BIOLOGICAL RESOURCES ASSESSMENT AND JURISDICTIONAL DELINEATION FOR THE PROPOSED CANYON RANCH DEVELOPMENT (TM 20403 AND TM20404) IN LOMA LINDA, CALIFORNIA

Prepared for:

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SECTION 1.0 - INTRODUCTION

Jennings Environmental, LLC (Jennings) was retained by Lilburn Corporation (Lilburn) to conduct a literature review and reconnaissance-level survey for the proposed Canyon Ranch Development (TM 20403 and TM 20404) {Project} within the City of Loma Linda, San Bernardino County, California. The survey identified vegetation communities, the potential for the occurrence of special status species, or habitats that could support special status wildlife species, and recorded all plants and animals observed or detected within the Project boundary. This biological resources assessment is designed to address potential effects of the proposed project to designated critical habitats and/or any species currently listed or formally proposed for listing as endangered or threatened under the federal Endangered Species Act (ESA) and the California Endangered Species Act (CESA) or species designated as sensitive by the California Department of Fish and Wildlife (CDFW) or the California Native Plant Society (CNPS). Information contained in this document is in accordance with accepted scientific and technical standards that are consistent with the requirements of the United States Fish and Wildlife Service (USFWS) and (CDFW). Additionally, the site was surveyed for any drainage features that would meet the definition of the Waters of the US (WOUS), Waters of the State (WOS), or CDFW jurisdiction.

1.1 PROJECT LOCATION

The project is generally located in Section 32, Township 1 South, Range 3 West and is depicted on the *Redlands* U.S. Geological Survey's (USGS) 7.5-minute topographic map. More specifically the project is located within Assessor Parcel Numbers (APNs) 0293-081-09, 11, 12, 19, 0293-111-18, 19, 21 and 0293-101-08, 11, and 13 within the City of Loma Linda, San Bernardino County, California. The Project site is located west of the intersection of San Timoteo Canyon Rd. and Nevada St. The site is surrounded by developed residential parcels, agricultural fields, and flood control facilities. (Figures 1 and 2 in Appendix A).

1.2 PROJECT DESCRIPTION

The proposed Project includes subdividing parcels 0293-111-18, 19, 21 and 0293-101-08, 11, and 13, a total of 55.72 acres, into 89 single family lots with a minimum size of 20,000 sq. ft. The project also include subdividing parcels 0293-081-09, 11, 12, 19, a total of 10.96 acres, into 37 single family lots with minimum size of 7,200 sq. ft. The Project also includes the construction of roadways and necessary infrastructure (sewer, water, etc.) to develop each new lot.

2.0 - METHODOLOGY

2.1 LITERATURE REVIEW

Prior to performing the field survey, existing documentation relevant to the Project site was reviewed. The most recent records of the California Natural Diversity Database (CNDDB) managed by CDFW (CDFW 2021), the USFWS Critical Habitat Mapper (USFWS 2021) and the California Native Plant Society's Electronic Inventory (CNPSEI) of Rare and Endangered Vascular Plants of California (CNPS 2021) were reviewed for the following quadrangles containing and surrounding the Project site: *Redlands* and *San Bernardino South*, USGS 7.5-minute quadrangles. The *San Bernardino South* quad was included in this search due the sites proximity to its boarder. These databases contain records of reported occurrences of

federal- or state-listed endangered or threatened species, California Species of Concern (SSC), or otherwise special status species or habitats that may occur within or in the immediate vicinity of the Project site.

2.2 SOILS

Before conducting the surveys, soil maps for San Bernardino County were referenced online to determine the types of soil found within the Project site. Soils were determined in accordance with categories set forth by the United States Department of Agriculture (USDA) Soil Conservation Service and by referencing the USDA Natural Resources Conservation Service (NRCS) Web Soil Survey (USDA 2021).

2.3 BIOLOGICAL RECONNAISSANCE-LEVEL SURVEY

Jennings biologist, Gene Jennings, conducted the general reconnaissance survey within the Project site to identify the potential for the occurrence of special status species, vegetation communities, or habitats that could support special status wildlife species. The surveys were conducted on foot, throughout the Project site between 0800 and 1000 hours on August 26, 2021 and 0800 and 1000 hours on August 27, 2021. Weather conditions during the August 26, 2021 survey included temperatures ranging from 78 to 88 degrees Fahrenheit, with clear skies, no precipitation, 2.5 to 5 mile per hour winds. Weather conditions during the August 27, 2021 survey included temperatures ranging from 78 to 90 degrees Fahrenheit, with clear skies, no precipitation, 2.2 to 5 mile per hour winds. Photographs of the Project site were taken to document existing conditions (Appendix B). A photo location map is also provided as Figure 3 in Appendix A.

2.4 JURISDICTIONAL FEATURES

A general assessment of jurisdictional waters regulated by the United States Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and CDFW was conducted for the proposed Project area. Pursuant to Section 404 of the Clean Water Act, USACE regulates the discharge of dredged and/or fill material into waters of the United States. The State of California (State) regulates the discharge of material into waters of the State pursuant to Section 401 of the Clean Water Act and the California Porter- Cologne Water Quality Control Act (California Water Code, Division 7, §13000 et seq.). Pursuant to Division 2, Chapter 6, Sections 1600-1602 of the California Fish and Game Code, CDFW regulates all diversions, obstructions, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake, which supports fish or wildlife. The assessment was conducted by a desktop survey through the USGS National Hydrography Dataset for hydrological connectivity. Additional discussion of the regulatory framework is provided in Appendix C.

2.4.1 VEGETATION

All plant species observed within the Project site were recorded. Vegetation communities within the Project site were identified and qualitatively described. Plant communities were determined in accordance with the *Manual of California Vegetation*, *Second Edition* (Sawyer et al. 2009). Plant nomenclature follows that of *The Jepson Manual, Second Edition* (Baldwin et al. 2012). A comprehensive list of the plant species observed during the survey is provided in Appendix D.

2.4.2 WILDLIFE

All wildlife and wildlife signs observed and detected, including tracks, scat, carcasses, burrows, excavations, and vocalizations, were recorded. Additional survey time was spent in those habitats most likely to be utilized by wildlife (native vegetation, wildlife trails, etc.) or in habitats with the potential to support state- and/or federally listed or otherwise special status species. Notes were made on the general habitat types, species observed, and the conditions of the Project site. A comprehensive list of the wildlife species observed during the survey is provided in Appendix D.

SECTION 3.0 – RESULTS

3.1 LITERATURE REVIEW RESULTS

According to the CNDDB, CNPSEI, and other relevant literature and databases, 77 sensitive species, 19 of which are listed as threatened or endangered, have been documented in the *Redlands* and *San Bernardino South* quads. This list of sensitive species and habitats includes any State and/or federally listed threatened or endangered species, CDFW designated Species of Special Concern (SSC) and otherwise Special Animals. "Special Animals" is a general term that refers to all of the taxa the CNDDB is interested in tracking, regardless of their legal or protection status. This list is also referred to as the list of "species at risk" or "special status species." The CDFW considers the taxa on this list to be those of greatest conservation need.

An analysis of the likelihood for the occurrence of all CNDDB sensitive species documented in the *Redlands* and *San Bernardino South* quads is provided in Table 2, in Appendix D. This analysis takes into account species range as well as documentation within the vicinity of the project area and includes the habitat requirements for each species and the potential for their occurrence on the site, based on required habitat elements and range relative to the current site conditions. According to the databases, no sensitive habitat, including USFWS designated critical habitat, occurs within or adjacent to the project site.

3.1.1 SOILS

After review of USDA Soil Conservation Service and by referencing the USDA NRCS Web Soil Survey (USDA 2021), it was determined that the Project site is located within the San Bernardino County Southwestern Part, California area CA677. Based on the results of the database search, five (5) soils types were observed in the area (Figure 4 in Appendix A):

<u>Hanford coarse sandy loam. 2 to 9 percent slopes (HaC).</u> This soil is well drained with a high capacity to transmit water. This soil consists of alluvium derived from granite, typically ranges in elevation from 150 to 900 feet amsl and is considered prime farmland if irrigated.

Metz coarse sandy loam. 2 to 9 percent slopes (MgC). This soil is somewhat excessively drained with a high capacity to transmit water. This soil consists of alluvium, typically ranges in elevation from 30 to 1,200 feet amsl and is considered prime farmland if irrigated.

<u>San Emigdio fine sandy loam. 0 to 2 percent slopes (ScA).</u> This soil is well drained with a high capacity to transmit water. This soil consists of alluvium derived from sedimentary rock, typically ranges in elevation from 30 to 1,190 feet amsl and is considered prime farmland if irrigated.

<u>San Emigdio fine sandy loam. 2 to 9 percent slopes (SbC).</u> This soil is well drained with a high capacity to transmit water. This soil consists of mixed alluvium derived from igneous, metamorphic and sedimentary rock, typically ranges in elevation from 60 to 2,180 feet amsl and is considered prime farmland if irrigated.

<u>San Emigdio gravelly sandy loam. 2 to 9 percent slopes (SbC).</u> This soil is well drained with a high capacity to transmit water. This soil consists of alluvium derived from sedimentary rock, typically ranges in elevation from 1,000 to 2,000 feet amsl and is considered prime farmland if irrigated.

3.1.2 SPECIAL STATUS SPECIES BACKGROUND

<u>San Bernardino kangaroo rat – Endangered (Federal)</u>

The federally-listed as endangered San Bernardino kangaroo rat (SBKR) is one of three recognized subspecies of Merriam's kangaroo rat (D. merriami) in California. The Merriam's kangaroo rat is a small, burrowing rodent species that can be found within inland valleys and deserts of southwest United States of America and northern Mexico. The Dulzura kangaroo rat (Dipodomys simulans), the Pacific kangaroo rat (Dipodomys agilis) and the Stephens kangaroo rat (Dipodomys stephensi) occur in areas occupied by SBKR, but these other species have a wider habitat range. The SBKR, however, has a restricted southern California distribution, confined to certain inland valley scrub communities and, more particularly, to scrub communities occurring along rivers, streams, and drainages within the San Bernardino, Menifee, and San Jacinto valleys. Most of these drainages have been historically altered due to a variety of reasons including, mining, off-road vehicle use, road and housing development, and flood control efforts. This increased use of river floodplain resources resulted in a reduction in both the amount and quality of habitat available for the SBKR.

The areas which the SBKR occupy are subjected to periodic flooding and hence, the dominant vegetation type (alluvial fan sage scrub) is described in general terms as having three successional phases: pioneer, intermediate, and mature as determined by elevation and distance from the main channel and time since previous flooding (Hanes et al. 1989, p. 187, as cited in USFWS 2009). Vegetation cover generally increases with distance from the active stream channel. The pioneer phase is subject to frequent flood disturbance (Smith 1980, p. 133; Hanes et al. 1989, p. 187, as cited in USFWS 2009). The intermediate phase, defined as the area between the active channel and mature terraces, is subject to periodic flooding at longer intervals. The vegetation on intermediate terraces is relatively open. As alluvial fan scrub vegetation ages in the absence of flooding, the suitability of this habitat for the SBKR declines (McKernan 1997, p. 58, as cited in USFWS 2009).

The USFWS listed the SBKR as endangered on September 24, 1998 and set aside 33,295 acres of critical habitat for the SBKR in 2002. The USFWS then revised that decision in 2008 after a lawsuit and cut the designation down to 7,779 acres in Riverside and San Bernardino counties. On January 10, 2011, a federal court struck down the 2008 designation. The ruling concluded that the USFWS improperly relied on "core habitat" to define critical habitat for the SBKR rather than specifying the physical and biological features essential for the kangaroo rat's conservation, as the law requires. The ruling reinstated the 2002 designation. The 2002 critical habitat rule for SBKR defined four Primary Constituent Elements (PCEs) that are essential to the conservation of SBKR. These PCEs are as follows: 1) Soil series consisting predominantly of sand, loamy sand, sandy loam, or loam; 2) Alluvial sage scrub and associated vegetation, such as coastal sage scrub and chamise chaparral, with a moderately open canopy; 3) River, creek, stream, and wash channels; alluvial fans; floodplains; floodplain benches and terraces; and historic braided

channels that are subject to dynamic geomorphological and hydrological processes typical of fluvial systems within the historical range of the San Bernardino kangaroo rat; and 4) Upland areas proximal to floodplains with suitable habitat.

Burrowing Owl – SSC

The burrowing owl (BUOW) is a state and federal Species of Special Concern (SSC). This owl is a mottled, brownish and sand-colored, dove-sized raptor, with large, yellow eyes, a rounded head lacking ear tufts, white eyebrows, and long legs compared to other owl species. It is a ground-dwelling owl typically found in arid prairies, fields, and open areas where vegetation is sparse and low to the ground. The BUOW is heavily dependent upon the presence of mammal burrows, with ground squirrel burrows being a common choice, in its habitat to provide shelter from predators, inclement weather, and to provide a nesting place (Coulombe 1971). They are also known to make use of human-created structures, such as cement culverts and pipes, for burrows.

BUOW spends a great deal of time standing on dirt mounds at the entrance to a burrow or perched on a fence post or other low to the ground perch from which they hunt for prey. BUOW frequently hunt by hovering in place above the ground and dropping on their prey from above. They feed primarily on insects such as grasshoppers, June beetles, and moths, but will also take small rodents, birds, and reptiles. They are active during the day and night but are considered a crepuscular owl; generally observed in the early morning hours or at twilight. The breeding season for BUOW is February 1 through August 31. Up to 11, but typically 7 to 9, eggs are laid in a burrow, abandoned pipe, or other subterranean hollows where incubation is complete in 28-30 days. Young BUOW fledges in 44 days. The BUOW is considered a migratory species in portions of its range, which includes western North America from Canada to Mexico, and east to Texas and Louisiana. BUOW populations in California are considered to be sedentary or locally migratory.

Throughout its range, the BUOW is vulnerable to habitat loss, predation, vehicular collisions, and destruction of burrow sites and the poisoning of ground squirrels (Grinnell and Miller 1944, Zarn 1974, Remsen 1978). BUOW has disappeared from significant portions of their range in the last 15 years and, overall, nearly 60% of the breeding groups of owls known to have existed in California during the 1980s had disappeared by the early 1990s (Burrowing Owl Consortium 1993). The BUOW is not listed under the state or federal Endangered Species Act but is considered both a federal and state Species of Special Concern. The BUOW is a migratory bird protected by the international treaty under the Migratory Bird Treaty Act of 1918 and by State law under the California Fish and Game Code (CDFG Code #3513 & #3503.5).

Additional Species

There were also 20 additional threatened or endangered species that are found within the *Redlands* and *San Bernardino South* Quads. However, the site is either outside the know range for the species or suitable habitat does not occur within the Project area. Therefore, no further discussion or recommendations are required for the following species:

- marsh sandwort
- Nevin's barberry
- salt marsh bird's-beak

- Stephens' kangaroo rat
- slender-horned spineflower
- southwestern willow flycatcher
- Santa Ana River woollystar
- quino checkerspot butterfly
- Gambel's water cress
- steelhead southern California DPS
- southern mountain yellow-legged frog
- Delhi Sands flower-loving fly
- tricolored blackbird
- least Bell's vireo
- Crotch bumble bee
- Swainson's hawk
- California black rail
- Santa Ana sucker
- western yellow-billed cuckoo
- coastal California gnatcatcher

3.1.3 JURISDICTIONAL WATERS

Aerial imagery of the site was examined and compared with the surrounding USGS 7.5-minute topographic quadrangle maps to identify drainage features within the survey area as indicated from topographic changes, blue-line features, or visible drainage patterns. The U.S. Fish and Wildlife Service National Wetland Inventory and Environmental Protection Agency (EPA) Water Program "My Waters" data layers were also reviewed to determine whether any hydrologic features and wetland areas had been documented within the vicinity of the site. Similarly, the Soil maps from the U.S. Department of Agriculture (USDA) - Natural Resources Conservation Service (NRCS) Web Soil Survey (USDA 2021) were reviewed to identify the soil series on-site and to check if they have been identified regionally as hydric soils. Upstream and downstream connectivity of waterways (if present) was reviewed in the field, on aerial imagery, and topographic maps to determine jurisdictional status. No obvious signs of jurisdictional features were observed during the literature review.

3.1.4 HYDROLOGY AND HYDROLOGIC CONNECTIVITY

Hydrologically, the project site is located within Bunker Hill Hydrologic Sub-Area (HSA 801.52) which comprises a 124,791-acre drainage area within the larger Upper Santa Ana River Hydrologic Area (Hydrologic Unit Code [HUC10] 1807020305) (CalTrans, 2021). The Upper Santa River watershed in Loma Linda is bordered to the north by the West Fork Mojave River, Deep Creek and Bear Creek watersheds, to the east by the Headwaters Santa Ana River and Headwaters Whitewater River watersheds, to the south by the San Gorgonio River and San Timoteo Wash watersheds, and to the west by Lytle Creek and Middle Santa Ana River watersheds. (Figure 5 in Appendix A).

3.2 FIELD STUDY RESULTS

3.2.1 HABITAT

The habitat on-site consists of ruderal vegetation and is dominated by tumbleweed (*Salsola targus*). Portions of the site have been subject to human disturbances and are completely void of vegetation. Additionally, there is signs of disturbance in the form of dumping, foot traffic, and off-road vehicle traffic. A complete list of all plants observed is provided in Table 1 of Appendix D.

3.2.2 WILDLIFE

Several birds were seen or heard during the survey. Species observed or otherwise detected on or in the vicinity of the project site during the surveys included; mourning dove (*Zenaida macroura*), Anna's hummingbird (*Calypte anna*), and California towhee (*Melozone crissalis*). A complete list of all species observed is provided in Table 1 of Appendix D.

The project site is located within a moderately developed area of Loma Linda. The project site has been subject to ongoing disturbance in the form of vegetation management (mowing), foot traffic, vehicle traffic, and domestic dog (*Canis lupus familiaris*) activity. There is no habitat within the proposed project footprint, as well as the immediate surrounding area, that is suitable for the sensitive species identified in the CNDDB search (Table 2 in Appendix D).

3.2.3 SPECIAL STATUS SPECIES

San Bernardino kangaroo rat – Endangered (Federal)

Per the literature review, there is a one documented occurrence with the Project area from 1989. No SBKR have been documented within the Project area since this occurrence. The site is also completely isolated from any known extant SBKR populations by development. Furthermore, it should be that since the 1989 occurrence, large portions of the surrounding land have been developed and San Timoteo Wash, directly adjacent to the Project site, was channelized in December 2003. The portion of the Wash located directly adjacent to the site is currently contains berms to retain water for the purposes of groundwater recharge. And large equipment was observed within the channel, during the site survey, actively removing vegetation and moving sediment.

Although one of the PCEs for this species are present within and/or adjacent the Project site, sandy soils (PCE 1), the natural hydrologic processes typical of the alluvial fan habitat within the area are no longer present. Due to the channelization of nearby San Timoteo Wash and development within the surrounding area, the project area is no longer subject to the normal flood regimes that are conducive to creating the open canopy structure of the pioneer and intermediate stages of RAFSS habitat that may have historically been occupied by SBKR in the project vicinity. The habitat on-site is dominated by tumbleweeds and other non-native species. Furthermore, the project site is subject to ongoing disturbances as noted above. Therefore, it is not likely that the habitat within the project area would be considered suitable to support SBKR. Given the lack of both suitable SBKR habitat and nearby recent extant SBKR occurrences, this species is considered absent from the Project area and the Project is not likely to impact this species.

Burrowing Owl – SSC

The conditions present onsite are marginally suitable for BUOW. California ground squirrels, a burrow surrogate species, were observed on-site. As such a BUOW owl survey was completed. The assessment survey was structured, in part, to detect BUOW. The survey consisted of walking transects spaced to provide 100% visual coverage of the project site. The result of the survey was that no evidence of BUOW was found in the survey area. No burrows of appropriate size, aspect, or shape were located and no BUOW pellets, feathers, or whitewash were found. No burrowing owl individuals were observed.

Although no BUOW individuals were observed, the Project site and adjacent area do contain some habitat that would be considered suitable for BUOW. Therefore, a preconstruction BUOW survey is recommended to avoid any potential project-related impacts to this species.

Designated Critical Habitat

The site is not located within or adjacent to any USFWS designated Critical Habitat. No further action is required.

Nesting Birds

The Project site and immediate surrounding area does contain habitat suitable for nesting birds. Nesting bird surveys should be conducted prior to any construction activities taking place during the nesting season to avoid potentially taking any birds or active nests. In general, impacts to all bird species (common and special status) can be avoided by conducting work outside of the nesting season (generally March 15th to September 15th), and conducting a worker awareness training. However, if all work cannot be conducted outside of the nesting season, a project-specific Nesting Bird Management Plan can be prepared to determine suitable buffers.

3.2.4 JURISDICTIONAL WATERS

Waters of the United States and Waters of the State

The USACE has the authority to permit the discharge of dredged or fill material in Waters of the U.S. under Section 404 CWA. While the Regional Water Quality Board has authority over the discharge of dredged or fill material in Waters of the State under Section 401 CWA as well as the Porter-Cologne Water Quality Control Act. The Project area was surveyed with 100 percent visual coverage and no drainage features were present on site. However, the proposed project does include a storm drain connection to San Timoteo Wash, a jurisdictional feature. As such, the proposed project would have impacts to a feature subject to Section 404 and 401. Table 1 below details the temporary impacts to San Timoteo Wash as they relate to jurisdiction under Section 404 and 401 while Table 2 below shows the permanent impacts to the wash. The Ordinary High Water Mark Data sheet is included in Appendix E.

Fish and Game Code Section 1602 - State Lake and/or Streambed

The CDFW asserts jurisdiction over any drainage feature that contains a definable bed and bank or associated riparian vegetation. The Project area was surveyed with 100 percent visual coverage and no definable bed or bank features exist on the project site. However, the proposed project does include a storm drain connection to San Timoteo Wash, a jurisdictional feature. As such, the proposed project would have impacts to a feature subject Section 1602. Table 1 below details the temporary impacts to San

Timoteo Wash as they relate to jurisdiction under Section 1602 while Table 2 below shows the permanent impacts to the wash.

Table 1 – Temporary Impacts to San Timoteo Wash

Feature	Bank-Full width (feet)	Length (feet)	Max Channel Depth (feet)	WoUS Corps jurisdiction (acres)	FGC 1600 CDFW jurisdiction (acres)
San Timoteo					
Wash	444	132	20	0.13	0.17

<u>Table 2 – Permanent Impacts to San Timoteo Wash</u>

Feature	Bank-Full width (feet)	Length (feet)	Max Channel Depth (feet)	WoUS Corps jurisdiction (acres)	FGC 1600 CDFW jurisdiction (acres)
San Timoteo					
Wash	444	132	20	0.04	0.06

Section 4.0 - CONCLUSIONS AND RECOMMENDATIONS

Based on the literature review and personal observations made in the immediate vicinity, no State and/or federally listed threatened or endangered species are documented/or expected to occur within the Project site. Additionally, no plant species with the California Rare Plant Rank (CRPR) of 1 or 2 were observed on-site or documented to occur on-site in the relevant databases. No other sensitive species were observed within the project area or buffer area.

Jurisdictional Features

The storm drain that is proposed to connect to San Timoteo Wash, a jurisdictional feature, will cause impacts to areas under the jurisdiction of the US Army Corps of Engineers, the Santa Ana Regional Water Quality Control Board, and the California Department Fish and Wildlife. As such this portion of the Project will need to obtain a 404 permit from the US Army Corps of Engineers, a 401 Permit from the Santa Ana Regional Water Quality Board, and a 1602 permit from the California Department of Fish and Wildlife.

Burrowing Owl

A Pre-construction Burrowing Owl Survey shall be conducted by a qualified biologist at least 30 days prior to any Project activities, at any time of year. Surveys shall be completed following the recommendations and guidelines provided within the *Staff Report on Burrowing Owl Mitigation* (CDFG, March 2012) or most recent version by a qualified biologist. If an active burrowing owl burrow is detected within any Project disturbance area, or within a 500-foot buffer of the disturbance area, a 300- foot radius buffer zone surrounding the burrow shall be flagged, and no impacts to soils or vegetation shall be permitted while the burrow remains active or occupied. Disturbance-free buffers may be modified based on site-specific conditions in consultation with CDFW. The qualified biologist shall monitor active burrows daily and will increase buffer sizes as needed if owls show signs of disturbance. If active burrowing owl burrows are located within any work area and impact cannot be avoided, a qualified biologist shall submit a burrowing

owl exclusion plan to CDFW for review and approval. The burrowing owl exclusion plan shall include permanent compensatory mitigation consistent with the recommendations in the *Staff Report on Burrowing Owl Mitigation* such that the habitat acreage, number of burrows and burrowing owls impacted are replaced. Passive relocation shall take place outside the nesting season (February 1 to August 31).

Nesting Birds

Since there is some habitat within the project site and adjacent area that is suitable for nesting birds in general, a pre-construction nesting bird survey is recommended before the commencement of any Project-related work activities within nesting season (March 15 through September 15) to avoid any potential Project-related impacts to nesting birds.

Certification

I hereby certify that the statements furnished herein, and in the attached exhibits present data and information required for this analysis to the best of my ability, and the facts, statements, and information presented are true and correct to the best of my knowledge and belief. This report was prepared in accordance with professional requirements and standards. Fieldwork conducted for this assessment was performed by me. I certify that I have not signed a non-disclosure or consultant confidentiality agreement with the project proponent and that I have no financial interest in the project.

Please do not hesitate to contact me at 909-534-4547 should you have any questions or require further information.

Sincerely,

Gene Jennings

Principal/Regulatory Specialist

Appendices:

Appendix A – Figures

Appendix B – Site Photos

Appendix C – Regulatory Framework

Appendix D – Tables

Appendix E – Ordinary High Water Mark Datasheet

Section 5 – REFERENCES

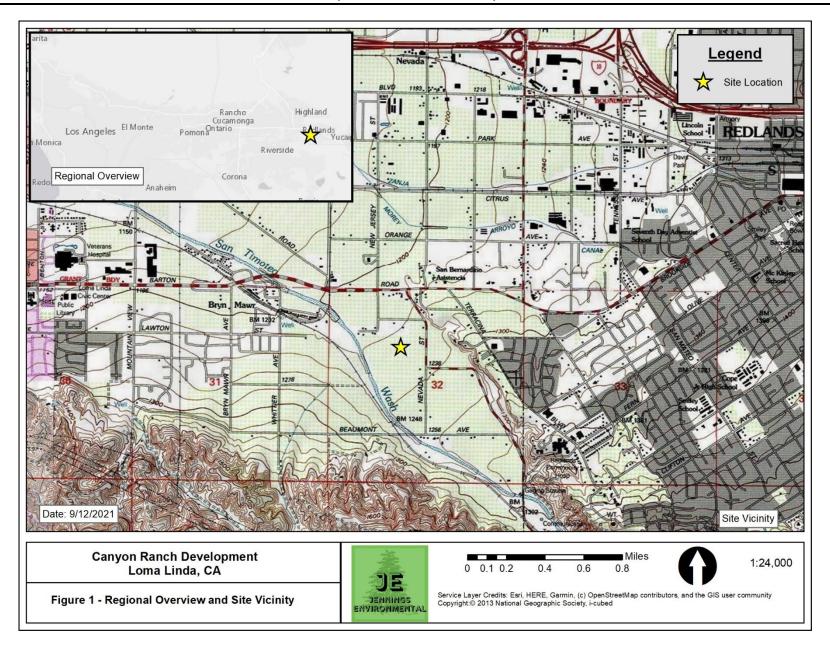
- Baldwin, B.G., D.H. Goldman, D.J. Keil, R. Patterson, and T.J. Rosatti, and D.H. Wilken (editors) 2012 *The Jepson Manual: Vascular Plants of California, Second Edition*. University of California Press, Berkeley, CA.
- Barbour, M.G., J.H. Burk, W.D. Pitts, F.S. Gilliam, and M.W. Schwartz. 1999 *Terrestrial Plant Ecology, Third Edition*. Addison Wesley Longman, Inc. Menlo Park, CA.
- Bolster, B.C., editor. 1998. Terrestrial Mammal Species of Special Concern in California. Draft Final Report prepared by P.V. Brylski, P.W. Collins, E.D. Pierson, W.E. Rainey and T.E. Kucera. Report submitted to California Department of Fish and Game Wildlife Management Division, Nongame Bird and Mammal Conservation Program for Contract No. FG3146WM.

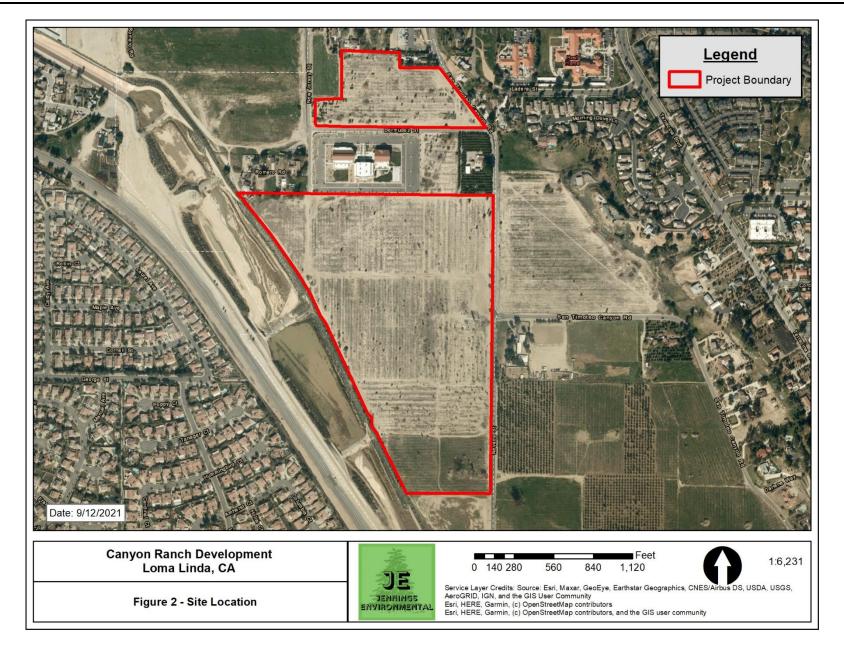
California Department of Fish and Wildlife (CDFW)

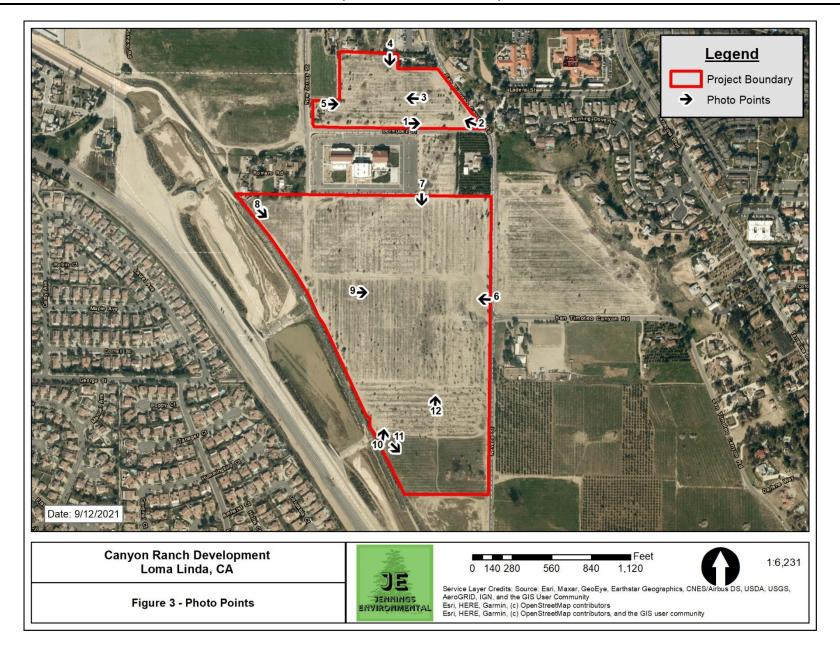
- A. 2021 California Natural Diversity Database (CNDDB). RareFind Version 3.1.0. Database Query. Wildlife and Habitat Data Analysis Branch. [Accessed September 2021]
- B. California Wildlife Habitats Relationships Life History Accounts and Range Maps. (Accessed online at https://www.wildlife.ca.gov/Data/CWHR/Life-History-and-Range). Accessed September 2021.
- California Department of Fish and Game. 1995. Staff report on burrowing owl mitigation. Memo from C.F. Raysbrook, Interim Director to Biologist, Environmental Services Division, Department of Fish and Game. Sacramento, CA.
- California Department of Fish and Game (CDFG). 2012. Staff Report on Burrowing Owl Mitigation. State of California Natural Resources Agency. March 7, 2012
- California Department of Transportation. Water Quality Planning Tool. http://svctenvims.dot.ca.gov/wqpt/wqpt.aspx (Accessed July 2021)
- California Native Plant Society (CNPS)2021 Inventory of Rare and Endangered Plants (online edition, v8-03 0.39). Rare Plant Scientific Advisory Committee, California Native Plant Society, Sacramento, California. Website http://www.rareplants.cnps.org; [Accessed September 2021].
- McKernan, R.L. 1997. The status and known distribution of the San Bernardino Kangaroo rat (*Dipodomys merriami parvus*): field surveys conducted between 1987 and 1996. Unpublished report prepared for the Carlsbad Fish and Wildlife Office, Carlsbad, California.
- Sawyer, J.O., Jr., T. Keeler-Wolf, J. Evens2009 *A Manual of* California *Vegetation, Second Edition*. California Native Plant Society, Sacramento, CA.
- U.S. Department of Agriculture (USDA)2020 Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Official Soil Series Descriptions [Online Edition]. Website https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx [Accessed September 2021].

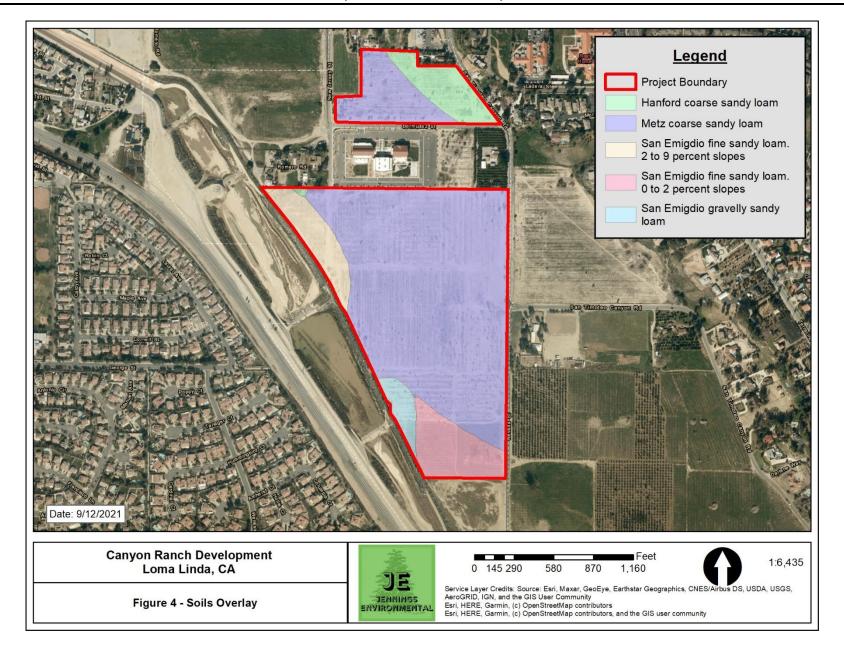
- U.S. Fish and Wildlife Service (USFWS). National Wetlands Inventory. Website: http://wetlands.fws.gov. (Accessed: September 2021).
- U.S. Fish and Wildlife Service (USFWS). 1998. Determination of Endangered Status for the San Bernardino Kangaroo Rat (*Dipodomys merriami parvus*). 63 FR 3837.
- U.S. Fish and Wildlife Service (USFWS). 2002. Final Determination of Critical Habitat for the San Bernardino Kangaroo Rat (*Dipodomys merriami parvus*); Final Rule. 67 FR 198

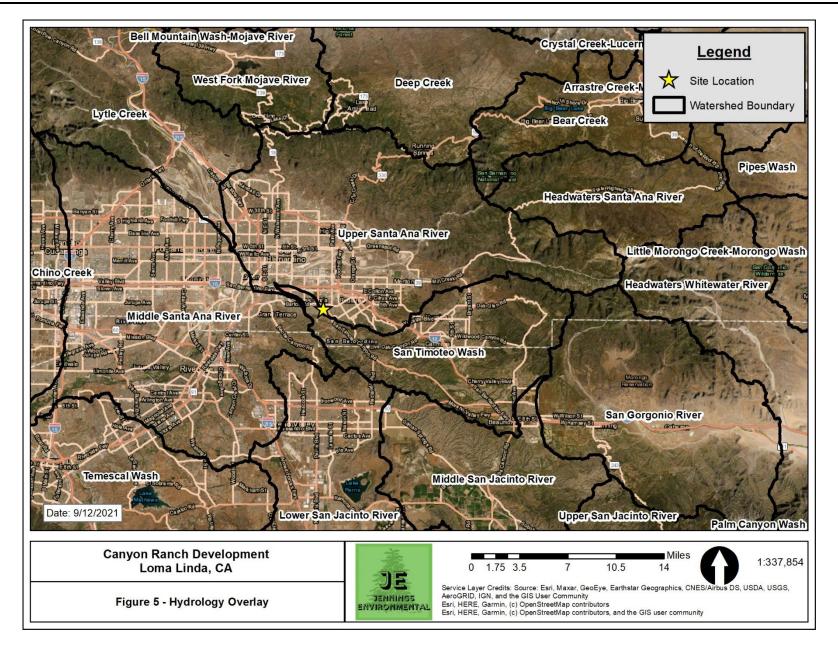
Appendix A - Figures

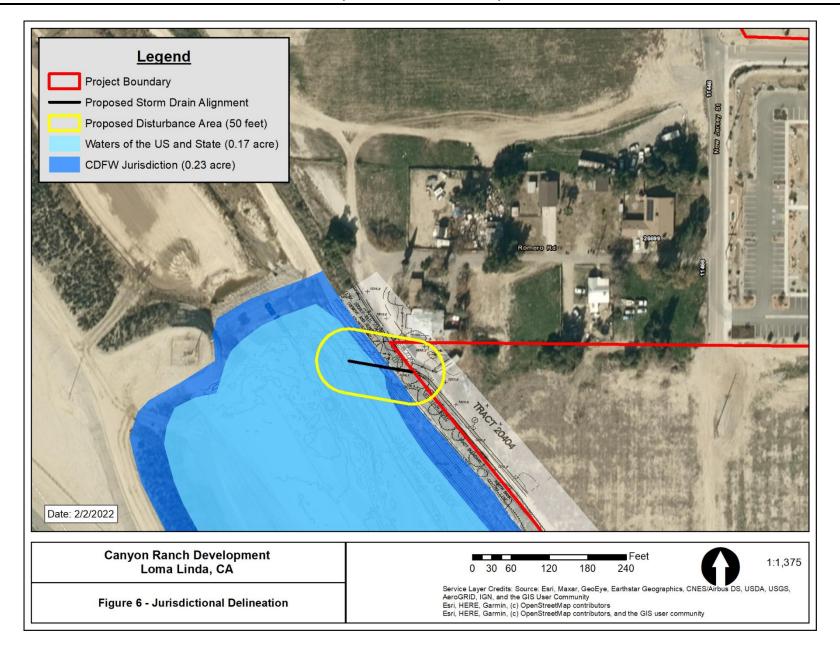












Appendix B - Photos

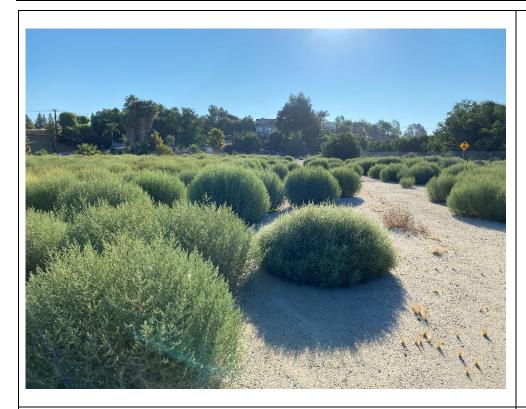


Photo 1 –
Southern edge of parcel, facing east. Showing tumbleweed and bare ground.



Photo 2 – Southeastern portion of parcel, facing northwest. Showing tumbleweed and bare ground.



Photo 3 – Center portion of parcel, facing west.
Showing dense tumbleweed.



Photo 4 – Northern portion of parcel, facing south. Showing tumbleweed and bare ground.



Photo 5 –
Western portion
of parcel, facing
east. Showing
tumbleweed and
bare ground with
a canary date
palm tree.



Photo 6 – Eastern portion of parcel, facing west. Showing tumbleweed and bare ground.



Photo 7 –
Northern portion
of parcel, facing
south. Showing
tumbleweed, bare
ground and tree
of heaven.

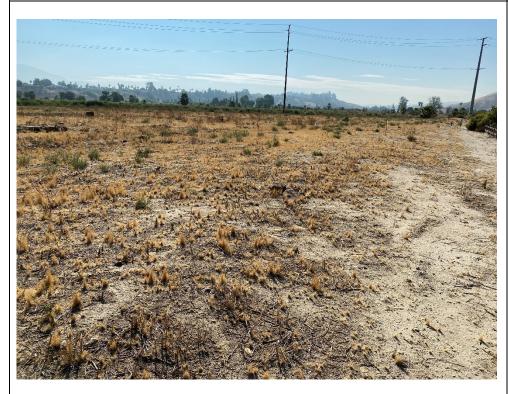


Photo 8 – Northwestern portion of parcel, facing southeast. Showing Schismus grass ssp. and bare ground.



Photo 9 – Central portion of parcel, facing east.
Showing tumbleweed and bare ground.



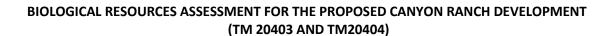
Photo 10 – Southern portion of parcel, facing north. Showing tumbleweed, trash and bare ground.



Photo 11 –
Southwestern
portion of parcel,
facing southeast.
Showing
tumbleweed,
mustard and bare
ground.



Photo 12 – Central portion of parcel, facing North.
Showing tumbleweed and bare ground.



Appendix C – Regulatory Framework

1.1 FEDERAL JURISDICTION

1.1.1 United States Army Corps of Engineers

Pursuant to Section 404 of the CWA, the United States Army Corps of Engineers (USACE) regulates the discharge of dredged and/or fill material into waters of the United States. The term "waters of the United States" is defined by 33 Code of Federal Regulations (CFR) Part 328 and currently includes: (1) all navigable waters (including all waters subject to the ebb and flow of the tide), (2) all interstate waters and wetlands, (3) all other waters (e.g., lakes, rivers, intermittent streams) that could affect interstate or foreign commerce, (4) all impoundments of waters mentioned above, (5) all tributaries to waters mentioned above, (6) the territorial seas, and (7) all wetlands adjacent to waters mentioned above. Waters of the United States do not include (1) waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of the Clean Water Act (CWA), and (2) prior converted cropland. Waters of the United States typically are separated into two types: (1) wetlands and (2) "other waters" (non-wetlands) of the United States.

Wetlands are defined by 33 CFR 328.3(b) as "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support ... a prevalence of vegetation typically adapted for life in saturated soil conditions." In 1987, USACE published a manual (1987 Wetland Manual) to guide its field personnel in determining jurisdictional wetland boundaries. This manual was amended in 2008 to the USACE 2008 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0) (2008 Arid West Supplement). Currently, the 1987 Wetland Manual and the 2008 Arid West Supplement provide the legally accepted methodology for identification and delineation of USACE-jurisdictional wetlands in southern California.

In the absence of wetlands, the limits of USACE jurisdiction in nontidal waters, including intermittent Relatively Permanent Water (RPW) streams, extend to the Ordinary High Water Mark (OHWM), which is defined by 33 CFR 328.3(e) as:

... that line on the shore established by the fluctuation 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.

On January 9, 2001, the U.S. Supreme Court ruled (in Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers) (SWANCC) that USACE jurisdiction does not extend to previously regulated isolated waters, including but not limited to isolated ponds, reservoirs, and wetlands. Examples of isolated waters that are affected by this ruling include vernal pools, stock ponds, lakes (without outlets), playa lakes, and desert washes that are not tributary to navigable or interstate waters or to other jurisdictional waters. A joint legal memorandum by EPA and USACE was signed on January 15, 2003.

In May 2007, USACE and EPA jointly published and authorized the use of the Jurisdictional Determination Form Instructional Guidebook (USACE 2007). The form and guidebook define how to determine if an area is USACE jurisdictional and if a significant nexus exists per the Rapanos decision. A nexus must have more than insubstantial and speculative effects on the downstream TNW to be considered a significant nexus. This guidebook is updated by the 2008 Arid West Supplement, the 2010 Updated Datasheet for the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States, and the 2011 Ordinary High Flows and the Stage-Discharge Relationship in the Arid West Region.

A joint guidance by EPA and USACE was issued on June 5, 2007, and revised on December 2, 2008, is consistent with the Supreme Court's decision in the consolidated cases Rapanos v. United States and Carabell v. United States (126 S. Ct. 2208 [2006]) (Rapanos), which addresses the jurisdiction over waters of the United States under the CWA (33 U.S.C. §1251 et seq.). A draft guidance was circulated in April 2011 to supercede both the 2003 SWANCC guidance and 2008 Rapanos decision; however, this guidance is not finalized and lacks the force of law.

USACE will continue to assert jurisdiction over Traditionally Navigable Waters (TNWs), wetlands adjacent to TNW, non-navigable tributaries of TNW that are Relatively Permanent Waters (RPW) where the tributaries typically flow year-round or have continuous flow at least seasonally (e.g., typically three months), and wetlands that directly abut such tributaries.

USACE generally will not assert jurisdiction over swales or erosional features (e.g., gullies or small washes characterized by low volume, infrequent, or short duration flow) or nontidal drainage ditches (including roadside ditches) that are (1) excavated wholly in and draining only uplands and (2) that do not carry a relatively permanent flow of water. USACE defines a drainage ditch as:

A linear excavation or depression constructed for the purpose of conveying surface runoff or groundwater from one area to another. An "upland drainage ditch" is a drainage ditch constructed entirely in uplands (i.e., not in waters of the United States) and is not a water of the United States, unless it becomes tidal or otherwise extends the ordinary high water line of existing waters of the United States.

Furthermore, USACE generally does not consider "[a]rtificially irrigated areas which would revert to upland if the irrigation ceased" to be subject to their jurisdiction. Such irrigation ditches are linear excavations constructed for the purpose of conveying agricultural water from the adjacent fields. Therefore, such agricultural ditches are not considered to be subject to USACE jurisdiction.

USACE will use fact-specific analysis to determine whether waters have a significant nexus with (1) TNW for nonnavigable tributaries that are not relatively permanent (non-RPW); (2) wetlands adjacent to nonnavigable tributaries that are not relatively permanent; and (3) wetlands adjacent to, but that do not directly abut, a relatively permanent nonnavigable tributary. According to USACE, "a significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by all wetlands adjacent to the tributary to

determine if they significantly affect the chemical, physical and biological integrity of downstream traditional navigable waters," including consideration of hydrologic and ecologic factors. A primary component of this determination lies in establishing the connectivity or lack of connectivity of the subject drainages to a TNW.

1.2 STATE JURISDICTION

The State of California (State) regulates discharge of material into waters of the State pursuant to Section 401 of the CWA as well as the California Porter-Cologne Water Quality Control Act (Porter-Cologne; California Water Code, Division 7, §13000 et seq.). Waters of the State are defined by Porter-Cologne as "any surface water or groundwater, including saline waters, within the boundaries of the state" (Water Code Section 13050(e)). Waters of the State broadly includes all waters within the State's boundaries (public or private), including waters in both natural and artificial channels.

1.2.1 Regional Water Quality Control Board

Under Porter-Cologne, the State Water Resources Control Board (SWRCB) and the local Regional Water Quality Control Boards (RWQCB) regulate the discharge of waste into waters of the State. Discharges of waste include "fill, any material resulting from human activity, or any other 'discharge' that may directly or indirectly impact 'waters of the state.'" Porter-Cologne reserves the right for the State to regulate activities that could affect the quantity and/or quality of surface and/or groundwaters, including isolated wetlands, within the State. Wetlands were defined as waters of the State if they demonstrated both wetland hydrology and hydric soils. Waters of the State determined to be jurisdictional for these purposes require, if impacted, waste discharge requirements (WDRs).

When an activity results in fill or discharge directly below the OHWM of jurisdictional waters of the United States (federal jurisdiction), including wetlands, a CWA Section 401 Water Quality Certification is required. If a proposed project is not subject to CWA Section 401 certification but involves activities that may result in a discharge to waters of the State, the project may still be regulated under Porter-Cologne and may be subject to waste discharge requirements. In cases where waters apply to both CWA and Porter-Cologne, RWQCB may consolidate permitting requirements to one permit.

1.2.2 California Department of Fish and Wildlife

Pursuant to Division 2, Chapter 6, Sections 1600-1602 of the California Fish and Game Code, the California Department of Fish and Wildlife (CDFW) regulates all diversions, obstructions, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake, which supports fish or wildlife.

CDFW defines a "stream" (including creeks and rivers) as "a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other

aquatic life. This includes watercourses having surface or subsurface flow that supports or has supported riparian vegetation" (California Code of Regulations, Title 14, Section 1.72). The jurisdiction of CDFW may include areas in or near intermittent streams, ephemeral streams, rivers, creeks, dry washes, sloughs, blue-line streams that are indicated on USGS maps, watercourses that may contain subsurface flows, or within the flood plain of a water body. CDFW's definition of "lake" includes "natural lakes or man-made reservoirs." CDFW limits of jurisdiction typically include the maximum extents of the uppermost bank-to-bank distance and/or the outermost extent of riparian vegetation dripline, whichever measurement is greater.

In a CDFW guidance of stream processes and forms in dryland watersheds (Vyverberg 2010), streams are identified as having one or more channels that may all be active or receive water only during some high flow event. Subordinate features, such as low flow channels, active channels, banks associated with secondary channels, floodplains, and stream-associated vegetation, may occur within the bounds of a single, larger channel. The water course is defined by the topography or elevations of land that confine a stream to a definite course when its waters rise to their highest level. A watercourse is defined as a stream with boundaries defined by the maximal extent or expression on the landscape even though flow may otherwise be intermittent or ephemeral.

Artificial waterways such as ditches (including roadside ditches), canals, aqueducts, irrigation ditches, and other artificially created water conveyance systems also may be under the jurisdiction of CDFW. CDFW may claim jurisdiction over these features based on the presence of habitat characteristics suitable to support aquatic life, riparian vegetation, and/or stream-dependent terrestrial wildlife. As with natural waterways, the limit of CDFW jurisdiction of artificial waterways includes the uppermost bank-to-bank distance and/or the outermost extent of riparian vegetation dripline, whichever measurement is greater.

CDFW does not have jurisdiction over wetlands but has jurisdiction to protect against a net loss of wetlands. CDFW supports the wetland criteria recognized by USFWS; one or more indicators of wetland conditions must exist for wetlands conditions to be considered present. The following is the USFWS accepted definition of a wetland:

Wetlands are lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. For purposes of this classification, wetlands must have one or more of the following three attributes: (1) at least periodically, the lands supports hydrophytes, (2) the substrate is predominantly undrained hydric soil; and (3) the substrate is nonsoil and is saturated withwater or covered by shallow water at some time during the growing season of each year (Cowardin et al. 1979).

In A Clarification of the U.S. Fish and Wildlife Service's Wetland Definition (Tiner 1989), the USFWS definition was further clarified "that in order for any area to be classified as wetland by the Service, the area must be periodically saturated or covered by shallow water, whether wetland vegetation and/or hydric soils are present or not; this hydrologic requirement is

addressed in the first sentence of the definition." When considering whether an action would result in a net loss of wetlands, CDFW will extend jurisdiction to USFWS-defined wetland conditions where such conditions exist within the riparian vegetation that is associated with a stream or lake and does not depend on whether those features meet the three-parameter USACE methodology of wetland determination. If impacts to wetlands under the jurisdiction of CDFW are unavoidable, a mitigation plan will be implemented in coordination with CDFW to support the CDFW policy of "no net loss" of wetland habitat.

Appendix D – Tables

Table 1. Species Observed On-Site

Common Name	Scientific Name
<u>Plants</u>	
Canary date palm tree	Phoenix canariensis
Tumbleweed	Salsola tragus
Mexican fan palm	Washingtonia robusta
Schismus grasses	Schismus ssp.
Wall barley	Hordeum murinum L. ssp. murinum
Castor bean	Ricinus communis
Peruvian pepper tree	Schinus molle
Wild tarragon	Artemisia dracunculus
Mulefat	Baccharis salicifolia
Fig tree	Ficus carica
Mediterranean mustard	Hirschfeldia incana
Jimson weed	Datura stramonium
Stinknet	Oncosiphon pilulifer
Brittle bush	Encelia farinosa
Italian cypress	Cupressus sempervirens
Orange tree	Citrus sinensis
Slender wild oat	Avena barbata
Foxtail brome	Bromus madritensis
<u>Mammals</u>	
California ground squirrel	Otospermophilus beecheyi
Desert cottontail	Sylvilagus audubonii
<u>Birds</u>	
Anna's humming bird	Calypte anna
Mourning dove	Zenaida macroura
California towhee	Melozone crissalis
Western kingbird	Tyrannus verticalis
Northern mocking bird	Mimus polyglottos

Table 2 – CNDDB Potential to Occur for the Redlands and San Bernardino South USGS 7.5 minute Quadrangles

		Federal/State			
Scientific Name	Common Name	<u>Status</u>	Other Status	<u>Habitat</u>	Occurrence Potential
				Woodland, chiefly of open,	
				interrupted or marginal type. Nest	Suitable habitat for this
				sites mainly in riparian growths of	species does not occur on
				deciduous trees, as in canyon	site. As such, this species is
Accipiter			G5, S4, CDFW-	bottoms on river flood-plains; also,	considered absent from the
cooperii	Cooper's hawk	None, None	WL	live oaks.	Project site.
				Highly colonial species, most	
				numerous in Central Valley &	
				vicinity. Largely endemic to	Suitable habitat for this
				California. Requires open water,	species does not occur on
				protected nesting substrate, and	site. As such, this species is
	tricolored		G1G2, S1S2,	foraging area with insect prey within	considered absent from the
Agelaius tricolor	blackbird	None, None	CDFW-SSC	a few km of the colony.	Project site.
				Resident in Southern California	Suitable habitat for this
	southern			coastal sage scrub and sparse mixed	species does not occur on
Aimophila	California			chaparral. Frequents relatively	site. As such, this species is
ruficeps	rufous-crowned		G5T3, S3,	steep, often rocky hillsides with	considered absent from the
canescens	sparrow	None, None	CDFW-WL	grass and forb patches.	Project site.
				Generally south of the Transverse	
				Range, extending to northwestern	
				Baja California. Occurs in sandy or	
				loose loamy soils under sparse	
				vegetation. Disjunct populations in	
				the Tehachapi and Piute Mountains	Suitable habitat for this
				in Kern County. Variety of habitats;	species does not occur on
	Southern			generally in moist, loose soil. They	site. As such, this species is
Anniella	California		G3, S3, CDFW-	prefer soils with a high moisture	considered absent from the
stebbinsi	legless lizard	None, None	SSC	content.	Project site.

		Federal/State			
Scientific Name	Common Name	Status	Other Status	Habitat	Occurrence Potential
		<u> </u>	<u> </u>	Deserts, grasslands, shrublands,	
				woodlands and forests. Most	
				common in open, dry habitats with	Suitable habitat for this
				rocky areas for roosting. Roosts	species does not occur on
				must protect bats from high	site. As such, this species is
Antrozous			G4, S3, CDFW-	temperatures. Very sensitive to	considered absent from the
pallidus	pallid bat	None, None	SSC	disturbance of roosting sites.	Project site.
					Suitable habitat for this
				Marshes and swamps. Growing up	species does not occur on
				through dense mats of Typha,	site. As such, this species is
Arenaria				Juncus, Scirpus, etc. in freshwater	considered absent from the
paludicola	marsh sandwort	None, None	G1, S1, 1B.1	marsh. Sandy soil. 3-170 m.	Project site.
				Patchily distributed from the eastern	
				portion of San Francisco Bay,	
				southern San Joaquin Valley, and the	
				Coast, Transverse, and Peninsular	Suitable habitat for this
				ranges, south to Baja California.	species does not occur on
				Generalist reported from a range of	site. As such, this species is
Arizona elegans	California glossy		G5T2, S2,	scrub and grassland habitats, often	considered absent from the
occidentalis	snake	None, None	CDFW-SSC	with loose or sandy soils.	Project site.
				Nests in chaparral dominated by	
				fairly dense stands of chamise.	
				Found in coastal sage scrub in south	Suitable habitat for this
				of range. Nest located on the ground	species does not occur on
				beneath a shrub or in a shrub 6-18	site. As such, this species is
Artemisiospiza	Bell's sage		G5T2T3, S3,	inches above ground. Territories	considered absent from the
belli belli	sparrow	None, None	CDFW-WL	about 50 yds apart.	Project site.

		Federal/State			
Scientific Name	Common Name	Status	Other Status	<u>Habitat</u>	Occurrence Potential
				Inhabits low-elevation coastal scrub,	
				chaparral, and valley-foothill	
				hardwood habitats. Prefers washes	Suitable habitat for this
				and other sandy areas with patches	species does not occur on
				of brush and rocks. Perennial plants	site. As such, this species is
Aspidoscelis	orange-throated		G5, S2S3,	necessary for its major food:	considered absent from the
hyperythra	whiptail	None, None	CDFW-WL	termites.	Project site.
				Found in deserts and semi-arid areas	Suitable habitat for this
				with sparse vegetation and open	species does not occur on
				areas. Also found in woodland &	site. As such, this species is
Aspidoscelis			G5T5, S3,	riparian areas. Ground may be firm	considered absent from the
tigris stejnegeri	coastal whiptail	None, None	CDFW-SSC	soil, sandy, or rocky.	Project site.
					Suitable habitat for this
					species does not occur on
					site. As such, this species is
Astragalus hornii	Horn's milk-			Meadows and seeps, playas. Lake	considered absent from the
var. hornii	vetch	None, None	GUT1, S1, 1B.1	margins, alkaline sites. 75-350 m.	Project site.
					There are portions of the
				Open, dry annual or perennial	site that contain marginally
				grasslands, deserts, and scrublands	suitable habitat for this
				characterized by low-growing	species. This spcies was not
				vegetation. Subterranean nester,	observe during the site
				dependent upon burrowing	survey. 30-day pre-
Athene			G4, S3, CDFW-	mammals, most notably, the	construction surveys are
cunicularia	burrowing owl	None, None	SSC	California ground squirrel.	recommended.
					Suitable habitat for this
				Chaparral, cismontane woodland,	species does not occur on
				coastal scrub, riparian scrub. On	site. As such, this species is
				steep, N-facing slopes or in low	considered absent from the
Berberis nevinii	Nevin's barberry	None, None	G1, S1, 1B.1	grade sandy washes. 90-1590 m.	Project site.

		Federal/State			
Scientific Name	Common Name	Status	Other Status	<u>Habitat</u>	Occurrence Potential
				Coastal California east to the Sierra-	
				Cascade crest and south into	Suitable habitat for this
				Mexico. Food plant genera include	species does not occur on
				Antirrhinum, Phacelia, Clarkia,	site. As such, this species is
	Crotch bumble			Dendromecon, Eschscholzia, and	considered absent from the
Bombus crotchii	bee	None, None	G3G4, S1S2	Eriogonum.	Project site.
				Breeds in grasslands with scattered	
				trees, juniper-sage flats, riparian	
				areas, savannahs, & agricultural or	
				ranch lands with groves or lines of	Suitable habitat for this
				trees. Requires adjacent suitable	species does not occur on
				foraging areas such as grasslands, or	site. As such, this species is
	Swainson's			alfalfa or grain fields supporting	considered absent from the
Buteo swainsoni	hawk	None, None	G5, S3	rodent populations.	Project site.
				Coastal scrub, chaparral, valley and	
				foothill grassland, cismontane	
				woodland, lower montane	Suitable habitat for this
				coniferous forest. Occurs on rocky	species does not occur on
				and sandy sites, usually of granitic or	site. As such, this species is
Calochortus	Plummer's			alluvial material. Can be very	considered absent from the
plummerae	mariposa-lily	None, None	G4, S4, 4.2	common after fire. 60-2500 m.	Project site.
				Marshes and swamps, coastal	Suitable habitat for this
				prairie, valley and foothill grassland.	species does not occur on
				Lake margins, wet places; site below	site. As such, this species is
				sea level is on a Delta island5-	considered absent from the
Carex comosa	bristly sedge	None, None	G5, S2, 2B.1	1010 m.	Project site.
				Endemic to Los Angeles Basin south	Suitable habitat for this
				coastal streams. Habitat generalists,	species does not occur on
				but prefer sand-rubble-boulder	site. As such, this species is
Catostomus	Santa Ana			bottoms, cool, clear water, and	considered absent from the
santaanae	sucker	None, None	G1, S1	algae.	Project site.

		Federal/State			
Scientific Name	Common Name	Status	Other Status	<u>Habitat</u>	Occurrence Potential
				Valley and foothill grassland,	Suitable habitat for this
				chenopod scrub, meadows and	species does not occur on
Centromadia				seeps, playas, riparian woodland.	site. As such, this species is
pungens ssp.			G3G4T2, S2,	Alkali meadow, alkali scrub; also in	considered absent from the
laevis	smooth tarplant	None, None	1B.1	disturbed places. 5-1170 m.	Project site.
				Coastal scrub, chaparral, grasslands,	Suitable habitat for this
				sagebrush, etc. in western San Diego	species does not occur on
	northwestern			County. Sandy, herbaceous areas,	site. As such, this species is
Chaetodipus	San Diego		G5T3T4, S3S4,	usually in association with rocks or	considered absent from the
fallax fallax	pocket mouse	None, None	CDFW-SSC	coarse gravel.	Project site.
					Suitable habitat for this
					species does not occur on
Chloropyron				Marshes and swamps, coastal dunes.	site. As such, this species is
maritimum ssp.	salt marsh			Limited to the higher zones of salt	considered absent from the
maritimum	bird's-beak	None, None	G4?T1, S1, 1B.2	marsh habitat. 0-10 m.	Project site.
				Coastal scrub, chaparral, cismontane	
				woodland, valley and foothill	
				grassland. Dry slopes and flats;	Suitable habitat for this
				sometimes at interface of 2	species does not occur on
				vegetation types, such as chaparral	site. As such, this species is
Chorizanthe	Parry's			and oak woodland. Dry, sandy soils.	considered absent from the
parryi var. parryi	spineflower	None, None	G3T2, S2, 1B.1	90-1220 m.	Project site.
				Riparian forest nester, along the	
				broad, lower flood-bottoms of larger	Suitable habitat for this
				river systems. Nests in riparian	species does not occur on
Coccyzus				jungles of willow, often mixed with	site. As such, this species is
americanus	western yellow-		G5T2T3, S1,	cottonwoods, with lower story of	considered absent from the
occidentalis	billed cuckoo	None, None	CDFW-SSC	blackberry, nettles, or wild grape.	Project site.

		Federal/State			
Scientific Name	Common Name	Status	Other Status	Habitat	Occurrence Potential
		<u> </u>	<u> </u>		Suitable habitat for this
				Coastal & cismontane Southern	species does not occur on
Coleonyx				California. Found in granite or rocky	site. As such, this species is
variegatus	San Diego		G5T5, S1S2,	outcrops in coastal scrub and	considered absent from the
abbotti	banded gecko	None, None	CDFW-SSC	chaparral habitats.	Project site.
				Chaparral, woodland, grassland, &	
				desert areas from coastal San Diego	
				County to the eastern slopes of the	Suitable habitat for this
				mountains. Occurs in rocky areas	species does not occur on
				and dense vegetation. Needs rodent	site. As such, this species is
	red-diamond		G4, S3, CDFW-	burrows, cracks in rocks or surface	considered absent from the
Crotalus ruber	rattlesnake	None, None	SSC	cover objects.	Project site.
					Suitable habitat for this
					species does not occur on
Cuscuta					site. As such, this species is
obtusiflora var.				Marshes and swamps (freshwater).	considered absent from the
glandulosa	Peruvian dodder	None, None	G5T4?, SH, 2B.2	Freshwater marsh. 15-280 m.	Project site.
					Suitable habitat for this
				Alluvial scrub vegetation on sandy	species does not occur on
				loam substrates characteristic of	site. As such, this species is
Dipodomys	San Bernardino		G5T1, S1,	alluvial fans and flood plains. Needs	considered absent from the
merriami parvus	kangaroo rat	None, None	CDFW-SSC	early to intermediate seral stages.	Project site.
				Primarily annual and perennial	
				grasslands, but also occurs in coastal	Suitable habitat for this
				scrub and sagebrush with sparse	species does not occur on
				canopy cover. Prefers buckwheat,	site. As such, this species is
Dipodomys	Stephens'			chamise, brome grass and filaree.	considered absent from the
stephensi	kangaroo rat	None, None	G2, S2	Will burrow into firm soil.	Project site.

		Fodoval/State			
Scientific Name	Common Name	Federal/State Status	Other Status	Habitat	Occurrence Potential
<u> </u>		<u> </u>	<u>omerotatus</u>	Chaparral, cismontane woodland,	<u> </u>
				coastal scrub (alluvial fan sage	Suitable habitat for this
				scrub). Flood deposited terraces and	species does not occur on
				washes; associates include Encelia,	site. As such, this species is
Dodecahema	slender-horned			Dalea, Lepidospartum, etc. Sandy	considered absent from the
leptoceras	spineflower	None, None	G1, S1, 1B.1	soils. 200-765 m.	Project site.
					Suitable habitat for this
					species does not occur on
	southwestern				site. As such, this species is
Empidonax	willow			Riparian woodlands in Southern	considered absent from the
traillii extimus	flycatcher	None, None	G5T2, S1	California.	Project site.
				Coastal regions, chiefly from	
				Sonoma County to San Diego	
				County. Also main part of San	Suitable habitat for this
				Joaquin Valley and east to foothills.	species does not occur on
				Short-grass prairie, "bald" hills,	site. As such, this species is
Eremophila	California		G5T4Q, S4,	mountain meadows, open coastal	considered absent from the
alpestris actia	horned lark	None, None	CDFW-WL	plains, fallow grain fields, alkali flats.	Project site.
					Suitable habitat for this
					species does not occur on
Eriastrum				Coastal scrub, chaparral. In sandy	site. As such, this species is
densifolium ssp.	Santa Ana River			soils on river floodplains or terraced	considered absent from the
sanctorum	woollystar	None, None	G4T1, S1, 1B.1	fluvial deposits. 180-705 m.	Project site.
					Suitable habitat for this
					species does not occur on
					site. As such, this species is
Eugnosta	Busck's				considered absent from the
busckana	gallmoth	None, None	G1G3, SH	Coastal dunes Coastal scrub	Project site.

		Federal/State			
Scientific Name	Common Name		Other Status	Habitat	Occurrence Potential
<u>Scientific Name</u>	<u>common Name</u>	<u>Status</u>	<u>Other Status</u>		Occurrence Potential
				Many open, semi-arid to arid	Suitable habitat for this
				habitats, including conifer &	
				deciduous woodlands, coastal scrub,	species does not occur on
F			CACETA COCA	grasslands, chaparral, etc. Roosts in	site. As such, this species is
Eumops perotis	western mastiff	Niana Niana	G4G5T4, S3S4,	crevices in cliff faces, high buildings,	considered absent from the
californicus	bat	None, None	CDFW-SSC	trees and tunnels.	Project site.
				Sunny openings within chaparral and	
				coastal sage shrublands in parts of	
				Riverside and San Diego counties.	Suitable habitat for this
				Hills and mesas near the coast. Need	species does not occur on
	quino			high densities of food plants	site. As such, this species is
Euphydryas	checkerspot			Plantago erecta, P. insularis, and	considered absent from the
editha quino	butterfly	None, None	G5T1T2, S1S2	Orthocarpus purpurescens.	Project site.
				Seacoast, tidal estuaries, open	
				woodlands, savannahs, edges of	Suitable habitat for this
				grasslands & deserts, farms &	species does not occur on
				ranches. Clumps of trees or	site. As such, this species is
Falco			G5, S3S4,	windbreaks are required for roosting	considered absent from the
columbarius	merlin	None, None	CDFW-WL	in open country.	Project site.
				Chaparral, lower montane	
				coniferous forest. Grows in shade of	Suitable habitat for this
				trees and shrubs at the lower edge	species does not occur on
Galium				of the pine belt, in pine forest-	site. As such, this species is
californicum ssp.	Alvin Meadow			chaparral ecotone. Granitic, sandy	considered absent from the
primum	bedstraw	None, None	G5T2, S2, 1B.2	soils. 1460-1830 m.	Project site.

		Federal/State			
Scientific Name	Common Name	Status	Other Status	Habitat	Occurrence Potential
<u> </u>		<u> </u>	<u> </u>	Native to streams from Malibu Creek	<u> </u>
				to San Luis Rey River basin.	
				Introduced into streams in Santa	
				Clara, Ventura, Santa Ynez, Mojave	
				& San Diego river basins. Slow water	Suitable habitat for this
				stream sections with mud or sand	species does not occur on
				bottoms. Feeds heavily on aquatic	site. As such, this species is
			G2, S2, CDFW-	vegetation and associated	considered absent from the
Gila orcuttii	arroyo chub	None, None	SSC	invertebrates.	Project site.
					Suitable habitat for this
					species does not occur on
Helianthus					site. As such, this species is
nuttallii ssp.	Los Angeles			Marshes and swamps (coastal salt	considered absent from the
parishii	sunflower	None, None	G5TX, SX, 1A	and freshwater). 35-1525 m.	Project site.
					Suitable habitat for this
					species does not occur on
				Chaparral, cismontane woodland,	site. As such, this species is
Horkelia cuneata				coastal scrub. Sandy or gravelly sites.	considered absent from the
var. puberula	mesa horkelia	None, None	G4T1, S1, 1B.1	15-1645 m.	Project site.
				Summer resident; inhabits riparian	
				thickets of willow and other brushy	
				tangles near watercourses. Nests in	Suitable habitat for this
				low, dense riparian, consisting of	species does not occur on
				willow, blackberry, wild grape;	site. As such, this species is
	yellow-breasted		G5, S3, CDFW-	forages and nests within 10 ft of	considered absent from the
Icteria virens	chat	None, None	SSC	ground.	Project site.
				Coastal scrub, chaparral, riparian	Suitable habitat for this
				scrub, mojavean desert scrub,	species does not occur on
	0 1:0			meadows and seeps (alkali), riparian	site. As such, this species is
Imperata	California	No. 1	64 62 25 4	scrub. Mesic sites, alkali seeps,	considered absent from the
brevifolia	satintail	None, None	G4, S3, 2B.1	riparian areas. 3-1495 m.	Project site.

		- 1 1/2			
Caiantifia Nama	Camana Nama	Federal/State	Oth an Status	Habitant.	Oassans Batantial
Scientific Name	Common Name	<u>Status</u>	Other Status	Habitat Produce and the second second	Occurrence Potential
				Broken woodlands, savannah,	
				pinyon-juniper, Joshua tree, and	
				riparian woodlands, desert oases,	Suitable habitat for this
				scrub & washes. Prefers open	species does not occur on
				country for hunting, with perches for	site. As such, this species is
Lanius	loggerhead		G4, S4, CDFW-	scanning, and fairly dense shrubs	considered absent from the
ludovicianus	shrike	None, None	SSC	and brush for nesting.	Project site.
				Found in valley foothill riparian,	Suitable habitat for this
				desert riparian, desert wash, and	species does not occur on
				palm oasis habitats. Roosts in trees,	site. As such, this species is
Lasiurus	western yellow		G4G5, S3,	particularly palms. Forages over	considered absent from the
xanthinus	bat	None, None	CDFW-SSC	water and among trees.	Project site.
				Inhabits freshwater marshes, wet	
				meadows and shallow margins of	
				saltwater marshes bordering larger	Suitable habitat for this
				bays. Needs water depths of about 1	species does not occur on
Laterallus				inch that do not fluctuate during the	site. As such, this species is
jamaicensis	California black		G3G4T1, S1,	year and dense vegetation for	considered absent from the
coturniculus	rail	None, None	CDFW-SSC	nesting habitat.	Project site.
		•			Suitable habitat for this
					species does not occur on
Lepidium					site. As such, this species is
virginicum var.	Robinson's			Chaparral, coastal scrub. Dry soils,	considered absent from the
robinsonii	pepper-grass	None, None	G5T3, S3, 4.3	shrubland. 4-1435 m.	Project site.
	Property Const	,		Intermediate canopy stages of shrub	Suitable habitat for this
				habitats & open shrub / herbaceous	species does not occur on
Lepus				& tree / herbaceous edges. Coastal	site. As such, this species is
californicus	San Diego black-		G5T3T4, S3S4,	sage scrub habitats in Southern	considered absent from the
bennettii	tailed jackrabbit	None, None	CDFW-SSC	California.	Project site.

		Federal/State			
Scientific Name	Common Name	Status	Other Status	<u>Habitat</u>	Occurrence Potential
					Suitable habitat for this
					species does not occur on
					site. As such, this species is
	Parish's desert-			Coastal scrub, Sonoran desert scrub.	considered absent from the
Lycium parishii	thorn	None, None	G4, S1, 2B.3	-3-570 m.	Project site.
					Suitable habitat for this
					species does not occur on
					site. As such, this species is
Malacothamnus	Parish's bush-			Chaparral, coastal sage scrub. In a	considered absent from the
parishii	mallow	None, None	GXQ, SX, 1A	wash. 305-455 m.	Project site.
					Suitable habitat for this
					species does not occur on
					site. As such, this species is
Monardella	Pringle's			Coastal scrub. Sandy hills. 300-400	considered absent from the
pringlei	monardella	None, None	GX, SX, 1A	m.	Project site.
				Marshes and swamps. Freshwater	
				and brackish marshes at the margins	
Nasturtium	Gambel's water			of lakes and along streams, in or just	
gambelii	cress	None, None	G1, S1, 1B.1	above the water level. 5-305 m.	
					Suitable habitat for this
					species does not occur on
				Known only from localities in	site. As such, this species is
	white cuckoo			Southern California. Cleptoparasitic	considered absent from the
Neolarra alba	bee	None, None	GH, SH	in the nests of perdita bees.	Project site.
				Coastal scrub of Southern California	
				from San Diego County to San Luis	Suitable habitat for this
				Obispo County. Moderate to dense	species does not occur on
				canopies preferred. They are	site. As such, this species is
Neotoma lepida	San Diego		G5T3T4, S3S4,	particularly abundant in rock	considered absent from the
intermedia	desert woodrat	None, None	CDFW-SSC	outcrops, rocky cliffs, and slopes.	Project site.

		F. J I/Cl. I			
Scientific Name	Common Name	Federal/State	Other Status	Habitat	Occurrence Potential
<u>Scientific Name</u>	<u>Common Name</u>	<u>Status</u>	Other Status	Variety of arid areas in Southern	Suitable habitat for this
				California; pine-juniper woodlands,	species does not occur on
N. allanana	and deficient		CE C2 CDEW	desert scrub, palm oasis, desert	site. As such, this species is
Nyctinomops	pocketed free-		G5, S3, CDFW-	wash, desert riparian, etc. Rocky	considered absent from the
femorosaccus	tailed bat	None, None	SSC	areas with high cliffs.	Project site.
				Federal listing refers to populations	
				from Santa Maria River south to	
				southern extent of range (San Mateo	
				Creek in San Diego County).	Suitable habitat for this
				Southern steelhead likely have	species does not occur on
Oncorhynchus	steelhead -			greater physiological tolerances to	site. As such, this species is
mykiss irideus	southern			warmer water and more variable	considered absent from the
pop. 10	California DPS	None, None	G5T1Q, S1	conditions.	Project site.
				Desert areas, especially scrub	
				habitats with friable soils for digging.	Suitable habitat for this
				Prefers low to moderate shrub	species does not occur on
	southern			cover. Feeds almost exclusively on	site. As such, this species is
Onychomys	grasshopper		G5T3, S3,	arthropods, especially scorpions and	considered absent from the
torridus ramona	mouse	None, None	CDFW-SSC	orthopteran insects.	Project site.
				Lower elevation grasslands and	
				coastal sage communities in and	
				around the Los Angeles Basin. Open	Suitable habitat for this
				ground with fine, sandy soils. May	species does not occur on
Perognathus				not dig extensive burrows, hiding	site. As such, this species is
longimembris	Los Angeles		G5T2, S1S2,	under weeds and dead leaves	considered absent from the
brevinasus	pocket mouse	None, None	CDFW-SSC	instead.	Project site.

		Federal/State			
Scientific Name	Common Name	Status	Other Status	Habitat	Occurrence Potential
				Frequents a wide variety of habitats,	
				most common in lowlands along	
				sandy washes with scattered low	Suitable habitat for this
				bushes. Open areas for sunning,	species does not occur on
				bushes for cover, patches of loose	site. As such, this species is
Phrynosoma	coast horned		G3G4, S3S4,	soil for burial, and abundant supply	considered absent from the
blainvillii	lizard	None, None	CDFW-SSC	of ants and other insects.	Project site.
				Obligate, permanent resident of	
				coastal sage scrub below 2500 ft in	Suitable habitat for this
				Southern California. Low, coastal	species does not occur on
Polioptila	coastal			sage scrub in arid washes, on mesas	site. As such, this species is
californica	California		G4G5T3Q, S2,	and slopes. Not all areas classified as	considered absent from the
californica	gnatcatcher	None, None	CDFW-SSC	coastal sage scrub are occupied.	Project site.
				Federal listing refers to populations	
				in the San Gabriel, San Jacinto and	
				San Bernardino mountains (southern	
				DPS). Northern DPS was determined	
				to warrant listing as endangered,	
				Apr 2014, effective Jun 30, 2014.	Suitable habitat for this
	southern			Always encountered within a few	species does not occur on
	mountain			feet of water. Tadpoles may require	site. As such, this species is
	yellow-legged		G1, S1, CDFW-	2 - 4 yrs to complete their aquatic	considered absent from the
Rana muscosa	frog	None, None	WL	development.	Project site.
				Found only in areas of the Delhi	
				Sands formation in southwestern	
				San Bernardino and northwestern	
				Riverside counties. Requires fine,	Suitable habitat for this
				sandy soils, often with wholly or	species does not occur on
Rhaphiomidas				partly consolidated dunes and	site. As such, this species is
terminatus	Delhi Sands			sparse vegetation. Oviposition req.	considered absent from the
abdominalis	flower-loving fly	None, None	G1T1, S1	shade.	Project site.

		Federal/State			
Scientific Name	Common Name	<u>Status</u>	Other Status	<u>Habitat</u>	Occurrence Potential
				Headwaters of the Santa Ana and	
				San Gabriel rivers. May be extirpated	
				from the Los Angeles River system.	Suitable habitat for this
				Requires permanent flowing streams	species does not occur on
				with summer water temps of 17-20	site. As such, this species is
Rhinichthys	Santa Ana			C. Usually inhabits shallow cobble	considered absent from the
osculus ssp. 8	speckled dace	None, None	G5T1, S1	and gravel riffles.	Project site.
					Suitable habitat for this
					species does not occur on
Ribes					site. As such, this species is
divaricatum var.	Parish's			Riparian woodland. Salix swales in	considered absent from the
parishii	gooseberry	None, None	G5TX, SX, 1A	riparian habitats. 65-300 m.	Project site.
Riversidian	Riversidian				
Alluvial Fan Sage	Alluvial Fan				This habitat is not present
Scrub	Sage Scrub	None, None	G1, S1.1	Coastal scrub	within the Project boundary.
					Suitable habitat for this
					species does not occur on
				Chaparral, cismontane woodland,	site. As such, this species is
Senecio	chaparral			coastal scrub. Drying alkaline flats.	considered absent from the
aphanactis	ragwort	None, None	G3, S2, 2B.2	20-1020 m.	Project site.
				Riparian plant associations in close	
				proximity to water. Also nests in	
				montane shrubbery in open conifer	
				forests in Cascades and Sierra	
				Nevada. Frequently found nesting	Suitable habitat for this
				and foraging in willow shrubs and	species does not occur on
				thickets, and in other riparian plants	site. As such, this species is
Setophaga			G5, S3S4,	including cottonwoods, sycamores,	considered absent from the
petechia	yellow warbler	None, None	CDFW-SSC	ash, and alders.	Project site.

Colored Control	6 N	Federal/State		11.12	
Scientific Name	<u>Common Name</u>	<u>Status</u>	Other Status	<u>Habitat</u>	Occurrence Potential
					Suitable habitat for this
				Playas, chaparral, coastal scrub,	species does not occur on
				lower montane coniferous forest,	site. As such, this species is
Sidalcea	salt spring			Mojavean desert scrub. Alkali	considered absent from the
neomexicana	checkerbloom	None, None	G4, S2, 2B.2	springs and marshes. 3-2380 m.	Project site.
Southern Coast	Southern Coast				
Live Oak	Live Oak				This habitat is not present
Riparian Forest	Riparian Forest	None, None	G4, S4	Riparian forest	within the Project boundary.
Southern	Southern				
Cottonwood	Cottonwood				
Willow Riparian	Willow Riparian				This habitat is not present
Forest	Forest	None, None	G3, S3.2	Riparian forest	within the Project boundary.
Southern	Southern	,	,	1	This habitat is not present
Riparian Scrub	Riparian Scrub	None, None	G3, S3.2	Riparian scrub	within the Project boundary.
•	·	itoric, itoric	00,00.2	- Alpanan Solub	within the respect boundary.
Southern	Southern				
Sycamore Alder	Sycamore Alder				This habitat is not assess
Riparian	Riparian	Ni Ni	C4 C4	Birrie and Harri	This habitat is not present
Woodland	Woodland	None, None	G4, S4	Riparian woodland	within the Project boundary.
				Occurs primarily in grassland	Suitable habitat for this
				habitats, but can be found in valley-	species does not occur on
				foothill hardwood woodlands.	site. As such, this species is
	western		G2G3, S3,	Vernal pools are essential for	considered absent from the
Spea hammondii	spadefoot	None, None	CDFW-SSC	breeding and egg-laying.	Project site.
					Suitable habitat for this
				Cismontane woodland, meadows	species does not occur on
				and seeps. Open moist sites, along	site. As such, this species is
Sphenopholis	prairie wedge			rivers and springs, alkaline desert	considered absent from the
obtusata	grass	None, None	G5, S2, 2B.2	seeps. 15-2625 m.	Project site.

		Federal/State			
Scientific Name	Common Name	Status	Other Status	Habitat	Occurrence Potential
		<u> </u>	<u></u>	Meadows and seeps, cismontane	<u></u>
				woodland, coastal scrub, lower	
				montane coniferous forest, marshes	Suitable habitat for this
				and swamps, valley and foothill	species does not occur on
				grassland. Vernally mesic grassland	site. As such, this species is
Symphyotrichum	San Bernardino			or near ditches, streams and springs;	considered absent from the
defoliatum	aster	None, None	G2, S2, 1B.2	disturbed areas. 3-2045 m.	Project site.
				Most abundant in drier open stages	
				of most shrub, forest, and	
				herbaceous habitats, with friable	Suitable habitat for this
				soils. Needs sufficient food, friable	species does not occur on
				soils and open, uncultivated ground.	site. As such, this species is
	American		G5, S3, CDFW-	Preys on burrowing rodents. Digs	considered absent from the
Taxidea taxus	badger	None, None	SSC	burrows.	Project site.
				Coastal California from vicinity of	
				Salinas to northwest Baja California.	
				From sea to about 7,000 ft elevation.	Suitable habitat for this
				Highly aquatic, found in or near	species does not occur on
				permanent fresh water. Often along	site. As such, this species is
Thamnophis	two-striped		G4, S3S4,	streams with rocky beds and riparian	considered absent from the
hammondii	gartersnake	None, None	CDFW-SSC	growth.	Project site.
				Summer resident of Southern	
				California in low riparian in vicinity	
				of water or in dry river bottoms;	Suitable habitat for this
				below 2000 ft. Nests placed along	species does not occur on
				margins of bushes or on twigs	site. As such, this species is
Vireo bellii		l		projecting into pathways, usually	considered absent from the
pusillus	least Bell's vireo	None, None	G5T2, S2	willow, Baccharis, mesquite.	Project site.

Coding and Terms

E = Endangered T = Threatened C = Candidate FP = Fully Protected WL = Watch List SSC = Species of Special Concern R = Rare

State Species of Special Concern: An administrative designation given to vertebrate species that appear to be vulnerable to extinction because of declining populations, limited acreages, and/or continuing threats. Raptor and owls are protected under section 3502.5 of the California Fish and Game code: "It is unlawful to take, possess or destroy any birds in the orders Falconiformes or Strigiformes or to take, possess or destroy the nest or eggs of any such bird."

State Fully Protected: The classification of Fully Protected was the State's initial effort in the 1960's to identify and provide additional protection to those animals that were rare or faced possible extinction. Lists were created for fish, mammals, amphibians and reptiles. Fully Protected species may not be taken or possessed at any time and no licenses or permits may be issued for their take except for collecting these species for necessary scientific research and relocation of the bird species for the protection of livestock.

Global Rankings (Species or Natural Community Level):

- G1 = Critically Imperiled At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.
- G2 = Imperiled At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.
- G3 = Vulnerable At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.
- G4 = Apparently Secure Uncommon but not rare; some cause for long-term concern due to declines or other factors.
- G5 = Secure Common; widespread and abundant.
- ? = Uncertainty in the exact status of an element (could move up or down one direction from current rank)

Subspecies Level: Taxa which are subspecies or varieties receive a taxon rank (T-rank) attached to their G-rank. Where the G-rank reflects the condition of the entire species, the T-rank reflects the global situation of just the subspecies. For example: the Point Reyes mountain beaver, *Aplodontia rufa* ssp. *phaea* is ranked G5T2. The G-rank refers to the whole species range i.e., *Aplodontia rufa*. The T-rank refers only to the global condition of ssp. *phaea*.

State Ranking:

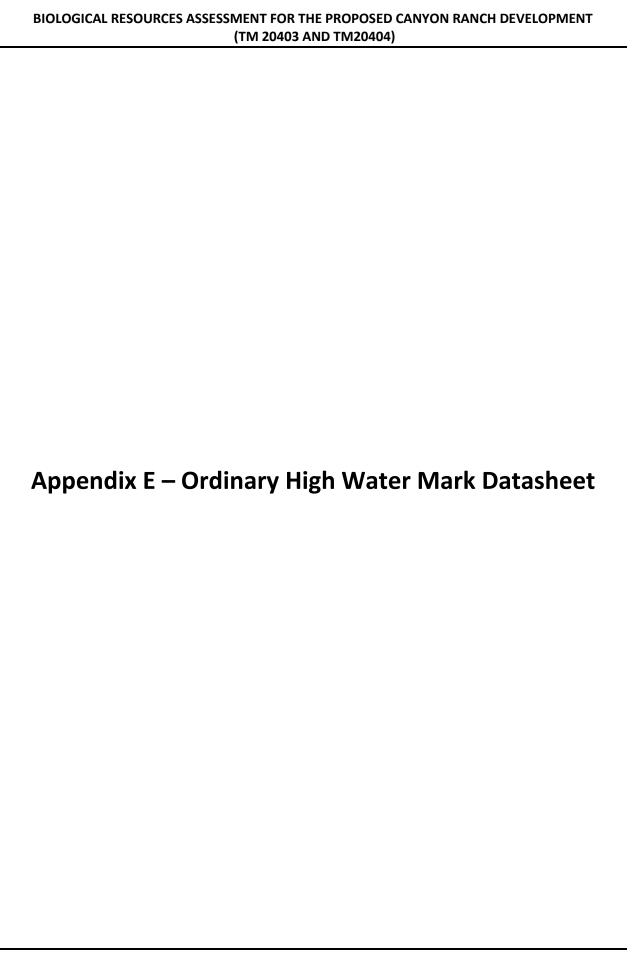
- S1 = Critically Imperiled Critically imperiled in the State because of extreme rarity (often 5 or fewer populations) or because of factor(s) such as very steep declines making it especially vulnerable to extirpation from the State.
- S2 = Imperiled Imperiled in the State because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the State.
- S3 = Vulnerable Vulnerable in the State due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation from the State.
- S4 = Apparently Secure Uncommon but not rare in the State; some cause for long-term concern due to declines or other factors.
- S5 = Secure Common, widespread, and abundant in the State.

California Rare Plant Rankings (CNPS List):

- 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 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 (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known)



Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: Congan Ranch Development Project Number: Stream: San Timoteo Worh Investigator(s):	Date: 8-27-2021 Time: 0900 Town: Contone Linda State: CA Photo begin file#: Photo end file#:
Y ☑/N ☐ Do normal circumstances exist on the site?	Location Details:
Y ☑ / N ☐ Is the site significantly disturbed?	Projection: 65 84 Datum: Coordinates: 34. 5443230 -117.223334
Potential anthropogenic influences on the channel syst	
The site is a meintained flood cont	To Channel.
Brief site description:	
The bottom of the chamed is unvegeta	tel as it is connectly meintained.
X Vegetation maps ☐ Result X Soils maps ☐ Most r ☐ Rainfall/precipitation maps ☐ Gage h	per:
Hydrogeomorphic F	2.2.
Active Floodplain Low-Flow Channels	OHWM Paleo Channel
Procedure for identifying and characterizing the flood	
1. Walk the channel and floodplain within the study area vegetation present at the site. 2. Select a representative cross section across the channel. 3. Determine a point on the cross section that is character a) Record the floodplain unit and GPS position. b) Describe the sediment texture (using the Wentworth floodplain unit. c) Identify any indicators present at the location. 4. Repeat for other points in different hydrogeomorphic for the OHWM and record the indicators. Record Mapping on aerial photograph Digitized on computer	Draw the cross section and label the floodplain units. istic of one of the hydrogeomorphic floodplain units. class size) and the vegetation characteristics of the loodplain units across the cross section. the OHWM position via:

Project ID:		Date:	Time:
Cross section drawing	<u>ıg</u> :	inter/	
		444 /	
	1,-		
		/	
	1_	212	
		-315'	
OHWM			
GPS point:			
Indicators:			
	age sediment texture	Break in bank slope	
Change in vege	tation species	Other:	
Change in vege	tation cover	Other:	
C Street Annual Street Telestra V. Te.			
Comments:			
Floodplain unit: 🛛	Low-Flow Channel	☐ Active Floodplain	☐ Low Terrace
		1144.7 1100apiam	□ Low Terrace
GPS point:			
Characteristics of the Ac	odulojutr		
Characteristics of the flo Average sediment textur	e. 14 14		
Total veg cover:	% Tree: % Shri	ıb:% Herb:%	ά.
Community successiona	I stage:		V
⊠ NA		Mid (herbaceous, shru	bs, saplings)
Early (herbaceo	us & seedlings)	Late (herbaceous, shru	bs, mature trees)
(ndicators:			
Mudcracks		Soil development	
Ripples		Surface relief	
Drift and/or deb		Other:	
Presence of bed	and bank	Other:	
☐ Benches		Other:	
Comments:			
A 1000 1 A	1 (+ 1 ()	0	
active flow	d Control Chann	u,	