; burials;
te	No.	W-119 Description metale frag sherds; fla W-120 Description W-121 Description Canalino tools; me	Culture(s): San Dieguito II (trace); La Jol Permanent highland slough terrace midden; ments; manos; burial; quartzite digging weig king and flaked artifacts. Culture(s): San Dieguito III; La Jolla II; Highland permanent camp site; hearths; mid Culture(s): San Dieguito II; La Jolla I (?) Culture(s): San Dieguito II; La Jolla I (?) Slough terrace midden of a permanent type; steatite digging weigh; hematite plummet sto	Recorded by: M.Rogers la I (?) and II; Yuman III (t cobble hearths; sweathouse; ht; Recorded by: M.Rogers Yuman III den; metates; manos. Recorded by: M.Rogers and II; Yuman III cobble hearths; burials; ne;
te	No.	w-119 Description metale fragsherds; fla W-120 Description Canalino tools; me	Culture(s): San Dieguito II (trace); La Jol Permanent highland slough terrace midden; ments; manos; burial; quartzite digging weig king and flaked artifacts. Culture(s): San Dieguito III; La Jolla II; Highland permanent camp site; hearths; mid Culture(s): San Dieguito II; La Jolla I (?) Culture(s): San Dieguito II; La Jolla I (?) Slough terrace midden of a permanent type; steatite digging weigh; hematite plurmet sto tates; grinding slabs,	Recorded by: M.Rogers la I (?) and II; Yuman III (t cobble hearths; sweathouse; ht; Recorded by: M.Rogers Yuman III den; metates; manos. Recorded by: M.Rogers and II; Yuman III cobble hearths; burials; ne; Recorded by: M.Rogers

			ado, Balboa Park, San Diego, California 92101, Telephone (714)	239-2001 Page 3 of 10
REPOR	RT	ON ARCHAEOLO	GICAL SITE FILES RECORD SEARCH	
Source	ce i	of Request:_	Wester Services, Inc William Schhardt	
Name	of	Project: SDC	&E San Onofre to Mission and Encina Transmis	ssion Corridor - Job #3519
Site	No	- W-12h	Culture(s): San Dieguito II (trace); Ia Jol	la II
		Description burial; she	: Highland winter scattered camping; cobble	hearths; platforms; midden; Recorded by: M. Rogers
Site	No	. W-125	Culture(s): San Dieguito II; Ia Jolla II	
		Description	: Highland camping; hearths; metates; manos;	flaking; hammerstones. Recorded by: M.Rogers
Site	No	. W-126	Culture(s): La Jolla I and II; San Dieguito	II (trace)
		Description	: Slough terrace midden; cobble hearths; work	Recorded by: M.Rogers
	**-	W-127 W-127A	Culture(s): San Dieguito II; La Jolla II	Recorded by . M. Royers
Site	No.	manos; plan	:Slough terrace camping; cobble hearths; mides. Culture(s): La Jolla I and II; Yuman III (t	Recorded by: M.Rogers
Site	No.	Description	Culture(s): La Jolla I and II; Yuman III (t : Highland accretion midden; cobble hearths; mmerstone; scraper.	sherds; manos; bedrock J.Moriarty 1974
21+0	No	W-129	Culture(s): La Jolla II; Yuman III	Recorded by: M.Rogers
Site	NO.	Description	: Highland camping; cobble hearths; platforms; shell; sherds; metates.	; steatite perforated Recorded by: M.Rogers
Site	No.	.W-130	Culture(s): San Dieg.ito II (trace); La Jol	la II
		Description: steatite ar	Slough terrace accretion camping; hearths; tifacts.	midden; metates; manos; Recorded by: M.Rogers
Site	No.	.V-131	Culture(s): San Dieguito II and III (trace);	La Jolla II
		Description:	: Slough terrace midden; hearths; bowling st	ones; metates; broken Recorded by: M.Rogera
Site	No.	W-132, A,B	Culture(s): San Dieguito II; La Jolla II; Y	uman III
			: Slough terrace midden; cobble hearths; bur s; cores; choppers; scraper; manos; flakes; ent.	ial; sherds; metates, E.L.Davis 1967 Recorded by: M.Rogers

1350 El Prado, Balboa Park, San Diego, California 92101, Telephone (714) 239-2001 Page 4 of 10 REPORT ON ARCHAEOLOGICAL SITE FILES RECORD SEARCH Source of Request: Wester Services, Inc. - William Fickhardt Name of Project: SDG&E San Onofre to Mission and Encina Transmission Corridor - Job #3519 Site No.W-133A, B, C, D Culture(s): San Dieguito II (trace); La Jolla II; Yuman III (trace) Description: Highland accretion of scattered occupation; cobble hearths; sweat house; manos; Canalino spearpoint; midden; sherds; metates; M. Rogers flakes; core-hammerstone. Recorded by: E.L.Davis 1967 Site No. W-134 Culture(s): San Dieguito II; La Jolla I (?) and II Description: Slough margin midden with a long occupation; cobble hearths; flakes; tools; metates; grinding slabs. Recorded by: M. Rogers Site No. 1-139 Culture(s): San Dieguito II (trace); La Jolla II; Luiseno Description: Highland accretion midden; cobble hearths; Channel Islands artifacts: sherds; arrowpoints; bowling stones; metates; mortars; pestle. Recorded by: M.Rogers Site No. W-140 Culture(s): La Jolla II: Luiseno Description: Highland intermittent camping; cobble hearths; midden; sherds. Recorded by: M. Rogers Site No. W-11:1 Culture(s): San Dieguito II (trace); La Jolla II; Luiseno Description: Slough terrace midden; cobble hearths; Diegueno perforated curing stone; sherds; ring stones; metates; bone; olivella bead; abalone ring. Recorded by: M. Rogers Site No. W-141B Culture(s): La Jolla I and II; Luiseno Description: Midden; mortar fragments. Recorded by: M. Rogers 1:-156 Site No.W-156B Culture(s): San Dieguito II and III Description: Highland permanent camp site; hearths; flakes; artifacts; amulets. Dieguito people. Recorded by: M. Rogers Site No.W-173 Culture(s): San Dieguito II and trace of III; Yuman III (trace) Description: Highland camp of the permanent type; cobble hearths; flakes; shell; blades. Recorded by: M.Rogers Site No. W-1768 Culture(s): San Dieguito II; La Jolla II; Yuman III (trace) Description: Occupation site; shell. Recorded by: M. Rogers

	ON ARCHAEOLOGICAL SITE FILES RECORD SEARCH	
Source	of Request: Wester Services, Inc William Eckhardt	
Name of	Project: SDC&E San Onofre to Mission and Encina Transmis	ssion Corridor - Job #3519
Site No	. W-177 Culture(s): San Dieguito II; La Jolla II (trace)
	Description: Highland intermittent camping; metates; ma	anos,
		Recorded by: M.Rogers
Site No	.W-178 Culture(s): La Jolla II; Yuman III	
	Description: River terrace camp of probable permanancy; midden; shell.	
		Recorded by: M.Rogers
Site No	. W-179 Culture(s): San Dieguito II: La Jolla II	
	Description: Highland camping site: cobble hearths; mid manos; hammerstones; cores; flakes/debitage; scrapers.	M.Rogers Recorded by: R.Kaldenberg 197
Site No	.W-181 Culture(s): San Dieguito II and III; La Jol	la II
	Description: Highland accretion camp site with scattere platforms or sweat-house debris; flaking.	Recorded by: M. Rogers
Site No	.W-185 Culture(s): San Dieguito II: La Jolla II (tr	ace)
	Description: Highland scattered camping; mano fragments.	
		Recorded by: M. Rogers
	W 294	
Site No		
	Description: River bottom camp site and workshop; crem tools; flakes.	Recorded by: M. Rogers
Site No	W-188 Culture(s): San Dieguito II and trace of II	
D200 110		
	Description: Highland accretion camp site; hearths; mid flaking. W-188A has location noted only with no data filed.	Recorded by: M. Pogers
Site No	.W-191 Culture(s): San Dieguito II	
	Description: Highland intermittent camping with scatter	ed occupation.
	U 100	Recorded by: M. Rogers
Site No	W-197 W-197A Culture(s): San Dieguito II; Ia Jolla II: Y	uman TII
	Description: Highland intermittent camping; hearths; she	erds; metates; manos; middens. Recorded by: M. Pogera

1350 El Prado, Balboa Park, San Diego, California 92101, Telantione (71	4) 239-2001 Page 6 of 10
REPORT ON ARCHAEOLOGICAL SITE FILES RECORD SEARCH	
Source of Request: Wester Services, Inc William Eckhardt	
Name of Project: SDC&E San Onofre to Mission and Encina Transm	ission Corridor - Job #3519
Site No. W-198 Culture(s): San Dieguito II and III; Ia I	olla II; Yumon III
Description: Camps and quarry; cobble hearths; chert b midden; tools; milling slabs; sherds; planes; scrape cores. San Dieguito type site with full range of artifacts. Site No. N-261 Culture(s): San Dieguito II	rs: M.Rogers
Description: Camp site.	
	Recorded by: M.Rogers
Site No. W-279 Culture(s): San Dieguito II; La Jolla II;	Yuman (trace)
Description: Plateau periodic camp site; house pit; col sherds; metates; manos.	
W-281	Recorded by: M. Rogers
Site No. W-281A Culture(s): San Dieguito II; La Jolla II	
Description: Camp sites; metates; manos; flaking.	
Description: Intermittent camping; sherds; cobble hear flaking; bedrock metates and mortars; arrowpoints; sherds;	
Site No. W-386 Culture(s): Not known	
Description: Discovery sice of quartz blade fragment.	Reported by: Recorded by: Mrs. A. Mitchell
Site No. W-392 Culture(s): Diegueno	1969
Description: Bedrock metates.	
	Recorded by: R.Clarke 1970
Site No. ¥-393 Culture(s): Diegueno	
Description: None	
	Recorded by: R.Clarke 1970
Site No. W-467 Culture(s): San Dieguito II and III; La J	olla II: Yuman III
Description: Midden; burial; pottery; choppers; blade.	Recorded by: D.McDonald 1972

Sourc	e e	of Request: Wester Services, Inc William Eckhardt	
		Project: SDG&E San Onofre to Mission and Encina Transmis	sion Comiden Job #2020
		. W-468 Culture(s): Not noted	2401 VOLLIGOF = 1100 # 1519
		Description: Scatter of shell, cobble flake tools and man	nos; scrapers; planes; flakes.
		N 770	Recorded by: R. May 1972
Site	No.	. W-558 Culture(s): Yuman III	
		Description: Tizon brownware pottery fragments; scrapers	s; flakes.
			Recorded by: J Moriarty 1971
Site !	No.	. W-577 Culture(s): San Dieguito; La Jolla; Luiseno;	
		Description: Seasonal camp site and a food processing are pushplanes. As of Dec. 1974 the site no longer exists	ea; pottery; blades;
		In any torm.	Recorded by: R.Kaldenberg 197
		W Col.	
		Description: Grinding station. Subsequent surveys inthis of this site originally reported by Ryzdynski and filed by Kaldenberg. The site, as originally reported, appears not to exist in the reported location.	
	lo.	Description: Grinding station. Subsequent surveys inthis of this site originally reported by Ryzdynski and filed by Kaldenberg. The site, as originally reported, appears not to exist in the reported location.	Recorded by: R.Kaldenberg 1979
	io.	Description: Grinding station. Subsequent surveys inthis of this site originally reported by Ryzdynski and filed by Kaldenberg. The site, as originally reported, appears not to exist in the reported location. W-597 Culture(s): San Dieguito (?) Description: Tool scatter; scraper-cores.	
ite N	10.	Description: Grinding station. Subsequent surveys inthis of this site originally reported by Ryzdynski and filed by Kaldenberg. The site, as originally reported, appears not to exist in the reported location. W-597 Culture(s): San Dieguito (?) Description: Tool scatter; scraper-cores. W-601 Culture(s): La Jolla	Recorded by: R.Kaldenberg 1979
ite N	10.	Description: Grinding station. Subsequent surveys inthis of this site originally reported by Ryzdynski and filed by Kaldenberg. The site, as originally reported, appears not to exist in the reported location. W-597 Culture(s): San Dieguito (?) Description: Tool scatter; scraper-cores.	Recorded by: R.Kaldenberg 1979
ite N	10.	Description: Grinding station. Subsequent surveys inthis of this site originally reported by Ryzdynski and filed by Kaldenberg. The site, as originally reported, appears not to exist in the reported location. W-597 Culture(s): San Dieguito (?) Description: Tool scatter; scraper-cores. W-601 Culture(s): La Jolla Description: Shell midden; manos; tools; flakes.	Recorded by: R.Kaldenberg 1979
ite N	10.	Description: Grinding station. Subsequent surveys inthis of this site originally reported by Ryzdynski and filed by Kaldenberg. The site, as originally reported, appears not to exist in the reported location. W-597 Culture(s): San Dieguito (?) Description: Tool scatter; scraper-cores. W-601 Culture(s): La Jolla Description: Shell midden; manos; tools; flakes.	Recorded by: R.Kaldenberg 1979 Recorded by: R.Kaldenberg 1979
ite N	10.10.	Description: Grinding station. Subsequent surveys inthis of this site originally reported by Ryzdynski and filed by Kaldenberg. The site, as originally reported, appears not to exist in the reported location. W-597 Culture(s): San Dieguito (?) Description: Tool scatter; scraper-cores. W-601 Culture(s): La Jolla Description: Shell midden; manos; tools; flakes. W-613 Culture(s): San Dieguito Description: Quarry site; lithic scatter; tool blanks; he cores; hammerstones; debitage,	Recorded by: R.Kaldenberg 1979 Recorded by: R.Kaldenberg 1979 Recorded by: G.Fink 1971; earths; scrapers; flakes; R.May 1975
ite N	io.	Description: Grinding station. Subsequent surveys inthis of this site originally reported by Ryzdynski and filed by Kaldenberg. The site, as originally reported, appears not to exist in the reported location. W-597 Culture(s): San Dieguito (?) Description: Tool scatter; scraper-cores. W-601 Culture(s): La Jolla Description: Shell midden; manos; tools; flakes. W-613 Culture(s): San Dieguito Description: Quarry site; lithic scatter; tool blanks; he cores; hammerstones; debitage,	Recorded by: R.Kaldenberg 1979 Recorded by: R.Kaldenberg 1979 Recorded by: G.Fink 1971; earths; scrapers; flakes;
ite N	io	Description: Grinding station. Subsequent surveys inthis of this site originally reported by Ryzdynski and filed by Kaldenberg. The site, as originally reported, appears not to exist in the reported location. W-597 Culture(s): San Dieguito (?) Description: Tool scatter; scraper-cores. W-601 Culture(s): La Jolla Description: Shell midden; manos; tools; flakes. W-613 Culture(s): San Dieguito Description: Quarry site; lithic scatter; tool blanks; he cores; hammerstones; debitage,	Recorded by: R.Kaldenberg 1979 Recorded by: R.Kaldenberg 1979 Recorded by: G.Fink 1971; earths; scrapers; flakes; R.May 1975 Recorded by: R.Kaldenberg 1975
ite N	io	Description: Grinding station. Subsequent surveys inthis of this site originally reported by Ryzdynski and filed by Kaldenberg. The site, as originally reported, appears not to exist in the reported location. W-597	Recorded by: R.Kaldenberg 1979 Recorded by: R.Kaldenberg 1979 Recorded by: G.Fink 1971; earths; scrapers; flakes; R.May 1975 Recorded by: R.Kaldenberg 1975

REPORT O		do, Balboa Park, San Diego, California 92101, Telephone (714) 239 ICAL SITE FILES RECORD SEARCH	9-2001 Page 8 of 10
		Vestec Services, Inc William Eckhardt	
Name of	Project: SDA	E San Onofre to Mission and Encina Transmissi	ion Corridor - Job #3519
Site No.	<u>W-918</u> 0	Culture(s): Not noted	
	Description:	Shell and flake scatter; manos; debitage; the	ermal fractured rock. Recorded by: R.Kaldenberg 1976
Site No.	W-919 (Culture(s): San Dieguito (?); La Jolla	
	Description:	Shell and artifact scatter; midden; cores; f	
	** **		Recorded by: R.Kaldenberg 1970
Site No.		Culture(s): Not noted	
	Description:	Shell and flake scatter.	
			Recorded by: R.Kaldenberg 1975
Site No.	W-942	Culture(s): Not noted	
	Description: pushplane.	Shell and flake scatter; ceramics; metate;	cores; hammerstones; scrapers; Recorded by: R.Kaldenberg 197
Site No.	W-947	Culture(s): Historic	
		Ruins of the Encinitas Adobe.	
			Recorded by: R.Kaldenberg 1975
Site No	.W-950	Culture(s): Unknown	
	Description: debitage.	0	
			Recorded by: R.Kaldenberg 1975
Site No	.W-951	Culture(s): Unknown	
	Description:	: Camp site; midden; shell; flakes/debitage; s; cores; scrapers; thermal fractured rock.	manos; metate fragments; Recorded by: R.Kaldenberg 1975
Site No	W-971	Culture(s): Non-diagnostic	, , , , , , , , , , , , , , , , , , , ,
		: Shell and lithic scatter; flakes; thermally	
			Recorded by: R.Kaldenberg 1976
Site No	o.W-978	Culture(s): La Jolla	
	Description mano fragmen	n: Lithic scatter; shell; hammerstone; cores; ints; pushplane; thermally fractured rocks.	flakes; metate fragment;

Source of Request: Wester Services, Inc William Eckl	hardt
Name of Project: SDG&F San Onofre to Mission and Encina Site No. W-1034 Culture(s): Not noted	Transmission Corridor - Joh #3519
Description: Lithic scatter; tools; flakes; mano.	Recorded by: J.Kinney 1976
Site No. W-1035 Culture(s): Not noted	necorded by annually 1970
Description: Flaking station; cores.	
Site No. W-1036 Culture(s): Not noted	Recorded by: J.Kinney 1976
Description: Lithic scatter; possible hearths; f	
Site No. W-1038 Culture(s): Not noted	Recorded by: J.Kinney 1976
Description: Milling station; bedrock mortars an	
Site No. N-1172 Culture(s): Unknown	Recorded by: V.Kinney 1975
Description: Camp site; shell; hearths; cores; f.	
Site No.W-1306 Culture(s): Blade and Core	Recorded by: C.Bull 1977
Description: Burnt and broken rock; hearths; core	Recorded by: R:Minshall 197
Site No.W-1322 Culture(s): Early Man Horizon	
Description: Lithic scatter; tools; cores; flake	Recorded by: G.Self 1977
ite No.V-1345 Culture(s): Late Prehistoric	
Description: Discovery site of cloud blower pipe.	
ite No.W-1356 Culture(s): Prehistoric	Recorded by: J.Fgan 1977
Description: Shell; flakes; mano fragments.	Recorded by: W.Eckhardt 1977

Source of Request: Wester Services, Inc William Eckhardt	
ame of Project: SDG&E San Onofre to Mission and Encina Tran	emission Corridor - Job #3519
ite No. W-1359 Culture(s): Prehistoric	
Description: Artifact scatter; flakes; manos; shell.	Recorded by: W.Eckhardt 1977
ite No. W-1383 Culture(s): Early Man	necotaed by . Webbanardo 1777
Description:	D
ite No. W-1438 Culture(s): Early Milling	Recorded by: B.Reeves 1977
Description: Cultural debris; flakes; debitage; scr	aper.
	Recorded by: L.McCoy 1977
ite No. W-1439A, B, C Culture(s): Early Milling; H storic	
Description: W-1139A consists of a adobe ruin and flaw-1139B consists of a single flake. W-1139C consist of a single projectile point.	akes, debitage and scrapers. ts Recorded by: L.McCoy 1977
ite No. W-1444B Culture(s): Not noted	
Description: Chopping tools.	
tte No. W-1445B,C Culture(s): Not noted	Recorded by: L.McCoy 1977
Description: N-1145B consists of two utilized flakes. projectile point.	W-1445C consists of a single Recorded by: L.McCoy 1977
te No.W-1500 Culture(s): Unknown	
Description: Bedrock grinding slicks.	
te No.W-1671 Culture(s):	Recorded by: S. Berryman 1977
Description: Site mapped only. Site data has not bee	n received.
	Recorded by: G.Stickel 1978
te No. W-1741A,B Culture(s): La Jolla; Late Prehistoric	
Description: Locus A has flaked stone and pottery. L possibly not cultural.	Recorded by: K.Hedges 1978

San Diego State University San Diego, CA 92182 (714) 286-6300

Date of RequestAugust 23, 1978 (x) Letter () Telephone () In Personate Request Received August 25, 1978 (x) Map Received (x) Map Returns (x) Map Received (x) Map Returns (x) Map Received (x) Map Returns (x) Map Received (x) Map Received	Source	of Request W	ESTEC				
Name of Project SDG&E San Onofre to Mission & San Onofre to Encina Transmission Corridor () The San Diego State University files show no recorded site for the project area. (X) The San Diego State University files show the following sites (X) within (X) in the vacinity of the project area. Site No. SDI-147							ne () In Person
() The San Diego State University files show no recorded site for the project area. (X) The San Diego State University files show the following sites (X) within (X) in the vicinity of the project area. Site No. SDI-147	Date Re	quest Receive	August 25.	1978	(x) Map Reces	ived	(x) Map Returned
(X) The San Diego State University files show the following sites (X) within (X) in the vicinity of the project area. Site No. SDI-147	Name of	Project SDG&I	E San Onofre to	Mission &	San Onofre to I	ncina Transm	ission Corridor 35
the vicinity of the project area. Site No. SDI-147	2 2 2						
Site No. SDI-147 Culture(s): Recorded by Treganza, no site description. Description: Site No. SDI-148 Culture(s): Recorded by Treganza, no site description. Description: Site No. SDI-150 Culture(s): Unknown Description: 150 yards in diameter, possibly 1 foot in depth, "arrowheads, metate manos, and a possible stone hand tool". (Smart, 1949) Site No. SDI-209 Culture(s): Recorded by Treganza, no site description. Description: Site No. SDI-210 Culture(s): Recorded by Treganza, no site description. Description: Site No. SDI-213 Culture(s): Recorded by Treganza, no site description.	(X) Th	e San Diego S	tate University	files show	the following	g sites (X)	within (X) in
Description: Site No. SDI-148							
Site No. SDI-148	DI CE MO			Recorded	by freganza, no	site descri	.ption.
Description: Site No. SDI-150		Description.	Transfer in				
Site No. SDI-150 Culture(s): Unknown Description: 150 yards in diameter, possibly 1 foot in depth, "arrowheads, metate manos, and a possible stone hand tool". (Smart, 1949) Site No. SDI-209 Culture(s): Recorded by Treganza, no site description. Description: Culture(s): Recorded by Treganza, no site description. Description: Culture(s): Recorded by Treganza, no site description.	Site No.	SDI-148 ·	Culture(s):	Recorded	by Treganza, no	site descri	ption.
Description: 150 yards in diameter, possibly 1 foot in depth, "arrowheads, metate manos, and a possible stone hand tool". (Smart, 1949) Site No. SDI-209 Culture(s): Recorded by Treganza, no site description. Description: Culture(s): Recorded by Treganza, no site description. Description: Culture(s): Recorded by Treganza, no site description. Site No. SDI-213 Culture(s): Recorded by Treganza, no site description.		Description:			,		
manos, and a possible stone hand tool". (Smart, 1949) Site No. SDI-209	Site No.	SDI-150	Culture(s):	Unknown			
Site No. SDI-210 Culture(s): Recorded by Treganza, no site description. Description: Culture(s): Recorded by Treganza, no site description. Description: Culture(s): Recorded by Treganza, no site description. Culture(s): Recorded by Treganza, no site description.		Description:	150 yards in	diameter, po	ossibly 1 foot	in depth, "a	rrowheads, metates
Description: Site No. SDI-210 Culture(s): Recorded by Treganza, no site description. Description: Site No. SDI-213 Culture(s): Recorded by Treganza, no site description.		manos, and a	possible stone	hand tool".	(Smart, 1949)	
Culture(s): Recorded by Treganza, no site description. Description: Culture(s): Recorded by Treganza, no site description. Culture(s): Recorded by Treganza, no site description.	Site No.	SDI-209	Culture(s):	Recorded h	y Treganza, no	site descri	ption.
Description: Site No. SDI-213 Culture(s): Recorded by Treganza, no site description.		Description:					
Description: ite No. SDI-213 Culture(s): Recorded by Treganza, no site description.	Site No.	SDI-210	Culture(s):	Recorded 1	y Treganza, no	site descri	ption.
		Description:					
	ite No.	SDI-213	Culture(s):	Recorded 1	by Treganza, no	site descri	ption.
에 가는 사람들이 가게 하는데 하는 가는 아들은 아들이 아니라 된 것이 되는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하		Description:					
	Note: T	his report in niversity fil	cludes only that es and may not	it informati	ta on file at	from the San other instit	utions. A
Note: This report includes only that information available from the San Diego State University files and may not include data on file at other institutions. A	2	ack of sites s	recorded in our	r files can	not be taken a	s assurance	of the absence
University files and may not include data on file at other institutions. A lack of sites recorded in our files cannot be taken as assurance of the absence	0.	f archaeologic	cal materials.	of constru	uld occur that	any cultura fied archaeo	logist should
University files and may not include data on file at other institutions. A lack of sites recorded in our files cannot be taken as assurance of the absence of archaeological materials. If it should occur that any cultural remains are				,			
University files and may not include data on file at other institutions. A lack of sites recorded in our files cannot be taken as assurance of the absence	la brones	hack by 1 16	in Dear	2.000		, ,	
University files and may not include data on file at other institutions. A lack of sites recorded in our files cannot be taken as assurance of the absence of archaeological materials. If it should occur that any cultural remains are encountered during the course of construction, a qualified archaeologist should be notified.		HECK DY		Will V	7	.//.	11-
University files and may not include data on file at other institutions. A lack of sites recorded in our files cannot be taken as assurance of the absence of archaeological materials. If it should occur that any cultural remains are encountered during the course of construction, a qualified archaeologist should be notified. Record check by	Date 1	19 DI, 10	178 3	Signed	harry	hine	el-
University files and may not include data on file at other institutions. A lack of sites recorded in our files cannot be taken as assurance of the absence of archaeological materials. If it should occur that any cultural remains are encountered during the course of construction, a qualified archaeologist should be notified. Record check by		0			/	E #44	
University files and may not include data on file at other institutions. A lack of sites recorded in our files cannot be taken as assurance of the absence of archaeological materials. If it should occur that any cultural remains are encountered during the course of construction, a qualified archaeologist should be notified. Record check by				RS	-12 /		

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page 2

Source of Request	
Date of Request	() Letter () Telephone () In Person
Date Request Received	() Map Received () Map Returned
Name of Project	
() The San Diego State University files the vicinity of the project area.	show no recorded site for the project area. show the following sites () within () in
Site No. SDI_316 Culture(s): Unknow	
	ameter, 1 stone bowl and 1 scraper plane, test pit
yielded very few artifacts. (Warren	
Site No. SDI-317 Culture(s): Unknow	
Description: Approx. 60 feet in	diameter, area of dark soil covered with broken rock ar
a few artifacts. (Warren, 1958)	
Site No. SDI-318 Culture(s): Unknow	wn
Description: Approx. 60 feet in d	iameter, surface scatter, largely ditritus of felsite
1 chopper observed. (Warren, 1958)
ite No. SDI-319 Culture(s): Unknow	wn
	ameter, surface site containing ditritus of felsite
and scattered artifacts, scrapers as	
ite No. SDI-320 Culture(s): Winkmon	
	chipping station, points, scrapers and 1 pot sherd.
(Warren, 1958)	our production of the second s
	San Dieguito Type Site" "Harris Site"
	San Dieguito to Diegueno. Excavated: Rogers, Warren,
Davis, & Ezell. ret: museum of man Put	bs. "The San Dieguito Type Site." (Warren, 1958, May, 1969, Wakefield, 1963)
University files and may not include lack of sites recorded in our files of archaeological materials. If it	mation available from the San Diego State e data on file at other institutions. A cannot be taken as assurance of the absence should occur that any cultural remains are etruction, a qualified archaeologist should
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page 3

Source of Request	
Date of Request	
Date Request Received	() Map Received () Map Returned
Name of Project	
() The San Diego State University for the vicinity of the project area	
Site No. SDI-532 Culture(s):	Jnknown
Description: 75 x 100 feet, so	crapers, manos, crude, site soil not distinguishable from
surrounding soil. (Warren, 19	59)
Site No. SDI-608 Culture(s): _	Jnknown
Description: Manos, Metate f:	rag., and scraper plane. (Warren, 1959)
Site No. SDI-609 Culture(s):	Unknown
Description: 300 x 300 feet,	midden with few shells and surface artifacts-core tools
and manos. Stratigraphic secti	on of cut bank by J. Prost. (Warren, 1959)
Site No. SDI-610 Culture(s):	Unknown
Description: 500 x 200 feet,	small amount of midden with a few shells, core tools,
scraper, metate and mano. (Wa	rren, 1959)
Stra No SDI-611 Gulture(s):	Unknown
Description: 300 feet in dia	meter, extensive habitation site, midden with shell,
	pers, flakes, hammerstones etc. (Nowta, 1959)
Site No. SDI-630 Culture(s):	Unknown
Description: 300 x 100 feet.	dark soil with heavy shell concentration, large camp-
site, mano, 17 hammerstones an	d chopper. ref: Wallace ms. on file ASUCLA (Wallace, 195
Note: This report includes only that University files and may not i lack of sites recorded in our	information available from the San Diego State nclude data on file at other institutions. A files cannot be taken as assurance of the absence If it should occur that any cultural remains are f construction, a qualified archaeologist should
Date	Signed

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page 4

	Source of Request	
Date Request Received () Map Received () Map Ret Name of Project () The San Diego State University files show no recorded site for the project area () The San Diego State University files show the following sites () within () the vicinity of the project area. Site No. SDI-631	Date of Request	() Letter () Telephone () In Person
Name of Project () The San Diego State University files show no recorded site for the project area () The San Diego State University files show the following sites () within () the vicinity of the project area. Site No. SDI-631		
() The San Diego State University files show the following sites () within () the vicinity of the project area. Site No. SDI-631		
Description: 200 yds. x 50 yds., large campsite, manos, metate frag., chopper pestles, hammerstones, slight midden. (Wallace, 1958) Site No. SDI-688 Culture(s): Unknown Description: Approx. 200 ft. in diameter, thin scattering of Pectin and chion 1/2 feet, manos, choppers, and scraper planes. (Warren & Warren, 1960) Site No. SBI-689 Culture(s): Unknown Description: 100 x 50 feet, some shell, scrapers, manos and 3 blades. (Warren Warren, 1960) Site No. SDI-695 Culture(s): Unknown Description: 100 feet in diameter, stream cut with shell and dark midden, ap 1 foot deep. (Warren True, 1960) Site No. SDI-696 Culture(s): Unknown Description: 150 yds. x 50 yds., midden with light shell, core and hammerston 3 pet sherds. (Warren, &True, 1960) ite No. SDI-697 Culture(s): Unknown	() The San Diego State University file	
pestles, hammerstones, slight midden. (Wallace, 1958) Site No. SDI-688	Site No. SDI-631 Culture(s): Unkn	own
Site No. SDI-688 Culture(s): Unknown Description: Approx. 200 ft. in diameter, thin scattering of Pectin and chion 1 1/2 feet, manos, choppers, and scraper planes. (Warren & Warren, 1960) Site No. SBI-689 Culture(s): Unknown Description: 100 x 50 feet, some shell, scrapers, manos and 3 blades. (Warren Warren, 1960) Site No. SDI-695 Culture(s): Unknown Description: 100 feet in diameter, stream cut with shell and dark midden, ap 1 foot deep. (Warren& True, 1960) Site No. SDI-696 Culture(s): Unknown Description: 150 yds. x 50 yds., midden with light shell, core and hammerston 3 pot sherds. (Warren,&True, 1960) 1te No. SDI-697 Culture(s): Unknown	Description: 200 yds. x 50 yds.	, large campsite, manos, metate frag., choppers, cobb
Description: Approx. 200 ft. in diameter, thin scattering of Pectin and chion 1 1/2 feet, manos, choppers, and scraper planes. (Warren & Warren, 1960) Site No. SBI-689	pestles, hammerstones, slight mi	dden. (Wallace, 1958)
1 1/2 feet, manos, choppers, and scraper planes. (Warren & Warren, 1960) Site No. SMI-689 Culture(s): Unknown Description: 100 x 50 feet, some shell, scrapers, manos and 3 blades. (Warren Warren, 1960) Site No. SDI-695 Culture(s): Unknown Description: 100 feet in diameter, stream cut with shell and dark midden, ap 1 foot deep. (Warren& True, 1960) Site No. SDI-696 Culture(s): Unknown Description: 150 yds. x 50 yds., midden with light shell, core and hammerston 3 pot sherds. (Warren, &True, 1960) ite No. SDI-697 Culture(s): Unknown	Site No. SDI-688 Culture(s): Unkn	own
Description: 100 x 50 feet, some shell, scrapers, manos and 3 blades. (Warren, 1960) Site No. SDI-695	Description: Approx. 200 ft. in	diameter, thin scattering of Pectin and chione to
Description: 100 x 50 feet, some shell, scrapers, manos and 3 blades. (Warren, 1960) Site No. SDI-695	1 1/2 feet, manos, choppers, and	scraper planes. (Warren & Warren, 1960)
Warren, 1960) Site No. SDI-695	Site No. SaI-689 Culture(s): Unknown	own
Description: 100 feet in diameter, stream cut with shell and dark midden, ap 1 foot deep. (Warren& True, 1960) Site No. MDI-696 Culture(s): Unknown Description: 150 yds. x 50 yds., midden with light shell, core and hammerston 3 pot sherds. (Warren,&True, 1960) Ite No. SDI-697 Culture(s): Unknown	Description: 100 x 50 feet, so	me shell, scrapers, manos and 3 blades. (Warren&
Description: 100 feet in diameter, stream cut with shell and dark midden, ap 1 foot deep. (Warren& True, 1960) Site No. MDI-696 Culture(s): Unknown Description: 150 yds. x 50 yds., midden with light shell, core and hammerston 3 pot sherds. (Warren,&True, 1960) ite No. SDI-697 Culture(s): Unknown	Warren, 1960)	
1 foot deep. (Warren& True, 1960) Site No. MDI-696	Site No. SDI-695 Culture(s): Unknown	own
Description: 150 yds. x 50 yds., midden with light shell, core and hammerston 3 pot sherds. (Warren, &True, 1960) 1te No. SDI-697 Culture(s): Unknown	Description: 100 feet in diame	ter, stream cut with shell and dark midden, approx.
Description: 150 yds. x 50 yds., midden with light shell, core and hammerston 3 pot sherds. (Warren, &True, 1960) ite No. SDI-697 Culture(s): Unknown	1 foot deep. (Warren& True, 1960	0)
Description: 150 yds. x 50 yds., midden with light shell, core and hammerston 3 pdt sherds. (Warren,&True, 1960) ite No. SDI-697 Culture(s): Unknown	ite No. EDI-696 Culture(s): Unkno	own
3 pot sherds. (Warren, &True, 1960) ite No. SDI-697 Culture(s): Unknown		·
ite No. SDI-697 Culture(s): Unknown		
manos, scrapers and choppers. (Warren & True, 1960)		
	be notified.	metruction, a qualified archaeologist should
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	ate .	Signed

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Page 5

() Telephone () In Person ceived () Map Returned delte for the project area. ing sites () within () in artifacts, manos, choppers and artifacts, manos, choppers and delte Pectin and Chione, a few artifacts and a few shell, manos, 960)
d site for the project area. ing sites () within () in artifacts, manos, choppers and nos and scraper planes. (Warren & ed Pectin and Chione, a few artifaction)
d site for the project area. ing sites () within () in artifacts, manos, choppers and nos and scraper planes. (Warren & ed Pectin and Chione, a few artifaction)
artifacts, manos, choppers and los and scraper planes. (Warren & ed Pectin and Chione, a few artifacts) etifacts and a few shell, manos,
nos and scraper planes. (Warren & ed Pectin and Chione, a few artifaction)
nos and scraper planes. (Warren & ed Pectin and Chione, a few artifaction)
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THE RESERVE OF THE PARTY OF THE
red with artifacts and some shell.
m as W-106, excavated by Kaldenber
low mounds (King, 1961).
. (Kaldenberg, nd) no ref.
)

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page 6

Date of	f Request		_ () Letter () Telephone () In Person
Date Re	equest Received	d	_ () Map Received () Map Returned
Name of	Project		
() Th	ne San Diego St		show no recorded site for the project area. show the following sites () within () in
Site No	. SDI-764	Culture(s): Unknown	
	Description:	100 feet in diameter,	shell and a few artifacts. (King, 1961)
Site No	. SDI-765	Culture(s): Unknown	. 100 ft. in diameter. Manos, 3 greenish
	Description:	gravel lines, ca. 24	inches wide and 30 ft. to 60 ft long. Gravel
	pictographs	? (Warren, 1960)	
Site No	. SDI-946	Culture(s): Unknown	n, perhaps Luiseno. Dark midden and moderate
	All has a superior and a superior	Contractive to the Contractive	yards in diam. (CNW & RHC, 1961). Very large sits, core, flakes, manos, metates. (Kaldenberg, 1976)
	SDI-1015		ect location, no site records.
	Description:		
ite No.	SDI-4357	Culture(s): Unknown	1
	Description:	Ca. 200 x 300 ft. Sur	rface is littered with patinated scrapers, flake
	and debitage.	(Kaldenberg, 1975)	
ite No.	SDI-4398	Culture(s): Unknown	
-	Description:		ated hearth" containing thermally fractured rock
	(Kaldenber	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN 2 IN COLUMN	
200	miversity file ack of sites r f archaeologic	es and may not include recorded in our files of cal materials. If it	nation available from the San Diego State data on file at other institutions. A cannot be taken as assurance of the absence should occur that any cultural remains are truction, a qualified archaeologist should
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page 7

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ate	of Request	() Letter () Telephone () In Person
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	of Project	
)	The San Diego State University files sho the vicinity of the project area.	w no recorded site for the project area. w the following sites () within () in
1te	No. SDI-4401 Culture(s): "La Jolla	
		te of 50 to 80 cms. a shell fish processing camp, per, metate frag., mano, chopper. (Kaldenberg, 1976
ite	No. SDI-4413 Culture(s): "Late Pre	historic"
		es and pottery, area less than 10 meter sq.
ite	No. SDI-4414 Culture(s): Unknown	
		ed on top of a large, prominate butcrop.
ite	No. SDI-4416 Culture(s): "La Jolla	
	Description: 200'e-w, 250' n-s, she	Welch, 1975) for ref. see below, SDI-4417
te	No. SDI-4417 Culture(s): Unknown. Description: 1 burial, Amargosa/San	Low mounds, shell and cobbles, earth oven and DieguitoIII point, crescentic, metates(Ezell & hammersotne, doughnut stone, blade, burial, bowl
te		choppers, manos, scraper plane, point (Welch, 1975
		rformed, April, 1975, Ezell & Campo. 53 postholes
		nta Margarita River Valley & Adjacent Areas, Camp
	Pendleton. Welch, 1975.	
ote:	University files and may not include a lack of sites recorded in our files no	ation available from the San Diego State data on file at other institutions. A annot be taken as assurance of the absence would occur that any cultural remains are ruction, a qualified archaeologist should
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page 8

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te of	Request	() Letter () Telephone () In Person
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	Project	
) The	San Diego Sta	ate University files show no recorded site for the project area. ate University files show the following sites () within () in the project area.
te No.	SDI-4424	Culture(s): Unknown. ref. see SDI-4417
	Description:	50 x 20 meters, light shell midden, oywter, Chaone, Pecten, metate, fla
	several tool f	rags., and cores. (Welch, 1975)
te No.	SDI-4426	Culture(s): Unknown. ref. see SDI-4417
		50 x 20 meters, several flakes and 1 mano, scattered shell to depth
		(Welch, 1975)
te No.	SDI-4427	Culture(s): Unknown. ref. see SDI-4417
	Description:	20 x 25 meters. Light shell scatter exclusively of Chione, several
	The state of the s	ostholes were dug. (Welch, 1975)
te In.	SDI-4492	Culture(s): "San Dieguito, La Jollan"
	-	Site covers hilltop, hammerstone, flakes. (Kaldenberg, 1975)
		Zorro" (?) EIR Appendix F, RECON
te No.	SDI-4538	Culture(s): Unknown "El Horno Creek Skeleton"
	CONTRACTOR DESCRIPTION OF THE PARTY OF THE P	Ca. 7 ft. below surface, 1 burial exposed by stream cut, some shell,
	The second secon	ection performed no artifact description. (Speegle & Ezell, 1960)
to No	SDI-4540	Culture(s): No site description
re no.		our sure(s).
	Description:	
1	miversity file ack of sites 1	cludes only that information available from the San Diego State es and may not include data on file at other institutions. A recorded in our files cannot be taken as assurance of the absence cal materials. If it should occur that any cultural remains are ring the course of construction, a qualified archaeologist should
	e notified.	
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page 9

	Request	() Letter () Telephone () In Person
	uest Received	() Map Received () Map Returned
ne of I	Project	
) The the te No.	San Diego Sta vicinity of t SDI-4578	ate University files show no recorded site for the project area. Ate University files show the following sites () within () in the project area. Culture(s): Unknown "Midden, excavation potential ok." no description, no identification
e No.	SDI-4579	Culture(s): Unknown
	Description: fication	"Midden, excavation potential, excellent. no description, no identi-
e No.	SDI-4630	Culture(s): "San Dieguito, La Jollan"
	Description: midden, shell.	Contains concentrations of groundstone tools, flaked stone tools, Highly patinated. 3000 sq. ft. ref: contact RECON. an EIR. (Kaldenber
		Culture(s): "San Dieguito (?)" 6000 sq. ft., random distribution of surface tools, 4 heavily patinated ref: see RECON an EIR. (Kaldenberg, 1975)
e No.	SDI-4662	Culture(s): "Kumeyaay". 1976, posthole samples taken by Moriarty.
,	Description:	Midden 25m ns x 20m ew. 7-10% sample excavated Jan. 1977, flakes,
I	proj. points,	manos, cores, hammerstones, bead, shell, potsherds. (Berryman, 1977)
e No.	SDI-4846	Culture(s): "La Jollan"
. 1	Description:	2 loci encompassing 1/2 acre. Flakes, chipped tools, mano frags.,
1	thermally frac	tured rock and shell. Postholing was done. (Kaldenberg, 1976)

San Diego State University San Diego, CA 92182 . (714) 286-6300

page 10

Date of Request	() Tester () Maliabara () = -
Date Request Received	
Name of Project	() Map Received () Map Returned
	an about no managed and a few about
	es show no recorded site for the project area. es show the following sites () within () in
the vicinity of the project area.	so show the following sites () within () in
Site No. SDI-4847 Culture(s): "La :	Tollan"
Description: Extensive shell mid	iden with deposits in excess of 3 ft, 1250 x 1500 meter
mano frags., metate frags., flake	es, blades, scrapers . (Rogers, 1966, Kaldenberg, 1976)
	Collan" Rogers (1966) recorded pottery. Extensive
	th of 1.5 - 3 feet and 700 x 650 ft. Manos and frags.
	, cores, choppers, flakes, scrapers, proj pt. (Kaldent
Site No. SDI-4849 Culture(s): "La	100
	Midden containing hammerstones, flakes, mano frags.,
and thermally fractured rocks. (
ite No. SDI-4854 Culture(s): Unkno	
	ter, 150 x 150 ft., surface, highly patinated flakes
and scrapers. (Kaldenberg, 1976	
	wn. Flaking station, 25 x 25 ft., cores and core
	hammerstone, flakes, scraper, hearth feature,
quartz, andesite and basalt debit	
ite No. SDI-4856 Culture(s): Unknow	
	ing pit or cooking area, some tools and flakes eroding
from a large chamise to the west.	The state of the s
	3,
	'ormation available from the San Diego State de data on file at other institutions. A
lack of sites recorded in our file	s cannot be taken as assurance of the absence
	t should occur that any cultural remains are instruction, a qualified archaeologist should
be notified.	in the state of th
ecord check by	[18] 전투자 전 12. [18] (19] (19] (19] (19] (19] (19] (19] (19
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San Diego State University San Diego, CA 92182 . (714) 286-6300

page 11

Source of Request	
Date of Request	() Letter () Telephone () In Person
Date Request Received	() Map Received () Map Returned
Name of Project	
	files show no recorded site for the project area. files show the following sites () within () in ea.
Site No.SDI-4857 Culture(s):	Unknown
Description: A hearth with	42 thermally fractured cobbles and 25+ debitage, basalt
and felsite. (Kaldenberg, 1	976)
Site No. SDI-4858 Culture(s):	Unknown
Description: Light shell s	catter, 120 ft. in diameter, Chione only. (Kaldenberg,
Site No. SDI_4859 Culture(s):	"Kumeyaay"
Description: Light shell s	catter and potsherds, 60 x 60 ft. May be a portion of
W-149 as described by Rogers	
ite No. SDI-4860 Culture(s):	
	underlying ash, 3 x 3 ft. (Kaldenberg, 1976)
ite No. SDI-4862 Culture(s):	"Kumeyaay"
	catter, 130 x 130 ft., flakes, 1 pot sherd, Pecten and
Chione. (Kaldenberg, 1976)	
ite No. SDI-4863 Culture(s):	
	Shell, thermally fractured rock, manos, flakes and scra
on knoll slope and at base.	(Kaldenberg, 1976)
University files and may not lack of sites recorded in our of archaeological materials.	(Kaldenberg, 1976) It information available from the San Diego State include data on file at other institutions. A files carnot be taken as assurance of the absence If it should occur that any cultural remains are of construction, a qualified archaeologist should
ecord check by	
ate	Signed

San Diego State University San Diego, CA 92182 . (714) 286-6300

page 12

		X Request					
Date	of	Request		()L	etter () 7	elephone	() In Person
Date	Req	uest Received	1	() x	ap Received	() Map Returned
Name	of	Project					
()	The	San Diego St	tate University	files show no re	corded site f	or the pr	oject area.
	the	vicinity of	the project ar				
Site	No.	SDI-4864	_ Culture(s):	"La Jolla" A mo	derate scatte	r of artif	facts of various
		Description:	types, 180 x 4	00 ft., flakes, me	tate frags, m	ano frags	and some shell
		Chione and I	ecten. (Kalde	iberg, 1976)			
Site	No.	SDI-4865 ·	Culture(s):	"La Jollan"			
		Description:	Dense surface	shell concentrati	on, 200 x 60	feet. Hamm	merstones, cores
	fl	akes, mano fr	ags., flake to	ols, Pecten and Ch	ione.Fart of	W-149? .(I	Caldenberg, 1976
Site		SDI-4866	Culture(s):				
		Description:	Light shell s	eatter, 80 ft. in	dismeter. (K	aldenberg,	1976)
ite	No.	SDI-4867		"La Jollan"			
			OF THE PARTY NAMED IN COLUMN 2 IS NOT THE OWNER, THE OW	atter and lithic d	ebris with bl	ack, sandy	midden, 400 x
		600 ft. (Kal	denberg, 1976)				
ite.	No.	SDI-4868	Culture(s):	"La Jollan"			
			Light surface	scatter. 100 x 40			The state of the s
				thermally fract	ured rock. (Kaldenberg	1976)
ite	No.	SDI-4869	Culture(s):	Unknown			
		Description:	Light scatter	of lithic debris,	350 x 200 ft	, some sh	nell frags-Pecte
	4	lakes and deb	itage, (Kalde	iberg. 1976)			
lote:	לי עיר עיר עיר עיר	his report in his report in hiversity fil ack of sites farchaeologi	cludes only the es and may not recorded in ou cal materials.		ailable from file at other taken as ass our that any	the San Dr instituti urance of oultural 1	iego ions the
d	cì	neck by					
				Signed			

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		() Letter () Telephone () In Person
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me i	of Project	
) !	The San Die	State University files show no recorded site for the project area. State University files show the following sites () within () in of the project area.
te l	No. SDI-487	Culture(s): Unknown
	Descrip	on: Isolated tools, 2 core tools. (Kaldenberg, 1976)
te 1	No. SDI-493	Culture(s): Unknown
	Descrip	on: Extensive midden deposit of flakes, ceramics, mano and metates, slice of sq.m. postholes were dug. (Carrico, 1977) Possible burial.
te 1	No. SDI-499	Culture(s): Not recorded. 17% test excavated 1977, ref:report sub
		on: to Carlsbad Dev. Corp, Carlsbad Plan. Comm. & SDCAS, May 20, 1977. 3 1 . midden, pottery, cores, scrapers, beads, shell, bone, drills etc. (Ike,
te N	No. SDI-50	Culture(s): Unknown
	Descrip	on: Shallow midden with hearth and burnt shell, possible flake. (Largenwalter, 1977)
te N	io. SDI-51	Culture(s): Unknown
	Descrip	on: Light flake scatter and stone/cobble alignment. 190 x 32 feet.
te N	lo. SDI-51	Culture(s): Unknown
	Descrip	on: Milling station, 3 basins. (May, 1974)
te:	Universit lack of a of archae encounter be notifi	includes only that information available from the San Diego State files and may not include data on file at other institutions. A es recorded in our files cannot be taken as assurance of the absence ogical materials. If it should occur that any cultural remains are during the course of construction, a qualified archaeologist should.
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San Diego State University San Diego, CA 92182 page 14 (714) 286-6300

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n Diego State University files show no recorded site for the project area. In Diego State University files show the following sites () within () cinity of the project area. In Diego State University files show the following sites () within () cinity of the project area. In Diego State University files show the following sites () within ()	
n Diego State University files show the following sites () within () cinity of the project area. N=5112 Culture(s): Unknown	
I=5112 Culture(s): Unknown	
scription: Milling station with 9 basins. (May, 1974)	
I-5113 Culture(s): Unknown. Possibly Roger's W-282.	_
scription: Milling station with 17 slicks. (May, 1974)	
I-5114 Culture(s): Unknown	_
scription: A roasting pit with medium to heavy patina. (May, 1974)	
I-5115 Culture(s): Historic, 22 x'31 ft., 2 room house ruin. Walls we	re
scription: plastered, glass, iron ; plaster, bricks, wagon ports, machenery, s, barrel straps, pans. 19c. settlement of Lusardi family.1872-1882. (May,	bot
-5120 Culture(s): Unknown	
cription: Small scatter of flakes, teshoas, one expended core. (Eckhardt, 1936 sq meters, no depth	977)
-5121 Culture(s): Unknown	
cription: Large number of artifacts, 1600 sq. meters, thumbnail scraper, co	res
	Culture(s): Unknown Scription: A roasting pit with medium to heavy patina. (May, 1974) Culture(s): Historic, 22 x 31 ft., 2 room house ruin, walls we cription: plastered, glass, iron ; plaster, bricks, wagon ports, machenery, s, barrel straps, pans. 19c. settlement of Lusardi family.1872-1882. (May, -5120 Culture(s): Unknown Cription: Small scatter of flakes, teshoas, one expended core. (Eckhardt, 1936 sq meters, no depth

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page 15

rre	of :	Request	() Letter () Telephone () In Person
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)	The	San Diego St Vicinity of	ate University files show no recorded site for the project area. ate University files show the following sites () within () in the project area.
te	No.		Culture(s): Unknown
		Description:	Only evidence remaining is a single utilized flake. (Eckhardt, 1977)
te	No.	SDI-5124	Culture(s): Unknown. May be W-393. "Probably San Dieguito"
		Description:	Extensive scatter of flakes and hammerstones, 2596 sq. m. (Eckhardt,
			. 1977)
te !	No.	SDI-5126	Culture(s): Unknown. 1 basalt flake.
		Description:	"Entire area to be resurveyed in attempt to define the site, because it
		could not be	adequately surveyed at this time." (Eckhardt, 1977)
te l	No.	SDI-5130	Culture(s): "Encinitas" Widespread distribution of discolored soil,
		Description:	artifacts, shell & exotic lithic, ca. 15-20 acres, mano-metate frags.,
			pers, flakes- worked and utilized, historic adobe. (Drover, 1977)
te 1		SDI-5131	Culture(s): "Mexican-AmericanHistorical". Melted adobe walls, 15 x15
		Description:	feet, burned wood house, cement & rock floor foundation of third struct
			20th c. metal and ceramic artifacts. (Drover, 1977)
e N			Culture(s): "Encinitas"
			Localized shell frags., and exotic lithics, 1 chopper. (Drover, 1977)
te:	la of en be	niversity file ack of sites to archaeologic	cludes only that information available from the San Diego State es and may not include data on file at other institutions. A recorded in our files cannot be taken as assurance of the absence cal materials. If it should occur that any cultural remains are ring the course of construction, a qualified archaeologist should
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page 16

Source	of Request
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the	e San Diego State University files show no recorded site for the project area. e San Diego State University files show the following sites () within () in e vicinity of the project area.
Site No.	. SDI-5133 Culture(s): "Mexican-American Historical". Several historic structures
	Description: & a well. Melted adobe walls show 2 to 3 structures, floor tiles, ceramics
	glass, butchered bone. (Drover, 1977)
ite No.	SDI-5197 Culture(s): "Early Milling". Also historic adobe, 400 x 300 m, possible
	Description: midden, cultural debris scattered on knoll to, frags of adobe walls and foundation remain, flakes, debitage and scrapers. (McCoy, 1977)
ite No.	SDI-5213 Culture(s): "Late Prehistoric"
	Description: Shell midden, 900 x 400 ft., hammerstones, cores, flakes, manos, thermall; fractured rock. (Norwood, 1977)
ite No.	SDI-5214 Culture(s): "Late Prehistoric"
	Description: A shell midden, 2800 sq. meters, hammerstones, cores, flakes, mano, and 1 retouched tool. (Norwood, 1977)
ite No.	SDI-5324 Culture(s): Unknown C- Possible milling site & lithic scatter.
	Description: A-Two lithic scatters within one site, milling impleme ts, thermally frac-
	tured rocks, possible habitation, 45 sq. meters. (Hanna, 1977) B- 1 mano.
te No.	SDI-5325 Culture(s): Unknown
	Description: Lithic scatter 2500 sq. meters, felsite, quartz, quartzite, rhyolite, basa
	and others. chert point, scraper, burned bone frag. (Henna, 1977)
1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	This report includes only that information available from the San Diego State miversity files and may not include data on file at other institutions. A ack of sites recorded in our files cannot be taken as assurance of the absence of archaeological materials. If it should occur that any cultural remains are mocuntered during the course of construction, a qualified archaeologist should be notified.
ate	. Signed

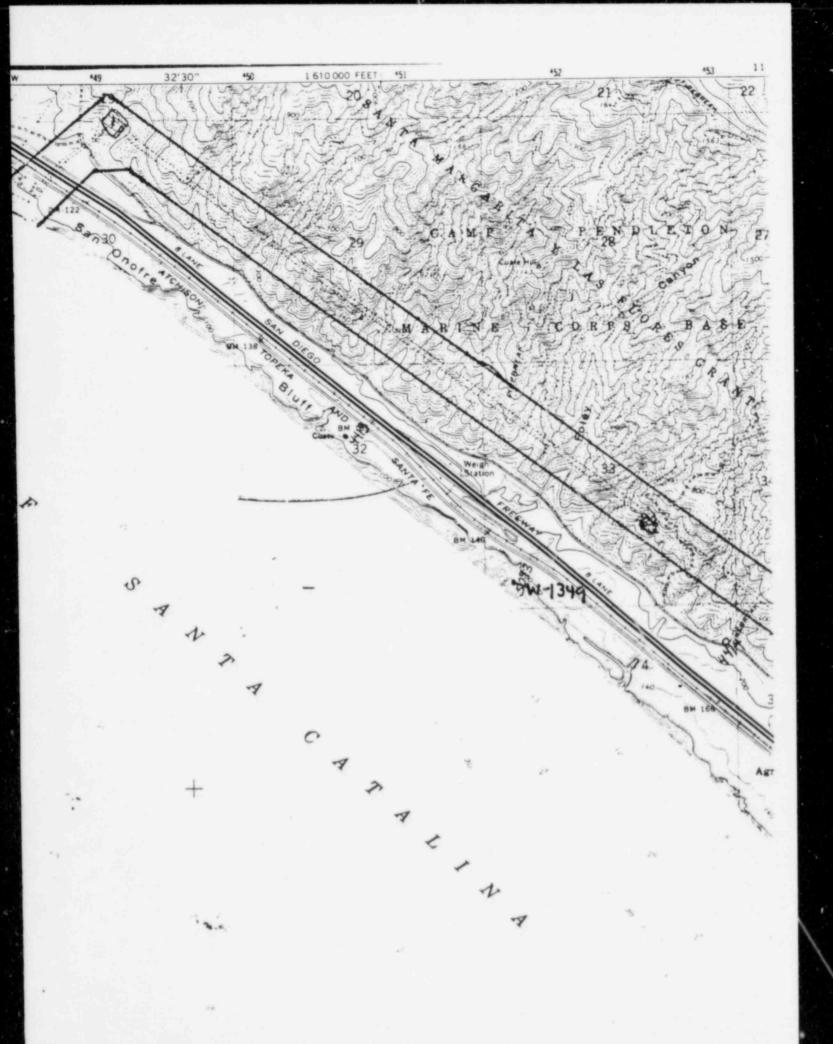
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page 17

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Diego Sta	te University fine project area.	
-5444	D. 3 to / -)	
	culture(s): 0	nknown
cription: 2	manos, 10 flake	s and 2 flaked stone tools, 40 x 5 meters, severely grade
discked.	(Norwood, 1978)	
-5445	Culture(s): _U	nknown
		ring an extensive area, Donax, Chione and Pecten.
-5455	Culture(s): U	nknown
cription:	Eight, 111 defi	ned surface scatter of artifacts, cores and flakes.
o. SDI-5536		
cription:		flakes and 7 possible stone features-cairns?. 2 conical
	STATE OF THE PARTY	regular copple piles. (Hanna, 1977)
		d shell scatter, scrapers, cores, mano frag., and
	-	
		scrapers, cores, mano frags., hammerstones and blades,
	-	
	discked. -5445 cription: (Norwood -5455 cription: 0 x 50 meter -5536 cription: es, 1 rock -5593 cription: merstones, -5594 cription:	discked. (Norwood, 1978) -5445 Culture(s): Uncription: Light shell cover (Norwood, 1977) -5455 Culture(s): Uncription: Eight, ill definor (Norwood, 1975) -5536 Culture(s): Uncription: Light scatter of es, 1 rock alignment, 4 irrespondent, and improved the cription: Light lithics and merstones, 15 x 70 m. (Mucription: Light lithics and merstones, 15 x 70 m. (Mucription: Light lithics and cription: Lithic scatter, cription: Lithic scatter,

San Diego State University page 18 San Diego, CA 92182 page 18 . (714) 286-6300

Source of Request	
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) The San Diego State Univers	sity files show no recorded site for the project area. sity files show the following sites () within () in t area.
	thics and shell scatter, scrapers, cores, manos and hammerstones
25 x 25 m. (Murray & B	
ite No. SDI-5601 Culture((s): "Late Prehistoric"
Description: Ca. 3 acre artifacts. (Graham, 197	es encompassing 4 areas of concentration of shell and lithic
ite No. SDI-5620 Culture(s): Unknown ref: Hist/Arch. Recon. of Merigan Ranch. Gregg 197
Description: Milling st	tation consisting of 5 bedrock mortars, sherds flakes.
ite No. SDI-5652 Culture(e): Historic
	style" house, stone, leather and brass button. (Edwards, 1977)
Description:	a):
te No Culture(s):
- Description:	
University files and may lack of sites recorded in of archaeological materia	that information available from the San Diego State not include data on file at other institutions. A our files cannot be taken as assurance of the absence als. If it should occur that any cultural remains are urse of construction, a qualified archaeologist should
cord check by	• • • • • • • • • • • • • • • • • • • •
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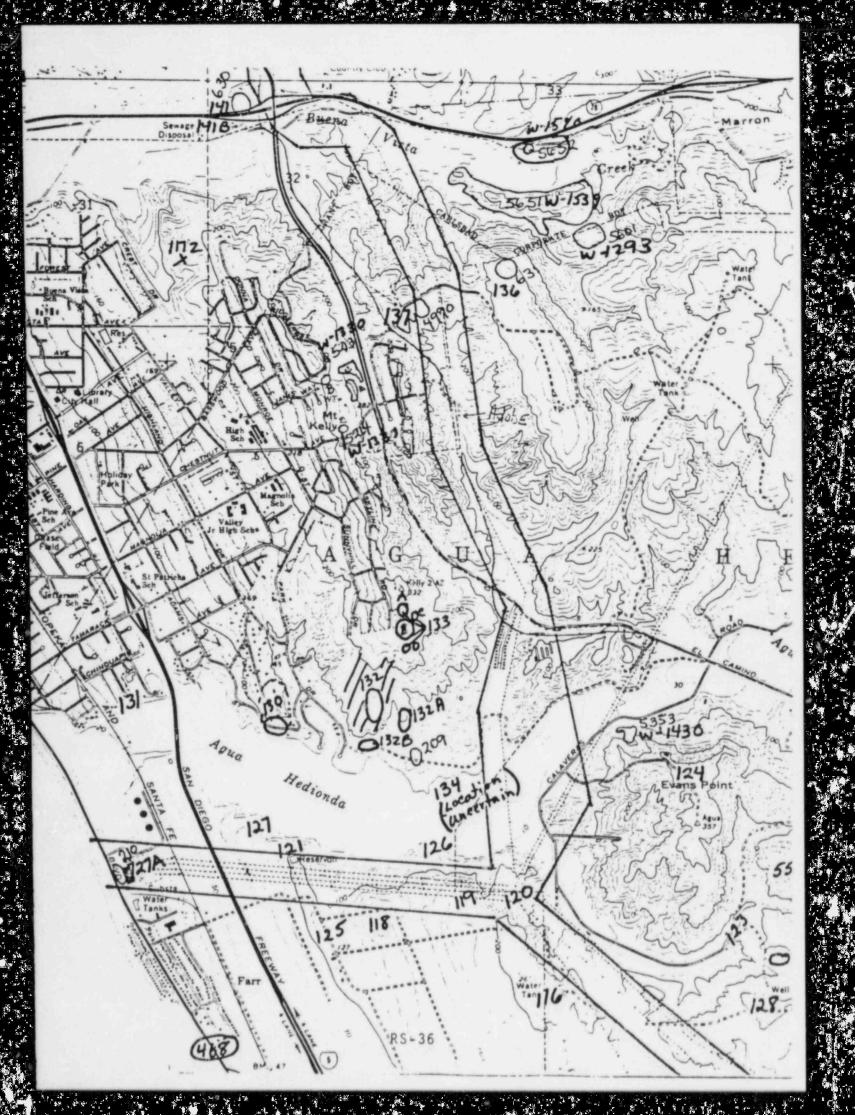


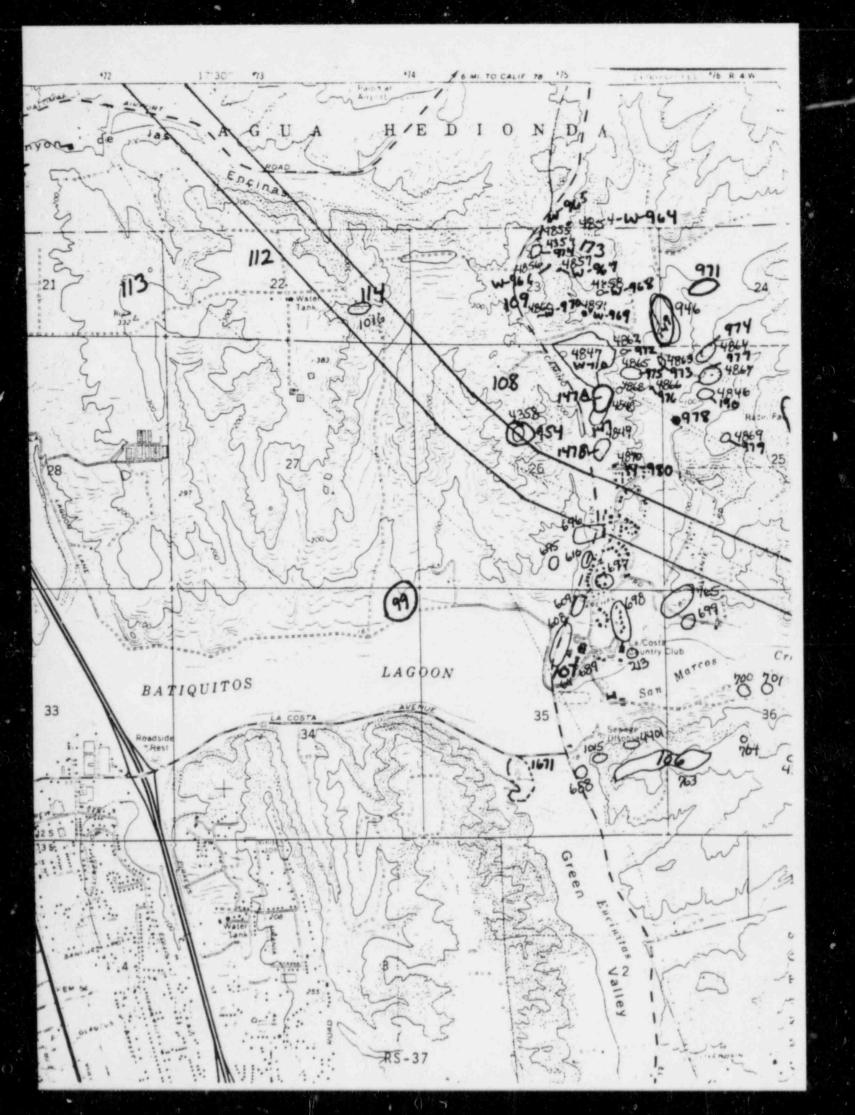






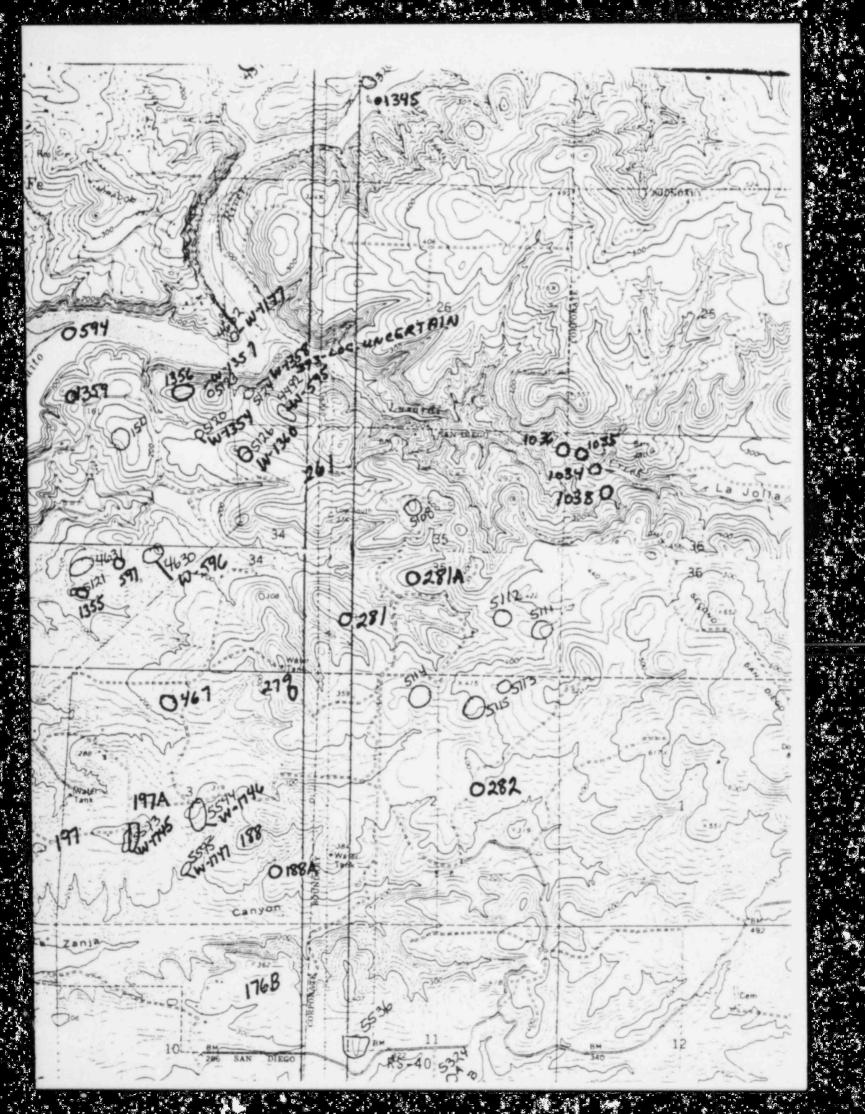


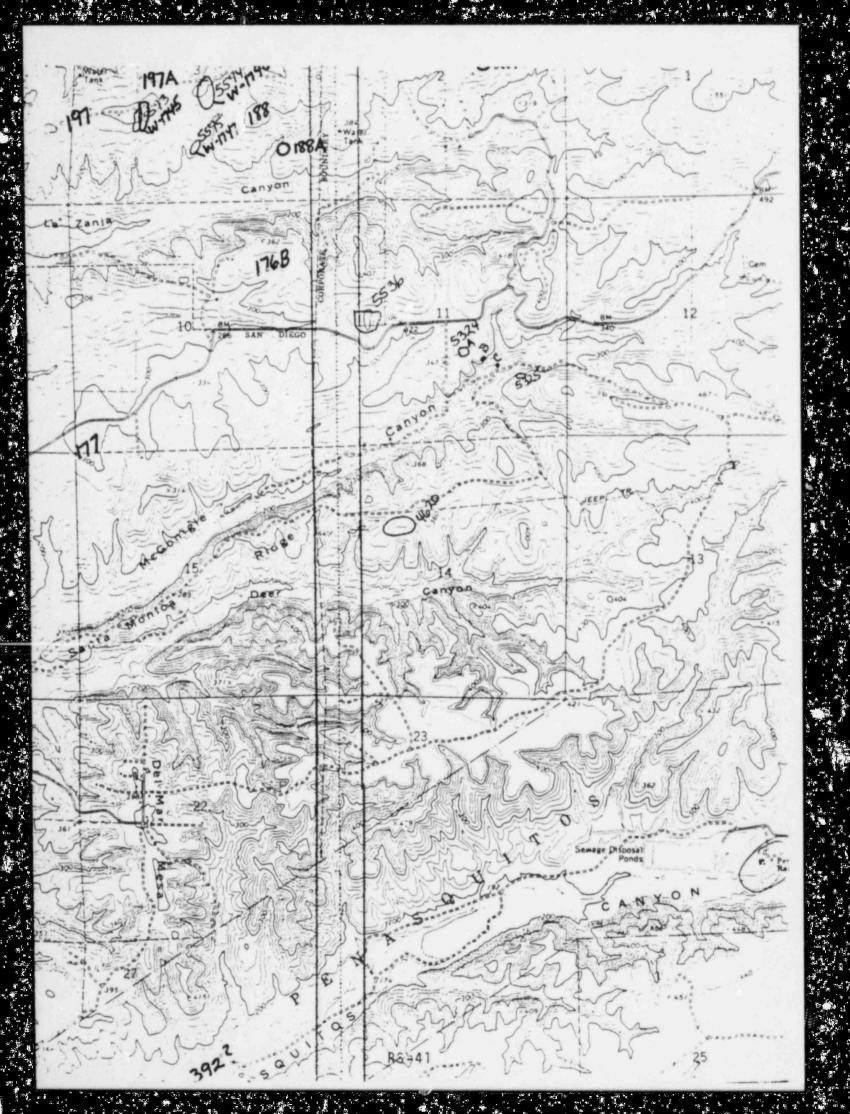


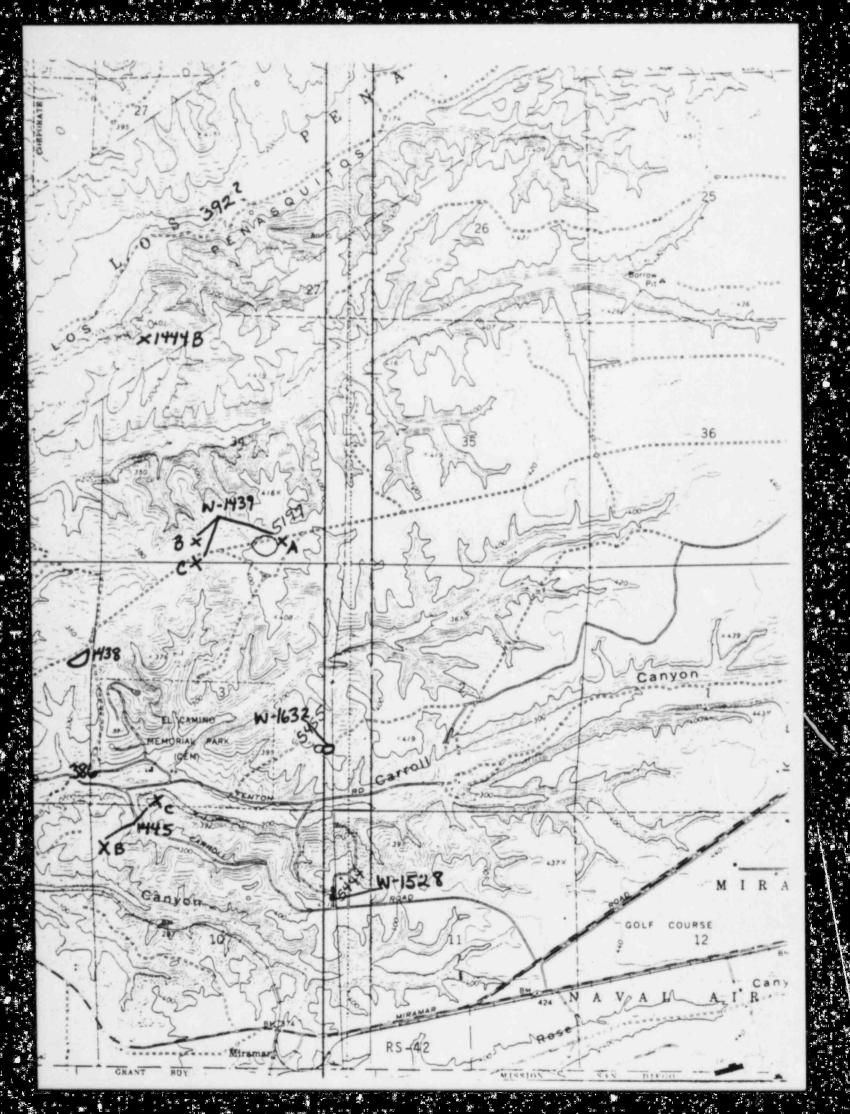














Attachment 6
PHOTO RECORD SHEETS

PROJECT	P/SITE_SDG&E San Onofre to M	Mission DATE(s) December 1978			В
CAMERA	Vivitar	SPECIAL LENS/FILTER	NA NA		
FILM_	Kodacolor II/Black-white	_Circle one: _Slide		Color	print
PHOTOGRAPHER(s):		FRAME NO.(s)			
1) Roxanne Phillips		1 thru 4 (slides)			
2) Jay Thesken/Lesley Eckhardt		5 thru 18 (B&W)	¥1.		

COMMENTS:

FRAME	SUBJECT/FEATURE	LOCUS/UNIT	DIRECTION
1	Commercial use of right-of-way	Clairemont Mesa Blvd.	S
2	Commercial use of right-of-way	The Late County Co.	S
3	Existing right-of-way		W
4	Survey area Clairemont Mesa to Balbo		S
5	Existing right-of-way	Convoy St.	S
6	Overview with isolate artifact	Othello St	W
7	Isolate artifact in situ	Othello St.	W
8	Isolate artifact	"	W
9	Existing right-of-way	from Mira Mesa	S
10	n n n	**	N ·
11	n n	from Penasquito	s N
12	" "		N
13	" (tomato fields)		S
14	Tomato fields	near Black Mt. Road	Е
15	Existing right-of-way/Tower		NW
16	Existing right-of-way near San Diegu	ito River	N
17	Site Overview	W-1958	SE
18	Site Overview	W-281	Е

(Space for additional information on reverse side)

STORAGE INFO: (NEGATIVE) Wester Services Inc. PILED BY: (PRINTS) SDG&E PS-1 L. Eckhardt

PROJECT/SITE SDG&E San Onofre to	Mission DATE(s) December 1978			
CAMERA_ Vivitar	_SPECIAL LENS/FILTER N/A			
FILM Kodacolor II	_Circle one: Slide B&W Color print			
PHOTOGRAPHER(s):	PRAME NO.(s)			
1) Lesley Eckhardt	19 thru 30			
2) Sandra Day	31 thru 38			
	Burn Carrier and the state of t			

COMMENTS:

FRAME	SUBJECT/FEATURE	LOCUS/UNIT	DIRECTION
19	Proposed Conductor stringing Operation	n Site(Mission)	N
20	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	"	N
21		"	N
22	Site Overview	W-1528	NW
23		ar in the	S
24	n n	11	W
25	Existing right-of-way	W-1528	N
26	Proposed Conductor stringing operation	n site	S
27		"	S
28	n n n		N ·
29	n n	"	N
30		"	N
31	Isolate artifact near Palomar Airport	Road	down
32	Overview w/isolate artifact		NM
33	Maintenance within Existing right-of-	way	E
34	Site Overview towards W-119	W-120	W
35	Artifacts and Shell in flower field	W-119	down
36	Site Overview	W-119	SE
37	11 11	W-121	NW
38	" "	W-121	W

(Space for additional information on reverse side)

STORAGE INFO: (NEGATIVE) Wester Services. Inc. PILED BY:

(PRINTS) SDG&E PS-2 L. Eckhardt

PROJECT	SITE SDG&E San Onofre	to Mission DATE(s) Dece	mber 1978	
CAMERA_	Vivitar	SPECIAL LENS/FILT	ER_ N/A		
FILM_	Kodacolor II	Circle one: 3lide	B&W	Color print	
PHOTOGRAPHER(s):		FRAME NO.(s)			
1) Sandra Day		39 thru 53			
2)		423 15 25 15 25 15 25 15 25 15 25			

COMMENTS:

FRAME	SUBJECT/FEATURE	LOCUS/UNIT	DIRECTION
39	Site Overview	W-1955	W
40	Shell Midden	W-1955	down
41	Shell Isolates		N
42	Artifact isolate (metate)		W
43	Overview with artifact isolate		SSE
44	Artifact isolate (flake)	with metate	down
45	Bedrock grinding (2 slicks)	W-1956	SE
46	Bedrock grinding	Escondido Creek	SW
47	Overview Artifact Isolate (flake)		NW
1;8	Escondido Creek		Е
49	Site Overview	W-1957	S
50	Site Overview	W-185	N
51	Artifacts	W-185	down
52	Artifacts	W-185	down
53	Artifacts	W-185	down

(Space for additional information on reverse side)

STORAGE INFO: (NEGATIVE) Wester Services, Inc. PILED BY:

(PRINTS) SDG&E PS-3 L. Eckhardt

CAMERA_	Vivitar SPECIAL	LENS/FILTER_ N/A		
FILM	Kodacolor II Circle	_Circle one: Slide B&W		
PHOTOGRA	APHER(s): FRAME NO	FRAME NO.(s) 54 thru 66		
l) Les	ley Eckhardt 54 t			
2)				
COMMENTS	31			
FRAME	SUBJECT/FEATURE	LOCUS/UNIT	DIRECTION	
54	Conductor stringing operation site	Camp Pendleton	NW	
55	n n n		W	
56	n n		S	
57	" "		NW	
58			S	
59	Site Overview	W-1778	N	
60	Conductor stringing operation site		S	
61	Pulling in progress		N	
62			W	
63	0 0		W	
64	ii ii		W	
65	Conductor stringing operation site		N	
66	Conductor stringing operation site		NW	
			-	
			1	

STORAGE INFO: (NEGATIVE) Wester Services, Inc. PILED BY:

(PRINTS) SDG&E PS-4 L. Eckhardt

(Space for additional information on reverse side)

CAMERA_	35mm Argus	SPECIAL LENS/FILTER N/A	
FILM	Kodacolor II	Circle one: Slide B&W	Color print
PHOTOGRA	APHER(s):	FRAME NO.(s)	
1) R.	L. Franklin	67 thru 80	
2)			
	31		
	SUBJECT/FEATURE	LOCUS/UNIT	DIRECTION
67	San Onofre Power Station fro	m foothills (Nuclear)	W
68	Drainage Canyon East of I-5	near Power Plant	Е
69	Coastal Plain-Oceanside, Bea	SSW	
70		,,	SSW
71	Santa Margarita Mtn. range o	NNE	
72	0 0 0	. "	NNE
73	Semi-Panorama Coastal Plain/		S
74	n _ n	distance. Taken " from Las Flores	SE
75	n n n	Hill.	SW
76	Riparian Area in Las Pulgas	Canyon	WSW
77	Marine Artillary Smoke from	north bank bluff of River	SE
78	Santa Margarita River (0'sio		WSW
79	Across Santa Marg. River/Pov	wer poles S.M. River	N
80	San Luis Rey River and Missi		
	dredged area within drains housing sprawl		
			e. All and the

STORAGE INFO: (NEGATIVE) Wester Services, Inc. FILED BY:

(PRINTS) SDG&E PS-5

L. Eckhardt

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