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Mr. Gary Busteed Senior Environmental Project Manager Bulk Power Projects Environmental Licensing Environmental Services Division Southern California Edison 6040 North Irwindale Ave., Suite A Irwindale, California 91702

#### RE: 2017 Rare Plant Memo Report for the Southern California Edison Riverside Transmission Reliability Project (RTRP)

Dear Mr. Busteed,

Southern California Edison (SCE) contracted AECOM to conduct habitat assessments and subsequent focused surveys for a number of special-status species along and adjacent to the Riverside Transmission Reliability Project (RTRP) alignment (Project). The purpose of this letter report is to summarize findings of rare plant surveys conducted during the spring of 2017 for the proposed Project. These surveys are in response to data requests received from the California Public Utilities Commission (CPUC) during their review of SCE's Application for a Certificate of Public Convenience and Necessity. The purpose of these surveys was to identify the presence of rare (special-status) plant species that may occur in the Project area, and if found, map their distribution.

#### Project Location and Description

The Project is located in the northwest portion of Riverside County, north of Norco and south and east of Mira Loma (Figure 1). The Project is a joint venture with Riverside Public Utilities (RPU) to provide a new 230-kilovolt (kV) transmission line connection to RPU's transmission system and increase the reliability of their grid. The majority of the Project consists of developed areas and lands highly disturbed by historical agricultural use, however portions of the site support remnant fragments of native plant habitat and intact soils. For the purpose of this report the rare plant survey report, survey area is referred to as the Biological Study Area (BSA). The BSA is defined as areas of potential rare plant habitat based on existing vegetation and soils within project construction disturbance features provided by SCE (GDADs) and a 50-foot buffer around these features.

#### Survey Methodology

Prior to the rare plant surveys, AECOM initiated literature research to prepare a list of potentially occurring species for the geography and conditions of the RTRP and conducted field studies to refine the survey extents to areas of potential habitat for these species. The results of this pre-survey analysis are described in detail in the Habitat Assessment Report prepared for SCE by AECOM, dated August 29, 2017 (AECOM 2017).



Two floristic-level rare plant surveys were performed within the BSA on March 30 and May 22, 2017. These surveys were timed to coincide with the periods of most likely detection and identification of rare species, based on visitation of rare plant reference populations, and were conducted in accordance with survey protocols set forth by *Guidelines for Conducting and Reporting Botanical Inventories for Federally Listed, Proposed, and Candidate Plants* (USFWS 2000); *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (CDFG 2009)<sup>1</sup>; and *CNPS Botanical Survey Guidelines* (CNPS 2001).

Surveys were conducted using meandering transects through all areas with suitable habitat. Data was collected using the ArcGIS Collector mobile application and was synced into ArcGIS for analysis. At each rare plant species location recorded, the botanist recorded the phenology of the rare plant species as vegetative, flowering, blooming or senescent and estimated the number of individuals present. Scientific nomenclature of plant species in this rare plants survey report follows the Jepson eFlora (Jepson Flora Project 2017) or, when CRPR listed species are not recognized in Jepson, the CNPS Rare and Endangered Plant Inventory (CNPS 2017). Common names of plant species follow the CNPS Rare and Endangered Plant Inventory (CNPS 2017) for CRPR listed species and Calflora (Calflora 2017) for all other species.

The March 30, 2017 survey was conducted by Jonathan Dunn of AECOM and David Bramlet of Kidd Biological, Inc. The May 22, 2017 survey was conducted by David Bramlet and Nina Kidd of Kidd Biological, Inc. These surveys were conducted during a spring season characterized by above-normal precipitation.

#### <u>Results</u>

A total of 122 plant taxa (70 native and 52 nonnative) were observed within the BSA (Appendix A). One plant species included in the California Department of Fish and Wildlife California Natural Diversity Database (CNDDB) *Special Vascular Plants, Bryophytes, and Lichens List* (CDFW 2017), *Deinandra paniculata* (Paniculate Tarplant), was detected during these surveys. Approximately 150 individuals of this species were recorded across three locations within the BSA (Figure 2).

#### Discussion

No listed or sensitive rare plant species were observed within the BSA, except for *D. paniculata* discussed in detail below. Local reference populations were also viewed to assess species' phenologies at the time of the surveys; all were observed to be flowering and identifiable at reference populations at the time of site surveys.

Presence/absence surveys have to answer two questions: 1) Is the species able to be detected and 2) is the species present. In answering the first question:

<sup>&</sup>lt;sup>1</sup> This document replaced the CDFG document *Guidelines for Assessing the Effects of Proposed Projects on Rare, Threatened and Endangered Plants and Natural Communities.* 



A) The plants were observed at reference populations, meaning they should have also been observed onsite.

B) Two separate surveys were scheduled during optimal viewing and identification periods for rare species with potential to occur—to account for differences in bloom cycle between the site and reference populations.

C) The surveys were conducted during historically favorable annual conditions (i.e., above average rainfall totals for the 2016-2017 rainy season).

D) The qualification of the surveyor and methods were addressed by using qualified botanists and approved CDFW survey protocol.

E) When considered together, all four points above indicate there is no issues with being able to detect rare plants on site and that the lack of observation is more supportive of absence onsite rather than an inability to detect the species

Therefore it was concluded that the lack of observations on the project site compared to observations at reference populations cannot be attributed to 1) poor annual conditions leading to minimal flowers in high quality habitat but little or no growth in marginal or lower quality habitats, 2) slight differences in bloom cycle between the site and reference populations, or 3) the observer simply missing finding a plant because it would be expected that it would have been detected in one of the two surveys. Therefore, all the listed and sensitive plants surveyed were not detected and are not expected to occur except for *D. paniculata*.

*Deinandra paniculata* is an annual plant in the Asteraceae that ranges from the central coast of California to northern Baja California, with the core of its population occurring in western Riverside County (Jepson Flora Project, 2017). This species is classified by the California Native Plant Society as "California Rare Plant Rank 4.2: Plants of Limited Distribution – Moderately threatened in California" (CRPR 4.2). Although considered rare by CNPS, it is not a sensitive species under the California Environmental Quality Act (CEQA) within the BSA because:

- 1) *Deinandra paniculata* is not federally listed pursuant to the federal Endangered Species Act (ESA) nor listed within Section 670.2 or 670.5, Title 14, of the California Code of Regulations (§15380 of CEQA).
- 2) Deinandra paniculata is not on California Native Plant Society (CNPS) List 1B or 2B. CDFW rare plant survey protocol provides criteria for determining whether a species should be considered "rare." Rare plants are defined by CDFW protocol those that are considered by the CNPS to be "rare, threatened or endangered in California" (Lists 1B and 2B).



- 3) Deinandra paniculata is not a locally significant species. CDFW protocol accounts for species on Lists 3 and 4 and considered them rare when it is rare or uncommon in a local context such as within a county or region (CEQA §15125 (c)). The project is within the core range of *D. paniculata* and found on soils typical for the species, meaning the location and substrate cannot be used to call this species a locally significant species.
- 4) Deinandra paniculata is not listed as rare in local or regional plans, policies or ordinances. CDFW protocol also considers a species rare when it is so designated in local or regional plans, policies, or ordinances (CEQA Guidelines, Appendix G). It is not considered as rare or uncommon in a local context as it not one of the 146 special-status species covered under the Western Riverside County Multiple Species Conservation Plan.
- 5) Deinandra paniculata commonly occurs in western Riverside County. CNPS also notes that considering List 4 during CEQA is particularly appropriate when the location is a type locality, at the edge/periphery of the range, in an area where it is uncommon or has sustained heavy loss in the area, or a unique morphology or unusual substrate. It does not warrant consideration on the basis of local significance, as it occurs commonly in western Riverside County, within the core of its range, on typical soils and is not a type locality or sustaining heavy population loss in the area.

Impacts to individuals of *Deinandra paniculata* are therefore not considered a "substantial adverse effect" to Biological Resources pursuant to Appendix G of the CEQA Guidelines. As a result, there are no species-specific botanical concerns with the BSA.

If you have any questions or comments regarding this letter report, please contact me at (619) 610-7654.

Sincerely,

Ein Riley

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Attachments: Figure 1 – Project Location Figure 2 – Special Status Plant Species Detected within Biological Study Area Appendix A – List of Plant Species Observed within the BSA



#### Literature Cited

- AECOM. 2017. Riverside Transmission Reliability Project Habitat Assessment Results. Letter report to Paul Yamazaki, Southern California Edison. August 29, 2016.
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**FIGURES** 



Riverside Transmission Reliability Project Jurupa Valley 2017 Rare Plant Survey Report Path: P:\2015\60337535\_SCE\_On-Call\60533920\_CWA36\_RTRP\900-CAD-GIS\920 GIS\map\_docs\mxd\Working\RarePlant Rpt2017\Fig1\_ProjectLocation.mxd, 6/13/2017, dunnj **Project Location** 



RiversideTransmission Reliability Project Jurupa Valley 2017 Rare Plant Survey Report Path: P:\2015\60337535\_SCE\_On-Call\60533920\_CWA36\_RTRP\900-CAD-GIS\920 GIS\map\_docs\mxd\Working\RarePlant Rpt2017\Fig2\_Findings.mxd, 8/8/2017, dunnj **Rare Plant Findings 2017** 

# **APPENDIX A**

# PLANT SPECIES OBSERVED ON THE RIVERSIDE TRANSMISSION RELIABILITY PROJECT

Spring 2017

### LEGEND

- \* Non-native species
- † Special status plant species
- [] W Riverside County Checklist equivalents

Note: Taxonomy of scientific and common names generally follows the Jepson manual (Baldwin et al. 2012), with some recent name changes following the checklist of vascular plants of western Riverside County (Roberts et al. 2004). Common names follow Roberts et al. 2004.

## MAGNOLIOPHYTA -FLOWERING PLANTS

### **MAGNOLIIDS - MAGNOLIID CLADE**

## ADOXACEAE

ELDERBERRY FAMILY Sambucus nigra

Mexican elderberry

#### AMARANTHACEAE AMARANTH FAMILY

\*Amaranthus albus \*Amaranthus blitoides

#### ANACARDIACEAE

SUMAC FAMILY \*Schinus molle Toxicodendron diversilobum

#### APIACEAE CARROT FAMILY

\*Conium maculatum

#### ASTERACEAE SUNFLOWER FAMILY

Ambrosia acanthicarpa Ambrosia psilostachya Artemisia californica Artemisia douglasiana Artemisia dracunculus Baccharis salicifolia \*Centaurea melitensis \*Cirsium vulgare \*Cnicus benedictus Conyza canadensis Corethrogyne filaginifolia \*Cotula australis Deinandra fasciculate † Deinandra paniculata Encelia farinosa Ericameria palmeri var. pachylepis Helianthus annuus Heterotheca grandiflora

Tumbling pigweed Prostrate pigweed

Peruvian pepper Poison oak

Poison hemlock

Annual bur weed Western ragweed California sagebrush Mugwort Tarragon Mulefat Tocalote Bull thistle **Blessed thistle** Common horsetail Common sand aster Australian brass buttons Fascicled tarweed Paniculate tarplant Brittlebush Grassland goldenbush Annual sunflower Telegraph weed

\*Hypochaeris glabra
Isocoma menziesii
\*Lactuca serriola
Logfia californica
\*Logfia gallica
\*Oncosiphon piluliferum
\*Pilucaria hispanica
Pseudognaphalium californicum
\*Senecio vulgaris
\*Sonchus asper
\*Sonchus oleraceus
\*Verbesina encelioides
Xanthium strumarium

### BORAGINACEAE FORGET-ME-NOT FAMILY

Amsinckia intermedia Heliotropium curassavicum Pectocarya linearis Pectocarya penicillata Phacelia distans Phacelia cicutaria Phacelia minor Phacelia ramosissima Plagiobothrys canescens

### BRASSICACEAE MUSTARD FAMILY

\*Brassica nigara \*Brassica tournefortii \*Capsella bursa-pastoris \*Coronopus didymocarpus \*Hirschfeldia incana Lepidium nitidum \*Raphanus sativa \*Sisymbrium irio

## CACTACEAE CACTUS FAMILY

Cylindropuntia californica var. parkeri \*Opuntia ficus-indica Opuntia Xvaseyi Smooth cat's ear Coastal goldenbush Prickly lettuce California filago Narrow-leaved filago Stink net Spanish sunflower California everlasting Common groundsel Prickly sow thistle Common sow thistle Earless crownbeard Cocklebur

Common fiddleneck Alkali heliotrope Slender pectocarya Winged pectocarya Common phacelia Caterpillar phacelia Canterbury bells Branching phacelia Valley popcorn flower

Black mustard Sahara mustard Shepherd's purse Swine cress Summer mustard Shiny peppergrass Wild radish London rocket

Valley cholla Mission cactus Vasey's prickly pear

## CARYOPHYLLACEAE PINK FAMILY \*Spergularia bocconei

### CHENOPODIACEAE GOOSEFOOT FAMILY

Atriplex canescens Atriplex lentiformis \*Atriplex suberecta \*Bassia hyssopifolia Chenopodium berlandieri \*Salsola tragus

# CONVOLVULACEAE

MORNING GLORY FAMILY Calystegia macrostegia Cressa truxillensis

CRASSULACEAE STONECROP FAMILY Crassula connata Dudleya lanceolata

#### CUCURBITACEAE GOURD FAMILY Cucurbita foetidissima

# EUPHORBIACEAE

SPURGE FAMILY Croton setiger \*Ricinus communis

#### FABACEAE PEA FAMILY

Acmispon brachycarpus [Lotus humistratus] Acmispon glaber [Lotus scoparius] Acmispon micranthus [Lotus hamatus] Acmispon strigosus [Lotus strigosus] Lupinus bicolor Lupinus succulentus Boccone's sand spurry

Four-wing saltbush Quail bush Serrate-leaved saltbush Five-hook bassia Pitseed goosefoot Russian thistle

Finger-leaved morning glory Alkali weed

Sand pigmy stonecrop Lance-leaved dudleya

Coyote melon

Dove weed Castor bean

Hill lotus

Deerweed

Grab lotus

Strigose lotus

Miniature lupine Arroyo lupine \*Medicago polymorpha \*Melilotus indicus

#### GERANIACEAE GERANIUM FAMILY

\*Erodium cicutarium \*Erodium moschatum

### JUGLANDACEAE WALNUT FAMILY

*†Juglans* californica

LAMIACEAE MINT FAMILY

\*Marrubium vulgare Tricostema lanceolatum

MALVACEAE MALLOW FAMILY \*Malva parviflora

MYRTACEAE MYRTLE FAMILY \*Eucalyptus camaldulensis

OLEACEAE OLIVE FAMILY \*Fraxinus udehi

ONAGRACEAE EVENING PRIMROSE FAMILY Camissonia californica Camissoniopsis micrantha

PLATANACEAE SYCAMORE FAMILY \*Platanus racemosa

POLEMONIACEAE PHLOX FAMILY Gilia angelensis Bur clover Yellow sweet clover

Red-stemmed filaree White-stemmed filaree

Southern California black walnut

Horehound Vinegar weed

Cheeseweed

River red gum

Shamel ash

California false mustard Small primrose

Western sycamore

Los Angeles gilia

## POLYGONACEAE BUCKWHEAT FAMILY

*Eriogonum fasciculatum* ssp. foliolosum *Eriogonum fasciculatum* ssp. polifolium \**Rumex pulcher* 

PORTULACACEAE PURSLANE FAMILY Calandrinia ciliata Interior flat-topped buckwheat Rosemary California buckwheat Fiddle dock

Red maids

#### ROSACEAE ROSE FAMILY Rubus ursinus

California blackberry

Narrow-leaved bedstraw

## RUBIACEAE MADDER FAMILY

Galium angustifolium

### SALICACEAE WILLOW FAMILY

Populus fremontii Salix gooddingii Salix laevigata Salix lasiolepis Salix exigua

#### SCROPHULARIACEAE FIGWORT FAMILY

\*Veronica anagallis-aquatica

## SOLANACEAE

NIGHTSHADE FAMILY Datura wrightii \*Nicotiana glauca

TAMARICACEAE TAMARISK FAMILY \*Tamarix ramosissima

## URTICACEAE

**NETTLE FAMILY** *Urtica dioica* ssp. *holosericea \*Urtica urens*  Fremont cottonwood Black willow Red willow Arroyo willow

Sandbar willow

Great water speedwell

Jimson weed Tree tobacco

Mediterranean tamarisk

Hoary nettle Dwarf nettle VITACEAE **GRAPE FAMILY** Vitus girdiana

# ZYGOPHYLLACEAE **CALTROP FAMILY**

\*Tribulus terrestris

## CYPERACEAE

SEDGE FAMILY Schoenoplectus americanus Schoenoplectus californicus

Desert wild grape

Puncture vine

Oleny's three square California bulrush

#### POACEAE **GRASS FAMILY**

\*Arundo donax \*Avena barbata \*Avena fatua \*Bromus diandrus \*Bromus madritensis ssp. rubens \*Bromus tectorum \*Hordeum murinum ssp. leporinum Melica imperfecta \*Schismus barbatus

Giant reed Slender wild oat Wild oat Ripgut brome Red brome Cheat grass Foxtail barley Small-flowered melic grass Mediterranean schismus