# 1 4.4 Cultural and Paleontological Resources

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This section describes the environmental and regulatory settings and discusses impacts associated
with construction and operation of the Mesa 500-kilovolt (kV) Substation Project (proposed
project) proposed by Southern California Edison Company (SCE, or the applicant) with respect to
cultural and paleontological resources. During scoping, a comment was received from the
Gabrieleño Band of Mission Indians/Kizh (Kit'c) Nation stating that the proposed project was
within their traditional territory and could affect cultural resources.

Cultural resources discussed in this section include historical resources, archeological resources
 (which may be historic or prehistoric and are a subset of historical resources), Native American
 resources, and paleontological resources:

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14 Historical Resources: The California Environmental Quality Act (CEQA) defines historical • 15 resources as resources that are listed on, or determined to be eligible for listing on, the California Register of Historical Resources (CRHR) or a local register, or are otherwise 16 17 determined to be historical pursuant to CEQA or the CEQA Guidelines (Public Resources Code [PRC] § 21084.1 or Code of Regulations, Title 14, § 15064.5, respectively). According 18 19 to the CEQA Guidelines, a historical resource may be an object, building, structure, site, area, 20 place, record, or manuscript that a lLead aAgency determines to be historically significant or significant in terms of California's architectural, engineering, scientific, economic, 21 22 agricultural, educational, social, political, military, or cultural records. Typically, in order to 23 be considered historical for purposes of listing, a resource must be at least 50 years old.

24 **Archaeological Resources:** Archaeological resources may be considered historical • 25 resources pursuant to the CEQA Guidelines. Archaeological resources may also be 26 determined to be "unique" as defined by CEQA (PRC § 21083.2). Unique archaeological 27 resources are artifacts, objects, or sites that can be demonstrated to (1) contain information 28 needed to answer important scientific research questions and that there is a demonstrable 29 public interest in that information; (2) have a special and particular quality such as being 30 the oldest of its type or the best available example of its type; or (3) be directly associated 31 with a scientifically recognized important prehistoric or historic event or person. 32 Archaeological resources that are neither a unique archaeological nor an historical resource 33 are not required to be addressed in an Environmental Impact Report (EIR).

Native American Resources: Native American cultural resources that may include
 historical or archaeological resources, rock art, and prominent topographical areas,
 features, habitats, plants, animals, or minerals that contemporary Native Americans value
 and consider important for the preservation of Native American traditions.<sup>1</sup>

Paleontological Resources: For the purpose of this EIR, paleontological resources refer to
 fossilized plant and animal remains of prehistoric species. They are valued for the
 information they yield about the history of the earth and its past ecological settings.
 Paleontological resources represent a limited, non-renewable, impact-sensitive scientific

<sup>&</sup>lt;sup>1</sup> Assembly Bill (AB) 52, signed by Governor Brown in 2014, requires a lead agency to offer Native American tribes with an interest in tribal cultural resources located within its jurisdiction the opportunity to consult on CEQA documents. The new procedures under AB 52 apply to projects that issue draft negative declarations or notices of preparation after July 1, 2015. Because the Notice of Preparation for the proposed project was issued on June 5, 2015, AB 52 does not apply to the project.

and educational resource. Fossil remains such as bones, teeth, shells, and leaves are found in geologic deposits (i.e., rock formations). Paleontological resources, in general, include fossils as well as the collecting localities and the geologic formations that contain those fossils.

#### 4.4.1 Environmental Setting

#### 4.4.1.1 Regional Setting

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The discussion of the regional setting presented in the following prehistory, ethnography and
ethnohistory, and history sections is based on information provided in the Proponent's
Environmental Assessment (SCE 2015) and supplemental cultural reports and information
submitted by the applicant for the proposed project (Chiang and Tinsley Becker 2014a, 2014b;
Williams 2014; Williams et al. 2014; DeBiase and Tinsley Becker 2015; Tinsley Becker et al. 2015;

15 Williams 2015a, 2015b) unless otherwise cited.

# 1617 Cultural Resources

18

The cultural history of the Los Angeles area can be divided into three nonexclusive time periods: (1)
prehistory (more than 500 to 600 years ago but up to and including the 1700s depending on the

amount of contact between native groups and Spanish and European settlers), (2) ethnohistory (roughly the mid 1500s through the early 1800s) and (3) history (roughly the mid to late 1700s to

(roughly, the mid 1500s through the early 1800s), and (3) history (roughly, the mid to late 1700s to
present).

#### 25 **Prehistory**

The prehistory of Southern California consists of four periods—Late Pleistocene, Early Millingstone,
 Intermediate, and Late Prehistoric/Canaliño:

28

 Late Pleistocene Period (pre-10,000 before present [BP]): There is a certain level of uncertainty about this period due to the limited archaeological record for occupation during this period. The uncertainty results from geological conditions that do not favor preservation of remains from the period. It is possible that people inhabited the coastal areas of California during this time, but evidence is limited. Petroglyphs have been found from 20,000 years BP and stone tools have been found from 30,000 years BP in the inland Mojave Desert region, indicating possible occupation of Pleistocene lakeshores.

Early Millingstone Period (10,000 to 3,500 BP): The record of the Early Millingstone 36 • 37 Period is more evident along the California Coast, although some examples of the period are 38 found in inland California. The record from inland California dates from a later time period than the record along the coast, suggesting that habitation during the Early Millingstone 39 40 Period was limited to the California coast. People during this time were general foragers, 41 relying on a variety of resources for survival. This period differentiates from the Late Pleistocene Period due to a focus on seed and plant consumption: animals and shellfish 42 43 were consumed on a limited scale. Archaeological resources associated with this period include metates, manos, and large projectile points. 44

Intermediate Period (3,500 to 800 BP): The Intermediate Period saw increased reliance
 on marine resources, though a diversity in resources remained due to continued
 consumption of plants, seeds, and animals. Hunting became more important in inland areas.

- Archaeological resources associated with this period include mortars and pestles, large projectile points, and small projectile points.
  - Late Prehistoric/Canaliño Period (800 to 200 BP): The Late Prehistoric Period was marked by establishment of larger settlement sand communities and development of localized cultures. People increasingly used bows and arrows and bone tools. Obsidian was used more commonly.

#### 8 **Ethnography and Ethnohistory**

9 The proposed project area is located in Gabrieleño/Tongva territory. The name "Gabrieleño" refers 10 to the association with Mission San Gabriel, but some descendant populations refer to themselves 11 as Tongva. Traditional Gabrieleño/Tongva territory extends from the Pacific Ocean across the Los 12 Angeles Basin and into western Riverside and San Bernardino Counties. Some local villages were inhabited year-round, but many large villages came together during the fall and winter when stored 13 14 food resources were used. Smaller family units dispersed in the spring and summer when resources 15 were more widespread. The Tongva were hunters and gatherers. Sources of food included acorns, 16 yucca, sage seeds, pinyon, and other plants, while small and large game were hunted (SCE 2015). 17

#### 18 History

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The historic period in Southern California is divisible into three distinct periods: (1) SpanishMission, (2) Mexican Rancho, and (3) Anglo-American:

- 22 Spanish Mission Period (1769-1821): Spain made its first mainland contact with the • 23 Gabrieleño in 1769. Mission San Gabriel was established in 1771 in what is now Montebello and Rosemead as the fourth of an eventual 21 missions in California. The goal of the mission 24 25 system was to convert the Native American population to Christianity and to use their labor in the development of the territory. Diseases brought by the Europeans and conditions in 26 27 the missions had a heavy impact on the native population, severely reducing their numbers 28 and destroying their established culture. The area that now comprises Monterey Park was 29 part of the southern portion of the Mission San Gabriel Arcángel lands, and was used for cattle, horses, and sheep grazing. Mission San Gabriel was eventually moved to present-day 30 31 San Gabriel to avoid flooding that occurred at the original site.
- Mexican Rancho Period (1822–1848): After gaining independence from Spain, the
   Mexican government secularized the missions, taking the land away from the Catholic
   Church and giving it to private citizens through a series of land grants. Native populations
   provided the labor for these ranchos. The rancheros raised cattle, and the trade in hides and
   tallow fueled California's economy at this time. Ranchos in the area included:
- 37 Rancho La Merced
- 38 Rancho Potrero Grande
- 39 Rancho Potrero Chico
- 40 Rancho San Antonio (Lugo)
- 41 Rancho Potrero de Felipe Lugo
- 42 Rancho La Puente
- 43 Rancho Santa Anita

| 1<br>2                                 | T<br>tł                          | he United States gained ownership of California from Mexico in 1848 with the signing of<br>ne Treaty of Guadalupe Hidalgo, ending Mexican control.  |
|--|----------------------------------|---|
| 3<br>4<br>5<br>6                       | • <b>A</b><br>p<br>p<br>T        | <b>nglo-American Period (1848-present):</b> California became a state in 1850. The state's opulation increased due to emigrants interested in land, gold, agriculture, and other ursuits. The United States was obligated to recognize the Mexican land grants under the reaty of Guadalupe Hidalgo. The history of local cities is provided below:   |
| 7<br>8<br>9<br>10<br>11                | -                                | <b>Monterey Park:</b> In 1866, approximately 5,000 acres surrounding what is now<br>Monterey Park were purchased and subsequently used as a sheep ranch until 1885. In<br>1906, the land was divided into 0.5-acre and 1-acre lots. By 1944, half of the land in the<br>city, mostly in the southern area of the city, was still generally undeveloped. By the late<br>1970s, the city's population growth had slowed.  |
| 12<br>13<br>14<br>15<br>16<br>17<br>18 | -                                | <b>Montebello:</b> From 1900 to 1920, Montebello was an ideal agricultural community due to the climate, soil, and reliable water supply. In 1917, oil was discovered in the Montebello Hills. By the 1920s, the oil field accounted for one-eighth of the state's total crude oil production (City of Montebello not dated). Montebello's population was 5,498 in 1930, and the population increased to 21,735 by 1950, likely due to industry and residential development during World War II. Steady population increases occurred through the historic period and today it numbers 61,085 people. |
| 19<br>20<br>21                         | -                                | <b>Rosemead:</b> The first American settlers in Rosemead arrived in 1852. Prior to its development into residential and commercial areas, ranching and agriculture were the chief land uses in the area.  |
| 22<br>23<br>24                         | -                                | <b>South El Monte:</b> Farms and ranches were established in the early Anglo-American Period; the area that is now South El Monte remained chiefly rural until after the 1950s when more residential, industrial, and commercial development occurred.  |
| 25<br>26<br>27<br>28                   | -                                | <b>Commerce:</b> The Atchison, Topeka & Santa Fe Railway built the Railway's main line through the area that is now Commerce in 1887. Most land remained ranch lands for the next several decades. Factories were built along the railroad and land use became more industrial by the 1920s.  |
| 29<br>30<br>31<br>32                   | -                                | <b>Bell Gardens:</b> The land was used for ranching and agriculture into the 1930s. The area was subdivided in 1900. Firestone Tire Company bought land in the area in 1927, touching off industrialization. In 1930, residential development began in stride. Industrialization continued during World War II.   |
| 33<br>34<br>35<br>36<br>37<br>38       | -                                | <b>Pasadena:</b> Pasadena incorporated as a city in 1886, and its population increased rapidly. The city annexed many areas to increase the city's geographic size. Pasadena was known for wealth and architecture. It also gained a reputation for being a winter resort town. Industrial activities began in the city during World War II. The Arroyo Seco Parkway was constructed between Pasadena and Los Angeles in 1940, and residential development continued after World War II.  |
| 39<br>40                               | Paleontol                        | ogical Resources  |
| 41<br>42<br>43                         | The prop<br>bounded<br>and ignee | osed project is located within the Los Angeles Basin, an alluviated lowland coastal plain<br>by mountains and hills that expose Mesozoic or older basement rocks and sedimentary<br>ous rocks of Late Cretaceous to Late Pleistocene age. The physiographic basin is underlain  |

- and igneous rocks of Late Cretaceous to Late Pleistocene age. The physiographic basin is underlain by a deep, structural depression. Parts of this depression have been the sites of discontinuous 44
- deposition since the Late Cretaceous period as well as continuous subsidence and deposition since 45

- 1 the Middle Miocene period. The Holocene deposits include sediments in modern stream channels;
- 2 on these channel's alluvial fans and floodplains; and as sediments on beaches, in embayments, and
- 3 in most dunes. The Los Angeles Basin consists of four primary structural blocks: southwestern,
- 4 northwestern, central, and northeastern. The surface of the lowland plain of the central block is
- 5 formed by the coalesced alluvial fans of the Los Angeles River, Rio Hondo, San Gabriel River, and
- 6 Santa Ana River. From this central block, floodplain deposits extend up the Rio Hondo and San
- 7 Gabriel River through the Whittier Narrows to form the surficial strata of the San Gabriel Valley in
- 8 the central part of the northeastern block. Toward the coast, these deposits extend through several
- 9 narrow gaps in the chain of low hills and mesas along the Newport-Inglewood-Rose Canyon fault
- 10 zone into estuarine deposits along the shoreline. Except in coastal areas, the deposits contain as
- 11 much as 200 feet of boulder, cobble, and pebble gravel; coarse- to fine-grained sand; and silt. The
- 12 coarser sediment is most abundant in the lower part of the deposit. A brief description of the
- 13 geologic units in the proposed project area is provided below.
- 1415 Quaternary Wash Deposits
- 16 Quaternary wash deposits (Qw) consist primarily of silt and sand with minor amounts of gravel,
- 17 and are only present within the Goodrich Substation area. Quaternary wash deposits are Holocene
- 18 in age (11,000 years BP to present time). Quaternary wash deposits within the proposed project
- area have a very low paleontological potential (Potential Fossil Yield Classification [PFYC] Class 2).
- 21 Quaternary Alluvium
- 22 Undifferentiated Quaternary alluvial deposits are deposited by fluvial processes (transported by
- 23 water) and can be further subdivided by age into younger alluvium (Holocene age) and older
- 24 alluvium (Pleistocene age). Holocene units have low paleontological potential within the initial 5
- 25 feet, and increase to moderate/unknown paleontological potential below 5 feet in depth below the
- 26 ground surface and high potential in areas with previously recorded fossil localities. Pleistocene
- 27 alluvium exposed at the surface or otherwise has moderate to high potential to produce significant
- 28 paleontological resources, depending on proximity in relation to known paleontological localities of
- 29 the same age. These deposits are described in detail below.
- 30

#### 31 Quaternary Young Alluvium

- 32 Quaternary young alluvial deposits (Qyf 1, 2, 3, and 4) are present within the proposed project area.
- 33 These deposits are late Pleistocene to Holocene in age (2.5 million years BP to present). The
- 34 younger aged deposits have low paleontological potential (PFYC Class 2). Late Pleistocene alluvium,
- 35 however, is known to yield scientifically important fossils and has moderate paleontological
- 36 potential (PFYC Class 3).
- 37

#### 38 Quaternary Older Alluvium

- 39 Quaternary older alluvium (Qof 1, 2, and 3) is present within the proposed project area. Quaternary
- 40 older alluvium is Pleistocene age (2.5 million years to 11,000 years BP). Pleistocene geologic units,
- 41 particularly alluvium, are generally considered to have moderate to high sensitivity because these
- 42 units have yielded fossils of Ice Age mammals from nearby localities. Numerous other examples
- 43 exist in the Los Angeles area, including fossil plants, invertebrates, and mammals (e.g., ground sloth,
- rodents, horse, tapir, camel, deer, llama, mastodon, and mammoth) (Miller et al. 2015). Older
- 45 alluvium within the proposed project area has a moderate paleontological potential (PFYC Class 3).

#### 1 Fernando Formation

2 The Fernando Formation is Pliocene in age (2.5 million years BP to 11,000 years BP). The Fernando

3 Formation contains two sandstone members, both of which are present within the Mesa Substation

4 area and along Telecommunications Routes 1 and 2. The Fernando Formation has yielded marine

5 fossils, including bony fish, sharks, whales, dolphins, and invertebrates (Miller et al. 2015).

6 Specimens of shark teeth—including that of great white sharks, eagle rays, and mako sharks—are
7 the most common fossils (Miller et al. 2015). Additionally, invertebrate shells may be locally

abundant (Miller et al. 2015). The Fernando Formation within the proposed project area has a high

9 paleontological potential (PFYC Class 4).

10

#### 11 4.4.1.2 Approach to Data Collection

12

Methods to identify cultural resources within and adjacent to the proposed project included records searches, field surveys and site verification visits, and Native American consultation.

#### 15 **Records Searches and Surveys—Methodology and Previous Survey Efforts**

# Mesa Substation; Transmission, Subtransmission, and Distribution Rights-of-Way; Staging Yards 1, 2, and 3

- 18 Cultural resources records and literature searches of documents and maps on file at the South
- 19 Central Coastal Information Center (SCCIC) were conducted in June 2014 (Williams et al. 2014) and
- 20 January 2015 (Williams 2015a) for the proposed project area (shown in Figure 2-3a, excluding
- 21 areas that only include telecommunications routes) and a 0.5-mile buffer. The area includes Staging
- 22 Yards 1, 2, and 3.
- 23

24 The majority of the Mesa Substation site and adjacent transmission, subtransmission, and

- distribution rights-of-way was surveyed for the Tehachapi Renewable Transmission Project (TRTP)
- for archaeological resources in transects no greater than 40 feet wide and typically at 10 meters
- wide (Wiliams et al. 2014,2015a). Small portions of the project site had not yet been surveyed. ASM
- Affiliates (ASM) surveyed these areas for archaeological resources to an intensive level using 10-
- 29 meter transects on June 19, 2014. Staging Yards 1 and 3 were also partially surveyed as part of a
- 30 previous SCE project in 10-meter-wide transects. ASM surveyed the unsurveyed portions of Staging
- 31 Yards 1 and 3, as well as all of Staging Yard 2 for archeological resources to an intensive level using
- 32 10-meter transects on August 19, 2014 (Williams et al. 2014).
- 33

To determine the potential for built environment historical resources, ASM reviewed current and
 historic aerial photographs of the substation site. Subsequently, ASM conducted a historical
 resource field survey of the Mesa Substation area on August 19, 2014. ASM took photographs to

- 37 document the three buildings located at 440 Potrero Grande Avenue. ASM also conducted archival
- research at the Monterey Park Public Library, including the Special Collections Room, and the City
- of Los Angeles Public Library to evaluate the buildings located in aerial imagery on the Mesa
- 40 Substation site (Williams et al. 2014).
- 41
- 42 The Mesa substation site itself was assessed in 2010 for eligibility for a previous project; the United
- 43 States Forest Service and State Historic Preservation Officer (SHPO) concurred with the study's
- 44 finding that the Mesa Substation complex was not eligible for listing on the CRHR or National
- 45 Register of Historic Places (NRHP). Therefore, the Mesa Substation complex was not evaluated
- 46 further fore the proposed project (Williams et al 2014).

#### 1 <u>Telecommunications Routes</u>

- 2 Records searches for the telecommunications routes were conducted in January 2015 and included
- a 0.5-mile buffer around the telecommunications routes (Williams 2015a). Portions of the
- 4 telecommunications routes close to the Mesa Substation and that cross over TRTP transmission
- 5 routes had been surveyed as part of the TRTP. Telecommunication route alignments not surveyed
- 6 for the TRTP were surveyed in 10-meter-wide transects with a 25-foot buffer on either side of the
- 7 centerline of the alignment as part of a survey effort in late December 2014 and early January 2015
- 8 (Williams 2015a). 9

#### 10 Goodrich Substation and Staging Yard 4

- 11 Cultural resources records and literature searches of documents and maps on file at the SCCIC were
- 12 conducted in June 2014 (Williams et al. 2014) for the proposed project area (shown in Figure 2-3e)13 and an 0.5-mile buffer.
- 14
- 15 The majority of the Goodrich Substation site (Figure 2-3e), which includes the project construction
- area and Staging Yard 4, was surveyed for archaeological resources for the TRTP project in 10-
- 17 meter-wide transects. A small portion of the north central part of the Goodrich Substation site had
- 18 not been surveyed. ASM surveyed this area to an intensive level for archaeological resources using
- 19 10-meter transects on June 19, 2014. No architectural historical resources survey was conducted
- 20 because no potential built environment historic<u>al</u> resources were identified in examination of aerial
- 21 photographs of the Goodrich Substation area (Williams et al. 2014).
- 22

#### 23 South Area

- 24 Records searches for the south area were conducted in January 2015 and included a 0.5-mile buffer
- around south area project components (Williams 2015a). The survey area in the south area
- 26 encompassed 25-meter buffers around the two existing streetlights, as well as around the tower to
- be replaced in Commerce in 10-meter transects as part of a survey effort in late December 2014
- and early January 2015 (Williams 2015a). The parcel containing the tower replacement area in
- 29 Commerce was also surveyed in July or August 2015 as part of the survey for Staging Yard 5
- 30 (Williams 2015b).
- 31

#### 32 Other Existing Substations

- 33 To evaluate the eligibility of Laguna Bell, Lighthipe, Repetto, San Gabriel Substations, Anita, Fairfax,
- 34 Garfield, Eagle Rock, and Newmark Substations, Urbana Preservation and Planning, LLC (Urbana)
- 35 reviewed archival resources such as the Los Angeles Public Library resources, Los Angeles County
- 36 library resources, historic United States Geological Survey (USGS) Topographic Quadrangle maps,
- drawings from the SCE Corporate Drawing Management's Hummingbird digital archive, and the
- 38 Huntington Library SCE historic photograph collection (Chiang and Tinsley Becker 2014a, 2014b;
- 39 DeBiase and Tinsley Becker 2015; Tinsley Becker et al. 2015). To assess the Laguna Bell and
- 40 Lighthipe Substations' eligibility for the CRHR and NRHP, Urbana staff also visited and observed the
- 41 two substation properties on October 23, 2014 (Chiang and Tinsley Becker 2014a). Urbana staff
- 42 visited the Repetto and San Gabriel Substation Properties on January 2, 2015 (DeBiase and Tinsley
- 43 Becker 2015). To evaluate the eligibility of the Anita, Fairfax, Garfield, and Newmark Substations,
- 44 Urbana visited those substations on March 4, 2015 (Tinsley Becker et al. 2015). To evaluate
- 45 eligibility of the Eagle Rock Substation, Urbana visited the property on May 13, 2014 (Chiang and 46 Tinslay Bocker 2014b)
- 46 Tinsley Becker 2014b).

- 1 Substation complexes built after 1950 that do not have buildings with architectural significance are
- 2 generally not eligible for the NRHP or CRHR because they generally have an unmeritorious
- 3 appearance. The eligibility of 14 substations built between 1957 and 1971 with buildings without
- 4 architectural significance or without buildings (Center, Eaton, Goodrich, Mira Loma, Narrows,
- 5 Pardee, Ravendale, Redondo Beach, Rio Hondo, Rosemead, Rush, Vail, Vincent, and Walnut) were
- 6 evaluated from desktop study. Wabash Substation, which was rebuilt in 1967 and had all original
- 7 elements removed, was likewise studied from desktop only. The Mesa Substation was formally
- 8 evaluated as part of another SCE project (Williams 2014).
- 9

#### 10 Staging Yards 5, 6, and 7

11 Staging Yard 5 was included in the 0.5-mile buffer for the records search for structure replacement

- 12 work in Commerce (Williams 2015a). A records search was completed for Staging Yard 6 and a
- 13 0.25-mile buffer as part of SCE's TRTP Segment 11 (Pacific Legacy 2007). Staging Yard 7 was
- covered in the 0.5-mile buffer of the records search for Telecommunications Route 3 (Williams2015a).
- 16
- 17 ASM surveyed Staging Yards 5 and 7 on July 21 and August 17, 2015, at an intensive level (Williams
- 18 2015b). Staging Yard 6 was surveyed as part of TRTP Segment 11 at parallel intervals not more
- 19 than 40 feet apart (Pacific Legacy 2007).
- 20

## 21 Native American Consultation<sup>2</sup>

22 SCE contacted the Native American Heritage Commission (NAHC) on September 8, 2014, to request

a Sacred Lands File Search for the Mesa Substation project. The records search covered the

24 proposed project area, as well as areas within 1 mile of the proposed project area. SCE also

- requested a list of Native American tribal groups and individuals with interests in the proposed
- 26 project area. NAHC provided a contact list of nine people and organizations that might have
- information on the proposed project area. Between January 23 and January 29, 2015, SCE sent
  letters to the nine contacts provided by the NAHC:
- 29
- 30 Sam Dunlop, Cultural Resources Director, Gabrielino/Tongva Nation
- 31 John Tommy Rosas, Tribal Administrator, Tongva Ancestral Territorial Tribal Nation
- Anthony Morales, Chairperson, Gabrieleno/Tongva San Gabriel Band of Mission Indians
- Sandonne Goad, Chairperson, Gabrielino/Tongva Nation
- Robert F. Dorame, Tribal Chair, Cultural Resources, Gabrielino Tongva Indians of California
   Tribal Council
- 36 Bernie Acuna, Co-Chairperson, Gabrielino-Tongva Tribe
- 37 Linda Candelaria, Co-Chairperson, Gabrielino-Tongva Tribe
- Andrew Salas, Chairperson, Gabrieleño Band of Mission Indians/Kizh (Kit'c) Nation

<sup>&</sup>lt;sup>2</sup> As indicated previously, AB 52 recently amended CEQA through, in relevant part, adding section 21084.2 to the PRC. PRC section 21084.2 establishes that a substantial adverse effect on the significance of a tribal cultural resource may have a significant effect on the environment. The amendment does not apply to projects for which a Notice of Preparation was issued prior to July 1, 2015 (Assembly Bill 54. (Cal. 2014)). The Notice of Preparation for the proposed project was issued on June 5, 2015; therefore, the amendments to CEQA per Assembly Bill 52 do not apply to the proposed project.

1 2

#### • Conrad Acuna, Gabrielino-Tongva Tribe

3 SCE Archaeologist, Amanda Cannon, held a phone discussion with Anthony Morales of the 4 Gabrieleño/Tongva Band of Mission Indians regarding the proposed project. SCE also requested a 5 second sacred lands file search from the NAHC on March 3, 2015, because Andrew Salas of the 6 Gabrieleño Band of Mission Indians/Kizh (Kit'c) Nation indicated to SCE that the proposed project 7 would be located within sacred lands. A representative of the NAHC responded on June 22, 2015, 8 and indicated that potential Native American Heritage resources exist in the Los Angeles USGS 9 7.5-minute topographic quadrangle. The letter said that SCE should contact the Tongva Ancestral 10 Territorial Tribal Nation for further information. 11

12 California Public Utilities Commission (CPUC) outreach included sending Notices of Preparation to

13 tribes listed on the NAHC contact list as well as reaching out to Andy Salas, Chairman of the

14 Gabrieleño Band of Mission Indians regarding his scoping comment. In addition, the CPUC held a

15 conference call with Mr. Salas, Gary Strickel (Tribal Archaeologist), a tribal member, the CPUC

16 environmental consultant's project manager, and the CPUC environmental consultant's

- 17 archaeologist on August 25, 2015.
- 18

#### 19 Paleontological Resources

20 Paleo Solutions, Inc. conducted a paleontological resources study for the proposed project. The

study area for the proposed project included the Goodrich Substation area (Figure 2-3e), the Mesa

22 Substation area (Figure 2-3a), the telecommunications routes (with 25-foot buffer), and the south

23 area (streetlight source line plus 25-foot buffer in Bell Gardens; alignment plus 25-foot buffer near

structure to be replaced in Commerce). Records searches were conducted on June 30 and

25 December 18, 2014. The survey area excluded the triangle jutting out northwest of the area shown

26 in Figure 2-3a and instead surveyed the linear path of the transmission line in that alignment with a

- 27 25-foot buffer. A literature search was also conducted and included published scientific papers
- 28 from the Biodiversity Research Center of the California's library, the Journal of Vertebrate
- 29 Paleontology, online resources such as the USGS and Science Direct, and documents on file at Paleo

30 Solutions. TRTP paleontological resource documents were reviewed to the extent that they

31 pertained to the paleontological resources study area. Paleo Solutions also reviewed published 32 geologic maps of the area, as well as aerial imagery. Parts of the paleontological study area were

- 32 geologic maps of the area, as well as aerial imagery. Parts of the pareontological study area were 33 subject to a pedestrian survey in June 2014; the remainder of the study area was surveyed in
- 34 December.
- 35

36 This analysis also informed determination of the potential for uncovering an unknown

37 paleontological resource based on a paleontological review conducted by a qualified paleontologist,

as documented in the Paleontological Resources Technical Report provided by the applicant, and

39 review of the mapped geological units in the proposed project area. The geologic units in the

40 proposed project area were classified according to the PFYC System, a predictive resource

41 management tool developed by the United States Forest Service and later refined by the Bureau of

- 42 Land Management.
- 43

#### 1 4.4.1.3 Results of Records Searches, Field Surveys, and Consultation

2 3

This section discusses the results of the records searches, field surveys, and Native American consultation.

4 5

6 Cultural Resources

#### 7 Records Searches and Field Surveys

Records searches identified at least 133 past cultural resource studies that had been conducted
within 0.5 mile of the proposed project area, and at least 34 studies that had been conducted for
areas directly within the proposed project area (Williams 2015a). These past studies identified a
total of at least 44 cultural resources within a 0.5-mile radius of the proposed project area,

12 including the Mesa Substation itself. These resources include at least 40 historic-era resources, one

- 13 prehistoric resource, and three multi-component resources (both historic and prehistoric).
- 14 (Williams 2015a). Within the proposed project area, there are 12 previously recorded resources, all
- 15 of which are characterized as historic era resources.
- 16

Field surveys conducted for the proposed project identified four new historic era resources; no new
prehistoric era resources were identified (Williams et al. 2014; Williams 2015a, 2015b).

19

#### 20 Mesa 500-kV Substation Site Area, including Staging Yards 1, 2, and 3

21 Records search results indicated seven historic era sites in the proposed Mesa Substation site area,

22 including areas immediately adjacent to the substation where transmission, subtransmission, and

23 distribution line work would occur. The seven sites and their corresponding resource numbers are

24 presented in Table 4.4-1, along with the components of the Mesa Substation complex. Of the seven

25 previously recorded sites, six were re-located during field surveys, but one no longer exists because

26 it was removed during construction of the TRTP. All six existing sites are historic; no prehistoric

- sites were identified during record searches conducted for the proposed project.
- 28

29 Several distribution circuits that would be reconfigured as part of the proposed project were also

30 identified on the site; all but two are not old enough to be eligible resources. The remaining two

31 (Brookline and Highcliff 16-kV Distribution Lines) were recommended not eligible. The Mesa

- 32 Substation complex was previously determined ineligible (Williams 2014). Several electrical
- 33 infrastructure facilities (subtransmission and distribution lines) are also located at the Mesa
- 34 Substation site. Some were previously studied for another SCE project, and many more were

35 studied for the proposed project. All facilities were all summarized in a 2014 report prepared for

- the proposed project (Williams 2014). These facilities are listed in Table 4.4-1.
- 37

38 Three additional historic era resources were newly identified during field surveys of the Mesa

39 Substation site area for the proposed project. These historic era resources include three buildings

40 located at 440 Potrero Grande Drive that were constructed more than 45 years ago. The buildings'

- 41 plans, architectural features, conditions, and historical integrity were noted, and California
- 42 Department of Parks and Recreation (DPR) 523 site records were prepared to document the
- 43 survey. None of the buildings were recommended as eligible for listing on CRHR or the NRHP
- 44 (Williams et al. 2014) and the CPUC has no evidence to conclude that they are otherwise considered
- 45 historical resources under CEQA.

| Resource    | Description   | NRHP/CRHR Eligibility                    |
|-------------|---|--|
| P-19-186876 | Antelope–Mesa 220-kV Transmission Line*             | Not eligible; removed during             |
|             |   | construction of TRTP                     |
| P-19-190502 | Mesa–Anita–Eaton 66-kV Subtransmission Line*        | Not eligible                             |
|             | (portions rebuilt for TRTP)                         |  |
| P-19-190503 | Mesa-Ravendale-Rush 66-kV Subtransmission Line*     | Not eligible                             |
|             | (portions rebuilt for TRTP)                         |  |
| P-19-190504 | Rio Hondo-Amador-Jose-Mesa 66-kV Subtransmission    | Not eligible                             |
|             | Line* (portions rebuilt for TRTP)                   |  |
| P-19-190505 | Walnut–Mesa 220-kV Transmission Line*               | Not eligible                             |
| P-10-190508 | Walnut-Hillgen-Industry-Mesa-Reno 66-kV             | Not eligible                             |
|             | Subtransmission Line* (portions rebuilt under TRTP) |  |
| -           | Mesa-Rush No. 2 66 kV Subtransmission Line*         | Not eligible                             |
|             | (portions rebuilt under TRTP)                       | NT ( 11 11 1                             |
| -           | Mesa-Narrows 66-KV Subtransmission Line* (portions  | Not eligible                             |
|             | Conton Maga 220 by Subtrangmission Ling*            | Natalizible                              |
| -           | Eagle Book Mage 220 kV Subtransmission Line         | Not eligible<br>Recommanded not eligible |
| -           | Lagie Rock-Mesa 220-RV Subtransmission Line         | Recommended not eligible                 |
| -           | Lino  | Recommended not engible                  |
|             | Mesa-Newmark-Ramona 66-kV Subtransmission Line      | Recommended not eligible                 |
|             | Mesa-Repetto-Wahash 66-kV Subtransmission Line      | Recommended not eligible                 |
|             | Mesa-Newmark No. 1.66-kV Subtransmission Line       | Recommended not eligible                 |
| -           | Mesa-Newmark No. 2 66-kV Subtransmission Line       | Recommended not eligible                 |
| -           | Mesa-Rosemead No. 1 66-kV Subtransmission Line      | Recommended not eligible                 |
| -           | Mesa-Rosemead No. 2 66-kV Subtransmission Line      | Recommended not eligible                 |
| -           | Mesa-Rush No. 3 66-kV Subtransmission Line          | Recommended not eligible                 |
| -           | Mesa–San Gabriel 66-kV Subtransmission Line         | Recommended not eligible                 |
| -           | Goodrich-Laguna Bell 220-kV Subtransmission Line    | Recommended not eligible                 |
| -           | Laguna Bell–Rio Hondo 220-kV Subtransmission Line   | Recommended not eligible                 |
| -           | Lighthipe–Mesa 220-kV Subtransmission Line          | Recommended not eligible                 |
| -           | Mesa–Redondo 220-kV Subtransmission Line            | Recommended not eligible                 |
| -           | Mesa-Vincent 220-kV Subtransmission Line            | Recommended not eligible                 |
| -           | Brookline 16-kV Distribution Line                   | Recommended not eligible                 |
| -           | Highcliff 16-kV Distribution Line                   | Recommended not eligible                 |
| -           | Mesa Substation Complex*                            | Not eligible                             |
| -           | 440 Potrero Grande Drive Building A                 | Recommended not eligible                 |
| -           | 440 Potrero Grande Drive Building B                 | Recommended not eligible                 |
| -           | 440 Potrero Grande Drive Building C                 | Recommended not eligible                 |

Table 4.4-1 Historic Resources Located within the Mesa Substation Site Area

Source: Williams et al. 2014, Williams 2014.

Key:

- CRHR California Register of Historical Resources
- kV kilovolt

NRHP National Register of Historic Places

- Tehachapi Renewable Transmission Project TRTP \*
- Evaluated for previous SCE project
- 1

#### 2 **Telecommunications Routes**

3 Records search and past survey results indicated 12 sites within the proposed project area for the

- 4 Telecommunications Routes, as detailed in Table 4.4-2. Six of these sites had been identified during
- 5 past cultural resources inventories conducted for the TRTP (P-19-186876, P-19-190502, P-19-

- 1 190503, P-19-190504, P-19-190505, and P-19-190508). One resource—the Antelope-Mesa 220-kV
- 2 Transmission Line (P-19-186876)—was removed during construction of the TRTP and therefore is
- 3 not considered further in this analysis. The other six previously documented sites fell within the
- 4 proposed project area for Telecommunication Route 3 that was not surveyed during the cultural
- 5 resource inventories conducted for the TRTP. These sites include the Montebello Oil Field, the San
- 6 Juan Matias Sanchez Adobe, the Mission Vieja Plaque, the Whittier Narrows Dam Recreation Area,
- 7 the Temple School, and one of six Siphon Road Towers.
- 8

Table 4.4-2Historic Resources Located within the Proposed Project Area of the<br/>Telecommunications Routes

|             |   | Telecommunication |   |
|-------------|---|-------------------|---|
| Resource    | Description   | Route             | NRHP/CRHR Eligibility   |
| P-19-003813 | Montebello Oil Field  | 3                 | Not evaluated   |
| P-19-178617 | Juan Matias Sanchez Adobe   | 3                 | Listed in CRHR  |
| P-19-186540 | Mission Vieja Plaque  | 3                 | Listed in CRHR  |
| P-19-186889 | Whittier Narrows Dam Recreation<br>Area   | 3                 | Not evaluated   |
| P-19-186876 | Antelope–Mesa 220-kV Transmission<br>Line*  | 1                 | Not eligible; removed<br>during construction of<br>TRTP                                     |
| P-19-190334 | Temple School   | 3                 | Recommended NRHP<br>eligible as local<br>landmark   |
| P-19-190502 | Mesa–Anita–Eaton 66-kV<br>Subtransmission Line* (portions<br>rebuilt under TRTP)                  | 1                 | Not eligible  |
| P-19-190503 | Mesa–Ravendale–Rush 66-kV<br>Subtransmission Line* (portions<br>rebuilt under TRTP)               | 1                 | Not eligible  |
| P-19-190504 | Rio Hondo–Amador–Jose-Mesa 66-kV<br>Subtransmission Line* (portions<br>rebuilt under TRTP)        | 1                 | Not eligible  |
| P-19-190505 | Walnut–Mesa–220-kV Transmission<br>Line*  | 3                 | Not eligible  |
| P-19-190507 | SCE Siphon Road Towers  | 3                 | Not eligible; tower<br>previously reported in<br>proposed project area<br>has been removed. |
| P-10-190508 | Walnut–Hillgen–Industry–Mesa-Reno<br>66-kV Subtransmission Line*<br>(portions rebuilt under TRTP) | 2b and 3          | Not eligible  |

Source: Williams 2015a

Key:

CRHR California Register of Historical Resources

kV kilovolt

NRHP National Register of Historic Places

TRTP Tehachapi Renewable Transmission Project

\* Evaluated for previous SCE project

9

10 During surveys conducted January 5 and 6, 2015, for the proposed project, elements of four of the

11 six previously recorded sites were encountered in the proposed project area for

12 Telecommunication Route 3 (Williams 2015a). No evidence of the Montebello Oil Field (P-19-

13 003813) was observed in the proposed project area, and the Siphon Road Tower (P-19-19057)

- 1 previously reported in the proposed project area has been removed; therefore these two sites are
- 2 not considered further in this analysis. All previously recorded sites from the results of the record
- 3 search and revisited during pedestrian surveys are historic; no prehistoric sites were identified
- 4 during surveys or in the record search conducted for the proposed project.
- 5
- 6 Telecommunications Route 1 is located on land that was part of Rancho Potrero Grande. The
- 7 Gabrieleño Band of Mission Indians/Kizh (Kit'c) Nation identified this area as culturally sensitive.
- 8

#### 9 North Area and Staging Yard 4

- 10 Records search and past survey results indicate that there is one historic site located at Goodrich
- 11 Substation in Pasadena, as listed in Table 4.4-3. No prehistoric sites are known to occur within the
- 12 proposed project area at Goodrich Substation based on the survey and record searches that were
- 13 conducted in the Goodrich Substation survey area. The Goodrich Substation itself is not of sufficient
- 14 age to be eligible for the NRHP or CRHR.
- 15

#### Table 4.4-3 Historic Resources Located within Goodrich Substation Site Area

| Resource                     | Description                            | NRHP/CRHP Eligibility |
|------------------------------|--|-----------------------|
| P-19-190502                  | Mesa-Anita-Eaton 66 kV Subtransmission | Not eligible          |
|                              | Line* (portions rebuilt under TRTP)    |                       |
| Source: Williams et al. 2014 |  |                       |
| Key:                         |  |                       |
| CRHR California Regi         | ster of Historic <u>al</u> Resources   |                       |

CRHR Californi kV kilovolt

NRHP National Register of Historic Places

TRTP Tehachapi Renewable Transmission Project

\* Evaluated for previous SCE project

#### 16

# 17 Existing Substation Modifications

18 The proposed project would require equipment replacements and upgrades within the perimeters

19 of several existing substations<sup>3</sup> in addition to the Mesa and Goodrich Substations. The applicant

20 conducted a review of each of these substations and assessed whether they had been evaluated for

21 NRHP/CRHR eligibility (Williams 2014). Additionally, Historical Resource Analysis

- 22 Reports/Historic Property Survey Reports were prepared to evaluate NRHP/CRHR eligibility for
- 23 the Laguna Bell and Lighthipe Substation Properties (Chiang and Tinsley Becker 2014a); the
- 24 Repetto and San Gabriel Substation Properties (DeBiase and Tinsley Becker 2015); and the Anita,
- 25 Fairfax, Garfield, and Newmark Substation Properties (Tinsley Becker et al. 2015). The Amador,
- 26 Hillgen, Industry, and Jose Substations have not been evaluated. Table 4.4-4 lists each substation

27 property where equipment replacements and/or upgrades would occur and its NRHP/CRHR

- eligibility status. The Mira Loma Substation is not of sufficient age to be eligible for the NRHP or
- 29 CRHR.
- 30

#### Table 4.4-4 Historic Resources at Existing Substations

| Description           | NRHP/CRHP Eligibility   |
|-----------------------|---|
| Anita Substation      | Recommended Not Eligible  |
| Center Substation     | Recommended Not Eligible  |
| Eagle Rock Substation | Recommended Eligible (main substation building and entry pillars individually eligible and eligible as contributing |

<sup>&</sup>lt;sup>3</sup> Work at Hillgen, Industry, Jose, and Amador Substations would be limited to conducting in-service testing, and these substations were therefore not evaluated for eligibility.

| Description            | NRHP/CRHP Eligibility   |
|------------------------|---|
|                        | elements to Big Creek Hydroelectric District)                     |
| Eaton Substation       | Recommended Not Eligible  |
| Fairfax Substation     | Recommended Eligible (main substation building)                   |
| Garfield Substation    | Recommended Not Eligible  |
| Laguna Bell Substation | Recommended Eligible (substation building and warehouse building) |
| Lighthipe Substation   | Recommended Eligible (substation property entrance                |
|                        | pillars, main substation building, pump house and paint           |
|                        | and oil storage house, water supply pump house)                   |
| Narrows Substation     | Recommended Not Eligible  |
| Newmark Substation     | Recommended Eligible (substation building)                        |
| Pardee Substation      | Recommended Not Eligible  |
| Ravendale Substation   | Recommended Not Eligible  |
| Redondo Substation     | Recommended Not Eligible  |
| Repetto Substation     | Recommended Not Eligible  |
| Rio Hondo Substation   | Recommended Not Eligible  |
| Rosemead Substation    | Recommended Not Eligible  |
| Rush Substation        | Recommended Not Eligible  |
| San Gabriel Substation | Recommended Eligible (substation building)                        |
| Vail Substation        | Recommended Not Eligible  |
| Vincent Substation     | Recommended Not Eligible  |
| Wabash Substation      | Recommended Not Eligible  |
| Walnut Substation      | Recommended Not Eligible  |

Table 4.4-4 Historic Resources at Existing Substations

Sources: Williams 2014; Chiang and Tinsley Becker 2014a, 2014b; DeBiase and Tinsley Becker 2015, Tinsley Becker et al. 2015

Key:

CRHR California Register of Historical Resources

NRHP National Register of Historic Places

#### 2 South Area

3 No historic or archaeological sites were located in a records search or during surveys where the

streetlight source conversion would occur in Bell Gardens or where a transmission structure would
 be replaced in the City of Commerce (Williams 2015a).

6

1

## 7 Staging Yards 5, 6, and 7

8 There are no resources at Staging Yard 5, two historic-era resources at Staging Yard 6, and one

9 historic-era site at Staging Yard 7, as listed in Table 4.4-5. These sites were identified during

surveys. The site at Staging Yard 7 was newly documented during a survey for the proposed
 project. Sites found in records searched that are outside the staging yards are not included since all

11 project. Sites found in records searched that are outside the staging yards are not included since an staging activities would take place inside the staging yards. No prehistoric sites were located in

- 13 surveys or in record searches.
- 14

| Resource    | Description   | Staging Yard | Eligibility                 |
|-------------|---|--------------|-----------------------------|
| -           | Eagle Rock–Mesa 220-kV Subtransmission Line   | 6            | Recommended not<br>eligible |
| P-19-190503 | Mesa-Ravendale-Rush 66-kV Subtransmission<br>Line* (portions rebuilt under TRTP)                                | 6            | Not eligible                |
| SAY-S-1     | Footings for the KRLA radio station antenna<br>tower; tower not present. Shack with engine<br>and water heater. | 7            | Not evaluated               |

Table 4.4-5 Historic Resources Located at Proposed Staging Yards

Source: Williams 2015b. 2014.

Key:

kV kilovolt

TRTP Tehachapi Renewable Transmission Project

Evaluated for previous SCE project

1 2

#### Native American Consultation

3 This section details results of Native American consultation, which included consultation with the 4 NAHC and outreach to individual tribes.

5 6

7

8

9

10

11

**Sacred Lands File Searches.** The NAHC responded to SCE's first request for a Sacred Lands File search on October 7, 2014 and reported that that no resources were recorded in the NAHC Sacred Lands Inventory File in proximity to components of the proposed project. However, in response to SCE's second request for a Sacred Lands File search, the NAHC on June 22, 2015, indicated that potential Native American Heritage resources exist in the Los Angeles United States Geological Survey quadrangle. The letter said SCE should contact the Tongva Ancestral Territorial Tribal Nation for further information.

12 13

14 Tongva Ancestral Territorial Tribal Nation. In an e-mail dated January 28, 2015, John Tommy 15 Rosas, Tribal Administrator for the Tongva Ancestral Territorial Tribal Nation asked whether Federal Communication Commission permits were required for the project and requested that a 16 17 specific firm provide monitors for any excavation. SCE responded that a Federal Communication

18 Commission permit was not required for the project.

19

20 Gabrielino/Tongva San Gabriel Band of Mission Indians. SCE Archaeologist Amanda Cannon 21 held a phone discussion with Anthony Morales of the Gabrielino/Tongva Band of Mission Indians 22 regarding the project. Mr. Morales expressed concerns that the cultural resource surveys for the Tehachapi Renewable Transmission Project were too old to be used for the proposed project and 23 24 that they were conducted without the participation of the Gabrielino/Tongava Band. In addition, he 25

- indicated the Montebello area is culturally sensitive, containing remains of past villages and 26 mission remains.
- 27

28 Gabrieleño Band of Mission Indians/Kizh (Kit'c) Nation. On January 26, 2015, Andrew Salas, 29 Chairman of the Gabrieleño Band of Mission Indians/Kizh (Kit'c) Nation, replied to SCE's outreach 30 letter in an e-mail listing four sacred sites—Siba, Houtnga, Isankanga, and Ouiichi—and stated that they believe the project would impact the sites.

- 31 32
- 33 Mr. Salas also responded to the CPUC's Notice of Preparation for the proposed project. He stated
- 34 that the area is sensitive in that it is a traditional Gabrieleño territory. Mr. Salas requested that a
- 35 Native American monitor be on site during ground disturbing activities. In a subsequent email, Mr.

- 1 Salas provided a map of Rancho Potrero Grande, which was owned by Manuel Perez, a Gabrieleño
- 2 native. Mr. Salas stated the area was a village site.
- 3

4 During the CPUC's conference call with Mr. Salas, the Tribal Archaeologist, and a member of the

- 5 tribe, the Tribal Archeologist discussed areas of known and potential resources within the general
- 6 location of the proposed project. In addition, the archeologist noted that the tribe had submitted a
- 7 request to the NAHC to document an area within the vicinity of the proposed project as Sacred Land
- and indicated that the request also included areas of known and potential resources. The CPUC
- 9 requested that the tribe provide this information to its qualified archeologist, Dr. G. T. Gross, for
- 10 review as part of the EIR preparation.
- 11
- 12 The information provided by the Tribe identified a proposed Sacred Land area in the vicinity of the
- 13 proposed Mesa Substation site and proposed Telecommunications Routes 1 and 3. <u>However, the</u>
- 14 <u>exact location of the Sacred Land area is confidential and not subject to inclusion in this EIR under</u>
- 15 <u>CEQA Guidelines section 15120(d) and Government Code section 6254(r)</u>. In addition, one
- 16 archaeological resource that was not identified in record searches and surveys was identified
- 17 within the proposed Sacred Land area in the materials provided by the Tribe. The resource is
- 18 located over one mile away from the nearest project component and therefore was outside of the 19 proposed project's records search area. The remainder of the identified archaeological resources
- proposed project's records search area. The remainder of the identified archaeological resources ware identified during project records searches
- 20 were identified during project records searches.
- 21

# 22 Paleontological Resources

## 23 Record Searches

- As noted above, a record search was conducted at the Natural History Museum of Los Angeles
- 25 County. The search included a review of mapped resources known to exist in the study area and an
- 26 analysis of proposed project maps, engineering drawings, and technical data. The potential for
- 27 paleontological resources to occur within the proposed project was determined on the basis of a
- 28 paleontological review of the proposed project area and mapped geological units that underlie the
- 29 proposed project components As part of the analysis, the geologic units in the proposed project
- 30 vicinity were classified according to the PFYC System which ranks potential to uncover resources
- on a scale of 1-5 (1 being lowest potential and 5 being highest potential) (BLM 2007). The PFYC
- 32 System ranking is explained in Table 4.4-6.

# 33

# Table 4.4-6 Potential Fossil Yield Classification (PFYC) System Classes

| Class           | Potential  |
|-----------------|--|
| Class 1         | Very Low. Not likely to contain recognizable fossil remains.                                       |
| Class 2         | Low. Not likely to contain vertebrate fossils or scientifically significant nonvertebrate fossils. |
| Class 3         | Moderate or unknown. Infrequent or unknown occurrence of fossils.                                  |
| Class 4         | High. Contain a high occurrence of significant fossils.  |
| Class 5         | Very High. Consistently and predictably produce vertebrate fossils or scientifically significant   |
|                 | fossils.   |
| Source BLM 2007 |  |

Source: BLM 2007

34

# 35 Survey Results

- 36 On June 12, 2014, a pedestrian survey was conducted within the proposed project area in the
- 37 vicinity of Mesa and Goodrich substations where ground-disturbing activities may occur. In
- 38 December 2014, pedestrian surveys were conducted for accessible areas in the vicinity of the
- 39 additional transmission, subtransmission, distribution, and telecommunications work associated

- 1 with the proposed project. The surveys included a thorough examination of the ground surface to
- 2 determine the presence of surface fossils and to evaluate the potential for occurrences of
- 3 subsurface fossils that could be unearthed during construction.
- 4
- 5 According to the geologic maps of the Los Angeles and Pasadena quadrangles, four mapped geologic
- 6 units that range in age from early Pliocene to Holocene are present in the vicinity of the proposed
- 7 project. Of these, one geologic unit (Quaternary surficial deposits of Holocene age) has a very low
- 8 paleontological sensitivity (PFYC Class 2); one geologic unit (Quaternary surficial deposits of
- 9 Pliocene age) has moderate paleontological sensitivity (PFYC Class 3); and two geologic units
- 10 (Fernando Formation upper and lower member of Pliocene age) have high paleontological
- sensitivity (PFYC Class 4). Geologic sensitivity by project component is shown in Table 4.4-7. 11
- Characteristics of the formations identified within the proposed project area are discussed in detail 12
- 13 in Section 4.4.1.3, "Regional Setting."
- 14

|                             |   | Paleontological        |
|-----------------------------|---|------------------------|
| Project Components          | Formation Name (age)  | Potential (PFYC Class) |
| Proposed Main Project Area  |   |                        |
| Mesa 500-kv Substation      | Young Alluvial Fan Deposits, undivided  | 2 & 3 (low-moderate)   |
|                             | (Holocene to late Pleistocene), Old Alluvial  |                        |
|                             | Fan Deposits Unit 2 (late Pleistocene)  |                        |
|                             | Fernando Formation (Pliocene)   | 4 (high)               |
| 500-kV Transmission Lines   | Old Alluvial Fan Deposits Unit 2 (late<br>Pleistocene)  | 3 (moderate)           |
|                             | Fernando Formation (Pliocene)   | 4 (high)               |
| 220-kV Transmission Lines   | Young Alluvial Fan Deposits, undivided<br>(Holocene to late Pleistocene)  | 2 & 3 (low-moderate)   |
|                             | Old Alluvial Fan Deposits Unit 1 (middle<br>Pleistocene), Old Alluvial Fan Deposits Unit 2<br>(late Pleistocene)  | 3 (moderate)           |
|                             | Fernando Formation (Pliocene)   | 4 (high)               |
| 66-kV Subtransmission Lines | Young Alluvial Fan Deposits, undivided<br>(Holocene to late Pleistocene),   | 2 & 3 (low-moderate)   |
|                             | Old Alluvial Fan Deposits Unit 2 (late<br>Pleistocene)  | 3 (moderate)           |
|                             | Fernando Formation (Pliocene)   | 4 (high)               |
| 16-kV Distribution Lines    | Young Alluvial Fan Deposits, undivided<br>(Holocene to late Pleistocene)  | 2 & 3 (low-moderate)   |
|                             | Fernando Formation (Pliocene)   | 4 (high)               |
| Telecommunications Route 1  | Young Alluvial Fan Deposits, undivided<br>(Holocene to late Pleistocene),   | 2 & 3 (low-moderate)   |
|                             | Old Alluvial Fan Deposits Unit 2 (late<br>Pleistocene),<br>Old Alluvial Fan Deposits Unit 3 (late<br>Pleistocene) | 3 (moderate)           |
|                             | Fernando Formation (Pliocene)   | 4 (high)               |

#### Table 4.4-7 Paleontological Resource Potential by Project Feature

| <u>v</u>  | , ,  | Delegatelegical        |  |
|---|--|------------------------|--|
|   |  | Paleontological        |  |
| Project Components  | Formation Name (age)   | Potential (PFYC Class) |  |
| Telecommunications Route 2  | Old Alluvial Fan Deposits Unit 1 (middle<br>Pleistocene), Old Alluvial Fan Deposits Unit 2<br>(late Pleistocene), Old Alluvial Fan Deposits<br>Unit 3 (late Pleistocene) | 3 (moderate)           |  |
|   | Fernando Formation (Pliocene)  | 4 (high)               |  |
| Telecommunications Route 3  | Alluvium and Marine Deposits (Quaternary–<br>Holocene and Pleistocene),  | 2 & 3 (low-moderate)   |  |
|   | Old Alluvial Fan Deposits Unit 2 (late<br>Pleistocene),<br>Old Alluvial Fan Deposits Unit 3 (late<br>Pleistocene)  | 3 (moderate)           |  |
| North Area  |  |                        |  |
| Temporary 220-kV Transmission<br>Structure (Line loop-in at<br>Goodrich Substation)                         | Young Alluvial Fan Deposits Unit 3<br>(Quaternary)   | 2 (low)                |  |
| Goodrich Substation   | Young Alluvial Fan Deposits Unit 3<br>(Quaternary)   | 2 (low)                |  |
| South Area  |  |                        |  |
| 220-kV Transmission Structure<br>(Replacement Tower on<br>Goodrich-Laguna Bell 220-kV<br>Transmission Line) | Old Alluvial Fan Deposits Unit 4 (Quaternary)  | 3 (moderate)           |  |
| Street Light Source Line<br>Conversion in Loveland Street   | Young Alluvial Fan and Valley Deposits, Sand   | 2 (low)                |  |
| Minor Modifications at Existing Substations <sup>(1)</sup>  |  |                        |  |
| Vincent Substation  | Permian to Tertiary; mostly Mesozoic intrusive rocks   | 1 (Very Low)           |  |
| Walnut Substation   | Pliocene to Holocene terrace deposits  | 2 & 3 (low-moderate)   |  |
| Pardee Substation   | Pliocene to Holocene terrace deposits,<br>Miocene to Pleistocene sedimentary rocks   | 2 & 3 (low-moderate)   |  |

#### Table 4.4-7 Paleontological Resource Potential by Project Feature

Sources: CGS 2007, USGS 2005, BLM 2007.

Note:

1 2

3

5

(1) Construction proposed at substations not included in this table will not require grading or excavation and will have no effect on paleontological resources. Therefore, they are not included in the above table or following analysis. Key:

kV kilovolt

PFYC Potential Fossil Yield Classification

#### 4.4.2 Regulatory Setting

#### 4 4.4.2.1 Federal

#### 6 National Historic Preservation Act (Section 106)

7 The National Historic Preservation Act (NHPA) set historic preservation as a national policy and

8 also began a multifaceted program to encourage the achievement of preservation goals at the

9 federal, state, and local levels. The NHPA established the National Register, defined the positon of

10 SHPO and a system of state-level review boards, provided assistance to Native American Tribes in

- 1 preserving their cultural resources, and established the Advisory Council on Historic Preservation.
- 2 Each State Office of Historic Preservation together with the SHPO implements the policies of the
- 3 NHPA at the state level.
- 4

5 Section 106 of the NHPA is the basis for determining significance of impacts to cultural resources 6 for projects with a federal nexus. Sections of the proposed project likely would not require a permit 7 from the United States Army Corps of Engineers under Section 408 of the Rivers and Harbors Act 8 and Section 404 of the Clean Water Act (see also section 4.3, "Biological Resources") for potential 9 impacts to Waters of the United States. Issuance of such a permit would require federal agency 10 compliance with provisions of Section 106 of the NHPA. To comply with Section 106, the federal agency must consider effects of the proposed project on historic properties that are on, or eligible 11 12 for listing on, the National Register. In addition, the Advisory Council on Historic Preservation must be given the opportunity to comment on the proposed project and its potential effects on historic 13 14 properties. Section 106 requires public input in the decision making process. Section 106 15 compliance would be triggered during the federal permitting process, and the federal permitting 16 agency would be responsible for SHPO and Native American consultation pursuant to Section 106. 17 Because Section 106 compliance is a federal requirement and would be conducted separately from 18 the CEQA environmental review documented in this EIR, compliance with Section 106 is not 19 discussed further in this document. 20 21 **National Register of Historic Places** 22 The NHPA established the National Register as "an authoritative guide to be used by Federal, State, 23 and local governments, private groups and citizens to identify the Nation's cultural resources and 24 indicate what properties should be considered for protection from destruction or impairment" (36 25 Code of Federal Regulations § 60.2). The National Register recognizes both historic period and 26 prehistoric archaeological properties that are significant at the national, state, and local levels. To 27 be eligible for listing on the National Register, a resource must be considered significant according 28 to the National Register listing criteria: 29 30 1. It is associated with events that have made a significant contribution to the broad patterns 31 of our history. 32 2. It is associated with the lives of persons who are significant in our past. 33 3. It embodies the distinctive characteristics of a type, period, or method of construction; 34 represents the work of a master; possesses high artistic values; or represents a significant 35 and distinguishable entity whose components may lack individual distinction. 36 4. It has yielded, or may be likely to yield, information important in prehistory or history. 37 38 Unless the property possesses exceptional significance, it must be at least 50 years old to be eligible 39 for listing. In addition to meeting the significance criteria, a property must have integrity. The 40 National Register recognizes seven qualities that, in various combinations, define integrity. To retain historic integrity, a property must possess several, and usually most, of these seven aspects. 41 The seven factors that define integrity are location, design, setting, materials, workmanship, feeling, 42 43 and association. Cemeteries, birthplaces, or graves of historic figures; properties owned by religious institutions or used for religious purposes; structures that have been moved from their original 44

- 45 locations; reconstructed historic buildings; and properties that are primarily commemorative in
- 46 nature are not considered eligible for the National Register unless they satisfy certain conditions.

#### 1 4.4.2.2 State

#### 3 California Office of Historic Preservation and State Historic Preservation Officer

4 The State of California implements the NHPA through its statewide comprehensive cultural

- 5 resources surveys and preservation programs. The California Office of Historic Preservation
- 6 implements the policies of the NHPA on a statewide level. The Office of Historic Preservation also
- 7 maintains the California Historic Resources Inventory. The SHPO is an appointed official who
- 8 implements historic preservation programs within the state's jurisdictions. The California Office of
- 9 Historic Preservation maintains the CRHR under the direction of the SHPO and the State Historical
- 10 **Resources** Commission. 11

#### 12 California Register of Historical Resources

13 The CRHR is an authoritative listing and guide to be used by State and local agencies, private

- 14 groups, and citizens in identifying the existing historical resources of the State and to indicate
- 15 which resources deserve to be protected, to the extent prudent and feasible, from substantial
- adverse change (California PRC § 5024.1(a)). The criteria for eligibility for the CRHR are based on 16
- 17 National Register criteria (California PRC § 5024.1(b)):
- 18

2

19 1. Is associated with events that have made a significant contribution to the broad patterns of 20 California's history and cultural heritage.

- 21 2. Is associated with the lives of persons important in our past.
- 22 3. 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. 23
- 24 4. Has yielded, or may be likely to yield, information important in prehistory or history.
- 25

It is possible, however, that resources are still eligible for listing on the CRHR even if they do not 26

27 retain sufficient integrity to meet National Register listing criteria. The statute deems that certain

28 resources are automatically included in the CRHR, including California properties that were

- 29 formally determined eligible for or are listed in the National Register.
- 30

#### 31 **California Environmental Quality Act and Guidelines**

- 32 Section 21084.1 of the PRC establishes that a substantial adverse effect on an historical resource
- 33 may have a significant effect on the environment. Under CEQA Guidelines section 15064.5, an
- 34 historical resource includes: (1) a resource listed in, or determined to be eligible by the State
- 35 Historical Resources Commission, for listing in the CRHR; (2) a resource included in a local register
- 36 of historical resources; and (3) any object, building, structure, site, area, place, record, or
- 37 manuscript which a lead agency determines to be historically significant or significant in the
- 38 architectural, engineering, scientific, economic, agricultural, educational, social, political, military,
- 39 or cultural annals of California by the lead agency, provided the lead agency's determination is
- 40 supported by substantial evidence in light of the whole record. Archaeological resource may be
- 41 considered an historical resource. CEQA Guidelines section 15126.4(b) establishes mitigation
- 42 guidelines for effects on historical resources and historical resources of an archaeological nature.
- 43
- 44 Archaeological resources may also be historical resources. Under CEQA Guidelines section
- 15064.5(c), if an archaeological resource does not meet the criteria for a historical resource, then 45
- 46 the resource may be treated in accordance with the provisions of PRC section 21083.2 if it is a

| 1<br>2<br>3<br>4<br>5<br>6   | unique" archaeological resource. PRC section 21083.2 provides for the protection of "unique<br>rchaeological resources" as defined in subsection (g) of section 21083.2. If it can be demonstrate<br>hat a project would cause damage to a unique archaeological resource, the lead agency may<br>equire reasonable efforts to preserve in place or avoid the resources. This section also establishe<br>nitigation requirements for the excavation (data recovery) of unique archaeological resources.   |
|--|---|
| 7<br>8<br>9  | f an archaeological resource is neither a unique archaeological nor historical resource, effects of roposed project on the resource would not be considered a significant effect.   |
| 10   | dditional State Laws Regarding Archaeological and Native American Cultural Resources  |
| 11<br>12   | alifornia law extends additional protections to Native American cultural resources:   |
| 13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24 | • California PRC sections 5097.91 through 5097.991 pertain to the establishment and authorities of the NAHC. These sections also prohibit the acquisition or possession of Nata American artifacts or human remains taken from a Native American grave or cairn, excep in accordance with an agreement reached with the NAHC, and provide for Native America remains and associated grave artifacts to be repatriated. Subsections 5097.98(b) and (e) require a landowner on whose property Native American human remains are found to lin further development activity in the vicinity until conferring with the most likely descendants (as identified by the NAHC) to consider treatment options. Because of the importance of human remains to the Native American community, Health and Safety Code sections 7050 through 7054 make the disturbance and removal of human remains felony offenses. PRC section 65092 provides for the notification of California Native American tribes who are on the contact list maintained by the NAHC about construction projects. |
| 25<br>26<br>27   | • California PRC sections 5097.993 through 5097.994 make it a misdemeanor crime for the unlawful and malicious excavation, removal, or destruction of Native American archaeological or historical sites on public or private lands.  |
| 28<br>29<br>30   | • Penal Code section 622 establishes as a misdemeanor the willful injury, disfiguration, defacement, or destruction of any object or thing of archaeological or historical interest o value, whether situated on private or public lands.   |
| 31<br>32<br>33   | • California PRC section 6254(r) protects Native American graves, cemeteries, and sacred places maintained by the NAHC by protecting records of such resources from public disclosure under the California Public Records Act.  |
| 34<br>35<br>36   | .4.2.3 Regional and Local   |
| 37   | ounty of Los Angeles General Plan   |
| 38<br>39<br>40   | he Conservation and Natural Resources Element of the County of Los Angeles General Plan<br>County of Los Angeles 2015) contains the following goal pertaining to cultural resources:  |
| 41   | • Goal C/NR 14 - Protected historic, cultural, and paleontological resources.   |

1

#### City of Monterey Park General Plan

The Resources Element of the City of Monterey Park General Plan (City of Monterey Park 2001)
contains the following goal pertaining to cultural resources:

• Goal 3 - Preserve the historical resources in Monterey Park.

#### 7 City of Commerce General Plan

The following implementation program from the Resource Management Element of the City of Commerce General Plan (City of Commerce 2008) pertains to cultural resources:

**Cultural Resource Management.** Should archaeological or paleontological resources be encountered during excavation and grading activities, all work would cease until appropriate salvage measures are established. Appendix K<sup>4</sup> of the CEQA Guidelines shall be followed for excavation monitoring and salvage work that may be necessary. Salvage and preservation efforts will be undertaken pursuant to Appendix K requirements outlined in CEQA.

#### 17 City of Bell Gardens General Plan

The Conservation Element of the City of Bell Gardens General Plan (City of Bell Gardens 1995)contains one program relevant to cultural resources:

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The City shall stipulate in all major project approvals, that should archaeological or paleontological resources be uncovered during excavation and grading activities, all work would cease until appropriate salvage measures are established. Appendix K of the CEQA Guidelines shall be followed for excavation monitoring and salvage work that may be necessary.

#### 26 City of Pasadena General Plan

The following goal from the Historical/Cultural Element of the City of Pasadena General Plan (City
of Pasadena not dated) is relevant to cultural resources:

Preservation and enhancement of the city's cultural and historic buildings, streets, and districts, not merely as gentle reminders of a pleasant past, but also as relevant and unique alternatives for the present and future—a source of community identity, social, ecological, and economic vitality.

#### 34 **City of Industry General Plan**

The following policy from the Resource Management Element of the City of Industry General Plan(City of Industry 2014) pertain to cultural resources:

- 37 38
- **Policy RM5-2** Support the proper handling and documentation of historically or
- archeologically significant sites, burial sites, and objects that may be discovered.
- 39 40

<sup>&</sup>lt;sup>4</sup> Appendix K was removed from the CEQA Guidelines effective January 1, 1999. Guidance is now contained in CEQA Guidelines sections 15064.5 and 15126.4.

| 1                                      | City of                       | Santa Clarita General Plan   |
|--|-------------------------------|--|
| 2<br>3<br>4                            | The fol<br>Clarita            | llowing goal and objective from the Conservation and Open Space Element of the City of Santa<br>General Plan (City of Santa Clarita 2011) pertain to cultural resources:   |
| 5<br>6                                 | •                             | <i>Goal CO 5 -</i> Protection of historical and culturally significant resources that contribute to community identity and a sense of history.   |
| 7<br>8<br>9                            | •                             | <b>Objective CO 5.1 -</b> Protect sites identified as having local, state, or national significance as a cultural or historical resource.  |
| 10                                     | Other (                       | General Plans  |
| 11<br>12<br>13                         | The fol<br>found              | llowing general plans were reviewed; no cultural resources policies, goals, or objectives were<br>that are relevant to the proposed project:   |
| 14                                     | •                             | City of Bell Gardens General Plan (1995)   |
| 15<br>16                               | •                             | City of Montebello General Plan (1973)   |
| 17<br>18                               | 4.4.3                         | Impact Analysis  |
| 19<br>20                               | 4.4.3.1                       | Significance Criteria  |
| 21<br>22<br>23<br>24                   | Impact<br>signific<br>project | ts on cultural and paleontological resources were evaluated according to the following cance criteria. The criteria are based on Appendix G of the CEQA Guidelines. The proposed t would cause a significant impact on cultural resources if it would:   |
| 25<br>26                               | a)                            | Cause a substantial adverse change in the significance of a known historical resource as defined in § 15064.5 or a known archaeological resource pursuant to § 15064.5.  |
| 27<br>28<br>29                         | b)                            | Cause a substantial adverse change in the significance of a previously undiscovered historical resource as defined in § 15064.5 or a previously undiscovered archaeological resource pursuant to § 15064.5.  |
| 30<br>31                               | c)                            | Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.   |
| 32<br>33                               | d)                            | Disturb any human remains, including those interred outside of formal cemeteries.  |
| 34<br>35                               | 4.4.3.2                       | Applicant Proposed Measures  |
| 36<br>37<br>38                         | The ap<br>design              | plicant has committed to the following applicant proposed measure (APM) as part of the of the proposed project:  |
| 39<br>40<br>41<br>42<br>43<br>44<br>45 | •                             | <b>APM-CUL-01: Paleontological Resources Management Plan.</b> A Paleontological Resources Management Plan would be developed for construction within areas that have been identified as having a moderate and high sensitivity for paleontological resources. The Paleontological Resources Management Plan would be prepared by a professional paleontologist in accordance with the recommendations of the Society of Vertebrate Paleontology. |

#### 1 4.4.3.3 Environmental Impacts

2

6

3 Impact CR-1: Cause a substantial adverse change in the significance of a known historical
 4 resource as defined in §15064.5 or a known archaeological resource pursuant to § 15064.5.
 5 LESS THAN SIGNIFICANT WITH MITIGATION

#### 7 Construction

#### 8 Mesa 500-kV Substation Site Area

9 None of the previously recorded historic era resources documented in this area were determined to
10 be eligible for the NRHP or CRHR. The records search conducted for the Mesa Substation site

11 indicated that there are seven historic resources at the site, including the Mesa Substation itself and

12 six historic-era transmission lines. One of the previously recorded historic era transmission lines—

13 the Antelope–Mesa 220-kV Transmission Line—was removed during construction of the TRTP. The

14 remainder of the sites were deemed ineligible for the NRHP and CRHR. The cultural resources field

15 survey conducted for the proposed project identified three previously unrecorded historic

16 resources at the substation site, which were all buildings constructed more than 45 years ago. None

of these three newly identified historic era resources were recommended as eligible for listing on
the NRHP or CRHR (Williams et al. 2014). No pre-historic resources were identified at the

19 substation site during previous studies or field surveys conducted for the proposed project.

20 Construction activities in the Mesa Substation site and nearby transmission line, subtransmission

21 line, and distribution line construction areas would not cause a substantial adverse change in the

22 significance of a known historical or archeological resource. There would be no impact.

23

#### 24 **Telecommunications Routes**

25 A records search conducted for the proposed project area of the telecommunications routes

26 indicated that there are 12 previously recorded historic resources within the proposed project area

27 of the telecommunications routes. Of the 12 previously recorded resources, six were the same

28 historic era transmission lines discussed above for the Mesa Substation site, including the Antelope-

29 Mesa 220-kV Transmission Line, which was removed during construction of the TRTP. The other

30 six previously recorded historic era resources all fall within the proposed project area of

31 Telecommunication Route 3 and include: the Montebello Oil Field, the San Juan Matias Sanchez

32 Adobe, the Mission Vieja Plaque, the Whittier Narrows Dam Recreation Area, the Temple School,

33 and one of six Siphon Road Towers. Elements of four of these resources were encountered during

34 pedestrian surveys; however, no evidence of the Montebello Oil Field was observed and the Siphon

35 Road Tower previously reported in the proposed project area of the telecommunications routes has

36 been removed (Williams 2015a). The proposed project would not affect the Montebello Oil Field or

37 Siphon Road Tower. Work adjacent to the Juan Matias Adobe, the Mission Vieja Plaque, and the

38 Temple School would consist of stringing telecommunications lines on existing poles. This would

39 not affect the significance of these two NRHP-listed and one recommended NRHP-eligible

- 40 resources, and there would be no impact.
- 41

42 Several elements of the Whittier Narrows Dam Recreation Area were observed during pedestrian

43 surveys, including a highly fragmented scatter of historic/modern debris and a single concrete

- 44 enclosure that was not previously reported on in the DPR record (Williams 2015a). The historic-era
- 45 debris and concrete enclosure found at the Whittier Narrows Dam Recreation Area site were not
- 46 evaluated for NRHP or CRHR eligibility. Installation of the telecommunications cables are not
- 47 anticipated to impact this resource because the cables would be installed on existing poles, no
- 48 ground disturbance is anticipated, and the resource boundary extends well outside of the proposed

- 1 project area. However, if this resource could not be avoided impacts could be significant if it is
- 2 found to be NRHP or CRHR eligible.
- 3
- 4 Mitigation Measure (MM) CR-1 requires a qualified archeologist, approved by the CPUC, to erect
- 5 flagging to create a <u>1050</u>-foot buffer around the historic era debris and concrete enclosure. MM CR-
- 6 1 also requires signs to be erected indicating that construction equipment, materials, and personnel
- 7 shall stay out of the flagged area. Therefore, impacts resulting from installation of the
- 8 telecommunications lines would be less than significant with mitigation.
- 9

# 10 Existing Substation Modifications

- 11 The proposed project would involve equipment replacements and upgrades within the perimeter of
- 12 several existing substation properties other than Mesa Substation and Goodrich Substation. Six of
- 13 the substations where equipment replacements and/or upgrades would occur were determined to
- 14 be eligible for inclusion on the NRHP and the CRHR including: Laguna Bell Substation, Lighthipe
- 15 Substation, Eagle Rock Substation, Fairfax Substation, Newmark Substation, and San Gabriel
- 16 Substation (Williams 2014; Chiang and Tinsley Becker 2014a; DeBiase and Tinsley Becker 2015;
- 17 Tinsley Becker et al. 2015).
- 18
- 19 The San Gabriel, Fairfax, and Newmark Substations are potentially eligible due to the architectural
- style of the buildings at the sites (DeBiase and Tinsley Becker 2015; Williams 2014). These
- 21 substations have been found eligible mainly because of their architectural and aesthetic
- 22 components. Work at these substations would involve equipment upgrades within buildings and
- 23 would not affect their exterior appearance, which is representative of key architectural styles or
- 24 periods. Work also would not materially change their association with the SCE transmission system.
- 25 There would be no impact.
- 26
- 27 The Laguna Bell and Lighthipe Substations are potentially eligible due to the architecture of the
- 28 buildings at the sites (Chiang and Tinsley Becker 2014a). Work at the Laguna Bell and Lighthipe
- 29 Substations would involve replacement of circuit breakers and upgrading equipment within the
- 30 buildings and would not affect the exterior appearance of the buildings and would not affect their
- 31 eligibility based on being examples of certain architectural styles or periods. The proposed project
- 32 would also not affect their eligibility based on association with certain elements of the SCE
- 33 transmission system. There would be no impact.
- 34
- 35 The main substation building and the entry pillars at Eagle Rock Substation have been found
- 36 potentially eligible, both individually (due to architecture) and as a contributing element to the Big
- 37 Creek Hydroelectric System Historic District (due to its role as a terminus of the Big Creek
- 38 Hydroelectric System). Work at the Eagle Rock substation would be confined to upgrading
- 39 equipment in the substation building and would not affect the appearance of the building or its
- 40 association with the Big Creek Hydroelectric System. There would be no impact.
- 41

# 42 North Area

- 43 A records search for the Goodrich Substation site area indicated that there is one historic resource
- 44 at the site, the Mesa–Anita–Eaton 66-kV Subtransmission Line. However, this site was previously
- 45 determined to be ineligible for the NRHP or CRHR. No additional historic or prehistoric resources
- 46 were identified during pedestrian surveys conducted at the Goodrich Substation site area (Williams
- 47 et al. 2014). Therefore, there would be no impact related to the installation of the temporary 220-
- 48 kV transmission structure at the Goodrich Substation site.

## 2 South Area

- 3 No historic or archeological sites were identified during a record search or pedestrian surveys at
- 4 the proposed project area for proposed transmission structure replacement in the City of
- 5 Commerce or at the proposed conversion of the street light conductors from overhead to
- 6 underground within the City of Bell Gardens. Therefore, there would be no impacts related from
- 7 construction of the transmission structure or <u>conversion</u> conversation of the street light conductors
- 8 would be less than significant under this criterion.
- 9

1

#### 10 Staging Yards

- 11 Records searches for the seven potential staging yards proposed for use during project
- 12 construction did not identify any previously recorded historic or archeological sites at any of the
- 13 staging yards. However, one previously unrecorded historic resource was identified at Staging Yard
- 14 7 during pedestrian surveys (Williams 2015b). Site SAY-S-1 consists of the footings for the KRLA
- 15 radio station, including three concrete slabs and four foundations that formed the foundation for
- 16 the antenna tower. A shack containing a Fairbanks Morse engine and a water heater is also
- 17 associated with site SAY-S-1. The concrete footings and shack were constructed in 1959 and were
- 18 not evaluated for NRHP or CRHR eligibility. Therefore, impacts on the elements of this site during
- 19 use of the staging yard during construction could be significant if the resource is found eligible for
- 20 listing on the NRHP or CRHR.
- 21
- 22 MM CR-1 requires a qualified archeologist, approved by the CPUC, to erect flagging to create
- 23 a 1050-foot buffer around the historic-era concrete footings and shack. MM CR-1 also requires signs
- to be erected indicating that construction equipment, materials, and personnel shall stay out of the
- 25 flagged area. Therefore, impacts resulting from the use of Staging Yard 7 during construction under
- 26 this criterion would be less than significant with mitigation.
- 27

#### 28 Operation and Maintenance

29 NO IMPACT

30 Operations and maintenance activities would occur near several eligible and listed resources. The

- 31 Juan Matias Sanchez Adobe and Mission Vieja Plaque are listed on the CRHR. Six of the substation
- 32 sites have been recommended as eligible for listing on the NRHP and CRHR: the Laguna Bell,
- 33 Lighthipe, Eagle Rock, Fairfax, Newmark, and San Gabriel substations. The Temple School has also
- 34 been recommended as eligible for inclusion on the NRHP and CRHR. The Whittier Narrows Dam
- 35 Recreation Area site has not been evaluated for NRHP and CRHR eligibility.
- 36
- 37 Routine operations and maintenance activities would not require ground disturbing activities.
- 38 However, maintenance of access roads may include occasional removal of vegetation or other
- 39 activities to address washouts or eroded areas, as needed. In addition, wood pole testing and
- 40 treating is a necessary maintenance activity conducted to evaluate the condition of wood structures
- both above and below ground level. Intrusive inspections require the temporary removal of soil
- 42 around the base of the pole, usually to a depth of approximately 12 to 18 inches, to check for signs
- 43 of deterioration. These would require ground disturbing activities in previously disturbed areas of
- 44 the proposed project and would not result in material or physical changes to the known eligible and
- 45 listed resources or to undiscovered resources. Therefore, there would be no potential to directly or
- 46 indirectly impact a historic<u>al</u> resource. Therefore, operations and maintenance-related activities
- 47 would have no impact under this criterion.

1

# 2 **Impact CR-2**: Cause a substantial adverse change in the significance of a previously

- undiscovered historical resource as defined in § 15064.5 or a previously undiscovered
   archaeological resource pursuant to § 15064.5.
- 5 LESS THAN SIGNIFICANT WITH MITIGATION

#### 6 7 **Construction**

#### 8 Ground Disturbing Activities

- 9 Several project elements require ground disturbance, which has the potential to uncover
- 10 undiscovered cultural resources. Elements with ground disturbance include:
- 11
- Mesa Substation, including the Metropolitan Water District of Southern California pipeline relocation
- 500-kV Transmission Line
- 220-kV Transmission Lines
- 66-kV Subtransmission Lines
- 16-kV Distribution Lines

Goodrich Substation Telecommunications

• Goodrich Substation Temporary Structure

- 220-kV Structure Replacement (in Commerce)
- Streetlight Source Conversion (in Bell Gardens)
- Vincent Substation
- Pardee Substation
- Walnut Substation
- Telecommunications Route 1
- Telecommunications Route 3

- 12 13
  - Excavation and ground disturbance in previously undisturbed soils may result in discovery and damage to a previously undiscovered cultural resource. This would be a significant impact.
- 14 15

MM CR-2 would require training workers regarding the potential for discovering cultural resources
and the procedure to follow if such a discovery occurs during construction. MM CR-3 outlines the
procedure to follow in the case of an unanticipated discovery. Implementation of MM CR-2 and MM
CR-3 would reduce impacts to less than significant.

20

#### 21 Activities that Would not Result in Ground Disturbance

22

23 The remainder of activities would not result in ground disturbance and would not have the

- 24 potential of damaging an undiscovered resource unless it was on the ground surface. Damage to a
- 25 previously undiscovered <u>historical</u> surface resource would be a significant impact. MM CR-3 would
- 26 be implemented to protect previously undiscovered resources. Impacts would be less than
- 27 significant with mitigation.
- 28

## 29 **Operation and Maintenance**

- 30 Routine operations and maintenance activities would not require ground disturbing activities and
- 31 would occur only in previously disturbed areas. However, maintenance of access roads may include
- 32 occasional removal of vegetation or other activities to address washouts or eroded areas, as
- 33 needed. In addition, wood pole testing and treating is a necessary maintenance activity conducted
- 34 to evaluate the condition of wood structures both above and below ground level. Intrusive

- 1 inspections require the temporary removal of soil around the base of the pole, usually to a depth of
- 2 approximately 12 to 18 inches, to check for signs of deterioration. These would require ground
- 3 disturbing activities in previously disturbed areas of the proposed project. Therefore, there would
- 4 be no potential to directly or indirectly impact an undiscovered historic<u>al</u> or archaeological
- 5 resource. 6

# 7 <u>Impact CR-3</u>: Directly or indirectly destroy a unique paleontological resource or site or 8 unique geologic feature.

9

#### 10 Construction

#### 11 LESS THAN SIGNIFICANT WITH MITIGATION

12 There are no known unique paleontological resources or unique geological features within the

- 13 proposed project area. The proposed project would include ground disturbance in geologic units
- 14 with moderate and high potential to contain paleontological resources as identified in Table 4.4-7,

15 and therefore impacts would be significant. The applicant would implement APM-CUL-1, which

16 commits to preparing a Paleontological Resources Management Plan and implementing it in areas

17 with moderate to high sensitivity. However, APM-CUL-1 does not include specific performance

- 18 criteria to reduce the significant impact.
- 19

20 MM CR-4 would require the applicant to include a provision in the PRMP requiring a qualified

- 21 paleontologist to monitor ground-disturbing activities in areas with moderate to high potential to
- 22 contain paleontological resources. In addition, MM CR-4 would require that the applicant submit
- 23 the plan to the CPUC for review and approval prior to construction. MM CR-2 would require all site
- 24 personnel involved in ground-disturbing activities to be trained on all applicable local, State, and
- 25 federal laws and regulations pertaining to paleontological resources, prior to being allowed on-site.
- Workers shall be given a brief overview of paleontological resources in the vicinity of the proposed
- project, instruction on what typical paleontological resources look like, and instruction that if
   paleontological resources are discovered during construction, work shall be suspended in the
- 28 paleontological resources are discovered during construction, work shall be suspended in the 29 vicinity of any find and the site foreman and paleontological monitor are to be alerted immediately.

30 MM CR-5 would require following specific procedures in the event of a previously undiscovered

- 30 paleontological resource find. Impacts to paleontological resources would be reduced to less than
- 31 pareontological resource find. Impacts to pareontological resources would be r32 significant with mitigation.
- 32 significant with mit33

# 34 Operation and Maintenance

# 35 NO IMPACT

- 36 Routine operation and maintenance activities would not require ground disturbing activities and
- 37 would occur in areas already disturbed during construction of the proposed project. However,
- 38 maintenance of access roads may include occasional removal of vegetation or other activities to
- 39 address washouts or eroded areas, as needed. In addition, wood pole testing and treating is a
- 40 necessary maintenance activity conducted to evaluate the condition of wood structures both above
- 41 and below ground level. Intrusive inspections require the temporary removal of soil around the
- 42 base of the pole, usually to a depth of approximately 12 to 18 inches, to check for signs of
- 43 deterioration. These would require ground disturbing activities in previously disturbed areas of the
- 44 proposed project. Therefore, there would be no potential to directly or indirectly impact a unique
- 45 paleontological resource.
- 46

# <u>Impact CR-4</u>: Disturb any human remains, including those interred outside of formal cemeteries.

3 LESS THAN SIGNIFICANT WITH MITIGATION

#### 5 **Construction**

6 Records searches and field surveys of the proposed project area did not identify any known Native

7 American or other human remains in the project area. Given the Native American history in the

8 general region, there is a possibility that previously unknown human remains could be encountered

9 during construction activities. This would be a significant impact.

10

4

11 MM CR-6 would require adherence to applicable laws as well as training of workers on the

12 appropriate procedures to follow if human remains are encountered. Impacts would be less than

- 13 significant with mitigation.
- 14

#### 15 **Operation and Maintenance**

16 Routine operations and maintenance activities would not require ground disturbing activities.

17 However, maintenance of access roads may include occasional removal of vegetation or other

18 activities to address washouts or eroded areas, as needed. In addition, wood pole testing and

19 treating is a necessary maintenance activity conducted to evaluate the condition of wood structures

20 both above and below ground level. Intrusive inspections require the temporary removal of soil

around the base of the pole, usually to a depth of approximately 12 to 18 inches, to check for signs

of deterioration, but these inspections would only take place in previously disturbed soil.

23 Therefore, there would be no potential for an unanticipated discovery of human remains. Records

24 searches and surveys conducted for the proposed project have not identified any known human

remains, Native American or otherwise, in the proposed project area. Therefore, there would be no

26 potential to disturb human remains directly or indirectly during operations.

27 28

# 8 4.4.4 Mitigation Measures

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30 <u>MM CR-1</u>: Flag and Avoid Known Unevaluated Historic Sites. Prior to commencement of any 31 construction or construction-related activities within 50 feet of the mapped boundaries of (1) the 32 historic-era debris and concrete structure at site P-19-186889 and (2) the concrete footings and 33 shack at site SAY-S-1, a qualified CPUC-approved archaeologist shall erect flagging to create a 50-34 foot buffer around these resources. Flagging shall be in a bright, easily visible color, and signs shall 35 be posted at the perimeter of the flagged areas on all sides to indicate that construction equipment, 36 materials, and personnel shall stay out of the flagged areas. Flagging and signage shall stay in place 37 until all construction activities within 50 feet of the resources has been completed.

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# 39 MM CR-2. Worker Training for Cultural and Paleontological Resources. Prior to

commencement of any project-related construction activities, all SCE, contractor, and subcontractor
 project personnel shall receive training regarding:

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- Appropriate work practices necessary to effectively implement the APMs and mitigation measures and to comply with the applicable environmental laws and regulations.
- The potential for exposing subsurface cultural resources and paleontological resources .
- How to recognize possible buried resources.

1 This training shall include a presentation of: 2

- Procedures to be followed upon discovery or suspected discovery of historic or archaeological materials, including Native American remains and their treatment.
- Procedures to be followed upon discovery or suspected discovery of paleontological resources.
  - Actions that may be taken in the case of violation of applicable laws.

<u>MM CR-3</u>: Previously Unidentified Cultural Resources. If a previously unknown cultural
 resource is discovered during project construction activities, work shall be halted within 100 feet of
 the resource, and protective barriers shall be installed along with signage identifying the area as an
 "environmentally sensitive area." Entry into the area shall be limited to authorized personnel, and
 the CPUC-approved cultural resources specialist/archaeologist qualified archaeologist, SCE, and the
 CPUC shall be notified immediately.

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16 Preservation in place (i.e., avoidance) is the preferred method of mitigation for impacts on cultural resources and shall be required to mitigate impacts to previously undiscovered resources unless 17 18 the CPUC-approved cultural resources specialist/qualified archeologist and SCE determines that 19 another method would provide superior mitigation of impacts to the resource. If the resource can 20 be completely avoided, no additional mitigation is necessary. If the resource cannot be completely 21 avoided, the CPUC-approved cultural resources specialist/qualified archaeologist and SCE shall 22 follow the procedures delineated below for resources where it is not known whether the resource 23 is historical. If an unanticipated resource is avoided, it shall nonetheless be recorded on DPR 523 24 forms, which shall be filed at the Eastern Information Center.

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- **Determination if a resource is an historical resource.** The CPUC-approved cultural resources specialist/qualified archaeologist <u>and SCE</u>, in consultation with the CPUC, shall determine if there is a potential for the resource to be a historical resource. If there is no potential for the resource to qualify as a historical resource, work shall resume after CPUC concurrence. If there is a potential for the resource to be a historic<u>al</u> resource, the qualified archaeologist <u>and SCE</u> shall prepare an Evaluation Plan.
- 32 **Evaluation Plan.** The resource-specific Evaluation Plan shall detail the procedures to be • 33 used to determine if the discovery is an historical resource. The Evaluation Plan shall 34 include sufficient discussion of background and context to allow the evaluation of the resource against the historical resource criteria. It shall include a description of procedures 35 36 to be used in the gathering of information to allow the evaluation. These techniques may 37 include (but are not limited to): excavation, written documentation, interviews, and/or 38 photography. For archaeological resource testing, the Evaluation Plan shall describe the 39 archaeological testing procedures, including, but not limited to: surface collection (if surface 40 artifacts are discovered), test excavations (including type, number, and location of test pits and/or trenches), analysis methods, and reporting procedure. The Evaluation Plan shall be 41 42 submitted to CPUC for review. Once approved, the Evaluation Plan shall be implemented in 43 the field. The report resulting from this work shall include evaluation of the discovery. based on the significance criteria set forth in the Evaluation Plan, indicating if it is an 44 45 historical resource. If the discovery is not found to be an historical resource, and CPUC 46 concurs with that determination, protective barriers may be removed, and work may 47 proceed in the area of the discovery. If the discovery is determined to be an historical resource, SCE shall prepare a Data Recovery Plan. 48

- 1 **Data Recovery Plan.** Data Recovery Plans for historical resources that cannot be fully • 2 avoided shall be prepared in accordance with CEOA Guidelines section 15126.4(b)(3)(C) 3 and PRC section 21083.2, as applicable. The Data Recovery Plan shall outline how the 4 recovery of data from the resource will mitigate impacts to that resource to below a level of 5 significance. The Data Recovery Plan shall describe the level of effort, including numbers 6 and kinds of excavation units to be dug, excavation procedures, laboratory methods, 7 samples (e.g., pollen, sediment, as appropriate) to be collected and analyzed, analysis 8 techniques that will yield information relevant to the aspects of the site that make it an 9 historical resource, and reporting procedure. This plan shall be submitted to the CPUC for 10 review and approval. Once approved, the applicant shall implement the approved plan. Once the data recovery field work is complete, a Data Recovery Field Memo shall be 11 12 prepared.
- 13 **Data Recovery Field Memo.** Following implementation of the Data Recovery Plan, the Data • 14 Recovery Field Memo shall be prepared. The Data Recovery Field Memo shall briefly 15 describe the data recovery procedures in the field and summarize (at a field catalog level) 16 the materials recovery. The Data Recovery Field Memo shall also identify the number and 17 kind of samples recovered that are appropriate for special analyses, including radiocarbon dating, obsidian sourcing, pollen analysis, microbotanical analysis, and others, as applicable. 18 The Data Recovery Field Memo shall be submitted to CPUC for review and approval. Once 19 20 the Data Recovery Field Memo has been approved, protective barriers may be removed, and 21 work may proceed in the area of the discovery. A Data Recovery Report shall then be prepared. 22
- 23 Data Recovery Report. Within 90 days of submittal of the Data Recovery Field Memo, a • 24 Data Recovery Report shall be prepared presenting the results of the data recovery 25 program, including a description of field methods, location and size of excavation units, analysis of materials recovered (including results of any special analyses conducted), and 26 27 conclusions drawn from the work. The Data Recovery Report shall also indicate where 28 artifacts, samples, and documentation resulting from the data recovery program will be 29 curated. The curation facility shall meet the requirements of 36 Code of Federal Regulations 79. The Data Recovery Report shall be submitted to the CPUC for review and approval. Once 30 31 approved, the Data Recovery Report shall be filed with the Eastern Information Center. All 32 impacted known resources and all unanticipated resources shall be recorded on DPR 523 33 forms that shall be filed at the Eastern Information Center with the Data Recovery Report.
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35 **MM CR-4: Paleontological Resources Monitoring.** Prior to the start of construction, the applicant shall retain a qualified paleontologist. The qualified paleontologist shall be approved by the CPUC 36 37 and shall monitor all ground-disturbing activities that take place within areas that have a moderate 38 to high potential to contain paleontological resources, consistent with designations shown in Table 39 4.4-7. The Paleontological Resources Management Plan (APM-CUL-01) shall show a map of areas 40 requiring monitoring consistent with Table 4.4-7. The paleontological monitor shall have the 41 authority to halt construction in the vicinity of any potential paleontological resource finds to begin 42 implementation of MM CR-7.

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**MM CR-5: Follow Paleontological Resource Discovery Protocol.** In the case that a previously 44 unknown paleontological resource is discovered during construction activities, all work within 15 45 46 meters of the resource shall be stopped, and the CPUC-approved paleontologist shall determine, after consulting with SCE, whether the resource can be avoided. If the discovery can be avoided and 47 48 no further impacts will occur, no further effort shall be required. If the resource cannot be avoided

1 and may be subject to further impact, the paleontologist shall determine whether the resource is 2 unique under Part V of CEOA Guidelines Appendix G. A paleontological resource shall be considered 3 unique if it meets the definition of a significant paleontological resource under the 2010 Society of 4 Vertebrate Paleontology Standard Procedures for the Assessment of Adverse Impacts to 5 Paleontological Resources definition: 6 7 Significant paleontological resources are fossils and fossiliferous deposits, here defined as 8 consisting of identifiable vertebrate fossils, large or small, uncommon invertebrate, plant, and 9 trace fossils, and other data that provide taphonomic, taxonomic, phylogentic, paleoecologic, 10 stratigraphic, and/or biochronologic information. Paleontological resources are considered to be older than recorded human history and/or older than middle Holocene (i.e., older than about 11 12 5,000 radiocarbon years). 13 14 Substantiation of the uniqueness conclusion shall be provided to the CPUC for review and approval. 15 If the resource is determined not to be unique, work may commence in the area. 16 17 If the resource is unique, then work shall remain stopped, and the approved paleontologist shall 18 consult with the applicant and the CPUC regarding methods to ensure that no substantial adverse 19 change would occur to the significance of the resource pursuant to CEQA. Preservation in place, i.e., 20 avoidance, is the preferred method of mitigation for impacts to paleontological resources and shall 21 be required to mitigate impacts to previously undiscovered resources unless the CPUC-22 approved paleontologist <del>cultural resources specialist/qualified archeologist</del> determines that 23 another method would provide superior mitigation of impacts to the resource. Other methods 24 include ensuring that the fossils are recovered, prepared, identified, catalogued, and analyzed 25 according to current professional standards under the direction of a qualified paleontologist. 26 Methods of recovery, testing, and evaluation shall adhere to current professional standards for 27 recovery, preparation, identification, analysis, and curation, such as the 2010 Society of Vertebrate 28 Paleontology Standard Procedures for the Assessment of Adverse Impacts to Paleontological 29 *Resources*. Work can commence following recovery and CPUC approval. 30 31 **MM CR-6**: Unanticipated Discovery of Human Remains. In the event that human remains or 32 suspected human remains are identified, SCE shall comply with California law, including, but not 33 limited to, the following provisions: CEQA Guidelines section 15064.5(e); PRC sections 5097.94, 34 5097.98, and 5097.99; and California Health and Safety Code section 7050.5. These laws require 35 Native American consultation for Native American burial sites. 36 37 The area where the remains are identified shall be flagged off, and all construction activities within 38 165 feet (50 meters) of the find shall immediately cease. The CPUC, the CPUC-approved cultural 39 resources specialist/archaeologist, SCE, and any other appropriate agency shall be immediately 40 notified, and the cultural resources specialist/archaeologist shall examine the find. If the cultural 41 resources specialist/archaeologist determines that there may be human remains, SCE shall 42 immediately contact the Medical Examiner at the Los Angeles County Coroner's office. The Medical 43 Examiner has two working days to examine the remains after being notified by SCE. If the Medical 44 Examiner believes the remains are Native American, he/she shall notify the NAHC within 24 hours. 45 46 The NAHC will immediately notify the person it believes to be the most likely descendant (MLD) of 47 the remains, and the MLD has 48 hours to make recommendations to the landowner or 48 representative for the respectful treatment or disposition of the human remains and any associated 49 grave goods. If the MLD does not make recommendations within 48 hours, the area of the property

- 1 shall be secured from further disturbance. If there are disputes between the landowners and the
- 2 MLD, the NAHC shall mediate the dispute and attempt to find a solution. If the mediation fails to
- 3 provide measures acceptable to the landowner, the landowner or their representative shall reinter
- 4 the remains and associated grave goods and funerary objects in an area of the property secure from
- 5 further disturbance. The location of any reburial of Native American human remains shall not be
- 6 disclosed to the public and shall not be governed by public disclosure requirements of the
- 7 California Public Records Act, California Government Code § 6250 et seq., unless otherwise
- 8 required by law. The Medical Examiner shall withhold public disclosure of information related to
- 9 such reburial pursuant to the specific exemption set forth in California Government Code Section
- 10 6254(r).

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