1 4.5 Cultural Resources

2

This section describes the environmental and regulatory setting and discusses impacts associated
with the construction and operation of the Santa Barbara County Reliability Project (proposed
project) with respect to cultural resources. For the purpose of analysis in this section, the term,
"cultural resources" encompasses historical resources; archeological resources (which may be
historic or prehistoric, and are a subset of historical resources); Native American resources; and
paleontological resources. The applicant's Cultural Resources Technical Report and supplemental
survey information are included in Appendix I.

- 11
- 12

13 Historical Resources

14 Historical resources, as defined by the California Environmental Quality Act (CEQA), are resources

Below are definitions of key cultural and paleontological resources terms used in this section:

- 15 that are listed in, or are determined to be eligible for listing in, the California Register of Historical
- 16 Resources (CRHR) or a local register, or that are otherwise determined to be historical pursuant to
- 17 the CEQA Statute or Guidelines (Public Resources Code [PRC] Section 21084.1 or California Code of
- 18 Regulations [CCR] Section 15064.5). A historical resource may be any object, building, structure,
- site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in terms of California's architectural, engineering, scientific, economic, agricultural,
- or significant in terms of California's architectural, engineering, scientific, economic, agricultural,
- educational, social, political, military, or cultural records. Typically, historical resources are more
 than 50 years old.
- 22

24 Archaeological Resources

- 25 As stated above, archaeological resources are a subset of the historical resources category.
- Archaeological sites may be considered historical resources. If not, archaeological resources may be
- determined to be "unique" as defined by the CEQA Statute (Section 21083.2). A unique
- 28 archaeological resource is an artifact, object, or site that: (1) contains information (for which there
- is a demonstrable public interest) needed to answer important scientific research questions; (2) has
- 30 a special and particular quality, such as being the oldest of its type or the best available example of
- 31 its type; or (3) is directly associated with a scientifically recognized important prehistoric or
- historic event or person. Non-unique archaeological resources are not typically addressed in
 Environmental Impact Reports (EIPc)
- 33 Environmental Impact Reports (EIRs).
- 34

35 Native American Resources

- 36 Native American resources are cultural resources such as archaeological resources, rock art, and
- 37 the prominent topographical areas, features, habitats, plants, animals, or minerals that
- 38 contemporary Native Americans value and consider essential for the preservation of their
- 39 traditions. Traditional culture often prohibits Native Americans from sharing the locations of these
- 40 cultural resources with the public.
- 41

42 Paleontological Resources

- 43 For the purpose of this EIR, "paleontological resources" refers to the fossilized plant and animal
- 44 remains of prehistoric species. They are valued for the information they yield about the history of
- 45 the earth and its past ecological settings. Paleontological resources represent a limited, non-
- 46 renewable, impact-sensitive, scientific, and educational resource. Fossil remains such as bones,

teeth, shells, and leaves are found in geologic deposits (i.e., rock formations). Paleontological
 resources generally include the geologic formations and localities in which the fossils are collected.

4.5.1 Environmental Setting

4.5.1.1 Historic, Archaeological, and Native America Resources

8 Prehistoric, Ethnohistoric, and Historic Background

9 Information presented in this section was gathered from a review of the cultural resources

10 technical reports that have been prepared for the proposed project (Switalski and Bardsley 2012a,

11 2012b; Schmidt 2013<u>; Leftwich et al. 2014</u>); Proponent's Environmental Assessment (PEA)

12 documents (SCE 2012); Department of Parks and Recreation site and isolate forms; Native

American consultations; and a Paleontological Resources Assessment (SDG&E 2010c) (Conkling
 2012).

15

3 4

5 6

7

16 **Prehistoric**

17 Prehistoric archaeology covers the period of time before written record; in the Santa Barbara

18 County and Ventura County regions, this is the time before European exploration and colonization.

19 The prehistoric period is generally divided into four periods: Paleoindian, Early, Middle, and Late.

20 The Paleoindian period begins with the arrival of humans in the area. The Santa Barbara area,

21 particularly the Channel Islands, figures prominently in current research on the timing and nature

22 of human movement into the area, as evidenced by Early assemblages, many with stemmed points

and crescentics (flaked crescent-shaped artifacts) dating perhaps as early as 13,000 years B.P.

24 (Erlandson and Braje 2011). Materials found on Channel Island and early mainland sites establish a

25 firm marine orientation for these early people. Sparse evidence of visits by the Clovis people to the

coast is found in the form of a few distinctive fluted points. Clovis artifacts were long thought by

27 archaeologists to be the oldest material in North America, but it is now known that the coastal

- 28 adaptations predate Clovis.
- 29

30 The Early period, dating from about 8,000 before present (BP) to about 3,350 BP, represents

31 adaptation to the coast during the warmer and drier conditions that followed the Pleistocene.

32 Milling stones, a type of food processing equipment, are a large part of this adaptation, and the

33 collection of marine shellfish was important as well. Some pithouses are found from Early period

- sites, and mortars and pestles for pulverizing seeds are found late in the Early period (Neusius and
 Gross 2013:206).
- 36

37 During the Middle period an emphasis on hunting of terrestrial mammals and a continued use of

38 shellfish developed. Fishing, which is documented in the earliest sites in the Channel Islands,

39 became more important. Trade in commodities such as shell beads, steatite (soapstone), and

40 obsidian or volcanic glass, became important (Neusius and Gross 2013:208).

41

42 In the Late period there is evidence of population growth, development of social inequality, and

43 complex organization. Although there are suggestions that they date to earlier times, there is good

evidence of the use of plank canoes during the Late period. Subsistence along the Pacific Coast

45 included a heavy emphasis on marine resources, including both fish and marine mammals (Neusius

and Gross 2013:208–211). The complexity noted among the ethnographic Chumash is well

47 established in the Late period.

1 Ethnohistoric

- 2 The Ethnohistoric period is the time for which historical accounts from explorers, missionaries,
- 3 soldiers, and settlers are available for the Native American populations. The proposed project
- 4 would cross lands associated with both the Ventureño and Barbareño Chumash groups. The
- 5 Chumash people lived in the Santa Barbara and Ventura areas when the explorers and missionaries
- 6 first came to California. These groups draw their names from the Spanish missions established in
- 7 their areas, San Buenaventura (1782) and Santa Barbara (1786) (Grant 1978a:Fig. 1, Grant
- 8 1978b:505). The Chumash were complex hunter-gatherers with evidence of hereditary leadership,
- 9 ownership of resources, social inequality (a class structure), and large semi-sedentary to sedentary
- 10 villages. The larger Chumash territory included the four northern Channel Islands, and trade with
- 11 the islands using the plank canoe was important (Neusius and Gross 2013:210–211).
- 12
- 13 The Chumash were a focus of Spanish missionization activities, with many individuals becoming
- 14 assimilated into the mission culture. As a result, many Native Americans were overlooked when
- 15 reservations were being established and are not federally recognized. The Santa Ynez Reservation
- 16 in Santa Barbara County is home to the federally recognized Santa Ynez Band of Chumash, and
- 17 Chumash descendants are enrolled with the federally recognized Tejon Indian Tribe of California.
- 18 There are a number of Chumash groups still seeking federal recognition. Consultation with
- 19 descendants is discussed in Section 4.5.1.4.
- 20

21 Historic

- 22 Technically, the Historic era begins with the exploration of California, starting in 1542 with João
- 23 Rodrigues Cabrilho (more commonly known as Juan Rodriguez Cabrillo) (Neusius and Gross
- 24 2013:218), although sustained contact did not occur until the establishment of the Spanish Mission
- 25 system in 1769. The Chumash were brought into the mission system, where they were taught
- 26 Christianity and became part of the economic system of the missions. They were responsible for
- 27 constructing the buildings of the missions, raising the crops and tending the herds, and
- 28 participating in trades. The Spanish also built military forts or presidios, the closest of which to the
- 29 proposed project area is the Santa Barbara Presidio.
- 30
- 31 In 1821, Mexico won its independence from Spain. The missions continued to function for a time,
- 32 but eventually their land was stripped away and the system ceased to function. Under Mexican rule,
- large tracts of land were granted to individuals as ranchos. Cattle raising, which had begun in
- 34 mission times, became the economic engine of the area. Hides and tallow were exported in large
- 35 quantities.
- 36
- 37 Following the Mexican-American War (1846–1848), California came under American rule,
- 38 becoming a state in 1850. The area developed as rural, agricultural land. Oil extraction was another
- 39 important economic activity. The towns that grew up around Mission Buenaventura and the Santa
- 40 Barbara Mission and Presidio continued grow and are now the regional population centers. The
- 41 area traversed by the proposed project continues to be rural.
- 42

43 Historic, Archaeological, and Native America Literature and Records Search

- 44 Cultural resource surveys for the proposed project included record searches conducted at the South
- 45 Central Coastal Information Center, located at California State University, Fullerton on February 27,
- 46 2012, and at the Central Coast Information Center, located at the University of California. Santa
- 47 Barbara on March 1, 2012 (Switalski and Bardsley 2012a, 2012b). The purpose of the records
- 48 search was to determine the extent of previous investigations within 0.5 miles of the

- 1 subtransmission corridor and to determine whether previously documented prehistoric or historic
- 2 archaeological sites, isolated findings, architectural resources, cultural landscapes, or ethnic
- 3 resources exist within the project area. The reviewed documentation included survey and
- 4 evaluation reports, archaeological site records, historic maps, the California Points of Historical
- 5 Interest, the California Historical Landmarks, the CRHR, the National Register of Historic Places
- 6 (NRHP), and the California State Historic Resources Inventory listings.7
- 8 The results of the records search indicated that <u>13-30</u> cultural resource studies have been
- 9 previously conducted within portions of the project area or within 200 feet of the project area
- 10 (Table 4.5-1), including one study conducted for the proposed project that occurred directly within
- 11 | the alignment of Segments 3A, 3B, and 4 (Schmidt 2006). An additional Over 145 additional 54
- 12 studies have been conducted within 0.5 <u>1</u> miles of the project area.
- 13

Table 4.5-1 Cultural Resources Studies Previousl	y Conducted within	200 feet of the
Due is at Ave a		

Sogmont	Author	Voor	Poport Number
Jeginein	Long	1077	
1	Lopez	1977	<u>VIN-00040</u>
	Lopez	<u>1979</u>	<u>VN-01932</u>
1	Clewlow	<u>1978</u>	<u>VN-00127</u>
1	Chambers Group	1982	VN-00421
<u>1</u>	Wilcoxon	<u>1984</u>	<u>VN-00444</u>
<u>1</u>	Brown	<u>1987</u>	<u>VN-00515</u>
1	Foster et al.	1989	VN-00731
1	NCPA	1989	VN-00773
1	Singer	1986	VN-00494
1, 2	Fleagle	1998	VN-01675
<u>2</u>	King et al.	<u>1989</u>	<u>VN-01135</u>
2	Dillon	<u>1998</u>	<u>VN-01334</u>
2	Maki	2009	<u>VN-02785</u>
2	Bonner	2010	<u>VN-02953</u>
3A	Santoro and Toren	1992	SR-1288
3A	Schmidt	2005	-
3A	Wilcoxon	1976	SR-0850
<u>3A</u>	<u>Kiaha</u>	<u>2006</u>	<u>SR-03621</u>
3A, 3B	Waldron	1986	SR-1154
3A, 4	Maki	2000	SR-2573
3B, 4	Wlodarski	2008	VN-02791
4	Maki	2002	SR-2848
4	Giambastiani	2003	<u>SR-2986</u>
4	Schmidt	2006	-
4	<u>Corbett</u>	2008	<u>SR-5008</u>
4	Corbett	2008	SR-5009
4	Delu	2010	VN-02790
4	Williams	2010	VN-02792
	Ivie	1976	VN-00076

15

16 Five-<u>Ten</u> previously documented cultural resources are believed to be present within the survey

17 area.: CA-VEN-979, 56-100200, CA-VEN-1109H, CA-SBA-107, and CA-SBA-3814. These resources

18 are described in Section 4.5.1.3, Survey. In addition, 33 previously documented cultural resources

19 have been identified within 0.5 miles of the project area.

2 Historic, Archaeological, and Native America Surveys

3 **Three** Four Historic, Archaeological, and Native America Resources surveys were conducted for the proposed project. The methods for these surveys are summarized below.

5

1

6 Methods

- 7 The first Historic, Archaeological, and Native America Resources survey was a pedestrian survey of
- 8 most of the project area and was conducted between March 12 and April 5, 2012 (the Main Survey).
- 9 Due to the mountainous terrain, dense vegetation, and limited access throughout much of the
- 10 project area, a survey of the entire alignment was not possible. Each tower surveyed was
- 11 approached by foot from the nearest point of access, generally SCE access roads, ranch roads, or
- 12 private access roads. Due to the varying degree of slope, terrain, access constraints, and variety of
- 13 existing roads (paved, dirt, gravel), survey crews employed different methods for surveying
- 14 different road segments, as described in <u>Table 4.5-3</u> <u>Table 4.5-2</u>.
- 15 16

Table 4.5-2_Survey Methodology Used for Access Roads within the Project Area

Survey		Potential		
Category	Description	Impact	Survey Methodology	Length
I	Existing paved or gravel roads. Roads located on steep (>30°) slope, and existing private roadways, such as driveways near private residences.	No or very little impact	As determined using the surveyors' professional judgment, spot checks were conducted at locations along routes and areas that could potentially yield archaeological resources, or areas where resources were previously identified/recorded. Very limited survey coverage.	10.8 miles (130 acres)
II	Ranch/orchard roads within citrus/avocado orchards or ranches. Moderately disturbed.	Moderate impact within an already disturbed context	As determined using the surveyors' professional judgment, more frequent spot checks (20- to 25-meter transects) along routes that could yield resources associated with ranching/ farming or previously identified/recorded resources. Moderate survey coverage.	36.7 miles (437 acres)
III	Roads proposed for construction, roads near existing waterways, and roads that appear to intersect areas with no or very little previous disturbance.	Potentially high impact to areas with little or no previous disturbance	Complete 100% pedestrian survey with 10- to 15-meter transects.	23.9 miles (285 acres)

1 Each accessible structure location, 60.6 linear miles of access roads, and approximately 9 miles of 2 the subtransmission corridor were inventoried for cultural resources. The Main Survey included a 3 100-foot-wide buffer on either side of the centerline of the subtransmission line corridor; a 100-4 foot radius around each structure; and a 33-foot buffer on either side of the proposed and existing 5 access roads. Survey crews conducted a limited inventory of an additional 10.8 miles of access 6 roads that were either paved or located on very steep slopes (Survey Category I). Twenty-one 7 structure locations, 9.1 miles of access roads, and approximately 24 miles of the subtransmission 8 corridor were not inventoried due to inaccessible terrain, washed out access roads, or access 9 restrictions from private landowners. Three new resources were identified during this survey and 10 are listed in Table 4.5-4 Table 4.5-3 and discussed further below. 11 12 The second survey included portions of the project area located within the Los Padres National 13 Forest that could not be surveyed until a permit was obtained and was conducted on July 23, 2012 14 (Switalski and Bardsley 2012b). It included the three pole locations within the forest, along with a 15 100-foot radius around each of the three poles, to the extent possible, given slope and vegetation considerations. The spans between poles and many of the proposed access roads were judged by 16 17 the surveyors to be too steep or too thickly vegetated to access. Of the 14.4 acres of the project area 18 located in Los Padres National Forest, 2.7 acres were surveyed, and the remaining 11.7 acres were 19 not, due to slope and vegetation issues. No new resources were identified during this survey. 20 21 The third survey was conducted on March 18 and 19, 2013; however, the project design has since 22 been modified, and the area surveyed has been eliminated from the project site. Therefore, the 23 results on this survey effort are not discussed further. 24 25 In 2014, the fourth survey was conducted by Garcia and Associates (GANDA) and included 505 acres of the proposed project area broken down into 94 discrete survey areas. New records 26 searches were conducted for this survey at CCIC and SCCIC. The survey was conducted using 15-27 28 meter transects where possible, but steep slopes and dense vegetation hampered the use of such 29 transects for most of the survey area. Due to slopes and vegetation, fewer than half of the 94 survey 30 areas could be completely surveyed. One new site was recorded during this survey. 31 32 During the Main Survey and the 2014 survey, an attempt was made to find each of the five-ten 33 previously documented cultural resources sites that were identified as being on or near the survey

35 36

34

Table 4.5- <u>3</u> Cu	ultural Resource S	ites Recorde	d <u>During Proje</u>	<u>ct Surveys <mark>at Tower Site</mark>r</u>	s or on Access Roads

area. Table 4.5-3 4.5-4 lists the new resources and those originally recorded within the project area

covered by the Main Survey and the 2014 survey.

	Trinomial/				
Segment	Temporary	Primary	Component	Description	Comments
1	CA-VEN-979	56-000979	Prehistoric	Lithic Deposit	Site is currently destroyed
1	N/A	56-100200	Prehistoric	Pestle (Isolate)	Isolate was not relocated
1	CA-VEN-58		Prehistoric	Large habitation site with burials	Appears to be eligible for the CRHR. No project components would be sited within the area; however, Segment 1 would span within less than

	Trinomial/				
Segment	Temporary	Primary	Component	Description	Comments
					a half mile of the site.
1	<u>CA-VEN-22</u>	<u>56-000022</u>	<u>Prehistoric</u>	Scattered shell	Probably fossil rather
				<u>fragments</u>	<u>than cultural</u>
1	<u>CA-VEN-23</u>	<u>56-000023</u>	<u>Prehistoric</u>	Scattered shell	Probably fossil rather
				<u>fragments</u>	<u>than cultural</u>
1	<u>CA-VEN- 1003</u>	<u>56-001003</u>	<u>Prehistoric</u>	Five pieces of debitage	<u>Not relocated during</u> <u>the survey</u>
2	CA-VEN- 1109H	56-001109	Historic	Railroad	Resource has been destroyed
<u>Between 3B</u> and 4	CA-SBA-2	42-000002	<u>Prehistoric</u>	Large village site	Probably destroyed
North of 2	GANDA-1 ¹	<u>N/A</u>	<u>Prehistoric</u>	Habitation with two loci	Condition and
and 3B					<u>integrity</u>
					<u>undetermined</u> —
					impacts from
					<u>earthmoving</u>
4	SBCRP-1 ¹	N/A	Historic	Culvert	Ineligible for CRHR
4	SBCRP-2 ¹	N/A	Historic	Retaining Wall	Ineligible for CRHR
4	SBCRP-3 ¹	N/A	Historic	Santa Clara-Ojai-Santa	Requires formal
				Barbara 66 kV	evaluation for
				Subtransmission Line	eligibilityIneligible for
				structures	CRHR
4	CA-SBA-107	42-000107	Prehistoric	Rock Shelters	Determined to be
					located outside of
					project area
4	CA-SBA-3814	42-003814	Prehistoric	Lithic Scatter	Determined to be
					located outside of
					project area
<u>4</u>	<u>CA-SBA-3587</u>	<u>42-003587</u>	<u>Prehistoric</u>	<u>Habitation</u>	Site consists of a core
					area and an northern
					extension with less
					<u>cultural material</u>

Table 4.5-3 Cultural Resource Sites Recorded During Project Surveys at Tower Sites or on Access Roads

Note:

¹ Newly Recorded Resource

1 2

66-kV Subtransmission Lines

3 Segment 1

Survey crews inventoried the area around each tower location in Segment 1. The topography along
the alignment was dominated by steep hillsides intersected by ravines and gullies, and each

6 structure was generally situated in an area that was mechanically disturbed and leveled with

The additional access road survey on the Bonsall property is also part of Segment 1.

7 | vegetation cleared for maintenance access.

9 10

1 **CA-VEN-979.** Site CA-VEN-979 was originally documented as a small lithic scatter¹ with two 2 unidentified bone fragments located on top of a ridge approximately 66 feet (20 meters) from a 3 subtransmission structure location. The current survey did not identify any artifacts that were 4 reported on the original site record, despite the fact that the survey crews were able to match 5 existing features in the vicinity of the mapped location (such as fence lines, gates, and transmission 6 towers) with features depicted on the original site map. Several dirt roads were observed within 7 and adjacent to the site, and the original recorders noted heavy impacts by road maintenance, cattle 8 trails, and barbed wire (Schmidt and Wishner 1988). Given the site's location and the presence of at 9 least four dirt roads in the area, it appears that the site may have been altered due to grading 10 and/or ranching activities. As the resource appears to be destroyed, it is not eligible for listing in the 11 CRHR. 12 13 **P-56-100200.** Site P-56-100200 was originally recorded as an isolated pestle. The isolate was not relocated during the survey, and no other cultural material was identified within the vicinity of its 14 15 plotted location. Isolates are not considered significant under CEQA because their context and integrity are limited and because their research potential is exhausted through detailed recording. 16 17 Therefore, isolates (including P-56-100200) are not considered further in this CEQA review and are 18 not included in the impact analysis. 19 20 **CA-VEN-58.** Recorded first in 1949, this site was subjected to professional excavation in the early 21 1960s (Greenwood and Browne 1963). The excavations demonstrated that the site yielded a diversity of materials and contained at least four human burials. Although much of the subsurface 22 23 soil at the site had been disturbed by plowing, undisturbed soils were also present. CA-VEN-58 was 24 not formally evaluated for eligibility for the CRHR, but based on the diversity of material recovered and the presence of human remains, it almost certainly is eligible. It is outside the alignment for 25 26 Segment 1 and would not be subjected to impacts from the proposed project. 27 28 SCE-Bonsall#1. This newly discovered site is described as containing "constituents similar to those 29 found at CA-VEN-58" (Schmidt 2013:11). Subsurface depth of deposits was not determined in the 30 field, and it was noted that there was no surface indication of human burials. The site is located outside the alignment of Segment 1 and would not be subjected to impacts from the proposed 31 32 project. 33 34 CA-VEN-22 and CA-VEN-23. Recorded in 1960 as extensive shell scatters, no other cultural 35 material was reported on the original site forms, and it was noted that the shell might be fossilized 36 rather than cultural. Survey of the area where these were recorded for the current project failed to 37 find any material other than shell, and it was noted that the shell was consistent with fossil shell. It 38 was concluded that these two sites are not actually archaeological sites but are paleontological. 39 40 **CA-VEN-1003.** Originally recorded as an artifact scatter consisting of five pieces of debitage, CA-VEN-1003 was not found during the surveys for this project. 41 42

- 43 Segment 2
- 44 Four tower locations were inventoried between Santa Ana Road and Casitas Vista Road, and two
- 45 additional tower locations were examined just west of Casitas Vista Road. Three tower locations
- 46 were also approached from the western end of Segment 2. Each tower examined is located in a

¹ *Lithic scatter* refers to a surface scatter of cultural artifacts and debris that consists entirely of stone items, stone tools, and chipped stone debris.

1 mechanically altered terrain, with leveled ridge tops and vegetation cleared to facilitate easy access.

- 2 Overall, nine tower locations situated directly south of Lake Casitas were not inventoried due to
- difficult terrain and dense vegetation. No new cultural resources were identified within the
- 4 surveyed portion of Segment 2. One previously recorded historic resource (CA-VEN-1109H) was
- 5 identified west of the Casitas Substation. <u>A new site, designated GANDA-1</u>, was found in and
- 6 adjacent to a surveyed area to the north of Segment 2 and Segment 3B.
 7

CA-VEN-1109H. Site CA-VEN-1109H is a historic railroad spur initially constructed by the Ventura
River and Ojai Valley Railroad in 1898 and acquired by Southern Pacific in 1899. This railroad spur
was previously documented approximately 200 feet (60 meters) west of the Casitas Substation, on
the eastern bank of the Ventura River. However, the recent survey revealed that the resource is no
longer in existence and that a narrow bike path (Ventura River/Ojai Valley Trail) has been
constructed within its alignment. No evidence of railroad ties, rails, or any other features associated
with CA-VEN-1109H was observed within the project area.

15

GANDA-1. This newly recorded site is an artifact scatter with two loci. The western locus consists
 of marine shell scatter with groundstone fragments, six quartz flakes, and tools. The eastern locus
 has quartz flakes, quartz tools, and groundstone fragments, along with fire-affected rock and a
 hearth. Shell is lacking on the eastern locus. Brush clearing using earthmoving equipment has

20 disturbed the deposits at the site.21

22 Segment 3A

23 Segment 3A was characterized by mostly commercial land use, with citrus orchards and farms

24 located along Highway 192. This segment was heavily disturbed from previous construction, as

approximately 90 percent of Segment 3A is located adjacent to Highway 192. Approximately 0.7

26 miles of Segment 3A, located between Shepard Mesa Road and Casitas Pass Road (State Route 150,

27 along the border of Ventura and Santa Barbara Counties), traverses private parcels impacted by

residential construction and private orchards. No cultural resources were identified during the
 survey of Segment 3A.

30

31 Segment 3A is located completely within Quaternary alluvium (Conklling 2012:24). Quaternary

32 alluvium is alluvial sediment deposited during the Pleistocene and Holocene. Humans have been

33 present in California since the terminal Pleistocene, and Holocene alluvium was all deposited during

34 the time that humans have been in the area. Quaternary alluvium, then, has the potential to contain

35 buried archaeological remains. Buried sites can be particularly important in advancing knowledge

- 36 of the past.
- 37

38 Segment 3B

39 In the eastern end of Segment 3B, the terrain consists of a relatively flat area with rolling hills and

40 gently sloping ridgelines, currently used for cattle grazing and dominated by open pastures with

41 oak groves located along several intermittent drainages. In the western end of Segment 3B,

42 surveyors encountered steep hills with slopes between 40 and 45 degrees and citrus and avocado

43 orchards, with narrow access roads running between rows of avocado and lemon trees. Overall, 16

44 <u>28 tower locations were inventoried along Segment 3B. The remaining 12 towers and associated</u>

45 access roads have not yet been inventoried. No cultural resources were identified within the

46 surveyed portion of Segment 3B, but one previously recorded site, CA-SBA-2 was mapped in a

47 surveyed area between Segment 3B and Segment 4.

- 1 **CA-SBA-2.** CA-SBA-2 was a large village site, but by the time the site was recorded in the 1920s, the 2 site had been almost totally destroyed by construction of a resort. By the 1960s no trace of the site 3 remained. Survey in the area where CA-SBA-2 was recorded confirmed that no archaeological 4 materials were to be found. 5 6 The six westernmost tubular steel pole locations in Segment 3B are sited in Quaternary alluvium 7 (Conkling 2012:24). As discussed above, Quaternary alluvium has the potential to contain buried archaeological materials. There is a small area of Monterey formation that outcrops near the center 8 9 of Segment 3B (Conklling 2012:25). Some strata of the Monterey formation yield cherts that were 10 sought after as tool stone by the prehistoric peoples of the area, so quarries may be expected in 11 some areas on the Monterey formation. 12 13 Segment 4 14 Survey crews encountered a wide variety of terrain and land uses throughout Segment 4, including 15 residential, commercial, private equestrian facilities, orchards, deep valleys, ridge tops, and densely 16 overgrown ridges and hills. Overall, 62 of 65 structures were inventoried during the survey. Survey 17 crews attempted to locate two previously recorded archaeological resources and identified three 18 new historic resources within Segment 4. An additional previously-recorded site, CA-SBA-3587, 19 was located in a survey area near Segment 4. 20 21 The portion of the project area that passes through the Los Padres National Forest is in Section 4. 22 All three structure locations examined during the survey of the National Forest land and all of the 23 portions of access road surveyed on the forest were found to contain no cultural resources. 24 25 **CA-SBA-107.** Site CA-SBA-107 was originally recorded as several small rock shelters located near 26 the top of an almost vertical stone cliff. The site was documented in 1927 by D.B. Rogers, who noted 27 smoke blackening on the walls of all the shelters (Rogers 1927). Additionally, an asphalt-lined 28 basket was reportedly recovered from one of the rock shelters. Maps on file at the Central Coast 29 Information Center indicate that the site is located along an existing Segment 4 access road; 30 however, the current survey failed to identify any large outcrops within 0.25 miles of its plotted 31 location. Therefore, the site is believed to be plotted incorrectly, and in actuality it is located outside 32 of the project area. 33 **CA-SBA-3814.** Site CA-SBA-3814 was documented as a small lithic scatter with fire-affected rock. 34 35 No cultural material was observed during the current survey. Based on components in the site 36 description (i.e., a gate and a fence), the site appears to be plotted incorrectly, and in actuality it is 37 located outside of the project area at least 0.5 miles away. 38 39 **SBCRP-1**. Site SBCRP-1 is a historic period culvert which appears to have been constructed more 40 than 50 years ago. The culvert is composed of a 4-foot-wide corrugated pipe with a 6-foot-high 41 retaining wall located on each side of a north-south trending access road. The feature measures 42 approximately 8 feet (2.4 meters) wide, with a rock wall on each side of the pipe. The culvert 43 appears to be constructed of numerous "sand bags" joined together with poured cement or 44 concrete, forming a slightly curved retaining wall on each side of the road. No artifacts or other
- 45 features were identified in the vicinity of SBCRP-1. Site SBCRP-1 is located in Santa Barbara County
- 46 along an existing access road of Segment 4. The resource appears to be part of a road improvement
- 47 project, which may have been used to access the subtransmission structures that are part of SBCRP-
- 48 3 located in Segment 4.
- 49

SBCRP-2. Site SBCRP-2 is a retaining wall that appears to have been constructed more than 50

- 2 years ago. It is located in Santa Barbara County, northwest of the north-south trending access road
- and approximately 0.25 miles north/northeast of SBCRP-1. The wall is constructed of shaped
- 4 limestone rocks and measures approximately 6 feet high by 10 feet long (1.8 meters high by 3.0
- 5 meters long). Several large (4-foot, 1.2-meter) corrugated pipes are located on the east side of the
- 6 road, approximately 100 feet (30 meters) from the wall. Similar to SBCRP-1, SBCRP-2 appears to be
- 7 part of the road improvement used to access the subtransmission structures that are part of SBCRP-
- 8 3 located in Segment 4.
- 10 **SBCRP-3**. Site SBCRP-3 consists of the subtransmission structures that currently carry a portion of
- 11 the Santa Clara-Ojai-Santa Barbara 66-kilovolt (kV) Subtransmission Line. This historic
- 12 subtransmission line is located within a 4.1-mile portion of Segment 4 in Santa Barbara County. The
- 13 documented portion of the subtransmission line is composed of 26 lattice steel towers, each
- 14 measuring approximately 30 feet (9.1 meters) high, with a base measuring 3 by 3 feet (0.9 by 0.9
- 15 meters). The line appears to have been constructed in the 1930s and is visible on the Ventura,
- 16 California (1941) 30-minute series topographic quadrangle. The uniform composition of the towers
- 17 suggests that relatively few improvements have taken place along the documented portion of the
- 18 line; however, it is unknown whether these are the original towers constructed in the 1930s or their
- 19 subsequent replacements. A historic resources evaluation was conducted for the entire
- 20 transmission line that includes SBCRP-3 (Becker 2012). The transmission line and the associated
- 21 towers, including SBCRP-3, were found to be ineligible for the CRHR.
- 22
- 23 **CA-SBA-3587.** This site was recorded as a small habitation site (Maki and Carbone 2000). Flakes, cores, tools, ground stone, fire-affected rock, marine shell, and midden soil were all observed at the 24 25 site. Subsurface testing and extensive surface collections were made at the site and reported by Giambastiani in 2003. This investigation defined a central core to the site which yielded finished 26 27 lithic tools, groundstone, hearths, beads, and faunal material. Some of the lithic material appears to 28 have come from beyond the immediate vicinity of the site. Human remains were also reported from 29 the core area of the site. In addition to the core area, an area stretching to the north was defined 30 that contained artifacts but without midden soils. In 2008, some additional testing was completed by archaeologists from the Santa Barbara Museum of Natural History. Radiocarbon dating 31 32 completed by the museum indicates the main occupation was around 5000 B.P. but that there were 33 a number of smaller occupations later in time (Corbett 2008a, 2008b).
- 34

44

35 The eight structure locations closest to the Carpinteria Substation are located in areas of

- 36 Quaternary alluvium. As noted above, this formation has the potential to contain buried
- 37 archaeological material.

3839 *Getty Tap*

- 40 This short segment would connect Segment 1 with the existing Santa Clara- Getty transmission line.
- 41 The terrain consisted of steep hills dissected by ravines and intermittent drainages. The three poles
- 42 that would be replaced along the proposed Getty Tap were surveyed, and all were located in
- 43 disturbed areas adjacent to existing poles. No cultural resources were encountered.

45 *Substations*

- 46 The proposed project involves work at five substations of historic age: Casitas (1924–1929), Santa
- 47 Barbara (1925), Carpinteria (1950), Santa Clara (1958/1973), and Goleta (1963). These substations
- 48 have also been evaluated for eligibility for the CRHR (Becker 2012).

1

Carpinteria Substation. The Carpinteria Substation was built in 1950 in a Modernistic style. The
 substation complex includes a single control house building that is small in scale and rectilinear in
 plan, with a flat roof and no windows. It also includes a multiple equipment area containing
 transformers and switchracks. The substation complex is one of hundreds constructed or put in
 service by SCE in the post-World War II period, and it is not eligible for inclusion on the CRHR or the
 NRHP (Becker 2012:34–35).

8

9 **Casitas Substation.** Originally constructed between 1924 and 1929 at Casitas Springs to provide 10 service to the unincorporated communities of Ventura, California, the Casitas Substation was initially put in service in approximately 1924 with 15-kV and 60-kV transformer racks. The complex 11 12 was expanded through 1929 to include a Craftsman style cottage and garage (1924) for the 13 property caretaker(s), and through the addition of a Classical Revival style substation building 14 (1929). The Casitas Substation Building appears to be eligible for listing on the CRHR under CRHR Criterion 1 (events) and Criterion 3 (architecture) (Becker 2012:26–29). The existing transformer 15 racks and switchracks at the property do not appear to contribute to the eligibility of the Casitas 16

- 17 Substation Building.
- 18Goleta Substation. The Goleta Substation was built in 1963 in a Modernistic style and portions

were modified in 1964, 1966, and 1967. The substation complex includes a control house/switching
 station/office, a shop/garage structure, and a large bank of transformers and associated electrical

- equipment. The substation complex is one of hundreds constructed or put in service by SCE in the
- post-World War II period, and it is not eligible for inclusion on the CRHR or the NRHP (Becker
 2012:38–39).
- 25

26 Santa Barbara Substation. Originally constructed in 1925, the SCE Santa Barbara Substation was 27 designed and constructed as a substation complex featuring a Classical Revival style substation 28 building that may have also featured a caretaker's cottage. Today, the property includes the 1925 29 substation building, a circa 1920s garage built in the Craftsman style, and a utilitarian shop/garage/ 30 control room structure that appears to date to the 1960s or 1970s. The Santa Barbara Substation Building appears to be individually eligible for listing to the CRHR under Criterion 3 (architecture). 31 32 The existing auto garage, and shop/garage/control room, as well as transformer racks and 33 switchracks at the property, do not appear to contribute to the individual eligibility of the Santa 34 Barbara Substation Building (Becker 2012:29–34).

35

Santa Clara Substation. The Santa Clara Substation was built in 1958 in a Modernistic style and
was modified in 1973. The substation complex includes a control house/switching station, a
shop/crew office, a fire equipment storage structure, and several banks of transformers and
associated electrical equipment. The substation complex is one of hundreds constructed or put in
service by SCE in the post-World War II period, and it is not eligible for inclusion on the CRHR or the
NRHP (Becker 2012:36–38).

42

43 **Telecommunications**

44 Telecommunications lines are to be strung on the 66-kV transmission structures, and only the

45 portions of the lines entering the Santa Clara, Casitas, and Carpinteria substations would be

- 46 underground. No cultural resources were found adjacent to these substations during the survey of
- 47 the segments, and the stringing of line on existing subtransmission structures would not impact any
- 48 cultural resources.
- 49

1 **De-energizing Structures**

Portions of the existing lines in all of the segments will be de-energized and left in place. This action
should not result in any ground disturbance and, therefore, should have no impacts on cultural
resources.

- 6 **4.5.1.2 Native American Consultation**
- 7

5

8 In early 2012, SCE requested that the Native American Heritage Commission (NAHC) conduct a 9 search of the Sacred Lands File to identify cultural resources or areas of concern to Native 10 Americans within the vicinity of the project area. The NAHC's search did not indicate the presence 11 of any known cultural resources, and it provided a list of 21 Native American individuals and 12 organizations that may have knowledge of cultural resources in the project area. SCE sent letters to 13 all recommended contacts on February 27, 2012. Two individuals, Mr. Freddy Romero of the Santa 14 Ynez Band of Mission Indians, and Ms. Beverly Salazar-Folkes (Chumash, Tataviam, Fernandeño) 15 responded as of February 27, 2012. Mr. Romero requested a copy of the cultural resources technical 16 reports prepared for the proposed project prior to the circulation of the project's California Public 17 Utilities Commission's (CPUC's) CEQA document. Ms. Salazar-Folkes requested that a monitor be 18 present during ground-disturbing activities. SCE attempted follow-up phone calls to the remaining 19 individuals between April 11 and April 16, 2012. As a result of this attempt, Suzy Ruiz-Parra 20 (Chumash) requested that an archaeological monitor be present if earth-disturbing activities occurred near archaeological sites, and both Randy Guzman-Folkes (Chumash, Tataviam, 21 22 Fernandeño, Shoshone Paiute, Yaqui) and Melissa Parra-Hernandez (Chumash) requested that the 23 project information be resent to them. This information was resent in early 2012 (SCE 2012). 24

- In January 2013, Mr. Romero contacted SCE to request another copy of the cultural resources
 report. Copies of all reports pertinent to the project were sent on behalf of the CPUC from Ecology
 and Environment, Inc.'s archaeologist in February of 2013. Upon reviewing the reports, Mr. Romero
 stated that he had no concerns relating to the project at that time, but provided information on a
 number of people in Ventura County who may have additional comments pertaining to that portion
 of the project. Mr. Romero provided contact information for these individuals, and Ecology and
 Environment, Inc.'s archaeologist contacted them by email and phone on behalf of the CPUC.
- Responses were received from Mr. Pat Tumamait (Chumash), Ms. Julie Tumamait (Chumash), and
- 33 Mr. Alan Salazar (Chumash). Ms. Tumamait stated that she will review the CPUC document when it
- 34 is published, and she identified a sensitive area within the project area.
- 35
- On May 6, 2013, the CPUC met with two members of the Chumash community who requested to
 meet regarding the project. Mr. Pat Tumamait and Mr. Michael Cordero discussed how the project
 site relates to Chumash legend and the areas of sensitivity along the project corridor.
- 39 40

40 **4.5.1.3** Paleontological Resources 41

42 Paleontology Record Search

43 A locality search was conducted through the online database of the University of California Museum

- 44 of Paleontology, located on the campus of the University of California, Berkeley. This locality search
- 45 included a review of the area geology and any known paleontological resources recovered from the
- surrounding area, as well as the geologic units that will likely be encountered during excavation
- 47 activities associated with the proposed project.

According to the locality and archival research all of the mapped formations have produced fossils

and have a low to high paleontological sensitivity (<u>Table 4.5-4</u> Table 4.5-2).

				Paleontological
				Resource
Segment	Geologic Unit	Age	Typical Fossil Types	Potential
3A, 3B, 4	Quaternary Alluvium	Quaternary	Vertebrates;	Low to High
			Invertebrates	(Increases with Depth)
1	Las Posas Formation	Pleistocene	Marine Invertebrates,	High
			Rare Vertebrates	
1	Santa Barbara Formation	Pliocene	Marine Invertebrates	High
1	Pico Formation	Pliocene	Marine Invertebrates	High
1	Sisquoc Formation	Pliocene	Marine Invertebrates	High
1	Monterey Formation	Pliocene	Marine Invertebrates	High
1, 2, 3B, 4	Monterey Formation	Miocene	Terrestrial Vertebrates	High
1, 2, 3B, 4	Rincon Formation	Miocene	Terrestrial Vertebrates	High
2, 3B, 4	Vaqueros Formation	Eocene-	Terrestrial Vertebrates	High
		Oligocene		_
2, 3B, 4	Sespe Formation	Eocene-	Terrestrial Vertebrates	High
		Oligocene		
4	Coldwater Sandstone	Eocene	Marine Invertebrates, Rare Vertebrates	High

Table 4.5-4 Geologic Units and Paleontological Sensitivity within the Project Area

4

1 2

3

5 Geologic mapping indicates that the project area contains exposures of the Coldwater sandstone,

6 Sespe formation, Rincon formation, Monterey formation, Sisquoc formation, Pico formation, Santa

Barbara formation, Las Posas formation, Quaternary alluvium, and Quaternary landslides from the
 Holocene (Conkling 2012).

9

Quaternary Alluvium. Holocene and Upper Pleistocene alluvium and colluvium are present within the Coastal Plain areas of Carpinteria. These poorly consolidated silt, sand, and gravel deposits were deposited along modern drainages and piedmont alluvial fans and floodplains. Because this unit spans both the Holocene and Pleistocene Epochs, the paleontological sensitivity of the unit increases from low to high with increases in depth. Where Quaternary alluvium was deposited during the Holocene (from 10,000 years ago to the present), there is no sensitivity for fossils

because fossils, by definition, are more than 10,000 years old. By contrast, fossils from Pleistocene
 alluvial sediments are well represented throughout the Transverse Ranges.

17

19 Las Posas Formation. The Las Posas Formation is Pleistocene in age (approximately 250,000 years 20 old). It is composed of weakly consolidated sandstones with some gravelly sand units, and is highly 21 susceptible to landslides. This formation contains shallow water invertebrate fauna, and a ray tooth

has been found in these sediments (Conkling 2012:24). The paleontological sensitivity of the unit is

23 high.

24

25 **Santa Barbara Formation.** The Santa Barbara Formation is an Early to Middle Pleistocene (2.5

26 million to 750,000 years old) marine formation primarily composed of poorly consolidated

27 claystone and shale with some areas of sandstone. This formation contains diverse marine

28 invertebrate assemblages, although none of these have been found in the vicinity of the project area.

29 The nearest recorded locality is approximately 4 miles west-southwest of the project area. The

30 paleontological sensitivity of the unit is high.

1

Pico Formation. The Pliocene to Pleistocene (approximately 3.5 to 1.0 million years old) Pico
 Formation was deposited in a marine environment, and is composed of both coarse-grained sand
 and conglomerate units, with more silt and clay dominated units in some areas. This formation
 contains sporadic fossil deposits consisting primarily of invertebrates such as gastropods, bivalves,

6 arthropods, and foraminifera. The paleontological sensitivity of the unit is high.

7

8 **Sisquoc Formation.** The Sisquoc Formation is of Upper Miocene and Lower Pliocene age

9 (approximately 6 to 4 million years old). The formation consists of claystone, mudstone, siltstone,

- 10 shale, diatomite, and conglomerates, with considerable regional variation, and was deposited in a
- 11 moderately deep marine environment. Fossils have been found in this formation, primarily in the

12 area of Lompoc approximately 50 miles to the northwest of the Project. In addition to the abundant

diatoms that make up the diatomite, fossils of vertebrates such as sea lions and walruses, bony and

- 14 cartilaginous fishes, and birds have been found in the Sisquoc Formation. All known fossil localities
- have been in areas along the coast where the Sisquoc Formation is exposed due to erosion. The
- 16 paleontological sensitivity of the unit is high.
- 17

18 **Monterey Formation.** The Monterey Formation is an extensive Miocene (16 to 6 million years old)

19 oil-rich sedimentary deposit. Fossils of marine vertebrates (whales, seals, sea lions, dolphins,

20 porpoises), fish, and birds are relatively common from the formation; however, no localities have

21 been identified within 10 miles of the project area. The paleontological sensitivity of the unit is high.

22

Rincon Formation. The Rincon Formation is Lower Miocene in age (24 to 17.5 million years old)
 and is exposed along the coastal portions of southern Santa Barbara County eastward into Ventura
 County. Consisting of massive to poorly bedded shale, mudstone, and siltstone, it weathers readily
 to a rounded hilly topography with clayey, loamy soils. The paleontological sensitivity of the unit is

- 27 high.
- 28

29 Shales of the Rincon Formation were deposited on the deep sea floor during the time at which the

30 Miocene sea reached its greatest depth. Microfossils are common in the Rincon Formation, and have

been helpful in dating the unit. The faunal assemblage indicates that the sea was tropical to

32 subtropical at this time. Formaniferal remains in particular are abundant. Both vertebrate and

- 33 invertebrate fossils have been recovered. These collecting localities are approximately 5 miles south
- 34 of Segment 3B. The paleontological sensitivity of the unit is high.
- 35

36 **Vaqueros Formation**. The Vaqueros Formation was initially deposited during the Upper Oligocene

37 (28 to 24 million years old). Sediments characteristic of this formation include structureless very

38 fine to medium grained sandstone with some large cross-bedding and parallel lamination in some

39 areas. Fossils present in the formation include invertebrates and terrestrial vertebrate specimens.

- 40 The paleontological sensitivity of the unit is high.
- 41

42 **Sespe Formation**. The Sespe Formation is an Oligocene and Upper Eocene (40 to 24 million years

43 old), nonmarine, fluvial, maroon, reddish-brown, and greenish- to pinkish-gray sandstone,

44 mudstone, and conglomerate. In the Project Area, the formation is divided into three informal 45 subunits: upper sandstone and mudstone unit, middle conglomerate and sandstone unit, and the

- subunits: upper sandstone and mudstone unit, middle conglomerate and sandstone unit, and the
 lower conglomerate and sandstone unit. These units are distinguished from each other mainly by
- 47 differences in lithology, provenance, and age.

- 1 Numerous vertebrate fossils have been found in the Sespe Formation, with the principal locations of
- 2 the finds north of Simi Valley in Ventura County. A few of the many species associated with the
- 3 Sespe Formation include Amynodontopsis (an Eocene rhinoceros), Simimys, a rodent, and the
- 4 oreodont Sespia. The nearest known locality within the Sespe Formation is approximately 8 miles
- 5 from the project area. The paleontological sensitivity of the unit is high.
- 6

Coldwater Sandstone Formation. The Coldwater Sandstone Formation is an Upper and Middle
 Eocene sandstone of shallow marine origin (42.5 to 39.5 million years old). Sandstone beds are

- Presistant and form hogbacks where steeply dipping. The upper part of the unit is locally
- 10 conglomeratic, rich in fossil oyster shells, and recently produced a limited marine vertebrate fauna.
- For the fourth of the fourth o
- 12 Coldwater Sandstone Formation, particularly near the top of the formation where the water at time
- 13 of deposition was shallowest. Outcrops along Old San Marcos Pass Road near the contact with the
- 14 Sespe Formation are rich locations for finding remnants of these gastropods. The remnants of
- 15 oyster beds can be found elsewhere near the top contact with the Sespe Formation. The
- 16 paleontological sensitivity of the unit is high.
- 17

18 Paleontology Field Survey

- 19 A field survey for paleontological resources was conducted and included viewing proposed new spur
- 20 road locations and examining proposed subtransmission structure locations. Throughout the
- survey, exposures of native rock were examined to verify the local geology and look for fossil
- resources. Although no fossils were identified within the project area during the paleontological
- field survey, sediments consistent with the descriptions of the formations were observed in areas
- 24 correspondingly mapped within those units.
- 25

26 66-kV Subtransmission Lines

27 Segment 1

28 Segment 1 crosses areas of Los Posas, Santa Barbara, Pico, Sisquoc, Rincon, and Sespe formations.

- Although no fossils were observed during the field survey, all these formations have a high potentialto yield paleontological resources.
- 31

32 Segment 2

33 Segment 2 traverses areas of Rincon and Sespe formations. Both of these formations have a high

- 34 potential to yield paleontological resources.
- 35

36 Segment 3A

- 37 Segment 3A crosses only one formation, Quaternary Alluvium. This formation ranges from 2.58
- million to 10,000 years old, although Holocene Alluvium dating to after 10,000 years ago is also
- 39 present in this unit. Because of this, the potential for yielding paleontological resources is rated low
- 40 to high. The younger portions have no sensitivity, but the portions that are over 10,000 years old
- 41 are considered to have a moderate to high potential to yield paleontological resources.

4243 Segment 3B

- 44 Quaternary Alluvium, as well Monterey, Rincon, and Sespe formations underlie Segment 3B. As
- 45 discussed above, the younger portions of the Quaternary Alluvium are not sensitive for

- 1 paleontological resources, but the older (after 10,000 years ago) portions are highly sensitive. The
- 2 Monterey, Rincon, and Sespe formations are also highly sensitive.
- 3

4 Segment 4

- 5 Segment 4 crosses a small area of Quaternary Alluvium at its western end, runs over Sespe
- 6 formation for most of its length, but crosses an area of Coldwater Sandstone, and ends with a
- 7 section of Rincon formation. As discussed above, the older portions of the Quaternary Alluvium
- 8 have a high sensitivity for paleontological resources, whereas the more recent (younger than
- 9 10,000 years) portions have no sensitivity. The other formations crossed by this segment have high
- 10 sensitivity for paleontological resources.
- 11

12 Segment 5

- 13 At the completion of the project the applicant proposes to remove an additional 12 LST and two
- 14 wood H-frame structures located between Segments 3B and 4. This work would occur in areas of
- 15 Quaternary Alluvium, Rincon formation, Monterey formation, and Sespe formation. Quaternary
- 16 Alluvium that is over 10,000 years old has a high sensitivity or paleontological resources, but
- 17 younger Quaternary Alluvium is not sensitive. The other formations on which structures will be
- 18 removed have high sensitivity for paleontological resources19

20 Getty Tap

- 21 The Getty Tap crosses Santa Barbara formation. This formation has a high sensitivity for
- 22 paleontological resources.
- 23

24 Substations

- 25 The proposed project involves work at five substations of historic age: Subsurface work is proposed
- 26 at the Santa Clara, Casitas, and Carpinteria Substations. The work at the Goleta and Santa Barbara
- 27 Substations will not entail ground-disturbing activities and are not considered in the discussion
- 28 below.
- 29
- Santa Clara Substation. The Santa Clara Substation is located on the Las Posas formation. This
 formation has high sensitivity for containing paleontological resources.
- 32

Casitas Substation. The Rincon formation underlies the Casitas Substation. The Rincon formation
 is rated as having a high sensitivity for paleontological resources.

- 35
- 36 **Carpinteria Substation.** The Carpinteria Substation is located in an area of Quaternary Alluvium.
- The older portions of this alluvium, those older than 10,000 years, have a high sensitivity for
- 38 paleontological resources.
- 39

40 Telecommunications

- 41 Telecommunications lines are to be strung on the 66-kV transmission structures, and only the
- 42 portions of the lines entering the Santa Clara, Casitas, and Carpinteria Substations within the
- 43 substation perimeter would be underground. These substations are located in areas of Las Posas
- formation, Rincon formation, and Quaternary Alluvium. The Las Posas and Rincon formations, as
- 45 well as the post-10,000 year old portions of the Quaternary Alluvium all have a high sensitivity for
- 46 paleontological resources.

4.5.2 Regulatory Setting

This section summarizes federal, state, and local laws, regulations, and standards that govern cultural resources in the project area.

4.5.2.1 Federal

9 National Historic Preservation Act of 1966

10 Enacted in 1966, the National Historic Preservation Act (NHPA) declared a national policy of

11 historic preservation and instituted a multifaceted program, administered by the Secretary of the

12 Interior, to encourage the achievement of preservation goals at the federal, state, and local levels.

13 The NHPA authorized the expansion and maintenance of the National Register of Historic Places

14 (NRHP), established the position of State Historic Preservation Officer (SHPO) and provided for the

designation of State Review Boards, set up a mechanism to certify local governments to carry out

16 the purposes of the NHPA, assisted Native American tribes to preserve their cultural heritage, and 17 created the Advisory Council on Historic Preservation (ACHP). Section 106 of the NHPA states that

17 created the Advisory Council on Historic Preservation (ACHP). Section 106 of the NHPA states tha 18 federal agencies with direct or indirect jurisdiction over federally funded, assisted, or licensed

19 undertakings must take into account the effect of the undertaking on any historic property that is

20 included in, or eligible for inclusion in, the NRHP and that the ACHP must be afforded an

20 opportunity to comment, through a process outlined in the ACHP regulations at 36 Code of Federal

22 Regulations (CFR) Part 800, on such undertakings.

23

1 2

3 4

5

6 7

8

24 National Register of Historic Places

As presented in 36 CFR 60.2, the NRHP was established by the NHPA of 1966 as "an authoritative

26 guide to be used by federal, state, and local governments, private groups, and citizens to identify the

27 Nation's cultural resources and to indicate what properties should be considered for protection

28 from destruction or impairment." The NRHP recognizes properties that are significant at the

29 national, state, and local levels. To be eligible for listing in the NRHP, a resource must be significant

30 in American history, architecture, archaeology, engineering, or culture. Districts, sites, buildings,

31 structures, and objects of potential significance must also possess integrity of location, design,

setting, materials, workmanship, feeling, and association. A property is eligible for the NRHP if it is
 significant under one or more of the following criteria:

33 35

36

• **Criterion A**: It is associated with events that have made a significant contribution to the broad patterns of our history.

• **Criterion B**: It is associated with the lives of persons who are significant in our past.

- Criterion C: It embodies the distinctive characteristics of a type, period, or method of
 construction; represents the work of a master; possesses high artistic values; or represents a
 significant and distinguishable entity whose components may lack individual distinction.
- 41 Criterion D: It has yielded, or may be likely to yield, information important in prehistory or history.

43 Cemeteries, birthplaces, or graves of historic figures; properties owned by religious institutions or

44 used for religious purposes; structures that have been moved from their original locations;

45 reconstructed historic buildings; and properties that are primarily commemorative in nature are

46 not considered eligible for the NRHP unless they satisfy certain conditions. In general, a resource

- 1 must be at least 50 years of age to be considered for the NRHP, unless it satisfies a standard of
- 2 exceptional importance.
- 3
- 4 Native American Graves Protection and Repatriation Act of 1990
- 5 The Native American Graves Protection and Repatriation Act (NAGPRA) of 1990 sets provisions for
- 6 the intentional removal and inadvertent discovery of human remains and other cultural items from
- 7 federal and tribal lands. It clarifies the ownership of human remains and sets forth a process for
- 8 repatriation of human remains and associated funerary objects and sacred religious objects to the
- 9 Native American groups claiming to be lineal descendants or culturally affiliated with the remains
- 10 or objects. It requires any federally funded institution housing Native American remains or artifacts
- 11 to compile an inventory of all cultural items within the museum or with its agency and to provide a
- summary to any Native American tribe claiming affiliation.
- 14 **4.5.2.2 State**

15 California Office of Historic Preservation

- 16 The State of California implements the NHPA through its statewide comprehensive cultural
- 17 resources surveys and preservation programs. The California Office of Historic Preservation, as an
- 18 office of the California Department of Parks and Recreation, implements the policies of the NHPA on
- 19 a statewide level. The Office of Historic Preservation also maintains the California Historic
- 20 Resources Inventory. The State Historic Preservation Officer is an appointed official who
- 21 implements historic preservation programs within the state's jurisdictions.
- 22

23 California Register of Historical Resources

- 24 The CRHR is an authoritative listing and guide to be used by state and local agencies, private groups,
- and citizens in identifying the existing historical resources of the state and to indicate which
- 26 resources deserve to be protected, to the extent prudent and feasible, from substantial adverse
- change (PRC §5024.1[a]). The criteria for eligibility for listing on the CRHR are based on NRHP
- criteria (PRC §5024.1[b]). Certain resources are determined by the statute to be automatically
- 29 included in the CRHR, including California properties formally determined eligible for, or listed in,
- 30 the NRHP.

3132 California Environmental Quality Act

- 33 Most counties and cities in California have regulations that address paleontological resources. At
- 34 the state level, CEQA requires public agencies and private interests to identify environmental
- consequences of their proposed projects on any object or site of significance to the scientific annals
 of California.
- 36 of Cali 37

38 **Public Resources Code Sections**

- 39 **PRC 5020–5024.** These sections are statutes that pertain to the protection of historical resources.
- 40
- 41 **PRC 5024.1.** This section defines historical resources and establishes the CRHR, sets forth criteria
- 42 to determine resource significance, defines CRHR-eligible resources, and lists nomination
- 43 procedures.
- 44

1 PRC 5097.5, PRC 5097.9, and PRC 30244. These sections regulate the removal of paleontological 2 resources from state lands, define unauthorized removal of fossil resources as a misdemeanor, and 3 require mitigation of disturbed sites, respectively. 4 5 **PRC 5097.91 through PRC 5097.991.** These sections pertain to the establishment and authorities 6 of the NAHC. They also prohibit the acquisition or possession of Native American artifacts or human 7 remains taken from a Native American grave or cairn, except in accordance with an agreement 8 reached with the NAHC, and provide for Native American remains and associated grave artifacts to 9 be repatriated. 10 11 **PRC 5097.98 (b) and (e).** These sections require a landowner on whose property Native American 12 human remains are found to limit further development activity in the vicinity until conferring with 13 the most likely descendants (as identified by the NAHC) to consider treatment options. 14 15 PRC 5097.993 through PRC 5097.994. These sections establish the Native American Historic Resource Protection Act, which makes it a misdemeanor crime to perform unlawful and malicious 16 17 excavation, removal, or destruction of Native American archaeological or historical sites on public 18 or private lands. 19 20 **PRC 6254 (r).** This section establishes the California Public Records Act, which protects Native 21 American graves, cemeteries, and sacred places maintained by the NAHC by protecting records of 22 such resources from public disclosure. 23 24 PRC 21083.2. This section of the CEQA Statute provides for the protection of "unique" 25 archaeological resources as defined in the Statute. If it can be demonstrated that a project will cause 26 damage to a unique archaeological resource, the lead agency may require that reasonable efforts be 27 made to preserved in place or avoid the resources. This section also establishes mitigation 28 requirements for the excavation (data recovery) of unique archaeological resources. See also 29 Section 15064.5(c) of the CEQA Guidelines (14 CCR). 30 31 **PRC 21084.1.** This section of the CEQA Statute establishes that an adverse effect on a historical 32 resource qualifies as a significant effect on the environment. See also Sections 15064.5 and 33 15126.4(b) of the CEOA Guidelines (14 CCR). 34 35 **PRC 65092.** This section provides for notice of projects in consideration for construction to be sent to California Native American tribes who are on the contact list maintained by the NAHC. 36 37 38 **California Code of Regulations Sections** 39 **14 CCR 1427.** This code recognizes that California's archaeological resources are endangered by 40 urban development and population growth and by natural forces. It declares that these resources 41 need to be preserved in order to illuminate and increase public knowledge of the historic and 42 prehistoric past of California. 43 44 **14 CCR 4307.** This code states that no person shall remove, injure, deface, or destroy any object of 45 paleontological, archaeological, or historical interest or value. 46 47 **14 CCR 15064.5.** This section of the CEOA Guidelines recognizes that a historical resource includes: (1) a resource listed in, or determined to be eligible by, the State Historical Resources Commission 48 49 for listing in the CRHR; (2) a resource included in a local register of historical resources; and (3) any 1 object, building, structure, site, area, place, record, or manuscript that a lead agency determines to

- 2 be historically significant or significant in the architectural, engineering, scientific, economic,
- 3 agricultural, educational, social, political, military, or cultural annals of California by the lead
- 4 agency, provided the lead agency's determination is supported by substantial evidence in light of
- 5 the whole record. In some cases, an archaeological resource may be considered a historical
- 6 resource. 7
- **14 CCR 15064.5(c).** If an archaeological resource does not meet the criteria for a historical
- 9 resource contained in the CEQA Guidelines Section 15064.5, it may be treated in accordance with
 10 the provisions of PRC Section 21083.2 if it is a "unique" archaeological resource. If an archaeological

11 resource is neither unique nor historical, effects of the proposed project on the resource would not

- 12 be considered a significant effect.
- 13
- 14 **CCR 15126.4(b).** This section of the CEQA Guidelines establishes mitigation guidelines for
 effects on historical resources and historical resources of an archaeological nature.
- 16
- 17 Health and Safety Code (HSC)
- 18 HSC 7050 through HSC 7054. These sections are statutes that pertain to disturbance and removal
- of human remains, felony offenses related to human remains, and depositing human remainsoutside of a cemetery.
- 21
- HSC 8010 through HSC 8011. These HSC sections establish the California Native American Graves
 Protection and Repatriation Act, which is consistent with and facilitates implementation of the
 federal Native American Graves Protection and Repatriation Act.
- 25

26 Senate Concurrent Resolutions

- 27 **Number 43.** This resolution requires all state agencies to cooperate with programs of
- archaeological survey and excavation and to preserve known archaeological resources whenever itis reasonable to do so.
- 30
- Number 87. This resolution provides for the identification and protection of traditional Native
 American resource-gathering sites on state land.
- 33

34 Penal Code Section 622 (Destruction of Sites)

- 35 This code establishes as a misdemeanor the willful injury, disfiguration, defacement, or destruction
- of any object or thing of archaeological or historical interest or value, whether situated on private or
 public lands.
- 38

39 Paleontological Resources Under CEQA

- 40 Although paleontological resources relate to geological conditions (that is, they are usually found
- 41 only in sedimentary rock or soils), the CEQA Appendix G checklist includes this analysis under the
- 42 cultural resources category. Except for the checklist, there are no state laws, regulations, or
- 43 standards applicable to paleontological resources on private property.

1 4.5.2.3 Regional and Local

2 3 The CPUC has sole and exclusive state jurisdiction over the siting and design of the proposed 4 project. The CPUC has adopted General Order (GO) 131-D to regulate the construction of electric 5 public utility facilities. GO 131-D, Section XIV.B. states that "...local jurisdictions acting pursuant to 6 local authority are preempted from regulating electric power line projects, distribution lines, 7 substations, or electric facilities constructed by public utilities subject to the Commission's jurisdiction." GO 131-D, Section XV states that "A coastal development permit shall be obtained 8 9 from the California Coastal Commission for development of facilities subject to this order in the 10 Coastal Zone." As part of its environmental review process, SCE considered local plans and policies and local land use priorities and concerns. These are discussed below. 11 12 13 Santa Barbara County Coastal Land Use Plan, Archaeological and Historical Policies 14 The Santa Barbara County Coastal Land Use Plan contains a number of policies related to historical 15 and archaeological resources, including: 16 17 Policy 10-1. All available measures, including purchase, tax relief, purchase of development 18 rights, etc., shall be explored to avoid development on significant historic, prehistoric, 19 archaeological, and other classes of cultural sites. 20 **Policy 10-2.** When developments are proposed for parcels where archaeological or other cultural 21 sites are located, project design shall be required which avoids impacts to such cultural sites if 22 possible. 23 **Policy 10-3.** When sufficient planning flexibility does not permit avoiding construction on 24 archaeological or other types of cultural sites, adequate mitigation shall be required. Mitigation 25 shall be designed in accord with guidelines of the State Office of Historic Preservation and the State of California Native American Heritage Commission. 26 27 **Policy 10-4.** Off-road vehicle use, unauthorized collecting of artifacts, and other activities other 28 than development which could destroy or damage archaeological or cultural sites shall be 29 prohibited. 30 **Policy 10-5.** Native Americans shall be consulted when development proposals are submitted 31 which impact significant archaeological or cultural sites. 32 33 Santa Barbara County Comprehensive Plan, Land Use Element, Historical and Archaeological Sites 34 Policies 35 The Santa Barbara County Comprehensive Plan, Land Use Element contains a number of policies 36 related to historical and archaeological resources, including: 37 38 Policy 1. All available measures, including purchase, tax relief, purchase of development rights, and others, shall be explored to avoid development on significant historic, prehistoric, 39 archaeological, and other classes of cultural sites. 40 41 **Policy 2.** When developments are proposed for parcels where archaeological or other cultural sites are located, project design shall be required which avoids impacts to such cultural sites if 42 43 possible. 44 **Policy 3.** When sufficient planning flexibility does not permit avoiding construction on archaeological or other types of cultural sites, adequate mitigation shall be required. Mitigation 45

2 State of California Native American Heritage Commission. 3 Policy 4. Off-road vehicle use, unauthorized collection of artifacts, and other activities other than 4 development which could destroy or damage archaeological or cultural sites shall be prohibited. 5 **Policy 5.** Native Americans shall be consulted when development proposals are submitted which 6 impact significant archaeological or cultural sites. 7 8 Ventura County General Plan 9 The Ventura County General Plan contains a number of goals and policies related to paleontological 10 and cultural resources. The goals contained in the General Plan are as follows: 11 12 **Goal 1.** Identify, inventory, preserve, and protect the paleontological and cultural resources of 13 Ventura County (including archaeological, historical, and Native American resources) for their scientific, educational, and cultural value. 14 15 Goal 2. Enhance cooperation with cities, special districts, other appropriate organizations, and 16 private landowners in acknowledging and preserving the County's paleontological and cultural 17 resources. 18 19 The policies contained in the Ventura County General Plan that may apply to nondiscretionary 20 developments are as follows: 21 22 **Policy 3.** *Mitigation of significant impacts on cultural or paleontological resources shall follow the* 23 Guidelines of the State Office of Historic Preservation, the State NAHC, and shall be performed in 24 consultation with professionals in their respective areas of expertise 25 Policy 4. Confidentiality regarding locations of archaeological sites throughout the County shall 26 be maintained in order to preserve and protect these resources from vandalism and the 27 unauthorized removal of artifacts. 28 **Policy 6.** The Building and Safety Division shall employ the State Historic Building Code for 29 preserving historic sites in the county. 30 31 **City of Carpinteria General Plan** 32 The City of Carpinteria General Plan contains a number of policies related to historical and 33 archaeological resources, including: 34 **OSC-16**: Carefully review any development that may disturb important archaeological or 35 historically valuable sites. 36 37 4.5.3 Impact Analysis 38 39 4.5.3.1 **Methodology and Significance Criteria** 40 41 The cultural resources technical reports that have been prepared for the proposed project 42 (Switalski and Bardsley 2012a, 2012b; Schmidt 2013; Leftwich et al. 2014); Proponent's Environmental Assessment (PEA) documents (SCE 2012): and Department of Parks and Recreation 43 site and isolate forms were all reviewed as research sources for this document. Additional 44 45 background research was also conducted on the general project area and on CEQA statutes to

shall be designed in accord with guidelines of the State Office of Historic Preservation and the

1 2 3	ensure the im	that impact assessments and mitigation measures are adequate to appropriately mitigate pacts to resources.
4 5 6 7 8 9 10 11 12	Cultur Inform Inform survey within archite of the on the Histor	al resources records searches were conducted for the PEA at the South Central Coastal nation Center, located at California State University, Fullerton, and at the Central Coast nation Center, located at the University of California, Santa Barbara for the cultural resources is (as noted previously) to determine the extent of previous cultural resources investigations 0.5 miles of the transmission lines, to determine whether any archaeological sites or ectural resources have been previously identified within the area. Materials reviewed as part records search included archaeological site records, historic maps, and listings of resources NRHP, the CRHR, California Points of Historical Interest, California Landmarks, and National ic Landmarks.
13 14 15 16 17 18	For pa This re Univer the res	leontological resources, the paleontological resources report (Conkling 2012) was reviewed. eport included the results of a locality search conducted through the online database of the rsity of California Museum of Paleontology and review of pertinent geological maps, as well as rsults of the field survey conducted for the proposed project.
19 20 21	The sig Guidel	gnificance criteria were defined based on the checklist items in Appendix G of the CEQA ines. An impact is considered significant if the project would:
21 22 23	a)	Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5;
24 25	b)	Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5;
26 27	c)	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature; or
28 29	d)	Disturb any human remains, including those interred outside of formal cemeteries.
30 31 32 33 34 35	Cultura and str groups resour "uniqu	al resources include archaeological and historic objects, sites and districts, historic buildings ructures, and sites and resources of concern to local Native Americans and other ethnic 5. Cultural resources that meet the criteria of eligibility for the CRHR are termed "historic ces." Archaeological resources that do not meet CRHR criteria also may be evaluated as e"; impacts on such resources could be considered significant, as described below.
36 37	A site	neets the criteria for inclusion on the CRHR if:
38 39	1.	It is associated with events that have made a significant contribution to the broad patterns of California's History and Cultural Heritage;
40	2.	It is associated with the life or lives of a person or people important to California's past;
41 42 43	3.	It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
44 45	4.	It has yielded, or may be likely to yield, information important to prehistory or history.
46 47	A reso retain	urce eligible for the CRHR must meet one of the criteria of significance described above and enough of its historic character or appearance (integrity) to be recognizable as a historical

1 resource and to convey the reason for its significance. It is possible that a historic resource may not 2 retain sufficient integrity to meet the criteria for listing in the NRHP, but it may still be eligible for 3 listing in the CRHR. 4 5 4.5.3.2 **Applicant Proposed Measures** 6 7 The applicant has committed to the following applicant proposed measures (APMs) as part of the 8 design of the proposed project (see Chapter 2, Table 2-10 for a full description of each APM): 9 10 **APM CUL-1:** Avoidance, Minimization, and Mitigation. Potential project-related effects on historical resources may be mitigated or reduced to a less than significant level by implementing SCE's 11 12 cultural resources Unanticipated Discovery Plan and employing one or more standard practice 13 mitigation scenarios including, but not limited to: 14 15 Prehistoric Resources avoid where feasible (avoidance by design, preserve in place, capping) 16 17 minimize (reduction of Area of Direct Impact/Effect) _ 18 _ mitigate (historic context statement, data recovery) 19 Historic Resources 20 _ avoid where feasible (avoidance by design, preserve in place, capping) 21 _ minimize (reduction of Area of Direct Impact/Effect) 22 _ mitigate (historic context statement, data recovery) 23 Historic Architecture/Utility Infrastructure • 24 avoid where feasible (avoidance by design, preserve in place) _ 25 minimize (reduction of Area of Direct Impact/Effect) _ 26 mitigate (historic context statement, Historic American Engineering Record, Historic _ American Building Survey, advanced California Department of Parks and Recreation 27 28 recordation) 29 30 The applicant's Unanticipated Discovery Plan would describe the procedures to be followed in the 31 event that previously unidentified cultural resources are discovered during construction of the 32 proposed project. If previously unidentified cultural resources are discovered during construction. 33 personnel would be instructed to suspend work in the vicinity of the find. 34 35 The resource would then be evaluated for listing in the CRHR by a qualified archaeologist, and, if the resource is determined to be eligible for listing in the CRHR, either the resource would be avoided 36 37 or <u>mitigated</u>. appropriate archaeological protective measures would be implemented. If human skeletal remains are uncovered during construction of the proposed project, the applicant and/or 38 39 its contractors shall immediately halt all work in the immediate area, contact the applicable County 40 Coroner to evaluate the remains, and follow the procedures and protocols set forth in Section 41 15064.5 (e)(1) of the CEQA Guidelines. 42

Per Health and Safety Code 7050.5, upon the discovery of human remains, there shall be no further
excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent

- 1 remains. If the applicable County Coroner determines that the remains are Native American, it is
- 2 anticipated that the coroner would contact the Native American Heritage Commission in accordance
- 3 with Health and Safety Code Section 7050.5(c) and Public Resources Code 5097.98 (as amended by
- 4 Assembly Bill 2641). In addition, the applicant shall ensure that the immediate vicinity where the
- 5 Native American human remains are located is not damaged or disturbed by further development
- 6 activity until the applicant has discussed and conferred, as prescribed in Public Resources Code
- 7 5097.98, with the most likely descendants regarding their recommendations.
- 8

9 APM CUL-2: Paleontological Resources Management Plan (PRMP). SCE shall prepare and

- 10 implement a PRMP that would include, but not be limited to: preconstruction coordination;
- 11 recommended monitoring methods; emergency discovery procedures; sampling and data recovery
- 12 methods, if needed; museum storage coordination for any specimens and data recovered; and
- 13 reporting requirements. The PRMP would also provide for sediment screening, fossil preparation,
- 14 curation, and preparation of a report detailing the results of the work. In addition, the PRMP would 15 specify monitoring requirements such as the presence of a paleontological monitor when work is
- 16 being performed at formations with high paleontological sensitivity. If very few or no fossil remains
- 17 are found during ground-disturbing activities, monitoring time can be reduced or suspended
- 18 entirely, per recommendations of the paleontological field supervisor.
- 19

20 APM CUL-3: A cultural resources survey of those areas that could not be previously accessed would

- be conducted prior to the start of construction. These surveys would identify and/or address any
 potential sensitive cultural resources that may be impacted by the Project, including the substation
 sites, subtransmission line and telecommunication cable routes, wire stringing locations, access and
 spur roads, drilling and crane pads, and staging yards.
- 25

26 4.5.3.3 Environmental Impacts

Impact CR-1: Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5.

- 30 LESS THAN SIGNIFICANT WITH MITIGATION
- 31

32 Construction activities could impact known and unknown historical resources. Data collected from

33the records search and from surveys revealed that historical resources have been documented

34 within the proposed project area. The surveys also recorded the presence of previously unrecorded

- 35 sites. With the exception of cultural resource site<u>s</u> CA-VEN-58 <u>and CA-SBA-3587</u>, the surveys
- 36 indicated that the previously recorded sites have either been destroyed, or appear to have been the
- 37 subject of recording errors such that they are actually outside the project area. or are not
- 38 <u>archaeological sites but fossil shell sites</u>. CA-VEN-58 is located outside the alignment for Segment 1
- 39 and would not be impacted by the proposed project. <u>CA-SBA-3587 is in an area proposed as a</u>
- 40 <u>helicopter landing area.</u>
- 41
- 42 Cultural resource sites SBCRP-1, and SBCRP-2, <u>SBCRP-3</u>, and <u>GANDA-1</u> were recorded as a result of 43 the surveys for the proposed project. SBCRP-1, SBCRP-2 and SBCRP-3 and have been determined to
- 44 be ineligible for inclusion on the CRHR. <u>Site GANDA-1 has not been evaluated for eligibility;</u>
- 45 however, the project has been redesigned to avoid the sensitive portions of the GANDA-1 site.
- 46 Cultural resource site SBCRP-3 was also recorded as a result of the surveys for the proposed project
- 47 and requires formals evaluation for eligibility for CRHR. SCE Bonsall#1 was located on a survey for
- 48 a road that is no longer part of the proposed project (Schmidt 2013). It, too, is outside the
- 49 | alignment of Segment 1 and would not be impacted by the proposed project. It is important to note

1 that substantial portions of the project area remain unsurveyed. It is possible that currently 2 unrecorded sites may exist in these unsurveyed areas. The applicant would implement APM CUL-1 3 and APM CUL-3, which would require the applicant to conduct cultural surveys for all areas not 4 previously surveyed and to avoid, minimize, and mitigate impacts to cultural resources. Potential 5 impacts to historical resources would remain to be significant with the implementation of APMs. 6 Implementation of mitigation measures (MM) CR-1 through MM CR-10, and MM CR-15 would 7 require the applicant to conduct intensive-level cultural resources surveys (transects no greater than 15 10-meters) for all areas to be disturbed that have not already been surveyed for cultural 8 9 resources and submit reports from subsequent surveys to the CPUC; establish buffers around 10 environmentally sensitive areas: use a qualified cultural resource consultant for construction monitoring; prepare plans to outline protocols to follow when a cultural resources can't be avoided, 11 12 when native American consultation is needed, and when a previously undiscovered resource is 13 found; and provide cultural resource training to all construction workers. Impacts under this criterion would be reduced to less than significant with mitigation. 14 15 Impact CR-2: Cause a substantial adverse change in the significance of an archaeological 16 17 resource pursuant to §15064.5. 18 LESS THAN SIGNIFICANT WITH MITIGATION 19 20 Impacts on archaeological resources from the construction of the proposed project would be similar 21 to impacts on historical resources from construction activities as described under Impact CR-1. The 22 applicant would implement APM CUL-1 and APM CUL-3, which would require the applicant to 23 conduct cultural surveys for all areas not previously surveyed and to avoid, minimize, and mitigate 24 impacts to cultural resources. Potential impacts to archaeological resources would remain to be 25 significant with the implementation of APMs. The impacts would be reduced to less than significant 26 with the implementation of MM CR-1 through MM CR-10, and MM CR-15. 27 28 Impact CR-3: Directly or indirectly destroy a unique paleontological resource or site or 29 unique geologic feature. 30 LESS THAN SIGNIFICANT WITH MITIGATION 31

- The proposed project would include ground disturbance in geologic units with high potential to
 contain paleontological resources (Table 4.5-2) (Table 4.5-4). The applicant would implement APM
 CUL-2, which would require the applicant to prepare a PRMP that would outline monitoring,
- 35 testing, and data recovery protocol. However, potential impacts to paleontological resource would
- 36 remain to be significant. Implementation of MM CR-11 through MM CR-15 would require the
- applicant to prepare the PRMP to meet additional standards and submit the plan to the CPUC for
- review; use a qualified paleontological consultant for construction monitoring; prepare plans to
- 39 outline protocols to follow when a previously undiscovered paleontological resource is found; and
- 40 provide paleontological resource training to all construction workers. Impacts under this criterion
- 41 would be reduced to less than significant with mitigation.
- 42

Impact CR-4: Disturb any human remains, including those interred outside of formal cemeteries.

- 45 LESS THAN SIGNIFICANT WITH MITIGATION
- 46
- 47 A review of records and field studies in the proposed project area has revealed that potential
- 48 disturbance of human remains is possible. The applicant would implement APM CUL-1 and APM
- 49 CUL-3, which would require the applicant to conduct cultural surveys for all areas not previously

surveyed and to avoid, minimize, and mitigate impacts to human remains. Potential impacts to
human remains would remain to be significant with the implementation of APMs. Impact to human
remains would be reduced to less than significant with the implementation of MM CR-1 through
MM CR-10.

5 6

7

4.5.4 Mitigation Measures

8 MM CR-1: Additional Cultural Resources Surveys. Prior to issuance of construction permits, the
9 applicant will ensure that qualified archaeological consultants, as specified in the Cultural
10 Resources Plans, will conduct intensive-level cultural resources surveys (transects no greater than
11 <u>15</u> 10-meters) for all areas to be disturbed that have not already been surveyed for cultural
12 resources and that, prior to the project, had been undisturbed. Reports that specify the research
13 design, methods, and survey results will be submitted to the CPUC for review and must be accepted
14 by the CPUC prior to the start of ground disturbance in the unsurveyed areas.

- 16 MM CR-2: Avoid Known Cultural Resources. Prior to construction, on a complete set of final 17 project construction plans, cultural resources sites will be denoted as Environmentally Sensitive 18 Areas by a CPUC-approved cultural resources consultant (MM CR-3). If any project-related 19 construction or restoration activity will occur within 50 feet of CA-VEN-58, SCE Bonsall#1, CA-SBA-20 3587, GANDA-1, or any other known cultural resource site, the sites will be designated as Environmentally Sensitive Areas. - This list is not intended to be exhaustive and may not include all 21 22 sites denoted as Environmentally Sensitive Areas on the project plans. The project plans will 23 become confidential and only be provided to approved cultural resources consultants, Native 24 American monitors approved by a tribe (MM CR-5) for monitoring during project construction (if applicable), and the applicant's Environmental Coordinators and construction supervisors. A CPUC 25 26 cultural resources specialist will approve the demarked plans prior to start of construction. 27 28 Prior to the start of construction activities within 100 feet of cultural resources, temporary fencing 29 or signage will be erected, as feasible, with the approval of the CPUC. The temporary fencing or 30 signage will be installed by or under the direct supervision of a qualified archaeologist. Fencing or signage will establish a 50-foot buffer (at minimum) from the boundary of the cultural resource site. 31 32 If signs are erected, signage will not indicate that an Environmentally Sensitive Area contains cultural resources. All Environmentally Sensitive Areas will be avoided throughout construction 33 34 and restoration of the proposed project to the maximum extent feasible. If a 50-foot buffer cannot 35 be established or the areas cannot be avoided, no work will be conducted in the area until a CPUC-36 approved cultural resources consultant (MM CR-3) inspects the cultural resources. The CPUCapproved cultural resources consultant will communicate the findings to the SCE archaeologist who 37 38 will make a preliminary determination regarding whether further investigation is required. SCE will then submit their recommendation to the CPUC for the CPUC's approval. If either SCE's cultural 39
- 40 <u>resources consultant or the CPUC's cultural resources consultant determines that further</u>
- 41 investigation is required, work will not be conducted in the area until testing and evaluation
 42 (MM CR-8) and, if necessary, data recovery (MM CR-9) are completed. Once construction in
- 42 [MM CR-8] and, if necessary, data recovery [MM CR-9] are completed. Once construction in
 43 [proximity to the Environmentally Sensitive Area is complete, the temporary fencing or signage will
- 44 <u>be removed.</u>
- 45
- 46 All cultural resources located within or adjacent to Environmentally Sensitive Areas will be
- 47 protected by temporary fencing prior to the start of construction activities within 100 feet of the
- 48 areas. All Environmentally Sensitive Areas will be avoided throughout construction and restoration
- 49 of the proposed project to the maximum extent feasible. If the areas cannot be avoided, no work will

- 1 be conducted in the area until a CPUC-approved cultural resources consultant (MM CR-3) inspects
- 2 the cultural resources and determines whether further investigation is required. If further
- 3 investigation is required, work will not be conducted in the area until testing and evaluation (MM
- 4 CR-8) and data recovery (MM CR-9), if necessary, are completed. The temporary fencing will be
- 5 installed by or under the direct supervision of a qualified archaeologist. The fencing will surround
- 6 the site, leaving a 50-foot buffer (at minimum). No signs will be placed that indicate an
- 7 Environmentally Sensitive Area contains cultural resources. The temporary fencing will be removed
- 8 once construction in proximity to the Environmentally Sensitive Area is complete.
- 9

10 **MM CR-3: Qualified Cultural Resources Consultants.** The applicant will retain the services of qualified professional (CPUC-approved) cultural resources consultants who meet or exceed the U.S. 11 12 Secretary of the Interior qualification standards for professional archaeologists published in 36 13 Code of Federal Regulations 61 and who have experience working in the jurisdictions traversed by 14 components of the proposed project sufficient to identify the full range of cultural resources that 15 may be found in the proposed project area. The consultants will also have knowledge of the cultural history of the proposed project area. The resumes and supporting information for each cultural 16 17 resources consultant will be submitted to the CPUC for approval. At least one qualified cultural 18 resources consultant must be approved by the CPUC prior to start of construction.

19

MM CR-4: Cultural Resources Plans. Prior to construction, the applicant will submit Cultural
 Resources Plans for the respective project components, prepared by the approved consultant(s)
 (MM CR-3) for review and approval by the CPUC. The final Cultural Resources Plans shall be
 implemented, as specified, throughout construction and restoration. These plans will address
 cultural resources eligible for the CRHR that cannot be preserved by avoidance and to identify areas
 where monitoring of earth-disturbing activities is required. The monitoring plan shall include, at a

27 28

32

- Requirements, as necessary, and plans for continued Native American involvement and
 outreach, including participation of Native American monitors during ground-disturbing
 activities as determined appropriate.
 - Brief identification and description of the general range of the resources that may be encountered.
- Identification of the elements of a site that will lead to it meeting the definition of a cultural
 resource requiring protection and mitigation.
- Identification and description of resource mitigation that will be undertaken if required.
- Description of monitoring procedures that will take place for each project component area as required.
- Description of how often monitoring will occur (e.g., full-time, part time, spot checking).
- Description of the circumstances that will result in the halting of work and a statement that
 either the archaeological monitor or the Native American Monitor is authorized to call for
 work to be stopped.
- Description of the procedures for halting work and notification procedures for construction crews.
- Testing and evaluation procedures for resources encountered.

1 Description of procedures for curating any collected materials. • 2 Reporting procedures. • 3 Contact information for those to be notified or reported to. • 4 5 **MM CR-5: Native American Consultation and Participation Planning.** Prior to construction, the 6 applicant will provide evidence to the CPUC that tribes requesting consultation with the applicant 7 regarding the project design and impacts on cultural resources were consulted. In addition, the 8 applicant will provide evidence to the CPUC that tribes that have expressed interest in the project 9 during any phase (i.e., project application through end of construction and restoration) are given 10 the opportunity to participate in additional cultural resources surveys (MM CR-1) and cultural 11 resources monitoring when performed by a CPUC-approved cultural resources consultant (MM CR-12 3). 13 14 To outline the expected duties and responsibilities of all parties involved, the applicant and a CPUC-15 approved cultural resources consultant will submit a Native American Participation Plan prior to 16 construction. The final Native American Participation Plan shall be implemented, as specified, 17 throughout construction and restoration. Tribes that have expressed interest in the project prior to 18 construction will be given the opportunity to participate in development of the plan. At minimum, 19 the plan will specify that: 20 21 Native American monitors, if approved by a tribe, are expected to participate in worker • environmental awareness and health and safety training and follow all health and safety 22 23 protocols. 24 Attendance by Native American monitors during construction and restoration of the project • 25 is at the discretion of the tribe, and the absence of a Native American monitor, should the 26 tribes choose to forgo monitoring for some reason, will not delay work. 27 The Native American monitors will have the ability to notify a CPUC-approved cultural • 28 resources consultant who has the authority to temporarily stop work (MM CR-7) if they find 29 a cultural resource that may require recordation and evaluation. 30 Interpretation of a find will be requested from Native American monitors will have the • 31 opportunity to provide interpretation on-involved with the discovery, evaluation, or data 32 recovery of unanticipated finds for inclusion in the final Cultural Resources Report (MM CR-10). 33 34 The tribes involved with preparation of the Native American Participation Plan will be given • the opportunity to participate in the development of Testing and Evaluation Plans (MM CR-35 36 8) and Data Recovery Plans (MM CR-9) if the development of these plans is required. 37 Native American monitors approved by a tribe for monitoring work on the project will be • 38 notified 30 days prior to start of construction of the various project components. 39 The Native American monitors will be compensated for their time. If more than one tribal • group wishes to participate in the monitoring, SCE, in coordination with the CPUC, will help 40 facilitate a mutually agreeable plan for participation. will work out an agreement for sharing 41 of monitoring compensation. 42 43 Define a process to inform tribes of completed cultural surveys and to provide a copy of the • survey to interested tribes. 44

1 **MM CR-6: Construction Monitoring.** Prior to construction, the applicant will retain qualified 2 archaeologists as specified in the Cultural Resources Plans (MM CR-4) to monitor cultural resources 3 mitigation and ground-disturbing activities in culturally sensitive areas during construction and 4 restoration. The archaeological monitors will work under the supervision of the qualified cultural 5 resources consultant unless the consultant serves as monitor, as well. The archaeological monitors' 6 credentials must be submitted to CPUC for approval prior to the notice to proceed. These areas 7 include the Quaternary alluvium, areas adjacent to sites CA-SBA-3587, CA-VEN-58, GANDA-1, and 8 SCE Bonsall#1, and any other resources identified in the Cultural Resources Plan. The qualified 9 archaeologists will attend preconstruction meetings to provide comments and/or suggestions 10 concerning monitoring plans and discuss excavation plans with excavation contractors. 11 12 **MM CR-7: Stop Work for Unanticipated Cultural Resources Discoveries.** In the event that 13 previously unidentified cultural resources are uncovered during implementation of the project, SCE 14 will ensure that ground-disturbing work is halted or diverted from the discovery to another location and will notify the CPUC and the appropriate authorities. The CPUC-approved cultural 15 resources consultant will inspect the discovery and determine whether further investigation is 16 17 required. If the discovery is significant but can be avoided, and no further impacts will occur, the 18 resource will be documented and no further effort will be required. If the resource is significant but 19 cannot be avoided, and may be subject to further impact, the CPUC-approved cultural resources 20 consultant, in consultation with and under the direction of the qualified archaeologist, will evaluate 21 the significance of the resource based on eligibility for the CRHR or local registers and implement 22 appropriate measures in accordance with the Cultural Resources Plans. 23 24 If human remains are encountered, California HSC Section 7050.5 states that no further disturbance 25 shall occur until the appropriate County Coroner has made the necessary findings as to origin. Further, pursuant to California PRC Section 5097.98(b), remains shall be left in place and free from 26 27 disturbance until a final decision as to the treatment and disposition has been made. If the 28 appropriate County Coroner determines the remains to be Native American, the Native American 29 Heritage Commission must be contacted within 24 hours. The Native American Heritage Commission must then identify the "most likely descendant(s)" within 48 hours of receiving 30 notification of the discovery. The most likely descendant(s) shall then make recommendations and 31 32 engage in consultations concerning the treatment of the remains as provided in PRC 5097.98. 33 34 **MM CR-8: Testing and Evaluation Plan.** If any cultural resource is discovered during construction 35 that cannot be avoided, work in the area of the find will be immediately halted as specified in 36 MM CR-7. A CPUC-approved cultural consultant (MM CR-3) will determine if further investigation is 37 required (MM CR-7). If so, the CPUC-approved cultural consultant will submit a Testing and

- 38 Evaluation Plan to the CPUC for approval prior to further disturbance of the resource. The final
- 39Testing and Evaluation Plan shall be implemented, as specified, throughout construction and
- 40 restoration. After testing and evaluation is completed, a report documenting the results will be
- submitted to the CPUC. If avoidance is recommended, the cultural resource will be avoided, to the
 maximum extent feasible. If avoidance is not possible, a Data Recovery Plan will be developed and
- 42 maximum extent feasible. If avoidance is not possi43 implemented (MM CR-9).
- 44
- 45 MM CR-9: Data Recovery Plan. If avoidance of a cultural resource found during project
 46 construction that is eligible for listing in the CRHR or local registers or as "unique" archaeological
- 47 resources pursuant to CEQA is not feasible, a CPUC-approved cultural resources consultant (MM
- 48 CR-3) (as applicable) will prepare a Data Recovery Plan that outlines the extent of excavation,
- 49 recovery/salvage, curation, and recordation that will occur. The Data Recovery Plan will be

submitted to the CPUC for approval prior to the start of any data recovery work. Data recovery will
 be completed as specified in the approved Data Recovery Plan prior to continuing work within the

3 area of the find.4

5 MM CR-10: Cultural Resources Reporting. Prior to final inspection after construction of project 6 components has been completed, the applicant's qualified archaeologists as specified in the Cultural 7 Resources Plans will submit reports to the CPUC summarizing all monitoring and mitigation 9 activities and confirming that all mitigation measures have been implemented.

- 8 activities and confirming that all mitigation measures have been implemented.
- 9

10 MM CR-11: Paleontological Monitoring and Treatment Plan. Prior to start of construction, the 11 applicant will submit a Paleontological Monitoring and Treatment Plan for each project component 12 that is prepared by a CPUC-approved paleontological consultant (MM CR-12) to the CPUC for 13 approval. This plan will be adapted from the Society of Vertebrate Paleontology's Standard 14 Procedures for the Assessment and Mitigation of Adverse Impacts to Paleontological Resources 15 (2010) to specifically address each project component. In addition, the plan will, at minimum:

- 16 17
- Include a list of personnel to which the plan applies.
- Describe the criteria used to determine whether an encountered resource is significant and if it should be avoided or recovered.
- Identify construction and restoration impact areas of moderate to high sensitivity for
 encountering paleontological resources and the shallowest depths at which those resources
 may be encountered.
- Describe methods of recovery, preparation, and analysis of specimens, final curation of
 specimens at a federally accredited repository, data analysis, and reporting.
- Identify areas with moderate to high sensitivity for encountering paleontological resources
 and the shallowest depths at which those resources may be encountered.
- Briefly identify and describe the types of paleontological resources that may be
 encountered.
- Identify the elements of a site that will lead to it requiring protection and mitigation and identify mitigation that will apply.
- Describe monitoring procedures that will take place for each component of the project that requires monitoring.
- Describe how often monitoring will occur (e.g., full-time, part time, spot checking), as well as
 the circumstances under which monitoring will be increased or decreased.
- Describe the circumstances that will result in the halting of work.
- Describe the procedures for halting work and notification procedures for construction and restoration crews.
- 38 Include testing and evaluation procedures for resources encountered.
- Describe procedures for curating any collected materials.
- Outline coordination strategies to ensure that CPUC-approved paleontological consultant (MM CR-12)conduct full-time monitoring of all grading activities in sediments determined to have a moderate to high sensitivity.
- Include reporting procedures.

Include contact information for those to be notified or reported to. •

2 3 For sediments of low or undetermined sensitivity, the plan will specify what level of monitoring is 4 necessary. Sediments with no sensitivity will not require paleontological monitoring. The plan will 5 define specific conditions in which monitoring of earthwork activities could be reduced and/or 6 depth criteria established to trigger monitoring. These factors will be defined by an approved 7 (MM CR-12) paleontologist.

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9 MM CR-12: Qualified Paleontological Consultants. The applicant will retain the services of 10 qualified professional paleontological consultants with knowledge of the local paleontology and the minimum levels of experience and expertise as defined by the Society of Vertebrate Paleontology's 11 12 Standard Procedures for the Assessment and Mitigation of Adverse Impacts to Paleontological 13 Resources (2010). The resumes and supporting information for each paleontological consultant will 14 be submitted to the CPUC for approval. At least one qualified paleontological consultant must be 15 approved by the CPUC prior to start of construction.

16

17 MM CR-13: Paleontology Construction Monitoring. Based on the Paleontological Monitoring and 18 Treatment Plans, SCE will conduct paleontological monitoring using CPUC-approved 19 paleontological consultant (MM CR-12). This will include monitoring any ground-disturbing activity 20 during construction and restoration in areas determined to have high paleontological sensitivity 21 and that have the potential to be shallow enough to be adversely affected by such earthwork as 22 determined by the CPUC-approved paleontological consultant.

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24 MM CR-14: Stop Work for Unanticipated Paleontological Discoveries. If previously unidentified 25 paleontological resources are uncovered during implementation of the project, the applicant will 26 ensure that ground-disturbing work is halted or diverted from the discovery to another location. A 27 CPUC-approved paleontological consultant will inspect the discovery and determine whether 28 further investigation is required. If the discovery is significant but can be avoided, and no further 29 impacts will occur, the resource will be documented in the appropriate paleontological resource 30 records and no further effort will be required. If the resource is significant but cannot be avoided and may be subject to further impact, the CPUC-approved paleontological consultant (MM CR-12) 31 will evaluate the significance of the resource and implement appropriate measures in accordance 32 33 with the Paleontological Monitoring and Treatment Plans.

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35 MM CR-15: Cultural and Paleontological Resources Training Requirements. Prior to start of 36 construction, all construction and restoration personnel involved in ground-disturbing activities 37 and the supervision of such activities will undergo worker environmental awareness training. The 38 cultural and paleontological resources training components of will be presented by a CPUC-

- 39 approved cultural resources consultant (MM CR-3) and CPUC-approved paleontological consultant
- (MM CR-12). The training will describe the role of cultural and paleontological resources monitors; 40
- 41 role of Native American monitors (if applicable); the types of cultural and paleontological resources
- 42 that may be found in the proposed project area and how to recognize such resources; the protocols
- 43 to be followed if cultural or paleontological resources are found, including communication
- 44 protocols; and the laws relevant to the protection of cultural and paleontological resources and the
- 45 associated penalties for breaking these laws. Additionally, prior to construction, CPUC-approved
- 46 cultural and paleontological resources consultants will meet with the applicant's grading and
- 47 excavation contractors to provide comments and suggestions concerning monitoring plans and to
- 48 discuss excavation and grading plans.

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