# **APPENDIX 2**



March 31, 2025

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# SUBJECT: Biological Resources Assessment for the Proposed Phelan Pinon Hills Community Services District Well No. 18 Development Project Located in the Phelan Pinon Hills Community, San Bernardino County, California

#### **Introduction**

This report contains the findings of ELMT Consulting's (ELMT) biological resources assessment for the proposed Phelan Pinon Hills Community Services District (District) Well No. 18 Development Project (project, project site) located in the Phelan Pinon Hills Community, San Bernardino County, California. This report analyzes the impacts of installing one well, but analyzes the site constraints associated with developing the well at the Well No. 18 site or Backup Well site, and proposed pipeline alignments.

The field investigation was conducted by Megan E. Peukert on February 4, 2025, to document baseline conditions and assess the potential for special-status<sup>1</sup> plant and wildlife species to occur within the project site that could pose a constraint to implementation of the proposed project. Special attention was given to the suitability of the project site to support burrowing owl (*Athene cunicularia*), desert tortoise (*Gopherus agassizii*), western Joshua tree (*Yucca brevifolia*), and other special-status plant and wildlife species identified by the California Department of Fish and Wildlife's (CDFW) California Natural Diversity Database (CNDDB), and other electronic databases as potentially occurring in the general vicinity of the project site.

The site was also evaluated for its potential to support natural drainage features, ponded areas, and/or water bodies that have the potential to fall under the regulatory authority of the of the United States Army Corps of Engineers (Corps), Regional Water Quality Control Board (Regional Board), or California Department of Fish and Wildlife (CDFW) pursuant to Sections 401 and 404 of the Federal Clean Water Act (CWA), the California Porter-Cologne Water Quality Control Act, and Section 1600 *et seq.* of the Fish and Game Code.

#### **Project Location**

The proposed project is generally located west of United States Route 395, north of State Route 18, east of Black Butte Airfield, and south of El Mirage Airfield in the Community of Phelan Pinon Hills, San

<sup>1</sup> As used in this report, "special-status" refers to plant and wildlife species that are federally and State listed, proposed, or candidates; plant species that have been designated with a California Native Plant Society Rare Plant Rank; wildlife species that are designated by the CDFW as fully protected, species of special concern, or watch list species; and specially protected natural vegetation communities as designated by the CDFW.

Bernardino County, California. Refer to Exhibits 1-4 in Attachment A.

#### Well No. 18

The project is located within Assessor Parcel Number (APN) 310-056-114 north of Palmdale Road and south of Begonia Road, east of Beekley Road. Well No. 18, its associate appurtenances and pipeline will be installed at this site, and pipeline will be installed within Beekley Road from the project site north to Begonia Road. The project site is located within Section 22, Township 5 North, Range 7 West of the USGS 7.5 Minute Shadow Mountain SE, CA topographical quadrangle.

#### <u>Backup Well</u>

The backup well is located at northeast corner of Barker Road (Riggins Road) and Camellia Road within APN 310-138-125. The Backup Well, its associate appurtenances and pipeline will be installed at this site, and pipeline will be installed within Camellia Road from the project site west to Sheep Creek Road. The project site is located within Section 24, Township 5 North, Range 7 West of the USGS 7.5 Minute Shadow Mountain SE, CA topographical quadrangle.

#### **Project Description**

The District seeks to install a new well at one of the two proposed locations as part of their CIP, which would both aid the District in meeting current and future demand, and minimize Chromium-6 concentrations in the District's water supply. Well No. 18 is proposed to be located on 2.2-acre parcel, APN at APN 310-056-114, in the northern portion of the District, along Beekley Road, south of Begonia Road and north of Highway 18. A backup location for Well No. 18 (Backup Well site) is proposed to be located on a 2.2-acre parcel, APN at APN 310-138-125 in the northern portion of the District, at the northeast corner of Barker Road and Camellia Road, east of Sheep Creek Road and North of Highway 18.

This project analyzes the impacts of installing one well, but analyzes the site constraints associated with developing the well at the Well No. 18 site or Backup Well site. At each of the well locations, pipeline need to be installed to connect the new water supply to the District's existing supply system.

The Well No. 18 site would require installation of about 600 lineal feet (LF) of water pipeline from the project site north along Beekley Road to an existing District water distribution pipeline at Begonia Road. The Backup Well site would require installation of about 1,800 lineal feet (LF) of water pipeline from the project site west along Camellia Road to an existing District water distribution pipeline at Sheep Creek Road. The pipeline, at either site, is anticipated to be 12" diameter in size. The site would include the following features: a 4" drain line to the retention basin; a 10' x 10' chlorination building adjacent to the proposed well; and, a 4" conduit, switch gear, and transformer to connect to the existing powerline pole.

#### **Methodology**

A literature review and records search were conducted to determine which special-status biological resources have the potential to occur on or within the general vicinity of the project site. In addition to the literature review, a general habitat assessment or field investigation of the project site was conducted to document existing conditions and assess the potential for special-status biological resources to occur within the project site.



#### Literature Review

Prior to conducting the field investigation, a literature review and records search was conducted for specialstatus biological resources potentially occurring on or within the vicinity of the project site. Previously recorded occurrences of special-status plant and wildlife species and their proximity to the project site were determined through a query of the CDFW's QuickView Tool in the Biogeographic Information and Observation System (BIOS), CNDDB Rarefind 5, the California Native Plant Society's (CNPS) Electronic Inventory of Rare and Endangered Vascular Plants of California, Calflora Database, compendia of specialstatus species published by CDFW, and the United States Fish and Wildlife Service (USFWS) species listings.

All available reports, survey results, and literature detailing the biological resources previously observed on or within the vicinity of the project site were reviewed to understand existing site conditions and note the extent of any disturbances that have occurred within the project site that would otherwise limit the distribution of special-status biological resources. Standard field guides and texts were reviewed for specific habitat requirements of special-status and non-special-status biological resources, as well as the following resources:

- Google Earth Pro historic aerial imagery (1985-2024);
- United States Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS), Soil Survey<sup>2</sup>;
- USFWS Critical Habitat designations for Threatened and Endangered Species; and
- USFWS Endangered Species Profiles.

The literature review provided a baseline from which to inventory the biological resources potentially occurring within the project site. The CNDDB database was used, in conjunction with ArcGIS software, to locate the nearest recorded occurrences of special-status species and determine the distance from the project site.

#### Field Investigation

Following the literature review, biologists Megan E. Peukert inventoried and evaluated the condition of the habitat within a 200-foot buffer around the project site, where applicable, on February 4, 2025. Plant communities and land cover types identified on aerial photographs during the literature review were verified by walking meandering transects throughout the project site. In addition, aerial photography was reviewed prior to the site investigation to locate potential natural corridors and linkages that may support the movement of wildlife through the area. These areas identified on aerial photography were then walked during the field investigation.

#### Soil Series Assessment

On-site and adjoining soils were researched prior to the field investigation using the USDA NRCS Soil Survey for San Bernardino County, California. In addition, a review of the local geological conditions and historical aerial photographs was conducted to assess the ecological changes that the project site has



<sup>2</sup> A soil series is defined as a group of soils with similar profiles developed from similar parent materials under comparable climatic and vegetation conditions. These profiles include major horizons with similar thickness, arrangement, and other important characteristics, which may promote favorable conditions for certain biological resources.

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#### Plant Communities

Plant communities were mapped using 7.5-minute USGS topographic base maps and aerial photography. The plant communities were classified in accordance with Sawyer, Keeler-Wolf and Evens (2009), delineated on an aerial photograph, and then digitized into GIS Arcview. The Arcview application was used to compute the area of each plant community and/or land cover type in acres.

# <u>Plants</u>

Common plant species observed during the field investigation were identified by visual characteristics and morphology in the field and recorded in a field notebook. Unusual and less-familiar plants were photographed in the field and identified in the laboratory using taxonomic guides. Taxonomic nomenclature used in this study follows the 2012 Jepson Manual (Hickman 2012). In this report, scientific names are provided immediately following common names of plant species (first reference only).

# <u>Wildlife</u>

Wildlife species detected during the field investigation by sight, calls, tracks, scat, or other sign were recorded during surveys in a field notebook. Field guides used to assist with identification of wildlife species during the survey included The Sibley Field Guide to the Birds of Western North America (Sibley 2003), A Field Guide to Western Reptiles and Amphibians (Stebbins 2003), and A Field Guide to Mammals of North America (Reid 2006). Although common names of wildlife species are well standardized, scientific names are provided immediately following common names in this report (first reference only).

#### Jurisdictional Drainages and Wetlands

Aerial photography was reviewed prior to conducting a field investigation in order to locate and inspect any potential natural drainage features, ponded areas, or water bodies that may fall under the jurisdiction of the United States Army Corps of Engineers (Corps), Regional Water Quality Control Board (Regional Board), or CDFW. In general, surface drainage features indicated as blue-line streams on USGS maps that are observed or expected to exhibit evidence of flow are considered potential riparian/riverine habitat and are also subject to state and federal regulatory jurisdiction. In addition, ELMT reviewed jurisdictional waters information through examining historical aerial photographs to gain an understanding of the impact of land-use on natural drainage patterns in the area. The USFWS National Wetland Inventory (NWI) and Environmental Protection Agency (EPA) Water Program "My Waters" data layers were also reviewed to determine whether any hydrologic features and wetland areas have been documented on or within the vicinity of the project site.

#### **Existing Site Conditions**

The proposed project sites are located in an area that supports a variety of land uses in the community of Phelan Pinon Hills. The project sites consists entirely of undeveloped, vacant land which support creosote scrub plant communities. Additionally, anthropogenic disturbances such as illegal dumping and off-road vehicular use, are heavily concentrated along the site boundaries.

The land surrounding the project sites is comprised of undeveloped, vacant land, and residential



developments. The Well No. 18 site is bounded to the north, by undeveloped, vacant land, to the west by undeveloped, vacant land with residential land beyond, to the south by undeveloped, vacant land with State Route 18 beyond, and to the east by Beekley Road with undeveloped, vacant land beyond. The pipeline areas associated with Well No. 18 cross west to east through the middle of the site as well as runs adjacent to the eastern boundary of the site, along Beekley Road and end north at Begonia Road.

The Backup Well site is bounded to the north by undeveloped, vacant land with South Street beyond, to the east by undeveloped, vacant land, to the south by Camelia Road with residential land beyond, and to the west by Riggins Road with undeveloped, vacant land beyond. The pipeline areas associated with the Backup Well site run in a north-south position in the middle of the project site and then exit out of the southern boundary where it extends west along Camelia Road and comes to Sheep Creek Road.

#### **Topography and Soils**

On-site elevation ranges from approximately 2,948 to 2,944 feet above mean sea level and generally slopes from west to east, with no areas of topographic relief. Based on the NRCS USDA Web Soil Survey, the Well No. 18 and associated pipeline areas is entirely underlain by Cajon sand (2 to 9 percent slopes) and the Backup Well and associated pipeline areas is entirely underlain by Manet coarse sand (2 to 5 percent slopes). Refer to Exhibit 5, *Soils*, in attachment A. On-site soils are relatively undisturbed.

#### **Vegetation**

The project sites consist of vacant, undeveloped land that primarily support a creosote bush scrub plant community. In addition, the project sites support one (1) land cover type, that would be classified as disturbed (refer to Exhibit 6 and 7, *Vegetation* in Attachment A). Portions of the project sites have been subject to a variety of anthropogenic disturbances, including off-road vehicular use and illegal dumping. These disturbances occur primarily along the project boundaries, with relatively little disturbance occurring near the center of the project site. Refer to Attachment B, *Site Photographs*, for representative site photographs.

The creosote bush scrub varies in density from unvegetated to moderately vegetated. Common plant species observed on-site include creosote (*Larrea tridentata*), Fourwing saltbush (*Atriplex canescens var. canescens*), rubber rabbitbrush (*Ericameria nauseosa*), Mediterranean mustard (*Hirschfeldia incana*), Russian thistle (*Salsola tragus*), flatspine bursage (*Ambrosia acanthicarpa*), horseweed (*Erigeron canadensis*), California buckwheat (*Eriogonum fasciculatum*), prostrate sandmat (*Euphorbia protstrata*), spineflower (*Chorizanthe* sp.). It should be noted that western Joshua tree (*Yucca brevifolia*) was observed in the 50-foot buffer of the Backup Well associated pipeline.

The disturbed land cover type is associated with the dirt roads along Beekley Road and Camilla Road where the proposed pipelines will be installed. These areas are devoid of vegetation.

#### <u>Wildlife</u>

Plant communities provide foraging habitat, nesting/denning sites, and shelter from adverse weather or predation. This section provides a discussion of those wildlife species that were observed or are expected to occur within the project site. The discussion is to be used a general reference and is limited by the season, time of day, and weather conditions in which the field investigation was conducted. Wildlife detections



were based on calls, songs, scat, tracks, burrows, and direct observation. The project site provides moderate habitat for wildlife species, especially those adapted to a high degree of anthropogenic disturbance.

# <u>Fish</u>

No fish or hydrogeomorphic features (e.g., perennial creeks, ponds, lakes, reservoirs) that would provide suitable habitat for fish were observed on or within the vicinity of the project site. Therefore, no fish are expected to occur and are presumed absent from the project site.

#### <u>Amphibians</u>

No amphibians or hydrogeomorphic features (e.g., perennial creeks, ponds, lakes, reservoirs) that would provide suitable habitat for amphibian species were observed on or within the vicinity of the project site. Therefore, no amphibians are expected to occur on the project site and are presumed absent.

#### <u>Reptiles</u>

The survey area provides limited foraging and cover habitat for local reptile species adapted to conditions within the Mojave Desert. No reptilian species were observed during the field investigation. Common reptilian species that could be expected to occur include Great Basin fence lizard (*Sceloporus occidentalis longipes*), Great basin gopher snake (*Pituophis catenifer deserticola*), and red racer (*Coluber flagellum piceus*).

#### <u>Birds</u>

The project site and surrounding area provide suitable foraging and nesting habitat for bird species adapted to conditions within the Mojave Desert. Bird species detected during the field investigation include California horned lark (*Eremophila alpestris*), house finch (*Haemorhous mexicanus*), common raven (*Corvus corax*), song sparrow (*Melospiza melodia*), white-crowned sparrow (*Zonotrichia leucophrys*), and mourning dove (*Zenaida macroura*).

#### <u>Mammals</u>

The survey area provides moderate foraging and cover habitat for mammalian species adapted to conditions surrounding the Mojave Desert. Mammalian species detected during the field investigation include coyote (*Canis latrans*), California ground squirrel (*Otospermophilus beecheyi*), and white-tailed antelope squirrel (*Ammospermophilus leucurus*). Additional common mammalian species that could be expected to occur include desert cottontail (*Sylvilagus audubonii*).

#### Nesting Birds

No active nests or birds displaying nesting behavior were observed during the field survey, which was conducted outside the breeding season. The project site provides minimal nesting opportunities for year-round and seasonal avian residents, as well as migrating songbirds that are adapted to conditions surrounding the Mojave Desert.

Nesting birds are protected pursuant to the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code (Sections 3503, 3503.5, 3511, and 3513 prohibit the take, possession, or destruction of birds, their nests or eggs). If construction occurs between February 1st and August 31st, a pre-construction clearance survey for nesting birds should be conducted within three (3) days of the start of any vegetation



removal or ground disturbing activities to ensure that no nesting birds will be disturbed during construction.

#### **Migratory Corridors and Linkages**

Habitat linkages provide connections between larger habitat areas that are separated by development. Wildlife corridors are similar to linkages but provide specific opportunities for animals to disperse or migrate between areas. A corridor can be defined as a linear landscape feature of sufficient width to allow animal movement between two comparatively undisturbed habitat fragments. Adequate cover is essential for a corridor to function as a wildlife movement area. It is possible for a habitat corridor to be adequate for one species yet still inadequate for others. Wildlife corridors are features that allow for the dispersal, seasonal migration, breeding, and foraging of a variety of wildlife species. Additionally, open space can provide a buffer against both anthropogenic disturbance and natural fluctuations in resources.

According to the San Bernardino County General Plan, the project site has not been identified as occurring within a Wildlife Corridor or Linkage. As designated by the San Bernardino County General Plan Open Space Element, major open space areas documented in the vicinity of the project site is approximately 7 miles south of the site. The site is separated from this identified regional wildlife corridors and linkages by existing development and roadways, and undeveloped land, and there are no riparian corridors or creeks connecting the project site to these areas.

The undeveloped land in the immediate vicinity of the project site provides local wildlife movement opportunities for wildlife species moving through the immediate area; however, the project site does not function as a major wildlife movement corridor or linkage. As such, implementation of the proposed project is not expected to have a significant impact to wildlife movement opportunities or prevent local wildlife movement through the area since there is ample habitat adjacent to the project site to support wildlife movement opportunities.

#### **Jurisdictional Areas**

There are three key agencies that regulate activities within inland streams, wetlands, and riparian areas in California. The Corps Regulatory Branch regulates discharge of dredge or fill materials into "waters of the United States" pursuant to Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act. Of the State agencies, the CDFW regulates alterations to streambed and bank under Fish and Wildlife Code Sections 1600 et seq., and the Regional Board regulates discharges into surface waters pursuant to Section 401 of the CWA and the California Porter-Cologne Water Quality Control Act.

The USFWS NWI and the USGS National Hydrography Dataset were reviewed to determine if any blueline streams or riverine resources have been documented on the project site. Based on this review, no blueline streams or riverine resources have been identified on the project sites. However, according to the NWI, a riverine feature is mapped crossing the western portion of the pipeline alignment for the Backup Well site along Camellia Road.

The western portion of the Backup Well pipeline alignment crosses a blueline stream that flows from south to north. Additionally, during the field investigation a small drainage was observed on the Backup Well project site. This on-site drainage connects with the blueline stream approximately 440 feet to the northwest of the project site (outside of the project boundaries).



Both of these features are not relatively permanent, standing, or continuously flowing bodies of water and, therefore, will not qualify as waters of the United States under the regulatory authority of the Corps (*Sackett v. EPA* (2022) 143 S. Ct. 1322, 1336). However, these feature will likely fall under the regulatory authority of the Regional Board as waters of the State, and CDFW as jurisdictional streambed. If the Backup Well site is chosen, the project applicant will likely be required to obtain the following regulatory approvals prior to impacts occurring within the identified jurisdictional areas: Corps Approved Jurisdictional Determination/Waiver; Regional Board CWA Section Report of Waste Discharge; and CDFW Section 1602 Streambed Alteration Agreement (SAA).

#### Special-Status Biological Resources

The CNDDB Rarefind 5 and the CNPS Electronic Inventory of Rare and Endangered Vascular Plants of California were queried for reported locations of special-status plant and wildlife species as well as special-status natural plant communities in the Shadow Mountain Southeast and Phelan USGS 7.5-minute quadrangles. The habitat assessment evaluated the conditions of the habitat(s) within the boundaries of the project site to determine if the existing plant communities, at the time of the survey, have the potential to provide suitable habitat(s) for special-status plant and wildlife species.

The literature search identified seven (7) special-status plant species and fifteen (15) special-status wildlife species as having potential to occur within the Shadow Mountain Southeast and Phelan USGS 7.5-minute quadrangles. No special-status plant communities were identified as having potential to occur within these quadrangles. Special-status plant and wildlife species were evaluated for their potential to occur within the project site based on habitat requirements, availability, and quality of suitable habitat, and known distributions. Species determined to have the potential to occur within the general vicinity of the project site is presented in Attachment C: *Potentially Occurring Special-Status Biological Resources*.

#### Special-Status Plants

According to the CNDDB and CNPS, seven (7) special-status plant species have been recorded in the Shadow Mountain Southeast and Phelan quadrangles (refer to Attachment C). No special-status plant species were observed within the proposed project sites. However, it should be noted that one (1) western Joshua tree was observed within 50 feet of the Backup Well site pipeline alignment. The majority of the project site consists of vacant, undeveloped land which supports a native creosote scrub community and is primarily surrounded by undeveloped, vacant and residential land. Based on the availability and quality of on-site habitats, habitat requirements for specific species, and general isolation of the site from nearby open spaces, it was determined that the project site does not have the potential to support any of the other special-status plant species known to occur in the area and all are presumed to be absent.

# Western Joshua Tree

The California Fish and Game Commission (Commission) designated the western Joshua tree as a candidate for listing under the California Endangered Species Act (CESA) in October 2020. This action afforded the western Joshua tree the same CESA protections as listed species, which means that removal of the desert trees was subject to fines and criminal penalties unless authorized by a "take" permit issued by the CDFW. Such permits were difficult to obtain, and when issued would authorize removal only in limited circumstances. The new law, which became effective July 1, 2023, streamlines the western Joshua Tree take permit process and broadens the purposes for which a permit may be issued. A western Joshua tree



may now be removed for any purpose, so long as a permit is obtained and the removal is fully mitigated, or alternatively, an in-lieu mitigation fee is paid. The table below summarizes the new rules for the area in which the project site is located.

Location	Project Type	Requirements	
Project is located within the standard fee area.	All project types.	<ul> <li>Full mitigation, or in-lieu fee as follows:</li> <li>\$2,544.75 per tree &gt; 5 meters tall</li> <li>\$509 per tree 1 to 5 meters tall</li> <li>\$346.00 per tree &lt; 1 meter tall</li> </ul>	

One (1) size class B (1 to 5 meters tall) western Joshua tree was observed within the 50-foot buffer of the Backup Well associated pipeline during the field investigation. No western Joshua trees were observed within project boundaries.

If the Backup Well site is chosen, a formal western Joshua tree census will be needed to catalog the trees. Further, an Incidental Take Permit will need to be prepared and processed with CDFW for potential indirect impacts to western Joshua tree. If implementation of the proposed project should result in impacts to, or removal of any of the western Joshua trees occurring onsite, payment for mitigation will be needed into the western Joshua tree mitigation fund.

# Special-Status Wildlife

According to the CNDDB, fifteen (15) special-status wildlife species have been reported in the Shadow Mountain Southeast and Phelan quadrangles (refer to Attachment C). No special-status wildlife species were observed or detected during the field investigation. The project site supports a creosote scrub community, which is capable of providing potential foraging and nesting/denning opportunities for wildlife species, especially those adapted to a high degree of anthropogenic disturbance. Based on habitat requirements for specific species and the availability and quality of on-site habitats, it was determined that the proposed project site has a moderate potential to provide suitable habitat for Costa's hummingbird (*Calypte costae*) and loggerhead shrike (*Lanius ludovicianus*); and a low potential to support Crotch's bumble bee (*Bombus crotchii*).

Costa's hummingbird and Loggerhead shrike are not state or federally listed as threatened or endangered. In order to ensure impacts to Costa's hummingbird and loggerhead shrike do not occur from implementation of the proposed project, a pre-construction nesting bird clearance survey shall be conducted prior to ground disturbance. With implementation of the pre-construction nesting bird clearance survey, impacts to specialstatus avian species will be less than significant and no mitigation will be required.

Due to regional significance, the potential occurrence of burrowing owl, desert tortoise, and Crotch's bumble bee are discussed in further detail below.

#### Burrowing Owl

The burrowing owl is currently listed as a Candidate endangered species under the California Endangered Species Act (CESA). It is a grassland specialist distributed throughout western North America where it occupies open areas with short vegetation and bare ground within shrub, desert, and grassland environments. Burrowing owls use a wide variety of arid and semi-arid environments with well-drained, level to gently-sloping areas characterized by sparse vegetation and bare ground (Haug and Didiuk 1993;



Dechant et al. 1999). Burrowing owls are dependent upon the presence of burrowing mammals (such as ground squirrels) whose burrows are used for roosting and nesting (Haug and Didiuk 1993). The presence or absence of colonial mammal burrows is often a major factor that limits the presence or absence of burrowing owls. Where mammal burrows are scarce, burrowing owls have been found occupying manmade cavities, such as buried and non-functioning drain pipes, stand-pipes, and dry culverts. Burrowing mammals may burrow beneath rocks and debris or large, heavy objects such as abandoned cars, concrete blocks, or concrete pads. They also require open vegetation allowing line-of-sight observation of the surrounding habitat to forage as well as watch for predators.

Despite a systematic search of the project site, no burrowing owls or sign (i.e., pellets, feathers, castings, or whitewash) were observed during the field investigation. The majority of the project site is vegetated with a variety of low-growing plant species that allow for line-of-sight observation favored by burrowing owl. However, no suitable mammal burrows or structures/pipes that have the potential to provide suitable burrowing owl nesting habitat (>4 inches in diameter) were observed within the boundaries of the site. Further, trees found onsite, and surrounding electrical poles north of the project site provide suitable perching opportunities for large raptors (i.e., red-tailed hawk) that can prey on burrowing owl.

Based on the results of the field investigation, it was determined that the project site does not have potential to support burrowing owl, and focused surveys are not recommended. However, out of an abundance of caution, a pre-construction burrowing owl clearance survey is recommended to be conducted prior to development to ensure burrowing owl remain absent from the project site.

### Crotch Bumblebee

The Crotch bumblebee is a candidate species for listing status by the CESA. It is a colonial species that lives almost exclusively from coastal California east towards the Sierra-Cascade Crest and can be found uncommonly in western Nevada and south through Baja California. The Crotch bumblebee inhabits grassland and scrub habitats in hotter and drier climates than most other bumblebee species and is only capable of tolerating a narrow range of climatic conditions. This species feeds on a variety of annual and perennial plant species, classifying it as a dietary generalist. It usually nests underground, often in abandoned rodent dens. Queens are active from March to May, with peak activity occurring in April; workers are active from April to August, with peak activity occurring between May and June; and males are active from May to September, with peak activity occurring in July.

A records search was conducted for Crotch's bumble bee occurrences within a 5-mile radius of the project site. The nearest occurrence, recorded in 2023, is located approximately 10 miles southeast of the site in the City of Hesperia. While the available native plant diversity supported by the creosote bush scrub plant community provides limited foraging habitat for Crotch bumblebee due to this species being a dietary generalist, the project sites provide minimal habitat for this species.

Generally, for all bumble bee species, high-quality habitat have three major components: a diverse supply of flowers for nectar and pollen, nesting locations, and subterranean spaces for overwintering queens (Hatfield et al. 2012). Based on the results of this assessment, the project site and immediately surrounding areas were determined to provide low plant diversity for nectar sources. Further, no bumble bees have been recorded in the immediate vicinity of the project site. Due to existing anthropogenic disturbances surrounding the project site, low plant diversity for nectar sources, and lack of recorded occurrences in the



immediate vicinity of the project site Crotch bumble bee was determined to have a low potential to support Crotch bumblebee.

#### Desert Tortoise

The Mojave population of the desert tortoise inhabits areas north and west of the Colorado River in the Mojave Desert of California, Nevada, Arizona, and southwestern Utah, and in the Sonoran Desert in California. Throughout the majority of the Mojave Desert, desert tortoises occur most commonly on gentle sloping soils characterized by an even mix of sand and gravel and sparsely vegetated low-growing vegetation where there is abundant inter-shrub space. Typical habitat for the Mojave desert tortoise has been characterized as Mojavean desert scrub below 5,500 feet in elevation with a high diversity of perennial and ephemeral plants. The dominant shrub commonly associated with desert tortoise habitat is creosote bush; however, other shrubs including burrobush (*Ambrosia dumosa*), Mojave yucca, cheesebush (*Ambrosia salsola*), and Mojave prickly pear (*Opuntia mojavensis*) also provide suitable habitat. The desert tortoise spends 95 percent of its life underground and will opportunistically utilize burrows of various lengths, deep caves, rock and caliche crevices, or overhangs for cover. Therefore, moderately friable soil is required to allow for burrow construction and ensure that burrows do not collapse.

No live desert tortoises, suitable burrows, or other signs were observed during the field investigation. Additionally, the project site is isolated from known desert tortoise habitat by existing development, including roadways which support regular traffic. As a result, desert tortoise are presumed to be absent from the project site and focused surveys are not recommended.

#### Critical Habitats

Under the federal Endangered Species Act, "Critical Habitat" is designated at the time of listing of a species or within one year of listing. Critical Habitat refers to specific areas within the geographical range of a species at the time it is listed that include the physical or biological features that are essential to the survival and eventual recovery of that species. Maintenance of these physical and biological features requires special management considerations or protection, regardless of whether individuals or the species are present or not. All federal agencies are required to consult with the USFWS regarding activities they authorize, fund, or permit which may affect a federally listed species or its designated Critical Habitat. The purpose of the consultation is to ensure that projects will not jeopardize the continued existence of the listed species or adversely modify or destroy its designated Critical Habitat. The designation of Critical Habitat does not affect private landowners, unless a project they are proposing is on federal lands, uses federal funds, or requires federal authorization or permits (e.g., funding from the Federal Highways Administration or a Clean Water Act Permit from the United States Army Corps of Engineers). If a there is a federal nexus, then the federal agency that is responsible for providing the funding or permit would consult with the USFWS.

The project site is not located within federally designated Critical Habitat. The nearest Critical Habitat designation is located approximately 11 miles to the southwest for mountain yellow-legged frog (*Rana muscosa*). Therefore, no impacts to federally designated Critical Habitat will occur from implementation of the proposed project.



#### **Conclusion**

Based literature review and field survey, and existing site conditions discussed in this report, implementation of the project will have no significant impacts on federally or State listed species known to occur in the general vicinity of the project site. Additionally, the project will have no effect on designated Critical Habitat, or regional wildlife corridors/linkage because none exists within the area. Two ephemeral drainage features were observed in association with the Backup Well site; one drainage feature onsite, and the other within the pipeline alignment. These features will likely fall under the regulatory authority of the Regional Board as waters of the State, and CDFW as jurisdictional streambed. With completion of the recommendations provided below, no impacts to year-round, seasonal, or special-status avian residents or special-status species will occur from implementation of the proposed project.

#### **Recommendations**

#### Migratory Bird Treaty Act and Fish and Game Code

Nesting birds are protected pursuant to the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code (Sections 3503, 3503.5, 3511, and 3513 prohibit the take, possession, or destruction of birds, their nests or eggs). In order to protect migratory bird species, a nesting bird clearance survey should be conducted prior to any ground disturbance or vegetation removal activities that may disrupt the birds during the nesting season.

If construction occurs between February 1<sup>st</sup> and August 31<sup>st</sup>, a pre-construction clearance survey for nesting birds should be conducted within three (3) days of the start of any vegetation removal or ground disturbing activities to ensure that no nesting birds will be disturbed during construction. The biologist conducting the clearance survey should document a negative survey with a brief letter report indicating that no impacts to active avian nests will occur. If an active avian nest is discovered during the pre-construction clearance survey, construction activities should stay outside of a no-disturbance buffer. The size of the no-disturbance buffer will be determined by the wildlife biologist and will depend on the level of noise and/or surrounding anthropogenic disturbances, line of sight between the nest and the construction activity, type and duration of construction activity, ambient noise, species habituation, and topographical barriers. These factors will be evaluated on a case-by-case basis when developing buffer distances. Limits of construction to avoid an active nest will be established in the field with flagging, fencing, or other appropriate barriers; and construction personnel will be instructed on the sensitivity of nest areas. A biological monitor should be present to delineate the boundaries of the buffer area and to monitor the active nest to ensure that nesting behavior is not adversely affected by the construction activity. Once the young have fledged and left the nest, or the nest otherwise becomes inactive under natural conditions, construction activities within the buffer area can occur.

#### Pre-construction Burrowing Owl Clearance Survey

To ensure burrowing owl remain absent from the project site, a pre-construction burrowing owl clearance survey shall be conducted in accordance with CDFW's 2012 Staff Report on Burrowing Owl Mitigation. Two surveys shall be conducted, the first 14-30 days prior to ground disturbing activities and the second within 24 hours immediately before ground disturbing activities. If no burrowing owls are observed onsite, no further review will be required.



Although not anticipated, if burrowing owl are found onsite during the pre-construction clearance surveys, coordination will need to occur with the CDFW to determine if avoidance and minimization measures can be implemented to avoid any direct or indirect impacts to burrowing owl, or if an Incidental Take Permit Under Section 2081 of the CESA will need to be prepared and approved by CDFW.

#### Western Joshua Tree Incidental Take Permit

No western Joshua trees were observed within project boundaries. However, one (1) size class B (1 to 5 meters tall) western Joshua tree was observed within the 50-foot buffer of the Backup Well associated pipeline during the field investigation. If the Backup Well site is chosen, a formal western Joshua tree census will be needed to catalog the trees. Further, an Incidental Take Permit will need to be prepared and processed with CDFW for potential indirect impacts to western Joshua tree. If implementation of the proposed project should result in impacts to, or removal of any of the western Joshua trees occurring onsite, payment for mitigation will be needed into the western Joshua tree mitigation fund.

#### Regulatory Approvals

If the Backup Well site is chosen, the project applicant will likely be required to obtain the following regulatory approvals prior to impacts occurring within the identified jurisdictional areas: Corps Approved Jurisdictional Determination/Waiver; Regional Board CWA Section Report of Waste Discharge; and CDFW Section 1602 Streambed Alteration Agreement (SAA).

Please do not hesitate to contact Tom McGill at (951) 285-6014 or <u>tmcgill@elmtconsulting.com</u> or Travis McGill at (909) 816-1646 or <u>travismcgill@elmtconsulting.com</u> should you have any questions this report.

Sincerely,

Thomas J. McGill, Ph.D. Managing Director

angina

Travis J. McGill Director

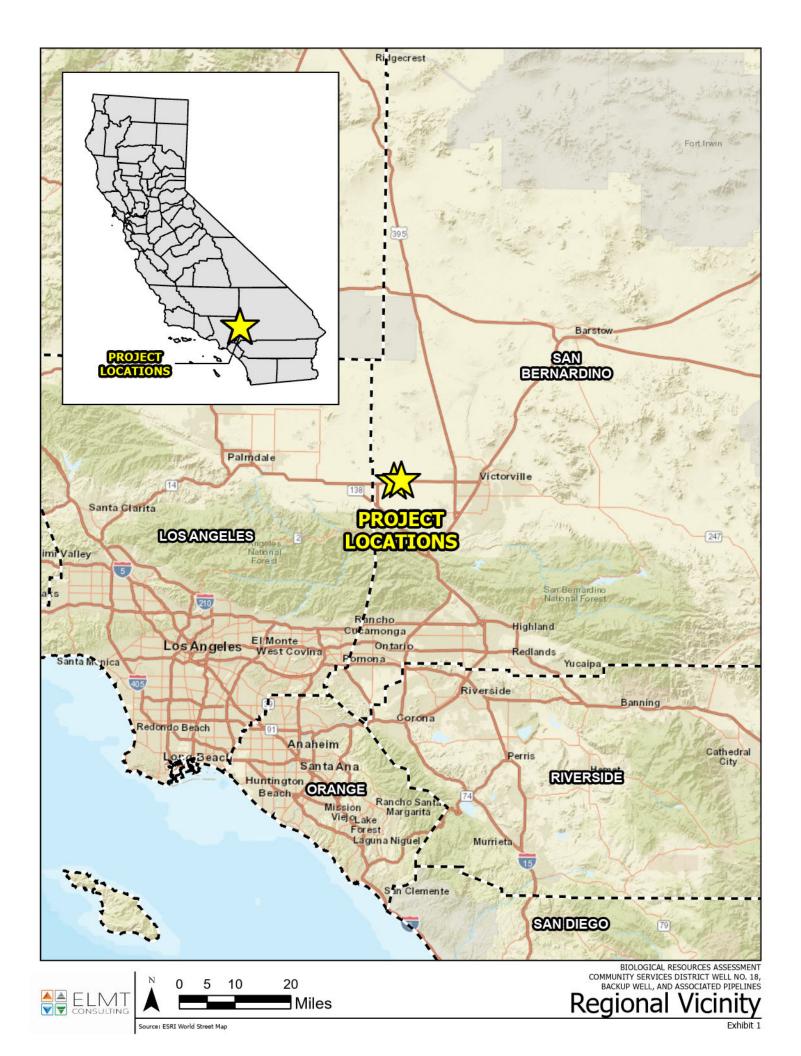
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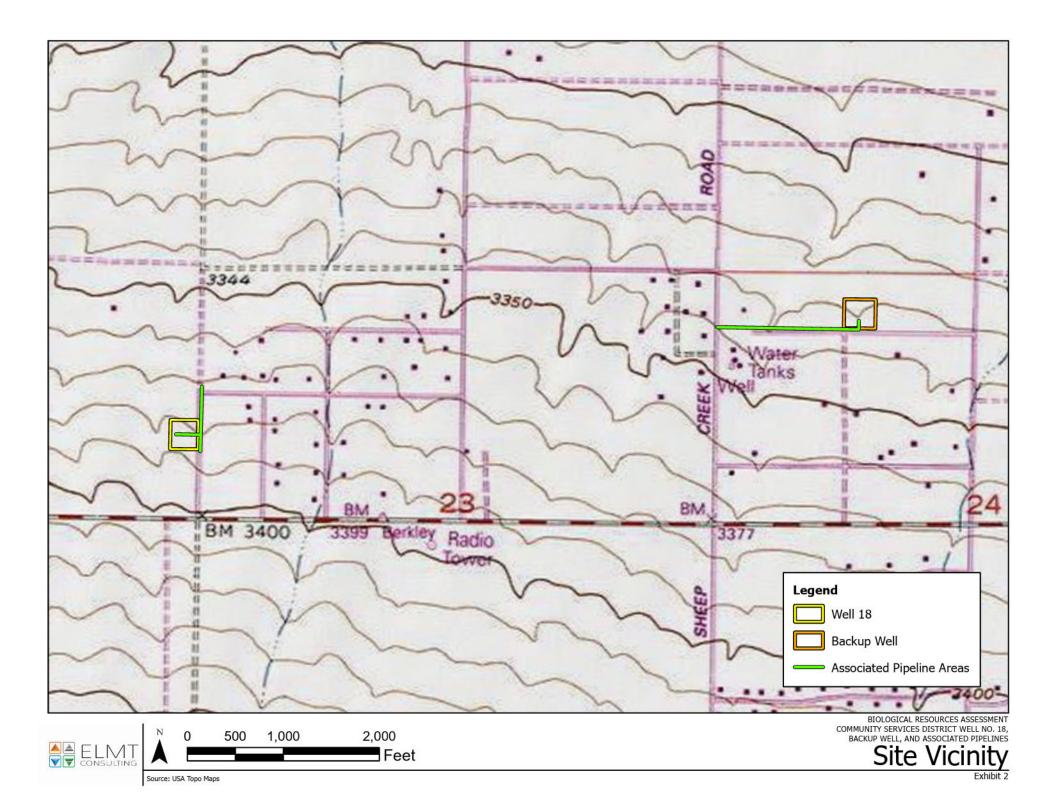
- A. Project Exhibits
- B. Site Photographs
- C. Potentially Occurring Special-Status Biological Resources
- D. Regulations
- E. Site Plans

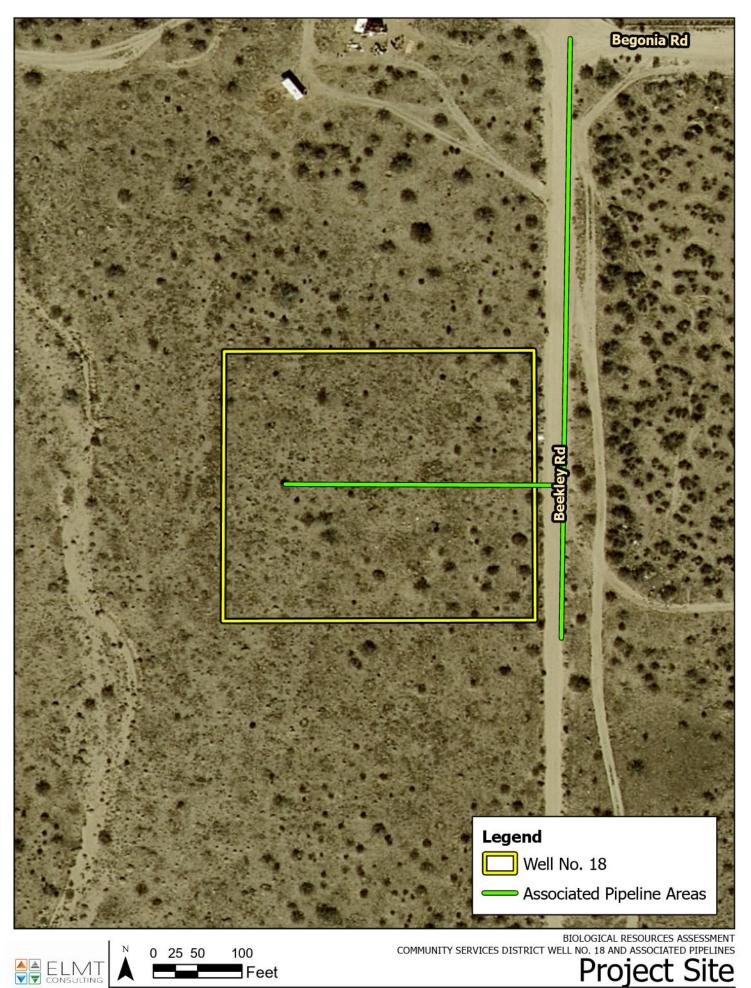


# Attachment A

Project Exhibits

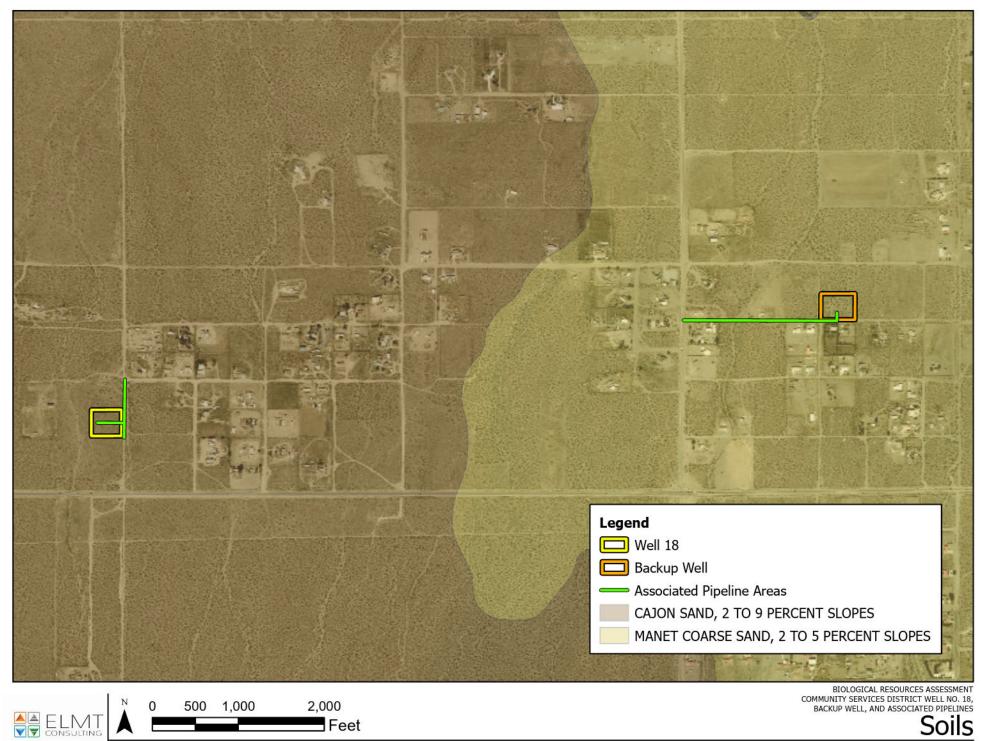


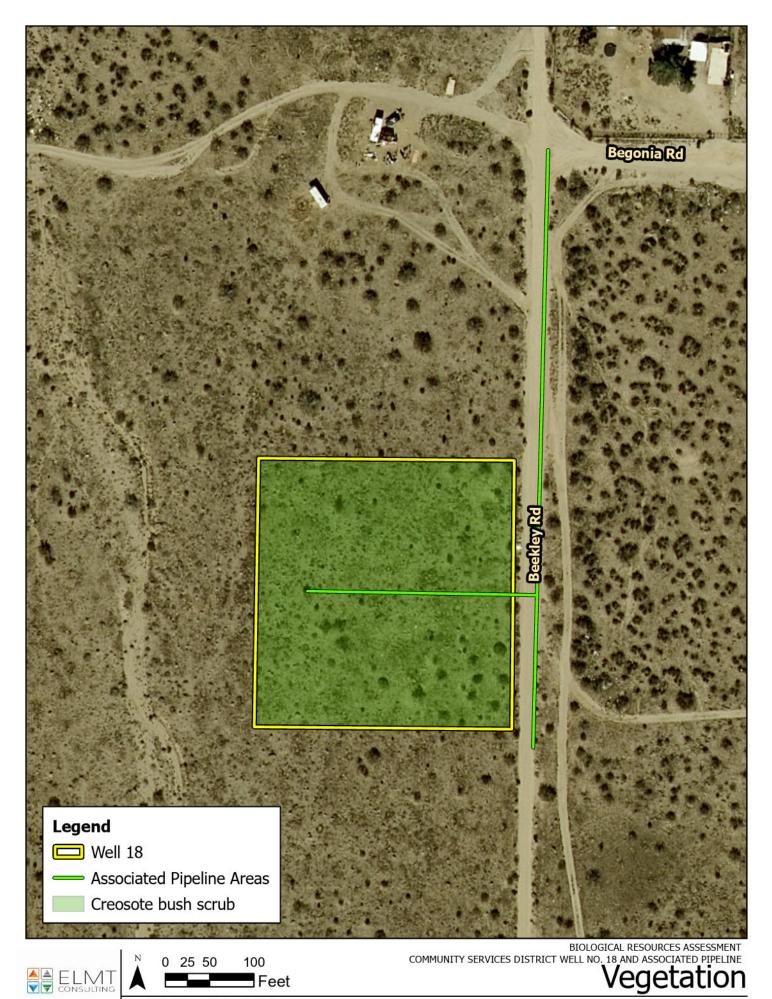




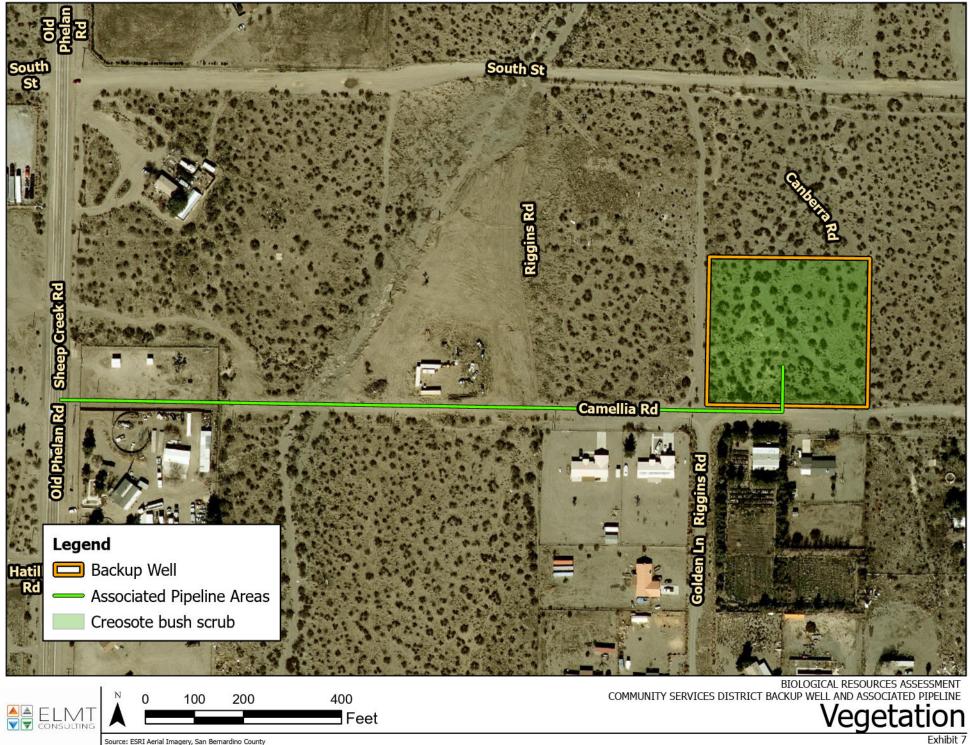
Source: ESRI Aerial Imagery, San Bernardino County







Source: ESRI Aerial Imagery, San Bernardino County



# Attachment B

Site Photographs



Photograph 1: From the northwest corner of Well No. 18 looking south along the western boundary.



Photograph 2: From the northwest corner of Well No. 18 looking east along the northern boundary.





Photograph 3: From the northeast corner of Well No. 18 looking west along the northern boundary.



Photograph 4: From the northeast corner of Well No. 18 looking south along the eastern boundary and Beekley Road.





Photograph 5: From the southeast corner of Well No. 18 looking west along the southern boundary.



Photograph 6: From the southeast corner of Well No. 18 looking north along the eastern boundary and Beekley Road.





Photograph 7: From the southwest corner of Well No. 18 looking north along the western boundary.



Photograph 8: From the southwest corner of Well No. 18, looking east along the southern boundary.





Photograph 9: From the middle of the Well No. 18 associated pipeline area looking north along Beekley Road.



Photograph 10: From the middle of the Well No. 18 associated pipeline area looking south along Beekley Road.





Photograph 11: From the northwest corner of the Backup Well looking south along the western boundary and Riggins Road.



Photograph 12: From the northwest corner of the Backup Well looking east along the northern boundary.





Photograph 13: From the northeast corner of the Backup Well looking west along the northern boundary.



Photograph 14: From the northeast corner of the Backup Well looking south along the eastern boundary.





Photograph 15: From the southeast corner of the Backup Well looking west along the southern boundary and Camellia Road.



Photograph 16: From the southeast corner of the Backup Well looking north along the eastern boundary.





Photograph 17: From the southwest corner of the Backup Well looking north along the western boundary and Riggins Road.



Photograph 18: From the southwest corner of the Backup Well looking east along the southern boundary and Camellia Road.





Photograph 19: From the middle of the Backup Well associated pipeline area looking east along Camellia Road.



Photograph 20: From the middle of the Backup Well associated pipeline area looking west along Camellia Road.



# Attachment C

Potentially Occurring Special-Status Biological Resources

<i>Scientific Name</i> Common Name	Status	Habitat Description	Observed On-site	Potential to Occur				
SPECIAL-STATUS WILDLIFE SPECIES								
<i>Athene cunicularia</i> burrowing owl	Fed: CE CA: SSC	Prefers habitat with short, sparse vegetation with few shrubs and well-drained soils in grassland, shrub steppe, and desert habitats. Primarily a grassland species, but it persists and even thrives in some landscapes highly altered by human activity. Occurs in open, annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. The overriding characteristics of suitable habitat appear to be burrows for roosting and nesting and relatively short vegetation with only sparse shrubs and taller vegetation.	No	Presumed Absent Portions of the project site support line-of- sight opportunities favored by burrowing owls; however, no suitable burrows (>4 inches in diameter) are present. In addition, there are free roaming domestic dogs present on-site which would deter burrowing owl presence.				
<i>Bombus crotchii</i> Crotch bumblebee	Fed: None CA: CE	Exclusive to coastal California east towards the Sierra-Cascade Crest; less common in western Nevada.	No	<b>Low</b> Minimal habitat present within or adjacent to the project site.				
<b>Buteo swainsoni</b> Swainson's hawk	Fed: None CA: <b>THR</b>	Typical habitat is open desert, grassland, or cropland containing scattered, large trees or small groves. Breeds in stands with few trees in juniper-sage flats, riparian areas, and in oak savannah in the Central Valley. Forages in adjacent grassland or suitable grain or alfalfa fields or livestock pastures.	No	<b>Presumed Absent</b> There is no suitable habitat present within or adjacent to the project site.				
<i>Calypte costae</i> Costa's hummingbird	Fed: None CA: None	Desert and semi-desert, arid brushy foothills and chaparral. A desert hummingbird that breeds in the Sonoran and Mojave Deserts. Departs desert heat moving into chaparral, scrub, and woodland habitats.	No	<b>Moderate</b> There is suitable habitat present within or adjacent to the project site.				
<i>Eumops perotis californicus</i> western mastiff bat	Fed: None CA: SSC	Primarily a cliff-dwelling species, roost generally under exfoliating rock slabs. Roosts are generally high above the ground, usually allowing a clear vertical drop of at least 3 meters below the entrance for flight. In California, it is most frequently encountered in broad open areas. Its foraging habitat includes dry desert washes, flood plains, chaparral, oak woodland, open ponderosa pine forest, grassland, and agricultural areas.	No	<b>Presumed Absent</b> There is no suitable habitat present within or adjacent to the project site.				
<i>Gopherus agassizii</i> Mojave desert tortoise	Fed: THR CA: THR	Occurs in desert scrub, desert wash, and Joshua tree habitats with friable, sandy, well-drained soils for nest and burrow construction. Highest densities occur in creosote bush scrub with extensive annual wildflower blooms and succulents with little to no non-native plant species.	No	Presumed Absent No desert tortoises, sign, or burrows were observed during the habitat assessment. In addition, adjacent and surrounding development has fragmented habitats in the vicinity of the site and excluded the site from more suitable areas.				

# Table C-1: Potentially Occurring Special-Status Biological Resources



<i>Scientific Name</i> Common Name	Status		Habitat Description	Observed On-site	Potential to Occur
<i>Juniperella mirabilis</i> Juniper metallic wood-boring beetle	Fed: CA:	None None	Often found on junipers, trees, and shrubs in the San Bernardino National Forest.	No	Presumed Absent No suitable habitat is present within or adjacent to the project site.
<i>Lanius ludovicianus</i> loggerhead shrike	Fed: CA:	None SSC	Prefers open habitats with bare ground, scattered shrubs, and areas with low or sparse herbaceous cover including open-canopied valley foothill hardwood, riparian, pinyon-juniper, desert riparian, creosote bush scrub, and Joshua tree woodland. Requires suitable perches including trees, posts, fences, utility lines, or other perches.	No	<b>Moderate</b> There is suitable habitat present within or adjacent to the project site.
<i>Phrynosoma blainvillii</i> coast horned lizard	Fed: CA:	None SSC	Occurs in a wide variety of vegetation types including coastal sage scrub, annual grassland, chaparral, oak woodland, riparian woodland and coniferous forest. In inland areas, this species is restricted to areas with pockets of open microhabitat, created by disturbance (i.e. fire, floods, roads, grazing, fire breaks). The key elements of such habitats are loose, fine soils with a high sand fraction; an abundance of native ants or other insects; and open areas with limited overstory for basking and low, but relatively dense shrubs for refuge.	No	<b>Presumed Absent</b> No suitable habitat is present within or adjacent to the project site.
<i>Selasphorus rufus</i> rufous hummingbird	Fed: CA:	None None	Breed in open or shrubby areas, forest openings, yards, and parks. During migration they are commonly found in disturbed areas where its food flowers are in bloom. Breeds in the northeastern United States and Canada.	No	<b>Presumed Absent</b> No suitable habitat is present within or adjacent to the project site.
<i>Spinus lawrencii</i> Lawrence's goldfinch	Fed: CA:	None None	Breeds in a variety of habitats including streamside trees, oak woodland, open pine woodland, pinyon juniper woods, and chaparral. Often found close to water in dry country. Migrates and winters in weedy fields, farmland, bushy areas, and stream sides.	No	<b>Presumed Absent</b> No suitable habitat is present within or adjacent to the project site.
<i>Spizella breweri</i> Brewer's sparrow	Fed: CA:	None None	Habitats include sagebrush and brushy plains.	No	Presumed Absent No suitable habitat is present within or adjacent to the project site.
<i>Taxidea taxus</i> American badger	Fed: CA:	None SSC	Primarily occupy grasslands, parklands, farms, tallgrass and shortgrass prairies, meadows, shrub-steppe communities and other treeless areas with sandy loam soils where it can dig more easily for its prey. Occasionally found in open chaparral (with less than 50% plant cover) and riparian zones.	No	<b>Presumed Absent</b> No suitable habitat is present within or adjacent to the project site.
<i>Toxostoma lecontei</i> Le Conte's thrasher	Fed: CA:	None SSC	An uncommon to rare, local resident in southern California deserts from southern Mono Co. south to the Mexican border, and in western and southern San Joaquin Valley. Occurs primarily in open desert wash, desert scrub, alkali desert scrub, and desert succulent shrub habitats; also occurs in Joshua tree habitat with scattered shrubs.	No	<b>Presumed Absent</b> No suitable habitat is present within or adjacent to the project site.



<i>Scientific Name</i> Common Name	Status		Habitat Description	Observed On-site	Potential to Occur
<i>Xerospermophilus mohavensis</i> Mohave ground squirrel	Fed: CA:	None THR	Restricted to the Mojave Desert in open desert scrub, alkali desert scrub, annual grassland, and Joshua tree woodland. Prefers sandy to gravelly soils and tends to avoid rocky areas. Occurs sympatrically with the white-tailed antelope squirrel.	No	<b>Presumed Absent</b> No suitable habitat is present within or adjacent to the project site.
			SPECIAL-STATUS PLANT SPECIES		
<i>Canbya candida</i> white pygmy-poppy	Fed: CA: CNPS:	None None 4.2	Occurs on gravelly, sandy, granitic soils in Joshua tree woodland, Mojavean desert scrub, and pinyon and juniper woodland. Found at elevations ranging from 2,297 to 5,249 feet above mean sea level (msl). Blooming period is from March to June.	No	<b>Presumed Absent</b> There is no suitable habitat within or adjacent to the project site.
<i>Castilleja plagiotoma</i> Mojave paintbrush	Fed: CA: CNPS:	None None 4.3	Found in Great Basin scrub (alluvial), Joshua tree woodland, lower montane coniferous forest, and pinyon and juniper woodland habitats. Found at elevations ranging from 985 to 8,205 feet above msl. Blooming period is from April to June.	No	<b>Presumed Absent</b> There is no suitable habitat within or adjacent to the project site.
<i>Diplacus johnstonii</i> Johnston's monkeyflower	Fed: CA: CNPS:	None None 4.3	Occurs in lower montane coniferous forest (scree, disturbed areas, rocky or gravelly roadside) habitat. Found at elevations ranging from 3,199 to 9,580 feet above msl. Blooming period is from May to August.	No	Presumed Absent There is no suitable habitat present within or adjacent to the project site. The site occurs outside of the known elevation range for this species.
<i>Eremothera boothii</i> ssp. <i>boothii</i> Booth's evening-primrose	Fed: CA: CNPS:	None None 2B.3	Can be found in sagebrush desert on dry rocky slopes, loose soils, sand or ash, and sometimes along roadsides from low desert plains to mountains and slopes at over 6,000 feet. Blooms from February to August.	No	<b>Presumed Absent</b> There is no suitable habitat within or adjacent to the project site.
<i>Monardella exilis</i> Mojave monardella	Fed: CA: CNPS:	None None 4.2	Sandy; Chenopod scrub, Desert dunes, Great Basin scrub, Joshua tree "woodland", Lower montane coniferous forest, Mojavean desert scrub, Pinyon and juniper woodland; Elevation range: 1970 to 6725 feet; Blooming period: Apr-Sep.	No	<b>Presumed Absent</b> No suitable habitat is present within or adjacent to the project site.
<i>Opuntia basilaris</i> var. <i>brachyclada</i> short-joint beavertail	Fed: CA: CNPS:	None None 1B.2	Habitats include chaparral, Joshua tree woodland, Mojavean desert scrub, pinyon and juniper woodlands. Found at elevations ranging from 1,394 to 5,906 feet above msl. Blooming period is from April to August.	No	<b>Presumed Absent</b> There is no suitable habitat within or adjacent to the project site.
<i>Yucca brevifolia</i> western Joshua tree	Fed: CA: CNPS:	None CTH CBR	Occurs in a variety of arid habitats within the Mojave Desert. Found at elevations ranging from 1,600 to 6,600 feet. Blooming period is from March to June.	No	Absent No western Joshua trees were observed onsite, however one was observed within 50-foot buffer of the Backup Well site associated pipeline.

#### U.S. Fish and Wildlife Service (Fed) - Federal END – Federal Endangered THR – Federal Threatened

#### California Department of Fish and Wildlife (CA) - California

- (CA) California END – California Endangered
- THR California Threatened

#### California Native Plant Society (CNPS) -California Rare Plant Rank

1B Plants Rare, Threatened, or Endangered in California and Elsewhere

#### Threat Ranks

0.2- Moderately threatened in California0.3- Not very threatened in California

DL - Deli	sted
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- CTHR California Candidate Threatened DL - Delisted FP – California Fully Protected SSC – California Species of Special Concern WL – California Watch List CE – Candidate Endangered
- 2B Plants Rare, Threatened, or Endangered in California, but More Common Elsewhere
- 4 Plants of Limited Distribution A Watch List



# Attachment D

Regulations

Special status species are native species that have been afforded special legal or management protection because of concern for their continued existence. There are several categories of protection at both federal and state levels, depending on the magnitude of threat to continued existence and existing knowledge of population levels.

#### **Federal Regulations**

#### **Endangered Species Act of 1973**

Federally listed threatened and endangered species and their habitats are protected under provisions of the Federal Endangered Species Act (ESA). Section 9 of the ESA prohibits "take" of threatened or endangered species. "Take" under the ESA is defined as to "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any of the specifically enumerated conduct." The presence of any federally threatened or endangered species that are in a project area generally imposes severe constraints on development, particularly if development would result in "take" of the species or its habitat. Under the regulations of the ESA, the United States Fish and Wildlife Service (USFWS) may authorize "take" when it is incidental to, but not the purpose of, an otherwise lawful act.

Critical Habitat is designated for the survival and recovery of species listed as threatened or endangered under the ESA. Critical Habitat includes those areas occupied by the species, in which are found physical and biological features that are essential to the conservation of an ESA listed species and which may require special management considerations or protection. Critical Habitat may also include unoccupied habitat if it is determined that the unoccupied habitat is essential for the conservation of the species.

Whenever federal agencies authorize, fund, or carry out actions that may adversely modify or destroy Critical Habitat, they must consult with USFWS under Section 7 of the ESA. The designation of Critical Habitat does not affect private landowners, unless a project they are proposing uses federal funds, or requires federal authorization or permits (e.g., funding from the Federal Highway Administration or a permit from the U.S. Army Corps of Engineers (Corps)).

If USFWS determines that Critical Habitat will be adversely modified or destroyed from a proposed action, the USFWS will develop reasonable and prudent alternatives in cooperation with the federal institution to ensure the purpose of the proposed action can be achieved without loss of Critical Habitat. If the action is not likely to adversely modify or destroy Critical Habitat, USFWS will include a statement in its biological opinion concerning any incidental take that may be authorized and specify terms and conditions to ensure the agency is in compliance with the opinion.

#### Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) (16 U.S. Government Code [USC] 703) makes it unlawful to pursue, capture, kill, possess, or attempt to do the same to any migratory bird or part, nest, or egg of any such bird listed in wildlife protection treaties between the United States, Great Britain, Mexico, Japan, and the countries of the former Soviet Union, and authorizes the U.S. Secretary of the Interior to protect and regulate the taking of migratory birds. It establishes seasons and bag limits for hunted species and protects migratory birds, their occupied nests, and their eggs (16 USC 703; 50 CFR 10, 21).



The MBTA covers the taking of any nests or eggs of migratory birds, except as allowed by permit pursuant to 50 CFR, Part 21. Disturbances causing nest abandonment and/or loss of reproductive effort (i.e., killing or abandonment of eggs or young) may also be considered "take." This regulation seeks to protect migratory birds and active nests.

In 1972, the MBTA was amended to include protection for migratory birds of prey (e.g., raptors). Six families of raptors occurring in North America were included in the amendment: Accipitridae (kites, hawks, and eagles); Cathartidae (New World vultures); Falconidae (falcons and caracaras); Pandionidae (ospreys); Strigidae (typical owls); and Tytonidae (barn owls). The provisions of the 1972 amendment to the MBTA protects all species and subspecies of the families listed above. The MBTA protects over 800 species including geese, ducks, shorebirds, raptors, songbirds and many relatively common species.

# **State Regulations**

#### California Environmental Quality Act (CEQA)

The California Environmental Quality Act (CEQA) provides for the protection of the environment within the State of California by establishing State policy to prevent significant, avoidable damage to the environment through the use of alternatives or mitigation measures for projects. It applies to actions directly undertaken, financed, or permitted by State lead agencies. If a project is determined to be subject to CEQA, the lead agency will be required to conduct an Initial Study (IS); if the IS determines that the project may have significant impacts on the environment, the lead agency will subsequently be required to write an Environmental Impact Report (EIR). A finding of non-significant effects will require either a Negative Declaration or a Mitigated Negative Declaration instead of an EIR. Section 15380 of the CEQA Guidelines independently defines "endangered" and "rare" species separately from the definitions of the California Endangered Species Act (CESA). Under CEQA, "endangered" species of plants or animals are defined as those whose survival and reproduction in the wild are in immediate jeopardy, while "rare" species are defined as those who are in such low numbers that they could become endangered if their environment worsens.

# California Endangered Species Act (CESA)

In addition to federal laws, the state of California implements the CESA which is enforced by CDFW. The CESA program maintains a separate listing of species beyond the FESA, although the provisions of each act are similar.

State-listed threatened and endangered species are protected under provisions of the CESA. Activities that may result in "take" of individuals (defined in CESA as; "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill") are regulated by CDFW. Habitat degradation or modification is not included in the definition of "take" under CESA. Nonetheless, CDFW has interpreted "take" to include the destruction of nesting, denning, or foraging habitat necessary to maintain a viable breeding population of protected species.

The State of California considers an endangered species as one whose prospects of survival and reproduction are in immediate jeopardy. A threatened species is considered as one present in such small numbers throughout its range that it is likely to become an endangered species in the near future in the



absence of special protection or management. A rare species is one that is considered present in such small numbers throughout its range that it may become endangered if its present environment worsens. State threatened and endangered species are fully protected against take, as defined above.

The CDFW has also produced a species of special concern list to serve as a species watch list. Species on this list are either of limited distribution or their habitats have been reduced substantially, such that a threat to their populations may be imminent. Species of special concern may receive special attention during environmental review, but they do not have formal statutory protection. At the federal level, USFWS also uses the label species of concern, as an informal term that refers to species which might be in need of concentrated conservation actions. As the Species of Concern designated by USFWS do not receive formal legal protection, the use of the term does not necessarily ensure that the species will be proposed for listing as a threatened or endangered species.

# Fish and Game Code

Fish and Game Code Sections 3503, 3503.5, 3511, and 3513 are applicable to natural resource management. For example, Section 3503 of the Code makes it unlawful to destroy any birds' nest or any birds' eggs that are protected under the MBTA. Further, any birds in the orders Falconiformes or Strigiformes (Birds of Prey, such as hawks, eagles, and owls) are protected under Section 3503.5 of the Fish and Game Code which makes it unlawful to take, possess, or destroy their nest or eggs. A consultation with CDFW may be required prior to the removal of any bird of prey nest that may occur on a project site. Section 3511 of the Fish and Game Code lists fully protected bird species, where the CDFW is unable to authorize the issuance of permits or licenses to take these species. Pertinent species that are State fully protected by the State include golden eagle (*Aquila chrysaetos*) and white-tailed kite (*Elanus leucurus*). Section 3513 of the Fish and Game Code makes it unlawful to take or possess any migratory nongame bird as designated in the MBTA or any part of such migratory nongame bird except as provided by rules and regulations adopted by the Secretary of the Interior under provisions of the MBTA.

# Native Plant Protection Act

Sections 1900–1913 of the Fish and Game Code were developed to preserve, protect, and enhance Rare and Endangered plants in the state of California. The act requires all state agencies to use their authority to carry out programs to conserve Endangered and Rare native plants. Provisions of the Native Plant Protection Act prohibit the taking of listed plants from the wild and require notification of the CDFW at least ten days in advance of any change in land use which would adversely impact listed plants. This allows the CDFW to salvage listed plant species that would otherwise be destroyed.

# California Native Plant Society Rare and Endangered Plant Species

Vascular plants listed as rare or endangered by the CNPS, but which have no designated status under FESA or CESA are defined as follows:

#### California Rare Plant Rank

- 1A- Plants Presumed Extirpated in California and either Rare or Extinct Elsewhere
- 1B- Plants Rare, Threatened, or Endangered in California and Elsewhere



- 2A- Plants Presumed Extirpated in California, But More Common Elsewhere
- 2B- Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere
- 3- Plants about Which More Information is Needed A Review List
- 4- Plants of Limited Distribution A Watch List

#### Threat Ranks

- .1- Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
- .2- Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)
- .3- Not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known).



There are three key agencies that regulate activities within inland streams, wetlands, and riparian areas in California. The Corps Regulatory Branch regulates activities pursuant to Section 404 of the Federal Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act. Of the State agencies, the CDFG regulates activities under the Fish and Game Code Section 1600-1616, and the Regional Board regulates activities pursuant to Section 401 of the CWA and the California Porter-Cologne Water Quality Control Act.

# **Federal Regulations**

# Section 404 of the Clean Water Act

In accordance with the Revised Definition of "Waters of the United States"; Conforming (September 8, 2023), "waters of the United States" are defined as follows:

# (a) *Waters of the United States* means:

(1) Waters which are:

(i) Currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;

- (ii) The territorial seas; or
- (iii) Interstate waters;

(2) Impoundments of waters otherwise defined as waters of the United States under this definition, other than impoundments of waters identified under <u>paragraph (a)(5)</u> of this section;

(3) Tributaries of waters identified in paragraph (a)(1) or (2) of this section that are relatively permanent, standing or continuously flowing bodies of water;

(4) Wetlands adjacent to the following waters:

(i) Waters identified in paragraph (a)(1) of this section; or

(ii) Relatively permanent, standing or continuously flowing bodies of water identified in paragraph (a)(2) or (a)(3) of this section and with a continuous surface connection to those waters;

(5) Intrastate lakes and ponds not identified in paragraphs (a)(1) through (4) of this section that are relatively permanent, standing or continuously flowing bodies of water with a continuous surface connection to the waters identified in paragraph (a)(1) or (a)(3) of this section

(b) The following are not "waters of the United States" even where they otherwise meet the terms of paragraphs (a)(2) through (5) of this section:

(1) Waste treatment systems, including treatment ponds or lagoons, designed to meet the requirements of the Clean Water Act;

(2) Prior converted cropland designated by the Secretary of Agriculture. The exclusion would cease upon a change of use, which means that the area is no longer available for the production of agricultural commodities. Notwithstanding the determination of an area's status as prior converted



cropland by any other Federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with EPA;

(3) Ditches (including roadside ditches) excavated wholly in and draining only dry land and that do not carry a relatively permanent flow of water;

(4) Artificially irrigated areas that would revert to dry land if the irrigation ceased;

(5) Artificial lakes or ponds created by excavating or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing;

(6) Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating or diking dry land to retain water for primarily aesthetic reasons;

(7) Waterfilled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States; and

(8) Swales and erosional features (*e.g.*, gullies, small washes) characterized by low volume, infrequent, or short duration flow.

(c) In this section, the following definitions apply:

(1) *Wetlands* means those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

(2) Adjacent means having a continuous surface connection

(3) *High tide line* means the line of intersection of the land with the water's surface at the maximum height reached by a rising tide. The high tide line may be determined, in the absence of actual data, by a line of oil or scum along shore objects, a more or less continuous deposit of fine shell or debris on the foreshore or berm, other physical markings or characteristics, vegetation lines, tidal gages, or other suitable means that delineate the general height reached by a rising tide. The line encompasses spring high tides and other high tides that occur with periodic frequency but does not include storm surges in which there is a departure from the normal or predicted reach of the tide due to the piling up of water against a coast by strong winds such as those accompanying a hurricane or other intense storm.

(4) *Ordinary high water mark* means that line on the shore established by the fluctuations of water and indicated by physical characteristics such as clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.



(5) *Tidal waters* means those waters that rise and fall in a predictable and measurable rhythm or cycle due to the gravitational pulls of the moon and sun. Tidal waters end where the rise and fall of the water surface can no longer be practically measured in a predictable rhythm due to masking by hydrologic, wind, or other effects.

# Section 401 of the Clean Water Act

Pursuant to Section 401 of the CWA, any applicant for a federal license or permit to conduct any activity which may result in any discharge to waters of the United States must provide certification from the State or Indian tribe in which the discharge originates. This certification provides for the protection of the physical, chemical, and biological integrity of waters, addresses impacts to water quality that may result from issuance of federal permits, and helps insure that federal actions will not violate water quality standards of the State or Indian tribe. In California, there are nine Regional Water Quality Control Boards (Regional Board) that issue or deny certification for discharges to waters of the United States and waters of the State, including wetlands, within their geographical jurisdiction. The State Water Resources Control Board assumed this responsibility when a project has the potential to result in the discharge to waters within multiple Regional Boards.

# **State Regulations**

# Fish and Game Code

Fish and Game Code Sections 1600 et. seq. establishes a fee-based process to ensure that projects conducted in and around lakes, rivers, or streams do not adversely impact fish and wildlife resources, or, when adverse impacts cannot be avoided, ensures that adequate mitigation and/or compensation is provided.

Fish and Game Code Section 1602 requires any person, state, or local governmental agency or public utility to notify the CDFW before beginning any activity that will do one or more of the following:

- (1) substantially obstruct or divert the natural flow of a river, stream, or lake;
- (2) substantially change or use any material from the bed, channel, or bank of a river, stream, or lake; or
- (3) deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it can pass into a river, stream, or lake.

Fish and Game Code Section 1602 applies to all perennial, intermittent, and ephemeral rivers, streams, and lakes in the State. CDFW's regulatory authority extends to include riparian habitat (including wetlands) supported by a river, stream, or lake regardless of the presence or absence of hydric soils and saturated soil conditions. Generally, the CDFW takes jurisdiction to the top of bank of the stream or to the outer limit of the adjacent riparian vegetation (outer drip line), whichever is greater. Notification is generally required for any project that will take place in or in the vicinity of a river, stream, lake, or their tributaries. This includes rivers or streams that flow at least periodically or permanently through a bed or channel with banks that support fish or other aquatic life and watercourses having a surface or subsurface flow that support or have supported riparian vegetation. A Section 1602 Streambed Alteration Agreement would be required if impacts to identified CDFW jurisdictional areas occur.



#### Porter Cologne Act

The California *Porter-Cologne Water Quality Control Act* gives the State very broad authority to regulate waters of the State, which are defined as any surface water or groundwater, including saline waters. The Porter-Cologne Act has become an important tool in the post SWANCC and Rapanos regulatory environment, with respect to the state's authority over isolated and insignificant waters. Generally, any person proposing to discharge waste into a water body that could affect its water quality must file a Report of Waste Discharge in the event that there is no Section 404/401 nexus. Although "waste" is partially defined as any waste substance associated with human habitation, the Regional Board also interprets this to include fill discharged into water bodies.



# Attachment E

Site Plans

