EXHIBIT D BIOLOGICAL RESOURCES

The following addresses the requirements of Arizona Administrative Code R14-3-219, which states:

List the fish, wildlife, plant life and associated forms of life in the vicinity of the proposed site or route and describe the effects, if any, the proposed facilities will have thereon.

Methods

Prior to conducting fieldwork, the ecology and habitat requirements of various species that could occur in Maricopa County were researched. A qualified biologist conducted a desktop analysis evaluating the Project Study Area (PSA) and nearby areas using digital photography and photographs of the PSA and conducted a field reconnaissance on May 16, 2018. The information was used to evaluate the potential effects of the Southeast Power Link (SPL) Project (Project) implementation on biological resources within the vicinity of the Project.

The analysis determined that overall habitat quality, plant diversity, and density are very low. The PSA consists of patches of native habitat, active agriculture, dairy operations, and existing roads. Many of the surrounding lands are being converted into residential developments. Vegetation is comprised mostly of creosote bush (*Larrea tridentata*) scrub and patchy honey mesquite (*Prosopis glandulosa*). Approximately 1/3 of the lands within the PSA are used for agriculture (farming and dairy operations), approximately 1/3 is native habitat, and 1/3 is disturbed by roadways or is being converted to residential.

Tables D-1, D-2, D-3, and **D-4** contain lists of common plant life, mammals, birds, reptiles and amphibians potentially present in Maricopa County and within the vicinity of the PSA.

Vegetation

The PSA is located within Maricopa County. The proposed Project traverses agricultural areas and areas of native habitat, and is adjacent to or within commercial and residential areas, including disturbed roadways. Elevations range from 1,325 to 1,433 feet. Vegetation communities found within the PSA are described below, and **Table D-1** lists some common plant species that could be found within some of the native and disturbed habitats in the area.

Agriculture – Active

The PSA supports areas of active agricultural lands, most of which are growing alfalfa or are currently fallow. Irrigation canals and head ditches are common. There are also multiple dairy operations. These lands have been used for agriculture for many years and are mostly surrounded by residential areas.

Disturbed Urban Habitat

The PSA contains numerous roadways and transmission lines that bisect residential and commercial areas. The areas within road rights-of-way (ROW) have been disturbed by initial construction and on-going maintenance activities. Residential and commercial developments, and roadside landscaping exist within and adjacent to these features, and continue to be developed. There are scattered and isolated native plants and landscaped plants along the roads, including blue palo verde (*Cercidium floridum*) and honey mesquite (*Prosopis glandulosa*), as well as non-native grasses.

Native Desert

Native areas in the PSA support scattered and sparse creosote bush scrub and honey mesquite. There are several small areas with relatively dense patches of honey mesquite where water is blocked by existing road or canals forming slightly moister areas than where natural drainage occurs. The native desert habitat tends to be isolated and is broken up by roads, residential development, an airport and agricultural activities.

Table D-1. Common Plant Species Potential Occurrence in Isolated Disturbed / Native Habitats in the Vicinity of the PSA ¹			
Common Name	Scientific Name	Ecosystem	
Triangleleaf bursage	Ambrosia deltoidea	Sonoran Desertscrub, Sonoran Riparian	
White bursage	Ambrosia dumosa	Sonoran Desertscrub	
Fiddlehead	Amsinckia intermedia	Sonoran Riparian	
Purple three-awn	Aristida purpurea	Sonoran Desertscrub	
Four-wing saltbush	Atriplex canescens	Sonoran Desertscrub	
All scale	Atriplex polycarpa	Sonoran Desertscrub	
Datura	Datura stramonium	Sonoran Riparian	
Englemann's hedgehog cactus	Echinocereus englemannii	Sonoran Desertscrub	
Brittlebush	Encelia farinosa	Sonoran Desertscrub, Sonoran Riparian	
Skeletonweed	Eriogonum deflexum	Sonoran Desertscrub	
Filaree	Erodium cicutarium	Sonoran Desertscrub	
Barrel cactus	Ferocactus wislizenii	Sonoran Desertscrub	
Ocotillo	Fouquieria splendens	Sonoran Desertscrub	
Rhatany	Krameria parviflora	Sonoran Desertscrub, Sonoran Riparian	
Creosote bush	Larrea tridentata	Sonoran Desertscrub, Sonoran Riparian	
Wolfberry	Lycium spp.	Sonoran Desertscrub, Sonoran Riparian	
Little fishhook cactus	Mammillaria thornberi	Sonoran Desertscrub	
Teddybear cholla	Opuntia bigelovii	Sonoran Desertscrub	
Prickly pear cactus	Opuntia engelmannii	Sonoran Desertscrub	
Jumping cholla	Opuntia fulgida	Sonoran Desertscrub	
Desert mistletoe	Phoradendron californicum	Sonoran Desertscrub	
Galleta grass	Pleuraphis jamesii	Sonoran Desertscrub, Sonoran Riparian	

Mesquite	Prosopis spp.	Sonoran Riparian
Bladdersage	Salazaria Mexicana	Sonoran Desertscrub
Russian thistle	Salsola iberica	Sonoran Desertscrub, Sonoran Riparian
London rocket	Sisymbrium irio	Sonoran Desertscrub, Sonoran Riparian
Globe mallow	Sphaeralcea spp.	Sonoran Desertscrub, Sonoran Riparian
I Brown 1994		

Wildlife

Wildlife resources within the PSA are predominantly associated with agricultural land and native habitats. Species occurrence, abundance, and distribution are strongly influenced by the presence of surface water, topography, and habitat types within and surrounding the PSA.

Tables D-2, D-3, and **D-4** present lists of common mammals, birds, reptiles, and amphibians that may occur or that have been observed within Maricopa County in habitats similar to those in the PSA. Some of the species are also listed in Exhibit C as Wildlife of Concern.

Mammals

Most mammalian species likely to be present are small, inconspicuous, largely nocturnal species of rodents and bats. Desert-adapted rodents such as pocket mice and kangaroo rats could be present. Medium-sized mammals that could be found in the PSA include desert cottontail (*Sylvilagus auduboni*), black-tailed jackrabbits (*Lepus californicus*), coyote (*Canis latrans*), gray fox (*Urocyon cinereoargenteus*), bobcat (*Felis rufus*), and badger (*Taxidae taxus*). **Table D-2** presents a more comprehensive list of mammalian species that may occur in the area.

Migratory Birds

Most bird species likely to be present are considered migratory birds and are associated with agricultural and urbanized land uses. The majority of the birds present during any given season are small songbirds and raptors like the mourning dove and red-tailed hawk (**Table D-3**). Some water birds may also be present in the area because they are attracted to the canals and ditches that are within and near the PSA; however, none were observed during the field reconnaissance. Species observed during the field reconnaissance include mourning dove, white-winged dove, turkey vulture, killdeer, and great-tailed grackle.

Amphibians and Reptiles

Relatively undisturbed desert habitats represent the best habitat for reptiles, although some species could be found in agricultural or other disturbed areas. Water resources are very limited in the PSA, as are reptiles and amphibians. **Table D-4** presents a list of amphibian and reptilian species that could be present in the vicinity of the PSA.

Table D-2. Mammal Species Potential Occurrence in the Vicinity of the PSA ¹		
Common Name Scientific Name		
Harris' antelope squirrel	Ammospermophilus harrisii	
Pallid bat	Antrozous pallidus	
Ringtail	Bassariscus astutus	
Coyote	Canis latrans	
Mexican long-tongued bat	Choeronycteris mexicana	
Desert kangaroo rat	Dipodomys deserti	
Merriam's kangaroo rat	Dipodomys merriami	
Big brown bat	Eptesicus fuscus	
Spotted bat	Euderma maculatum	
Western mastiff bat	Eumops perotis	
Mountain lion	Felis concolor	
Bobcat	Felis rufus	
Red bat	Lasiurus borealis	
Hoary bat	Lasiurus cinereus	
Southern yellow bat	Lasiurus ega xanthinus	
Mexican long-nosed bat	Leptonycteris nivalis	
Black-tailed jackrabbit	Lepus californicus	
Hooded skunk	Mephitis macroura	
Striped skunk	Mephitis	
California myotis	Myotis californicus	
Fringed myotis	Myotis thysanodes	
Cave myotis	Myotis velifer	
Yuma myotis	Myotis yumanensis	
White-throated woodrat	Neotoma albigula	
Desert wood rat	Neotoma lepida	
Desert shrew	Notiosorex crawfordi	
Desert Mule deer	Odocoileus hemionus crooki	
Muskrat	Ondatra zibethicus	
Southern grasshopper mouse	Onychomys torridus	
Collared peccary	Pecari tajacu	
Arizona pocket mouse	Perognathus amplus	
Bailey's pocket mouse	Perognathus baileyi	
Long-tailed pocket mouse	Perognathus formosus	
Rock pocket mouse	Perognathus intermedius	
Little pocket gopher	Perognathus longimembris	
Desert pocket mouse	Perognathus penicillatus	
Brush mouse	Peromyscus boylii	
Cactus mouse	Peromyscus eremicus	

Table D-2 Mammal Species Potential Occurrence in the Vicinity of the PSA ¹		
Common Name	Scientific Name	
Deer mouse	Peromyscus maniculatus	
Western pipistrelle	Pipistrellus Hesperus	
Townsend's big-eared bat	Plecotus townsendii	
Raccoon	Procyon lotor	
Western harvest mouse	Reithrodontomys megalotis	
Arizona gray squirrel	Sciurus arizonensis	
Arizona cotton rat	Sigmodon arizonae	
Round-tailed ground squirrel	Spermophilus tereticaudus	
Rock squirrel	Spermophilus variegatus	
Western spotted skunk	Spilogale gracilis	
Desert cottontail	Sylvilagus audubonii	
American free-tailed bat	Tadarida brasiliensis	
Pocketed free-tailed bat	Tadarida femorosacca	
Big free-tailed bat	Tadarida macrotis	
Badger	Taxidae taxus	
Botta's pocket gopher	Thomomys bottae	
Gray fox	Urocyon cinereoargenteus	
Kit fox	Vulpes macrotis	
¹ D.F. Hoffmeister. 1986. Mammals of Arizona. University of Arizona Press		

Table D-3 Bird Species Potential Occurrence in the Vicinity of the PSA ¹		
Common Name	Scientific Name	
Cooper's hawk	Accipiter cooperii	
Sharp-shinned hawk	Accipiter striatus	
Red-winged blackbird	Agelaius phoeniceus	
Sage sparrow	Amphispiza belli	
Black-throated sparrow	Amphispiza bilineata	
Cinnamon teal	Anas cyanoptera	
Mallard	Anas platyrhynchos	
Black-chinned hummingbird	Archilochus alexandri	
Great egret	Ardea alba	
Great blue heron	Ardea herodias	
Verdin	Auriparus flaviceps	
Cedar waxwing	Bombycilla cedrorum	
Great horned owl	Bubo virginianus	
Cattle egret	Bubulcus ibis	

Table D-3		
Bird Species Potential Occurrence in the Vicinity of the PSA ¹		
Zone-tailed hawk	Buteo albonotatus	
Red-tailed hawk	Buteo jamaicensis	
Ferruginous hawk	Buteo regalis	
Swainson's hawk	Buteo swainsoni	
Green heron	Butorides virescens	
Lark bunting	Calamospiza melanocorys	
Gambel's quail	Callipepla gambelii	
Anna's hummingbird	Calypte anna	
Costa's hummingbird	Calypte costae	
Cactus wren	Campylorhynchus brunneicapillus	
Northern cardinal	Cardinalis	
Pyrrhuloxia Pyrrhuloxia	Cardinalis sinuatus	
Lesser goldfinch	Carduelis psaltria	
House finch	Carpodacus mexicanus	
Turkey vulture	Cathartes aura	
Killdeer	Charadrius vociferus	
Lark sparrow	Chondestes grammacus	
Lesser nighthawk	Chordeiles acutipennis	
Northern harrier	Circus cyaneus	
Red-shafted northern flicker	Colaptes cafer	
Gilded flicker	Colaptes chrysoides	
Rock dove	Columba livia	
Inca dove	Columbina inca	
Common ground-dove	Columbina passerine	
Western wood-pewee	Contopus sordidulus	
Common raven	Corvus corax	
	Dendroica coronata	
Yellow-rumped warbler		
Black-throated gray warbler Yellow warbler	Dendroica nigrescens	
	Dendroica petechia	
Snowy egret	Egretta thula	
Pacific-slope flycatcher	Empidonax difficilis	
Dusky flycatcher	Empidonax oberholster	
Cordilleran flycatcher	Empidonax occidentalis	
Gray flycatcher	Empidonax wrightii	
Horned lark	Eremophila alpestris	
Brewer's blackbird	Euphagus cyanocephalus	
American kestrel	Falco sparverius	
American coot	Fulica americana	
Common moorhen	Gallinula chloropus	
Greater roadrunner	Geococcyx californianus	

Table D-3		
Bird Species Potential Occurrence in the Vicinity of the PSA ¹		
Blue grosbeak	Guiraca carulea	
Cliff swallow	Hirundo pyrrhonota	
Barn swallow	Hirundo rustica	
Northern oriole	Icterus bullockii	
Hooded oriole	Icterus cucullatus	
Bullock's oriole	Icterus galbula	
Dark-eyed junco	Junco hyemalis	
Loggerhead shrike	Lanius ludovicianus	
Gila woodpecker	Melanerpes uropygialis	
Lincoln's sparrow	Melospiza lincolnii	
Song sparrow	Melospiza melodia	
Elf owl	Micrathene whitneyi	
Northern mockingbird	Mimus polyglottos	
Bronzed cowbird	Molothrus aeneus	
Brown-headed cowbird	Molothrus ater	
Ash-throated flycatcher	Myiarchus cinerascens	
Brown-crested flycatcher	Myiarchus tyrannulus	
Black-crowned night-heron	Nycticorax	
MacGillivary's warbler	Oporornis tolmiei	
Sage thrasher	Oreoscoptes montanus	
Western screech owl	Otus kennicottii	
Harris' hawk	Parabuteo unicinctus	
House sparrow	Passer domesticus	
Phainopepla	Phainopepla nitens	
Double-crested cormorant	Phalacrocorax auritus	
Common poorwill	Phalaenoptilus nuttallii	
Black-headed grosbeak	Pheucticus melanocephalus	
Ladder-backed woodpecker	Picoides scalaris	
Abert's towhee	Pipilo aberti	
Green-tailed towhee	Pipilo chlorurus	
Spotted towhee	Pipilo erythrophthalmus	
Canyon towhee	Pipilo fuscus	
Western tanager	Piranga ludoviciana	
Pied-billed grebe	Podilymbus podiceps	
Blue-gray gnatcatcher	Polioptila caerulea	
Black-tailed gnatcatcher	Polioptila melanura	
Vesper sparrow	Pooecetes gramineus	
Vermillion flycatcher	Pyrocephalus rubinus	
Great-tailed grackle	Quiscalus mexicanus	
Ruby-crowned kinglet	Regulus calendula	

Table D-3 Bird Species Potential Occurrence in the Vicinity of the PSA ¹		
ılpinc	nctes obsoletus	
ıyorni	rnis nigricans	
iyorni	rnis saya	
elasph	sphorus rufus	
alia n	a mexicana	
oizella	ella breweri	
oizella	ella passerine	
elgida	idopteryx serripennis	
urneli	nella neglecta	
urnus	nus vulgaris	
achyci	ycineta bicolor	
achyci	ycineta thalassina	
hryom	omanes bewickii	
oxosto	stoma bendirei	
oxosto	stoma curvirostre	
roglod	lodytes aedon	
ırdus	us migratorius	
yrannı	nnus verticalis	
yto all	alba	
ermive	nivora celata	
ermive	nivora luciae	
ermive	nivora ruficapilla	
ermive	nivora virginiae	
ireo b	o bellii	
ireo g	o gilvus	
ilsoni	onia pusilla	
naida	ida asiatica	
naida	ida macroura	
onotri	trichia leucophrys	

Table D-4 Reptile and Amphibian Species Potential Occurrence in the Vicinity of the PSA ¹		
Common Name	Scientific Name	
Arizona glossy snake	Arizona elegans noctivaga	
Sonoran desert toad	Bufo alvarius	
Great plains toad	Bufo cognatus	
Red-spotted toad	Bufo punctatus	
Zebra tail lizard	Callisaurus draconoides	

Banded sand snake Chilomeniscus cinctus Western shovel-nosed snake Chionactus occipitalis	
1	
Gila spotted whiptail Cnemidophorus flagellicaudus	
Western whiptail Cnemidophorus tigris	
Desert banded gecko Coleonyx variegatus	
Western diamondback rattlesnake Crotalus atrox	
Sonoran sidewinder Crotalus cerastes cercobombus	
Speckled rattlesnake Crotalus mitchellii pyrrhus	
Black-tailed rattlesnake Crotalus molossus	
Mojave rattlesnake Crotalus scutulatus Crotalus scutulatus	
Arizona black rattlesnake Crotalus viridis cerberus Crotalus viridis cerberus	
Desert iguana Dipsosaurus dorsalis Combalinacidis	
Large spotted leopard lizard Gambelia wislizenii	
Desert tortoise Gopherus agassizii	
Gila monster Heloderma suspectum	
Canyon tree frog Hyla arenicolor	
Night snake Hypsiglena torquata	
Sonoran mud turtle Kinosternon sonoriense	
Common kingsnake Lampropeltis getula	
Western blind snake Leptotyphlops humilis	
Rosy boa Lichanura trivirgata	
Red coachwhip Masticophis flagellum piceus	
Arizona coral snake Micruroides euryxanthus	
Desert horned lizard Phrynosoma platyrhinos	
Desert horned lizard Phrynosoma platyrhinos calidiarum	
Regal horned lizard Phrynosoma solare	
Saddled leaf-nosed snake Phyllorhynchus browni	
Western leaf-nosed snake Phyllorhynchus decurtatus perkinsi	
Sonoran gopher snake Pituphis melanoleucus affinis	
Bullfrog Rana catesbeiana	
Western long-nosed snake Rhinocheilus lecontei	
Western patch-nosed snake Salvadora hexalepis	
Western chuckwalla Sauromalus obesus	
Couch spadefoot Scaphiopus couchi	
Western spadefoot Scaphiopus hammondii	
Southern spadefoot Scaphiopus multiplicatus	
Sonoran spiny lizard Sceloporus magister	
Yellow-backed spiny lizard Sceloporus magister uniformis	
Ground snake Sonora semiannulata	
SW black-headed snake Tantilla hobartsmithi	

Lyre snake	Trimorphodon biscutatus
Spiny softshell	Trionyx spiniferus
Arizona brush lizard	Urosaurus graciosus shannoni
Tree lizard	Urosaurus ornatus
Side-blotched lizard	Uta stansburiana
¹ Stebbins, R.C. 1985. A Field Guide to Western Reptiles and Amphibians. Peterson Field Guides.	

Invasive Weed Species and Noxious Weeds

Non-native, weedy, and crop species typically dominate remnant agricultural lands and other disturbed and unmaintained areas. It is possible that invasive weed species and/or noxious weeds are present in disturbed areas. Common weed species in the PSA that are not included in the state's noxious weed list include filaree (*Erodium cicutarium*) and Russian thistle (*Salsola tragus*).

Potential Effects

The following sections address the potential effects from development of the various Project components to the biological resources that are likely to occur within the PSA.

Proposed Alignment

Northern Alignment

Loop 202 Proposed Alignment

General Vegetation

Direct Impacts

The Proposed Alignment (P1 - P3) would result in temporary impacts from pads, access roads, and pulling/tensioning sites within the ROW along approximately 1.55 miles of creosote bush scrub and disturbed areas on the east side of Loop 202 or 1.67 miles along the west side of Loop 202. No impacts to active or remnant agriculture are expected. The Project would permanently impact only those areas associated with pole locations. With implementation of Salt River Project Agricultural Improvement and Power District's (SRP's) proposed measures described in **Exhibit** \mathbf{C} , there would be no expected change in species composition and very little impact to the vegetation communities at the actual pole locations as a result of construction or operation. Therefore, the Proposed Alignment would have a minor direct impact on ecosystems and biological communities.

Indirect Impacts

Potential indirect impacts on vegetation communities could include introduction of invasive weed species, which can out-compete native or other desirable vegetation. Implementation of SRP's proposed measures listed in **Table C-2** would minimize or eliminate any potential for the introduction of invasive weed species into the area.

Cumulative Impacts

Agricultural, residential, commercial and industrial development, along with its associated roads and infrastructure, has converted and degraded areas of natural vegetation (wildlife habitat) in the PSA. The Proposed Alignment would permanently impact a very small area and the majority of the Project-related impacts would be temporary and short-term in nature. Therefore, the Proposed Alignment would result in a negligible cumulative impact on vegetation.

Invasive Weed Species and Noxious Weeds

The spread of invasive weed species and/or noxious weeds is not likely to occur as a result of construction due to the lack of noxious weeds observed during field reconnaissance.

As mitigation, all heavy equipment from other geographic areas utilized during construction would be washed prior to arrival on site. This would ensure that weed seed from a different area is not transported into the PSA.

General Wildlife

Direct Impacts

The Proposed Alignment would result in the temporary and permanent disturbance of very low quality wildlife habitat (creosote bush scrub and disturbed habitat) along approximately 1.55 miles of ROW along the east side of Loop 202, or 1.67 miles along the west side of Loop 202. Construction-related impacts would be temporary and short-term, and may include the temporary loss of habitat and displacement of resident wildlife species along the segment, possible injury or death of small burrowing reptiles or mammals during ground-disturbing activities, temporary impacts on wildlife movement, and noise-related disturbance. With implementation of SRP's proposed measures, direct impacts on wildlife associated with the segment would be short-term and minor. Operation of the facilities would include periodic maintenance activities along existing disturbed areas. As a result, direct impacts to wildlife are expected to be very minimal.

Indirect Impacts

During operation of the line, there could be a potential for increased raptor roost sites on poles, which can increase predation rates on certain prey species. This impact is expected to be minimal.

Cumulative Impacts

Agricultural development, housing and industrial development, road development, and other related infrastructure has converted and degraded areas of natural vegetation (wildlife habitat) in the PSA. The Proposed Alignment would permanently impact a very small area and the majority of the Project-related impacts would be temporary and short-term in nature. Therefore, the Proposed Alignment would result in a negligible cumulative impact on wildlife.

Migratory Birds

If construction occurs during the breeding season (approximately February 1 to August 31), SRP will follow the established protocols set out in *the Burrowing Owl Project Clearing Guidance for Landowners (AGFD 2009)*. Therefore, there would be no impacts to active nests.

The new line could create a slight collision risk to birds. However, due to the degraded nature of the habitats within and adjacent to the proposed ROW, the amount of industrial, residential, and commercial development in the PSA, and the lack of high-quality foraging and migration areas in the PSA, this risk would be low and would represent a minor adverse impact on these species. To minimize risk to migratory birds, the lines will be constructed following industry suggested practices aimed at reducing avian collisions and electrocutions (Avian Power Line Interaction Committee [APLIC] 2006 and 2012). If avian line interactions become an issue, SRP will move quickly to evaluate the issue and craft a solution using appropriate state of the art measures.

RS-31 Substation Siting Area

The RS-31 Substation Siting Area is located entirely within vacant land (226 acres) that is dominated by creosote bush scrub with scattered, small mesquite. This vacant land provides low-quality habitat for wildlife. The substation footprint would result in long-term loss of the vegetation type but would result in only minor impacts to the biological community given the low quality of the habitat. The nature of potential direct, indirect, and cumulative impacts for vegetation and wildlife are similar to those described for the Proposed Alignment but are greater because the substation would disturb more acreage.

Central Alignment

State Route (SR)-24 Proposed Alignment

The Proposed Alignment (P5 - P6) would result in temporary impacts from pads, access roads, and pulling/tensioning sites within the ROW, and permanent impacts from pole locations along approximately 2.08 miles of creosote bush scrub with scattered, small mesquite on the north side of SR-24 or 2.55 miles on the south side of SR-24. The nature of potential direct, indirect, and cumulative impacts for vegetation and wildlife are similar to those described for the Northern Proposed Alignment, but slightly greater because this portion of the Project is approximately 0.41 to 1.0 mile longer than the Northern Proposed Alignment.

Southern Alignment

Crismon Road Proposed Alignment

The Proposed Alignment (P6-P14) would result in temporary impacts from pads, access roads, and pulling/tensioning sites within the ROW, and permanent impacts from pole locations along approximately 2.11 miles of creosote bush scrub with scattered mesquite, agricultural fields, and a nursery. The nature of potential direct, indirect, and cumulative impacts for vegetation and wildlife are similar to those described for the Northern Proposed Alignment, but slightly greater

because this portion of the Project is approximately 0.44 to 0.56 miles longer than the Norther Proposed Alignment.

References

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