Oliver P. Romer Water Filtration Facility

Initial Study / Proposed Mitigated Negative Declaration

West Valley Water District August 09, 2021



Initial Study / Proposed Mitigated Negative Declaration Oliver P. Romer Water Filtration Facility

This document has been prepared by:



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In collaboration with:



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Appendix A Air Quality

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1. Project Information

Project Title	West Valley Water District Oliver P. Roemer Water Filtration Facility Expansion Project
Lead Agency Name & Address	West Valley Water District 855 W. Base Line Road Rialto, CA 92377
Contact Person & Phone Number	Linda Jadeski, Engineering Services Manager (909) 820-3713
Project Location	3010 N. Cedar Avenue Rialto, CA 92377
Project Sponsor's Name & Address	West Valley Water District 855 W. Base Line Road Rialto, CA 92377
General Plan Land Use Designation	Single Family Residential (R-1).
Zoning	Single Family Residential (R-1)

1.1 Introduction

West Valley Water District (District), serving as the California Environmental Quality Act (CEQA) Lead Agency, has prepared this Initial Study to provide the public, responsible agencies, and trustee agencies with information about the potential environmental effects of the Oliver P Roemer Water Filtration Facility Expansion Project (Project). West Valley Water District is a local government agency that manages the public water supply for a portion of southwestern San Bernardino County and a portion of northwestern Riverside County. The District serves about 82,000 customers in the communities of Bloomington, Colton, Fontana, Rialto, and parts of unincorporated areas in San Bernardino, and Jurupa Valley in Riverside County.

1.2 Project Background and Purpose

The District currently operates the Oliver P. Roemer Water Filtration Facility (RWFF) at a capacity of 14.4 million gallons per day (mgd) with water sources from both Lytle Creek and California's State Water Project (SWP).

West Valley Water District's (WVWD or District) 2020 Water Facilities Master Plan calculates that approximately 34% of the land within the District's service area boundary is undeveloped and projects that over 21,000 additional connections, (equivalent dwelling units) will be constructed by buildout of the water supply system. By 2046, the average day demand is projected to increase from 19.1 mgd to 31.7 mgd and peak day demand (which is 1.7 times the average day demand) is projected to reach 53.8 mgd.

Current demands are met through various water supply sources available to the District. These currently include:

- Groundwater pumped from District wells from up to 5 different groundwater basins;
- Purchased groundwater through the Base Line Feeder; and
- Surface water from Lytle Creek and the State Water Project (SWP).

The RWFF, which provides 41% of the District's water, treats surface water from both Lytle Creek and the State Water Project (SWP) to meet local demand. The remaining 59% comes from local ground water wells. The RWFF does not currently treat water from any source other than Lytle Creek or the SWP, nor will the Project allow it to.

Due to projected development growth, rising peak summer usage, and the need to continue to responsibly manage groundwater basins, the District is planning to expand treatment capacity at the RWFF by 7.2 mgd. This expansion in capacity is also necessary to allow the District the ability to utilize additional SWP water and relax pumping of their groundwater wells. This operational shift will allow groundwater levels to recover and ensure that the District can continue to provide water to meet the region's growing water needs.

1.3 CEQA Requirements

The purpose of this Initial Study is to provide a basis for deciding whether to prepare an Environmental Impact Report, a Mitigated Negative Declaration, or a Negative Declaration. This Initial Study has been prepared to satisfy the requirements of CEQA (Public Resources Code, Div 13, Sec 21000-21177) and the CEQA Guidelines (California Code of Regulations, Title 14, Sec 15000-15387).

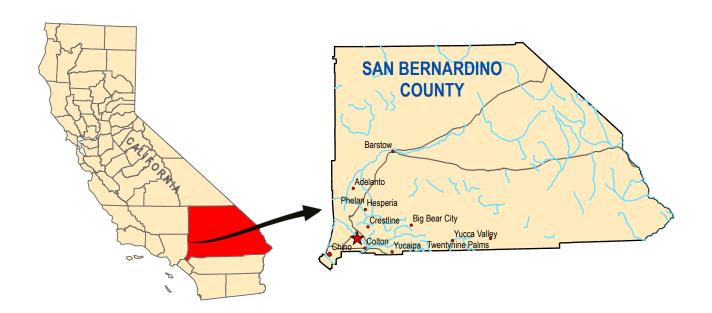
Section 15063(d) of the State CEQA Guidelines states the content requirements of an Initial Study as follows:

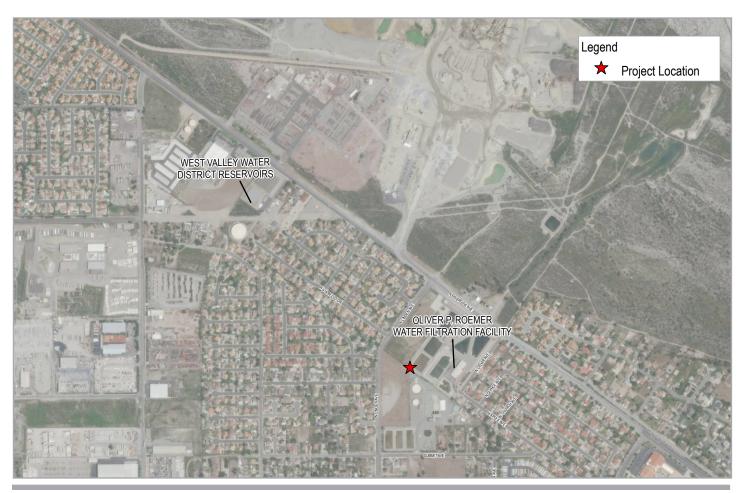
- 1. A description of the project including the location of the project;
- 2. An identification of the environmental setting;
- 3. An identification of environmental effects by use of a checklist, matrix, or other method, provided that entries on a checklist or other form are briefly explained to indicate that there is some evidence to support the entries;
- 4. A discussion of the ways to mitigate the significant effects identified, if any;
- 5. An examination of whether the project would be consistent with existing zoning, plans, and other applicable land use controls; and
- 6. The name of the person or persons who prepared or participated in the Initial Study.

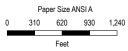
1.4 Project Location and Surrounding Land Uses

The proposed Project site is located within the City of Rialto, in San Bernardino County (Figure 1). The majority of the improvements would occur within the existing RWFF located on the south side of Riverside Drive, generally bound by Riverside Avenue to the north, Cedar Avenue to the east, and Linden Avenue to the west. A new water pipeline would extend from the RWFF through Open Space, to North Linden Drive, to existing water storage reservoirs located at the end of West Via Bello Drive.

Surrounding land uses include detached single-family homes to the west and east. Land to the north and northeast on the opposite side of Riverside Avenue, directly across from the RWFF, is vacant except for a hydroelectric generating plant. Land further to the north consists of a rock and gravel excavation site. Property to the south is the Sandhill Water Treatment Plant. The proposed pipeline would generally border single-family detached homes until it reaches the existing reservoirs.







Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 Grid:NAD 1983 StatePlane California V FIPS 0405 Feet





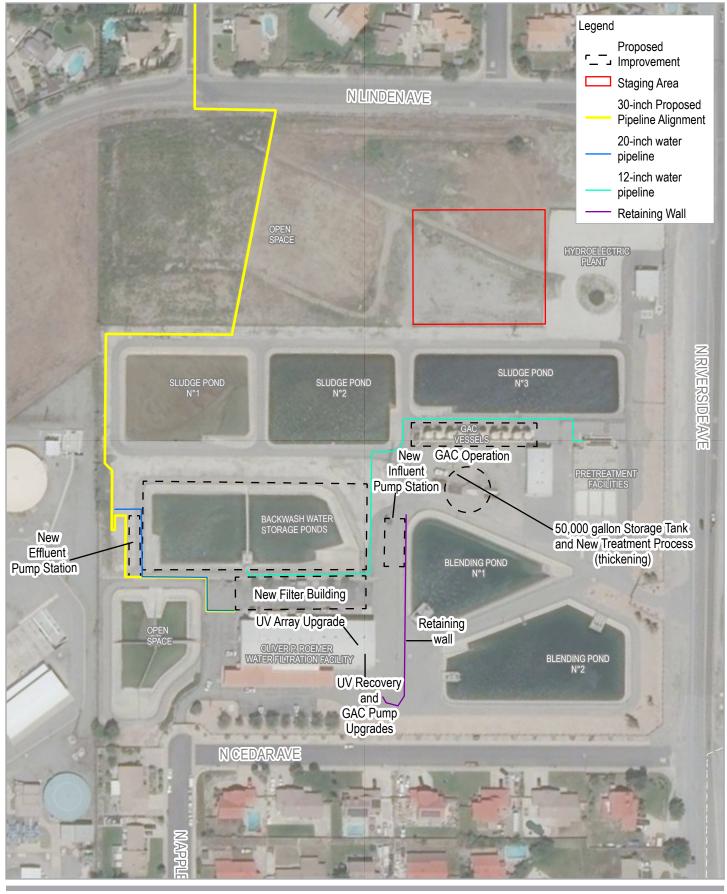
WEST VALLEY WATER DISTRICT
16 MGD OLIVER P. ROEMER WATER FILTRATION
FACILITY EXPANSION PROJECT

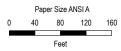
Project No. 11214029
Revision No. -

Date 3/5/2021

PROJECT LOCATION

FIGURE 1





Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 Grid: NAD 1983 StatePlane California V FIPS 0405 Feet



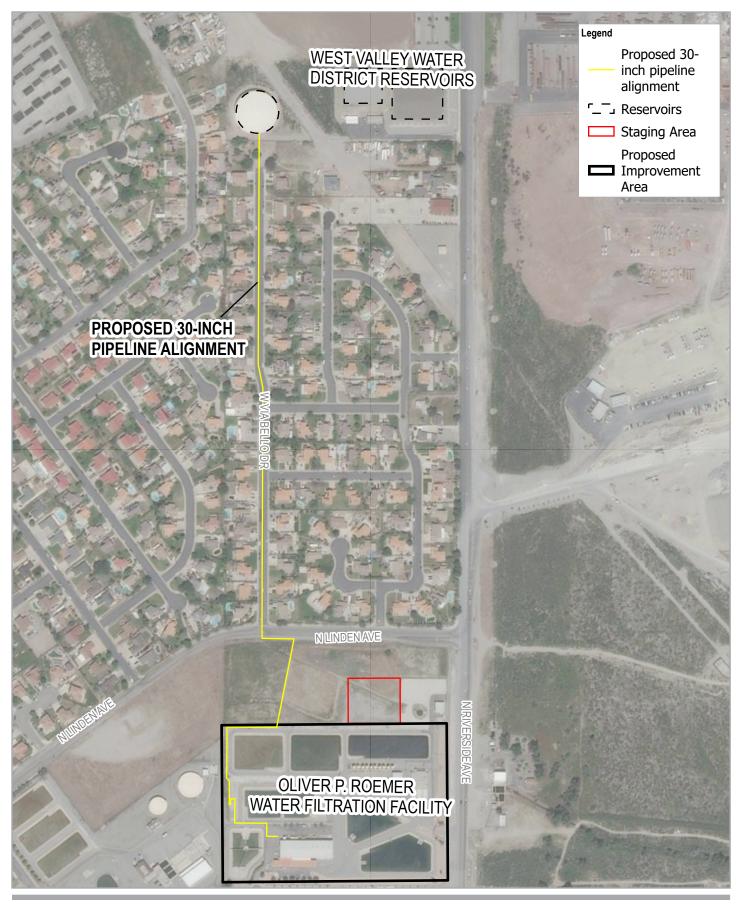
WEST VALLEY WATER DISTRICT

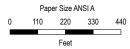
16 MGD OLIVER P. ROEMER WATER FILTRATION
FACILITY EXPANSION PROJECT

PROPOSED IMPROVEMENTS
WITHIN THE RWFF

Project No. 11214029 Revision No. -Date 3/25/2021

FIGURE 2





Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 Grid: NAD 1983 StatePlane California V FIPS 0405 Feet



WEST VALLEY WATER DISTRICT

16 MGD OLIVER P. ROEMER WATER FILTRATION
FACILITY EXPANSION PROJECT

Project No. 11214029
Revision No. -

Date 3/31/2021

PROPOSED PIPELINE ALIGNMENT

FIGURE 3

1.5 Project Description

1.5.1 Proposed Improvements

The Project would expand the RWFF capacity by 16 mgd through a two-phase project implementation strategy to meet future demands and better manage limited groundwater resources. Expansion of the RWFF will allow maximizing the use of surface supplies (California's SWP and Lytle Creek flows) when available to allow groundwater sources to recharge. This conjunctive use strategy is critical for long term, sustainable water management for the region.

Project improvements would expand the RWFF from the current 14.4 mgd to 21.6 mgd to treat additional SWP water, and includes the following Project elements:

- Trident Filter Expansion Install three new Trident filtration units.
- Improved Ultraviolet (UV) System Replace the existing UV reactors with new 4L24 reactors, with space allocation for future expansion.
- Granular Activated Carbon (GAC) Modifications Adjust GAC system from series to parallel mode for higher capacity.
- Backwash Settling Ponds Enhancements Optimize to decrease algae growth potential.
- Treated Water Booster Pumps.
- Influent Pumps Station.
- 30-inch treated water conveyance pipeline.
- Repair, Rehabilitation, and Improvements of Existing Infrastructure:
 - Upgrade of UV recovery and GAC influent pumps.
 - Electrical, mechanical, and other appurtenances.
 - Replace 6-inch water recycling line from ponds with new 12-inch pipeline.

The components of the proposed Project are described in more detail below.

Trident Filter Expansion

Trident filtration systems are currently in place at the RWFF in order to treat raw water routed to the RWFF. The Trident system is considered an "Alternative Filtration Technology" by the Department of Drinking Water (DDW). The Project would expand the existing building housing the existing six Trident pumps and install three new Trident filtration units alongside them. The building dimensions would be approximately 63 feet long by 184 feet wide by 36 feet, 11 inches high.

Ultraviolet Disinfection System

The UV facility would be upgraded by replacing the existing reactors with newer and more efficient lamps, which are used to disinfect the water. There are currently three 24-inch UV reactors with six lamps each. The existing reactors represent first generation technology and are approaching the end of their usable life. The existing Trojan SWIFTM 6L24 UV Disinfection reactors would be replaced by new Trojan SWIFTM 4L24 reactors to achieve target expansion capacity and reduce power consumption.

Granular Activated Carbon

The GAC is designed to remove additional total organic compounds (TOC) to enhance Disinfection Byproducts (DBPs) controls in the WVWD distribution system and to improve the taste of the treated water.

Currently a partial stream from the Trident and UV treated water passes through a 20-inch line to the existing 10 GAC absorbers, which operate in series mode. The Project proposes an operational shift from series to parallel mode. This shift would only double the capacity without any additional capital investment. The operation of the GAC would be staggered (sequence of flow distribution among vessels would be kept) in order to simplify GAC changeouts.

Backwash Settling Ponds

The current operation of the Backwash Settling Ponds indicate areas for operational improvement as plant capacity is increased. A 50,000-gallon storage tank would be constructed behind the GAC distribution area. The Project proposes an operational change where a thickening agent, such as Dissolved Air Floatation, would be added to the ponds to discourage algae growth.

Treated Water Booster Pumps

Currently six pumps at the outlet of the chlorine contact basin pump the treated water to the reservoirs located at the end of West Via Bello Drive. The Project would install three additional effluent pumps to handle the extra 7.2-mgd capacity near the backwash settling ponds. These pumps would be installed within concrete wet walls. The wet walls would be composed of 16-inch thick concrete walls.

Influent Water Pumps

Currently there are five pumps near the chlorine contact basin that pump water through the treatment facility. Three new influent water pumps would be installed to handle the extra 7.2-mgd capacity. These pumps would be installed between the expanded Trident Filter building and the Blending Pond 1. The pumps would be installed approximately 17.5-feet underground.

Treated Water Conveyance Pipeline

A new 30-inch treated water pipeline would be installed from the RWFF to the WVWD Reservoirs to the north. The pipeline would be constructed from the RWFF through existing open space that is contingent to the RWFF, then along North Linden Avenue for approximately 140 linear feet until it reaches West Via Bello Drive. The pipeline would be routed in street right-of-way through West Via Bello Drive for approximately 1,950 linear feet until it reaches the existing reservoirs. An existing water utility in Via Bello Drive may need to be relocated within the excavated trench of the roadway right-of-way to accommodate installation of the new water pipeline.

Repair, Rehabilitation, and Improvements to Existing Infrastructure

The Project would upgrade the UV Disinfection Facility pumps and the GAC pumps. A total of 4 UV pumps and three GAC pumps would replace the existing pumps at the main treatment facility. The Project would also replace approximately 286 linear feet of the 6-inch water recycling line from the treatment ponds to the pre-treatment facility with a new 12-inch pipeline. The majority of the facility would also be repaved to rehabilitate the existing pavement. The paving would cover the existing parking lot, and around each of the exiting components of the facility. Restriping of the parking lot would occur once repaving is completed. A new retaining wall would be constructed southwest of the Blending Pond 2 and extend approximately 313 linear feet northwest to the western edge of Blending Pond 1.

Tree Removal and Landscaping

The Project would remove five ornamental trees located within the parking lot area in the southern portion of the RWFF. Landscaping is also proposed along the border of the RWFF on North Riverside Avenue and North Cedar Avenue. The landscaping would consist of a mix of trees and shrubs that would help to screen the RWFF from view along these roadways. A total of 61 trees and 187 shrubs are proposed for installation along North Riverside Avenue and North Cedar Avenue.

1.5.2 Project Operation and Maintenance

The proposed RWFF improvements would operate similar to existing conditions. The new pumps would operate intermittently throughout any 24-hour period. Once operational, it is anticipated that maintenance trips to and from the RWFF would be similar to those for the existing RWFF.

Hauling of generated maximum daily solids are anticipated to increase from approximately 2,600 pounds per day (lbs./day) to approximately 3,900 lbs/day. Similar to existing conditions the sludge would be stored in the storage ponds on-site for approximately six months to dry prior to hauling off-site. Hauling to an approved landfill would take place twice a year and would require up to 18 truck trips bi-annually. This would result in an additional 12 trips per year.

1.5.3 Project Construction

Construction Schedule

Construction of the Project is expected to begin in March 2022 and require approximately 21 months to complete. Between October 1st and April 30th of a given year, construction activities would generally occur between 7:00 a.m. and 5:30 p.m. on weekdays, and between 8:00 a.m. and 5:00 p.m. on Saturdays. Between May 1st and September 30th of a given year, construction activities would occur between 6:00 a.m. and 7:00 p.m. on weekdays, and between 8:00 a.m. and 5:00 p.m. on Saturdays.

Construction Staging and Equipment

Prior to and during construction, the contractor would mobilize resources to a staging area that would be located on the adjacent District-owned Open Space (See Figure 2, Proposed RWFF Improvements). A variety of construction equipment would be used to build the Project, including various sized cranes, excavators, loaders, backhoe, small dozer, loader, backhoe, worker trucks, super dumps, water truck, rollers, pavers, AB import trucking, and AC haulers.

The primary construction-related vehicle and haul truck route to the Project site is anticipated to be North Riverside Avenue to Linden Road. The number of construction-related vehicles traveling to and from the Project areas would vary on a daily basis. It is anticipated that up to 8 round trip haul truck trips could occur during peak construction periods. In addition, it is anticipated that construction crew trips would require up to 8 round trips vehicle trips per day.

Pipeline Construction

Pipeline construction for the proposed new water pipeline from the RWFF to the reservoirs and the two pipelines within the existing facility would be constructed via open trench methods. These methods would typically include excavating the trench, preparing and installing pipeline sections and other pipeline components, backfilling the trench with non-expansive fills, and restoring and re-paving the pipeline alignment. The depth of excavation for the 30-inch water main to the reservoirs would average

approximately 7 feet deep with a maximum depth of approximately 15 feet deep in certain areas. The new water main would be installed within the City road right-of-way within Linden Avenue and West Via Bello Road. Relocation of an existing water utility in Via Bello Drive, if found necessary, would be accommodated within the excavated trench. The two pipelines to be installed within the existing RWFF would require a depth of excavation of approximately 7 feet. In total, approximately 5,600 cubic yards of material would be required to be off-hauled to a regional disposal facility.

Construction Traffic Control

Construction of the new water pipeline within Linden Avenue and West Via Bello Drive would take place generally within the City of Rialto right-of-way requiring a temporary partial lane closure and encroachment permit. As part of the encroachment permit process, the District and its construction contractor would be required to prepare traffic control plans for review and acceptance of planned work within the City right-of-way. This would include information on the lengths and widths of work zones, tapers and sign spacing, and all lanes to be temporarily used, reduced, or left open. The development and implementation of traffic control plans may also include, but not necessarily be limited to:

- Traffic controls, signs, and flaggers required for conformance with the current California Manual of Uniform Traffic Control Devices;
- Pedestrian and bicycle control devices;
- Notifications/arrangements for any driveway access restrictions; and
- Notifications to emergency responders and public transit agencies.

1.6 Environmental Protection Actions

The following actions are included as part of the Project to reduce or avoid potential adverse effects that could result from construction or operation of the Project. Additional mitigation measures are presented in the following analysis sections in Chapter 3, Environmental Analysis. Environmental protection actions and mitigation measures, together, will be included in a Mitigation Monitoring Program at the time that the Project is considered for approval.

1.6.1 Environmental Protection Action 1 – Implement Geotechnical Design Recommendations

As part of the Project design process, the WVWD would engage a California-registered Geotechnical Engineer to conduct a design-level geotechnical study for the Project. The WVWD will design the Project to comply with the site-specific recommendations made in the Project's geotechnical report. This will include design in accordance with the seismic and foundation design criteria, open-cut trenching, pipeline foundation material, trench backfill material, site preparation, and grading recommendations included in the report. The geotechnical recommendations will be incorporated into the final plans and specifications for the Project and will be implemented during construction.

1.6.2 Environmental Protection Action 2 – Implement Air Quality Control Measures during Construction

To limit dust, criteria pollutants, and precursor emissions associated with the construction activity, the following Basic Construction Measures will be included in construction contract specifications and required during implementation of the Project:

- All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas and unpaved access roads) shall be watered two times per day;
- All haul trucks transporting soil, sand, or other loose material off-site shall be covered or shall have at least two feet of freeboard:
- All visible mud or dirt tracked-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping shall be prohibited;
- All vehicle speeds on unpaved areas shall be limited to 15 miles per hour;
- All paving shall be completed as soon as possible after trenching work is finished;
- Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to five minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations). Clear signage shall be provided for construction workers at all access points;
- All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation;
- A publicly visible sign shall be posted with the telephone number and person to contact at the District regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

1.7 Required Agency Approvals

The following City of Rialto entitlements may be required for the Project:

- Encroachment Permit for work within the City right-of-way
- State Water Resources Control Board Division of Financial Assistance: If the District pursues State Revolving Fund (SRF) funding for the Project, the Project would require approval of an SRF application and initiation of consultation with applicable federal agencies.

1.8 Tribal Consultation

The District has received requests for notification of proposed projects from California Native American tribes pursuant to Public Resources Code Section 21080.3.1. These California Native American Tribes include the Torres Martinez Desert Cahuilla Indians, San Manuel Band of Mission Indians, Morongo Band of Mission Indians, and the Gabrieleno Band of Mission Indians-Kizh Nation. The District initiated contact with these Native American tribes as part of preparing this environmental review document. Please refer to Section 3.18, Tribal Cultural Resources, for additional information

2. Environmental Factors Potentially Affected

least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages. Where checked below, the topic with a potentially significant impact will be addressed in an environmental impact report: □ Aesthetics ☐ Greenhouse Gas ☐ Public Services **Emissions** Agricultural & Forestry ☐ Hazards & Hazardous □ Recreation Resources Materials Air Quality ☐ Hydrology/Water Quality ☐ Transportation ☐ Energy Land Use/Planning ☐ Tribal Cultural Resources ☐ Biological Resources ☐ Utilities/Service Systems ☐ Cultural Resources □ Noise ☐ Population/Housing ☐ Mandatory Findings of Geology/Soils Significance DETERMINATION (To be completed by the Lead Agency) On the basis of this initial evaluation: I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION would be prepared. I find that although the proposed project could have a significant effect on the environment, there would not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION would be prepared. I find that the proposed MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required. I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect: (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed. I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect: (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required. 8/3/Z/ Date

The environmental factors checked below would be potentially affected by this project, involving at

3. Environmental Analysis

3.1 Aesthetics

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Exc	cept as provided in Public Resources Code Section 21099, w	ould the projec	t:		
a)	Have a substantial adverse effect on a scenic vista?				✓
b)	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				✓
c)	In non-urbanized areas, substantially degrade the existing visual character or quality of public view of the site and its surroundings? (Public Views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?			✓	
d)	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?				✓

a) Have a substantial adverse effect on a scenic vista? (No Impact)

The City of Rialto General Plan identified the views of the San Gabriel and San Bernardino Mountains and the foothills as scenic vistas (Rialto 2010). The proposed Project would improve the existing RWFF and construct a new pipeline within the right-of-way of a portion of North Linden Drive and Via Bello Drive. Any structural improvements, including new buildings, would occur within the perimeter of the RWFF adjacent to existing structures. Additionally, the proposed pipeline would be located below ground. Therefore, it is not anticipated that the Project would impact a scenic vista. No impact would result.

b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway? (No Impact)

The Project site is not located near an officially designated scenic highway. The nearest officially designated scenic highway is Route 2, approximately 30 miles away. Therefore, the Project would have no impact on scenic resources within a State Scenic Highway.

c) In non-urbanized areas, substantially degrade the existing visual character or quality of public view of the site and its surroundings? (Public Views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the

project conflict with applicable zoning and other regulations governing scenic quality? (Less than Significant)

The Project is located within a fairly urban area within the City of Rialto. The City of Rialto General Plan has a Community Design section that provides guidelines for the physical characteristics of the built environment, neighborhood appearance, and streets. Since the Project would occur within and adjacent to a residential area the following General Plan goals and Policies apply:

- **Goal 2-8:** Preserve and improve established residential neighborhoods in Rialto.
- **Policy 2-8.1:** Promote neighborhood identity and preservation of individual neighborhood character by preserving or creating neighborhood gateway features. This includes the Las Colinas Core Group and the North End (Pepper Avenue) Neighborhood Group.
- **Policy 2-8.4:** Discourage extreme changes in scale between adjacent structures (i.e., multi-story building walls immediately adjacent to single-unit residences). Encourage appropriate setbacks and other architectural features that provide a gradual change in scale.

The proposed above-ground improvements would be located within the existing RWFF adjacent to existing infrastructure. Once constructed, the above-ground improvements would not be readily distinguishable from the existing infrastructure currently present at the facility. The RWFF is already set back from the roadway and adjacent residents and roadways and therefore the above-ground improvement would have a less-than-significant impact on the visual character of the site. The proposed pipeline installation would temporarily require the presence of construction equipment within the existing neighborhood; however, the presence of construction equipment would be short-term and temporary. Once constructed, the pipeline would be located underground and would not affect the existing visual character of the Project Area. A less-than-significant impact would occur.

d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area? (No Impact)

The Project would install new UV light arrays; however, these would be installed inside one of the existing buildings on the RWFF site and directed downwards. No other site lighting would be installed for operational purpose, nor would any lighting be needed for construction. Therefore, the Project would not create a new source of substantial light or glare which would adversely affect day or nighttime views in the area. No impact would occur.

3.2 Agriculture and Forest Resources

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a)	Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				~
b)	Conflict with existing zoning for agricultural use, or a Williamson Act contract?				✓
c)	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?				✓
d)	Result in the loss of forest land or conversion of forest land to non-forest use?				✓
e)	Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?				✓

a-e) Convert farmland or forest land? (No Impact)

The Project would not be located on lands designated as Prime Farmland, Unique Farmland, or Farmland of Statewide importance (CDC 2016), nor on land under a Williamson Act contract (County of San Bernardino 2020). The Project would not be constructed on land zoned for agricultural or forestland uses. Thus, the Project would not convert Important Farmland, land under a Williamson Act contract, or forest land to other uses, nor conflict with zoning for agricultural or forestry uses. No impact to agriculture or forestry resources would result.

3.3 Air Quality

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
	Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:				
a)	Conflict with or obstruct implementation of the applicable air quality plan?				✓
b)	Result in a cumulatively considerable net increase in any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?			✓	
c)	Expose sensitive receptors to substantial pollutant concentrations?			✓	
d)	Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?			✓	

a) Conflict with or obstruct implementation of the applicable air quality plan? (No Impact)

The Project site is located within the South Coast Air Basin and within the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The South Coast Air Basin is designated nonattainment for the Federal and State ozone and PM2.5 standards, and the State PM10 standard.

In order to reduce emissions, the SCAQMD prepared the 2016 Air Quality Management Plan (AQMP). The 2016 AQMP establishes a program of rules and regulations directed at reducing air pollutant emissions and achieving State and federal air quality standards. The 2016 AQMP is a regional and multi-agency effort including the SCAQMD, the California Air Resources Board, Southern California Association of Governments (SCAG), and the US Environmental Protection Agency (USEPA). The 2016 AQMP's pollutant control strategies are based on the latest scientific and technical information and planning assumptions, including SCAG's 2016 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS); updated emission inventory methodologies for various source categories; and SCAG's latest growth forecasts.

The SCAQMD's CEQA Handbook identifies two key indicators of consistency with the AQMP:

- Whether the project would result in an increase in the frequency or severity of existing air quality
 violations or cause or contribute to new violations; or delay timely attainment of air quality standards or
 the interim emission reductions specified in the AQMP.
- 2. Whether the project would exceed the assumptions in the AQMP based on the year of project buildout and phase.

According to the SCAQMD's CEQA Air Quality Handbook, the purpose of the consistency finding is to determine if a project is inconsistent with the assumptions and objectives of the regional air quality plans, and thus if it would interfere with the region's ability to comply with federal and state AAQS.

With respect to the first criterion, based on the air quality modeling analysis conducted for the proposed Project summarized in Impacts AIR-2 and AIR-3 and provided in Appendix A, Air Quality/GHG Calculations, the Project would not result in emissions of pollutants exceeding the SCAQMD's regional significance

thresholds during construction. Additionally, operation of the Project would not result in significant impacts based on the SCAQMD thresholds of significance. Therefore, Project operation would not increase the frequency or severity of existing air quality violations and would be consistent with the first assessment criterion.

Concerning the second criterion, the 2016 AQMP contains air pollutant reduction strategies based on SCAG's latest growth forecasts, and SCAG's growth forecasts are defined in consultation with local governments and with reference to local general plans. Projections for achieving air quality goals are based on assumptions regarding population, housing, and growth trends. Therefore, the SCAQMD's second criterion for determining project consistency focuses on whether the proposed Project exceeds the assumptions used in preparing the forecasts presented in the 2016 AQMP. In the case of the 2016 AQMP, several sources of data form the basis for the projections of air pollutant emissions including the City of Rialto General Plan, County of San Bernardino General Plan, SCAG's Growth Management Chapter of the Regional Comprehensive Plan (RCP), and SCAG's RTP/SCS. The RTP/SCS also provides socioeconomic forecast projections of regional population growth.

The Project's potential to induce substantial unplanned population growth is assessed in Section 3.14 of this Initial Study. As detailed in that section, the Project does not propose to expand the boundaries of the service area, nor does it call for changes or intensification of land uses. Because the Project merely supports the planned land uses and development potential established by local governments, the Project is not anticipated to induce substantial unplanned population growth. Therefore, the Project would be not exceed the assumptions used in preparing the forecasts presented in the 2016 AQMP. The Project would be consistent with the SCAQMD's recommended second assessment criterion. As a result, the Project would not conflict with or obstruct implementation of the 2016 AQMP. No impact would result.

b) Result in a cumulatively considerable net increase in any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard? (Less than Significant)

As stated in Air Quality Impact a), above, the Project is located in an area that is nonattainment for ozone, PM10, and PM2.5. To determine whether a Project would result in a cumulatively considerable increase in nonattainment criteria pollutants or exceed the quantitative thresholds for ozone precursors, Project emissions may be evaluated based on the quantitative emission thresholds established by the SCAQMD in its CEQA Air Quality Handbook (SCAQMD 1993, as amended).

Construction

Construction criteria pollutant emissions were calculated by using CalEEMod 2016.3.2. Details regarding the source equipment inventory, assumptions, and all data used to calculate construction-related air quality emissions are available in Appendix A, Air Quality/GHG Calculations.

Construction emissions for the Project were calculated for each phase and separated into on-site and offsite categories. On-site emissions are defined as the exhaust and fugitive emissions generated by stationary, mobile, and area sources at the various construction sites. Off-site emissions are referred to as the emissions from mobile sources that travel to/from the various construction sites. In general, due to the Project construction timeframe, it is unlikely that there would be construction activity from all phases occurring on the same day. However, to be conservative, the emissions from all phases of construction were combined, and compared to the appropriate construction significance thresholds. As shown in Table 3.2-1, Construction Air Emissions below, the Project would not result in emissions of pollutants exceeding the SCAQMD's regional significance thresholds during construction Therefore, the impact from construction related emissions would be less than significant.

Table 3.2-1 Construction Air Emissions Associated with Project

	Maximum Daily Emissions (pounds/day)					
Project Construction Activity	ROG	NOx	CO	PM10	PM2.5	SOx
Pipeline Trenching	1.8	21.3	22.1	1.5	0.9	0.1
Pipeline Paving/Restoration	1.2	9.5	12.3	0.6	0.5	0.0
Facility Paving	1.7	9.4	12.3	0.7	0.5	0.0
Facility Improvements	1.9	13.3	15.1	1.2	0.7	0.0
All Construction	6.5	53.6	61.8	4.0	2.6	0.1
SCAQMD Regional Thresholds	75	100	550	150	55	150
Significant Impact?	No	No	No	No	No	No

Operation

Following construction, the Project would not result in a nominal increase in traffic. As described in Section 1.5.2, Project operations would result in an additional 12 hauling trips per year. The increase in operational trips would not generate a significant air quality impact. The WVWD currently operates the treatment facility under a SCAQMD air quality permit (Facility ID 31919). The Project would require WVWD to either amend exiting permits or apply for new permits for SCAQMD-regulated stationary and area sources of air pollutants. SCAQMD regulation requirements, permitting processes, and CEQA compliance actions ensure that new and modified permitted sources of air pollutants would not generate a significant quantity of air pollutants. Therefore, Project operations emissions would be less than significant.

c) Expose sensitive receptors to substantial pollutant concentrations? (Less than Significant)

Sensitive receptors are members of the population that are particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. The Project's proposed pipeline alignment within West Via Bello Drive would be located within 25 feet of multiple existing residences. The Project's proposed improvements at the treatment facility would also be located approximately 60 feet from the nearest sensitive receptor located south from the Project site.

Construction LST

Local Significance Thresholds (LSTs) were developed in response to the SCAQMD Governing Board's environmental justice (EJ) initiatives (EJ initiative I-4) in recognition of the fact that criteria pollutants such as CO, NOx, and PM10 and PM2.5 in particular, can have local impacts as well as regional impacts. The goal of significance thresholds is to ensure that no source creates, or receptor endures, a significant adverse impact from any project. The evaluation of localized air quality impacts determines the potential of the Project to violate any air quality standard, contribute substantially to an existing or projected air quality violation, or expose sensitive receptors to substantial pollutant concentrations. LSTs represent the maximum emissions or air concentrations from a project that would not cause or contribute to an exceedance of the most stringent applicable federal or State ambient air quality standard, at any nearby sensitive or worker receptor. LSTs are defined separately for construction and operational activities.

Parameters necessary for LST analysis include the Source Receptor Area (SRA) that the project is located within, the size of the daily activity footprint, and the distance to the nearest sensitive receptor. The Project is located in SRA 34 (Central San Bernardino Valley). Therefore, the LSTs for this SRA were selected for the LST assessment.

The Project size is generally represented as the maximum area disturbed during a day from which emissions are calculated. Only some pieces of equipment generate fugitive dust in CalEEMod. The CalEEMod manual identifies various equipment and the acreage disturbed in an 8-hour day:

- Crawler tractors, graders, and rubber-tired dozers: 0.5 acres per 8-hour day
- Scrapers: 1 acre per 8-hour day

The acreages below do not reflect Project-footprint, but instead show a calculation based on the number and use of certain types of equipment. SCAQMD's LST methodology bases the acreage disturbed on the daily activity for crawler tractors, graders, rubber-tired dozers, and scrapers. The Project construction is not anticipated to have this equipment. Therefore, the daily construction area is estimated based on the project type and known footprint to be less than 0.25 acre per day. The smallest look-up acreage under the SCAQMD's LST methodology is 1 acre.

Each Project component (pipeline and facility improvements) is located within 25 meters of their respective nearest sensitive receptor. In general, due to the distances that separate each construction activity, it is unlikely that potential impacts from the pipeline construction and facility improvements would combine to cause a localized significant impact. As shown in Table 3.2-3 and Table 3.2-3, the Project would not exceed the SCAQMD's LST. Therefore, the project's localized criteria pollutant impact would be less than significant.

Table 3.2-2 Localized Significance Analysis (Construction-Pipeline)

		Onsite Emissions (pounds per day)					
Project Construction Activity	NOx	со	PM10	PM2.5			
Pipeline Trenching	14.0	20.3	0.7	0.7			
Pipeline Paving/Restoration	9.5	12.3	0.5	0.4			
Maximum Daily Emissions ⁽¹⁾	23.5	32.6	1.2	1.1			
SCAQMD LST Thresholds	118	667	4	2			
Significant Impact?	No	No	No	No			

Notes: 1. The maximum daily emissions refer to the maximum emissions that would occur in one day; it was assumed trenching and pipeline paving could occur simultaneously in close proximity to each other. Therefore, maximum emissions would be the sum of both phases.

Table 3.2-3 Localized Significance Analysis (Construction-Treatment Facility)

	Onsite Emissions (pounds per day)				
Project Construction Activity	NOx	со	PM10	PM2.5	
Facility Paving	9.3	11.7	0.5	0.5	
Facility Improvements	11.5	12.9	0.6	0.6	
Maximum Daily Emissions ⁽¹⁾	20.8	24.6	1.1	1.1	
SCAQMD LST Thresholds	118	667	4	2	
Significant Impact?	No	No	No	No	

Notes:1. The maximum daily emissions refer to the maximum emissions that would occur in one day; it was assumed that the paving and facility improvements could occur on the same day. Therefore, maximum emissions would be the sum of both phases.

Construction Toxic Air Contaminants

Construction equipment and heavy-duty truck traffic generate diesel particulate matter (DPM) exhaust, which is a known toxic air contaminant. DPM from equipment exhaust and PM2.5 pose potential health impacts to nearby receptors if those receptors have prolonged exposure to substantial emissions.

As required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]), construction contractors would be required to minimize idling times for trucks and equipment to five minutes, as well as to ensure that construction equipment is maintained in accordance with manufacturer's specifications. Given the limited daily activity for construction and continuous shifting of the construction activities, prolonged exposure of sensitive receptors to substantial pollutant concentrations would not occur. Therefore, the impact of construction-related emissions on sensitive receptors would be less than significant.

Operation

As described in Impact c) above, the WVWD currently operates the treatment facility under a SCAQMD air quality permit (Facility ID 31919). The Project would require WVWD to either amend exiting permits or apply for new permits for SCAQMD-regulated stationary and area sources of air pollutants. SCAQMD regulation requirements, permitting process, and CEQA compliance actions ensure that new and modified permitted sources of air pollutants would not generate a significant impact on nearby sensitive receptors. Therefore, Project operations would be less than significant.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people? (Less than Significant)

Implementation of the Project would not result in major sources of odor. The Project type is not one of the common types of facilities known to produce odors (e.g., landfill, coffee roaster, wastewater treatment facility). Minor odors from the use of equipment during construction activities would be intermittent and temporary, and would dissipate rapidly from the source with an increase in distance. The impact would be less than significant.

3.4 Biological Resources

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a)	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?		✓		
b)	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?				~
c)	Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				1
d)	Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				1
e)	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				✓
f)	Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				1

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service? (Less than Significant with Mitigation Incorporated)

The existing biological setting on and near the Project site was evaluated to determine the potential for any special-status plants or animal species to occur. A reconnaissance-level site visit was also conducted by a qualified biologist on March 2, 2021 to evaluate on-site and adjacent habitat types (Appendix B). Information on special-status species was compiled through a review of the literature and database searches. The following sources were reviewed to determine which special-status plant and wildlife species have been documented in the vicinity of the Project site:

- California Department of Fish and Wildlife Natural Diversity Database (CNDDB)
- California Native Plant Society (CNPS) Rare and Endangered Plant Inventory
- United States Fish and Wildlife (USFWS) Information for Planning and Conservation (IPaC)

The Project site is comprised of existing hardscapes, landscaped areas, disturbed areas, and roadways. Based on the existing conditions at the Project site and observed during the site reconnaissance, no

suitable habitat for special-status plants is present, therefore, no special-status plants are expected to occur. No impact to special-status plant species would result.

A total of ten federally listed wildlife species and seven state listed or candidate listed species were identified as being within a 1-quad search area of the Project site. No occurrences of special-status wildlife species have been recorded on the Project site, and none were identified during the site reconnaissance. The Project site is primarily surrounded by residential single-family homes. No remaining natural or highquality habitat exists in the immediate Project vicinity. Vegetation is limited to landscaped lawns within the residential areas, ornamental trees around the RWFF and weedy roadside vegetation. This is also the case in terms of the "open space" area just to the west of the RWFF. Because of the lack of suitable habitat and the location of the Project in a developed environment, no special-status wildlife species are expected to occur within the Project area (GHD 2021).

However, the ornamental trees and structures within the Project site may provide some nesting habitat for common avian species protected under the Migratory Bird Treaty Act (MBTA) and Fish and Game Code (FGC). During construction, the Project has the potential to disturb nesting birds if any are utilizing the ornamental trees or structures within the Project site to nest. This impact is therefore potentially significant.

Mitigation

Implementation of Mitigation Measure BIO-1 below would reduce impacts to these bird species to a lessthan-significant level.

Mitigation Measure BIO-1: Minimize Impacts to Nesting Bird Species

There is potential for common avian species, protected under the MBTA and FGC, to nest in the Project Area. Potential Project impacts to special status birds during construction may include visual disturbance, habitat destruction, and noise disturbance. The following measures are proposed to avoid potential impacts.

- Ground disturbance and vegetation clearing shall be conducted, if possible, during the fall and/or winter months and outside of the avian nesting season (generally March 1 – August 30 in southern California) to avoid any direct effects to protected birds. If ground disturbance cannot be confined to work outside of the nesting season, a qualified ornithologist shall conduct pre-construction surveys within the vicinity of the Project Area, to check for nesting activity of native birds and to evaluate the site for presence of raptors and special status bird species. The ornithologist shall conduct at minimum a one-day pre-construction survey within the 7-day period prior to vegetation removal and ground-disturbing activities. If ground disturbance or vegetation removal work lapses for seven days or longer during the breeding season, a qualified ornithologist shall conduct a supplemental avian pre-construction survey before Project work is reinitiated.
- If active nests are detected within the construction footprint or up to 500 feet from construction activities, the ornithologist shall flag a buffer around each nest (assuming property access). Construction activities shall avoid nest sites until the ornithologist determines that the young have fledged or nesting activity has ceased. If nests are documented outside of the construction (disturbance) footprint, but within 500 feet of the construction area, buffers would be implemented as needed (buffer size dependent on species). Buffer sizes for common species would be determined on a case-by-case basis in consultation with the CDFW and, if applicable, with USFWS. Buffer sizes would take into account factors such as (1) noise and human disturbance levels at the construction site at the time of the survey and the noise and

- disturbance expected during the construction activity; (2) distance and amount of vegetation or other screening between the construction site and the nest; and (3) sensitivity of individual nesting species and behaviours of the nesting birds.
- If active nests are detected during the survey, the qualified ornithologist shall monitor all nests at least once per week to determine whether birds are being disturbed. Activities that might, in the opinion of the qualified ornithologist, disturb nesting activities (e.g., excessive noise), shall be prohibited within the buffer zone until such a determination is made. If signs of disturbance or distress are observed, the qualified ornithologist shall immediately implement adaptive measures to reduce disturbance. These measures may include, but are not limited to, increasing buffer size, halting disruptive construction activities in the vicinity of the nest until fledging is confirmed or nesting activity has ceased, placement of visual screens or sound dampening structures between the nest and construction activity, reducing speed limits, replacing and updating noisy equipment, queuing trucks to distribute idling noise, locating vehicle access points and loading and shipping facilities away from noise-sensitive receptors, reducing the number of noisy construction activities occurring simultaneously, and/or reorienting and/or relocating construction equipment to minimize noise at noise-sensitive receptors
- b,c) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service, including wetlands? (No Impact)

The Project site is comprised of existing hardscapes, landscaped areas, and roadways. The Project site does not include riparian habitat or other sensitive natural communities, such as grasslands or wetlands (including marsh or vernal pools) (GHD 2021). No impact would result.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites? (No Impact)

The Project site does not include waterways or other sensitive natural communities that provide wildlife movement corridors. The Project site and general vicinity does not provide high quality wildlife habitat and is limited to residential neighborhoods, as well as disturbed and developed areas. Above-ground physical changes to the Project Area would be minimal and limited to the existing RWFF. Given the location of the Project and its relatively small above-ground footprint, the Project would not interfere with the movement of native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or nursery sites. No impact would result.

Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? (No Impact)

The Project would remove five ornamental trees within the confines of the RWFF during Project implementation. The City of Rialto has a street tree ordinance (Section 11.08.100 of the Municipal Code), however does not have an ordinance related to trees located within a facility or on private property, therefore, no conflict would occur. Additionally, the City of Rialto General Plan includes several policies to protect biological resources. These policies include: protecting endangered, threatened, rare, and other special-status habitat and wildlife species along Lytle Creek (Policy 2-39.1); pursue open space, wildlife corridors, or conservation easements to protect sensitive species and their habits (Policy 2-39.2); and continue working with the United States Fish and Wildlife Service to adopt a habitat conservation plan to protect the viability of the Delhi Sands Flowering-loving Fly (Policy 2-39.3) (Rialto 2010). The Project is located within a developed area and would not conflict or obstruct implementation of these policies. Therefore, the Project will not result in any impacts to locally protected biological resources and no conflict would result. No impact would result.

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan? (No Impact)

The Project site is not located within the boundaries of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan. As such, the Project would not conflict with the provisions of an adopted habitat conservation plan. No impact would result.

3.5 **Cultural Resources**

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a)	Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?				✓
b)	Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?		✓		
c)	Disturb any human remains, including those interred outside of formal cemeteries?		✓		

A Historic Properties Identification Report was prepared for the project by Paleo Solutions (Paleo Solutions 2021). The study assessed the potential for the Project to impact cultural resources in the proposed improvement area through the completion of the following:

- Records and literature search at the South Central Coastal Information Center (SCCIC) of the California Historical Resources Information Center (CHRIS);
- Review of the Built Environment Resources Directory (BERD);
- Communication with the Native American Heritage Commission (NAHC) to request a review of the Sacred Lands File and contact information for the appropriate tribal communities;
- Contact with the appropriate local Native American Tribes; and
- Pedestrian archaeological survey of the project area.

Study results were used as a technical basis for evaluating potential impacts to historic and cultural resources under CFQA

Cause a substantial adverse change in the significance of a historical resource pursuant to a) §15064.5? (No Impact)

The Project would include improvements to the existing RWFF and install a new water pipeline within existing roadways. A review of the BERD indicates that no NRHP or CRHR-listed or eligible resources, California Historical Landmarks, or California Points of Historical Interest are located within the Project Area and no historic properties were identified during the pedestrian survey. Therefore, no impact would result.

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5? (Less than Significant with Mitigation)

The Historic Properties Identification Report conducted for the Project found two cultural resources investigations overlapped with two previous cultural resources investigations but did not identify any cultural resources within the current Project Area. A total of 15 previously-recorded sites are located within 1.0 mile of the Project area, including one prehistoric campsite and 14 historic-age resources. None of these 15 resources are located within the Project area and no cultural resources were identified during the pedestrian survey. Furthermore, the Project area has been extensively disturbed from previous development of the water retention basins, construction of the RWFF, and the residential development along West Via Bello Drive. Therefore, there is low potential for intact cultural resources (Paleo Solutions

2021). Although no known archaeological resources were identified within the Project area, the potential exists for encountering previously undiscovered archaeological resources during Project construction. Therefore, the impact is considered potentially significant.

Mitigation

Implementation of Mitigation Measure CR-1 would reduce the potential impact to previously undiscovered archaeological resources to a less than significant level by outlining procedures to be taken in the event of inadvertent discovery.

Mitigation Measure CR-1: Minimize Impacts to Unknown Archaeological Resources

Monitoring by a qualified archaeologist shall be conducted during initial ground-disturbing activities within native (i.e., undisturbed, non-fill) sediments. Monitoring shall be supervised by a qualified Principal Investigator who meets the U.S. Secretary of Interior professional qualification standards for archaeology. Initial monitoring shall be conducted to identify subsurface archaeological resources and to assess the potential of the sediments within the APE to contain buried resources. If the native subsurface sediments are assessed as having a low or no potential to contain buried resources, archaeological monitoring may be reduced or eliminated, as determined appropriate by the Principal Investigator in consultation with the WVWD. At the conclusion of all monitoring activities, a monitoring report shall be prepared by the Principal Investigator to document the methods and results of the monitoring, including detailed descriptions of all resources encountered and the measures taken to evaluate the resource(s) and to avoid or mitigate impacts to significant resources. The report shall be submitted to the WVWD and the SCCIC.

In the event that cultural resources are discovered during project activities, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease and a qualified archaeologist meeting Secretary of Interior standards shall be hired to assess the find. Work on the other portions of the project outside of the buffered area may continue during this assessment period. Additionally, the San Manuel Band of Mission Indians Cultural Resources Department (SMBMI) shall be contacted, as detailed within TCR-1, regarding any pre-contact and/or post-contact finds and be provided information after the archaeologist makes his/her initial assessment of the nature of the find, so as to provide Tribal input with regards to significance and treatment.

If significant pre-contact and/or post-contact cultural resources, as defined by CEQA (as amended, 2015), are discovered and avoidance cannot be ensured, the archaeologist shall develop a Monitoring and Treatment Plan, the drafts of which shall be provided to SMBMI for review and comment, as detailed within TCR-1. The archaeologist shall monitor the remainder of the project and implement the Plan accordingly

c) Disturb any human remains, including those interred outside of formal cemeteries? (Less than Significant with Mitigation)

No human remains are known to exist within the Project area. However, there is potential for earthwork and grading to result in the disturbance of previously unrecorded human remains, if present. Therefore, the impact is considered potentially significant.

Mitigation

Implementation of Mitigation Measure CR-2 would reduce the potential impact to a less than significant level by outlining procedures to be taken in the event of inadvertent discovery of human remains.

Mitigation Measure CR-2: Protect Human Remains if Encountered

In the event that any human remains are discovered within the project area, ground disturbing activities shall be suspended 100 feet around the resource(s) and an Environmentally Sensitive Area (ESA) physical demarcation/barrier constructed. The on-site lead/foreman shall then immediately notify SMBMI, the applicant/developer, and the WVWD. The WVWD and the applicant/developer shall then immediately contact the County Coroner regarding the discovery. If the Coroner recognizes the human remains to be those of a Native American, or has reason to believe that they are those of a Native American, the Coroner shall ensure that notification is provided to the NAHC within twenty-four (24) hours of the determination, as required by California Health and Safety Code § 7050.5 (c). The NAHC-identified Most Likely Descendant (MLD), shall be allowed, under California Public Resources Code § 5097.98 (a), to (1) inspect the site of the discovery and (2) make determinations as to how the human remains and funerary objects shall be treated and disposed of with appropriate dignity. The MLD, Lead Agency, and landowner agree to discuss in good faith what constitutes "appropriate dignity" as that term is used in the applicable statutes. The MLD shall complete its inspection and make recommendations within forty-eight (48) hours of the site visit, as required by California Public Resources Code § 5097.98.

Reburial of human remains and/or funerary objects (those artifacts associated with any human remains or funerary rites) shall be accomplished in compliance with the California Public Resources Code § 5097.98 (a) and (b). The MLD in consultation with the landowner, shall make the final discretionary determination regarding the appropriate disposition and treatment of human remains and funerary objects. All parties are aware that the MLD may wish to rebury the human remains and associated funerary objects on or near the site of their discovery, in an area that shall not be subject to future subsurface disturbances. The applicant/developer/landowner should accommodate on-site reburial, to the extent feasible, in a location mutually agreed upon by the Parties.

It is understood by all Parties that unless otherwise required by law, the site of any reburial of Native American human remains or cultural artifacts shall not be disclosed and shall not be governed by public disclosure requirements of the California Public Records Act. The Coroner, parties, and Lead Agencies will be asked to withhold public disclosure information related to such reburial, pursuant to the specific exemption set forth in California Government Code § 6254 (r).

3.6 **Energy Resources**

Wo	ould the project:	Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
a)	Result in potentially significant environmental impacts due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?			✓	
b)	Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?				✓

Result in potentially significant environmental impacts due to wasteful, inefficient, or a) unnecessary consumption of energy resources, during project construction or operation? (Less than Significant)

Construction of the project would involve grading, excavation, and use of heavy machinery as discussed in Section 3.3 (Air Quality). Construction would require the use of fuels, primarily gas, diesel, and motor oil. The precise amount of construction-related energy consumption that would occur is uncertain. However, construction would not require a large amount of fuel or energy usage because of the moderate number of construction vehicles and equipment, worker trips, and truck trips that would be required for a project of this scale. Construction equipment would remain staged in the Project area once mobilized. Use of fuels would not be wasteful or unnecessary because their use is necessary to complete the project. Excessive idling and other inefficient site operations would be prohibited. Equipment idling times would be minimized either by shutting equipment off when not in use or reducing the maximum idling time to five minutes or less (as required by the California airborne toxics control measure (Title 13, Section 2485 of the CCR). Therefore, construction would not result in the use of large amounts of fuel and energy in a wasteful manner, and the impact would be less than significant.

Following construction, the RWFF would operate more efficiently due to the replacement of aging equipment and technology with updated versions. However, additional energy would also be needed to process the additional water capacity. The energy utilized to treat the additional water capacity would not be wasteful, inefficient, or unnecessary as the RWFF would utilize the least amount of energy necessary to treat the water. Therefore, the operational impact on energy consumption would be less than significant.

Conflict with or obstruct a state or local plan for renewable energy or energy efficiency? (No b) Impact)

In 2003, the California Energy Commission (CEC), the California Power Authority (CPA), and the California Public Utilities Commission (CPUC) jointly adopted an Energy Action Plan (EAP) that listed goals for California's energy future and set forth a commitment to achieve these goals through specific actions (CEC 2003). In 2005, the CPUC and the CEC jointly prepared the EAP II to identify the further actions necessary to meet California's future energy needs. Additionally, the CEC prepared the State Alternative Fuels Plan in partnership with the California Air Resources Board and in consultation with other state, federal, and local agencies. The alternative fuels plan presents strategies and actions California must take to increase the

use of alternative non-petroleum fuels in a manner that minimizes costs to California and maximizes the economic benefits of in-state production (CEC 2007).

Locally, the City of Rialto General Plan includes goals to promote green building and other sustainable building practices (Goal 2-30) and to conserve energy resources (2-31).

Construction and operation of the project would not conflict with or obstruct implementation of either the EAP, EAP II, the State Alternative Fuels Plan or local City general plan goals. Project construction would not require a large amount of fuel or energy usage because of the limited extent and nature of the proposed improvements and the minimal number of construction vehicles and equipment, worker trips, and truck trips that would be required for a project of this small scale. Project operation would similarly utilize the minimum necessary energy to treat the water within the RWFF. No conflicts with a state or local plan for renewable energy or energy efficiency have been identified. Therefore, no impact would result.

3.7 **Geology and Soils**

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Would the project:					
a)	Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
	i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42?				√
	ii. Strong seismic ground shaking?			✓	
	iii. Seismic related ground failure, including liquefaction?			✓	
	iv. Landslides?				✓
b)	Result in substantial soil erosion or the loss of topsoil?		✓		
c)	Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on, or off, site landslide, lateral spreading, subsidence, liquefaction or collapse?			1	
d)	Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?			1	
e)	Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?				✓
f)	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?		✓		

a, a.i) Rupture of a known earthquake fault, as delineated on the most recent Alguist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special **Publication 42.** (No Impact)

The Project site is not located within a designated Alquist-Priolo Earthquake Fault Zone. The nearest active fault is the Rodgers Creek Fault located approximately 1.5 miles east of the site (City of Rialto 2010). The project would not change the exposure of people or structures to risk of loss, injury, or death from fault rupture. Thus, no impact would result.

a.ii) Strong seismic ground shaking? (Less than Significant)

Due to the proximity of the Project site to the San Jacinto, Cucamonga, Lytle Creek, and San Andreas Faults, the Project site is expected to experience strong seismic ground shaking over the life of the Project. The proposed Project would not alter the seismic environment or affect the risk of seismically-induce

ground shaking. Therefore, there would be no change regarding the exposure of people or structures to substantial adverse effects related to the risk of property loss, injury, or death due to seismically-induced ground shaking compared to existing conditions. If strong seismic ground shaking were to damage the proposed facilities, it is unlikely that human lives would be put at risk because the Project does not involve the construction of habitable structures. The Project would be constructed to the seismic standards of the most recent California Building Code, as applicable. Therefore, the impact to people and structures from strong seismic ground shaking would be less than significant.

a.iii) Seismic related ground failure, including liquefaction? (Less than Significant)

The Project site and surrounding properties are not mapped as being susceptible to liquefaction (Rialto 2010). The project would not alter the seismic environment or affect the risk of seismically-induced ground failure, including liquefaction. There would be no change regarding the exposure of people or structures related to the risk of property loss, injury, or death due to seismically-induced ground failure compared to existing conditions. Therefore, the impact related to seismic-related ground failure, including liquefaction, would be less than significant.

a.iv) Landslides? (No Impact)

The proposed improvements would be located on relatively level, previously developed and/or paved land. There are no significant slopes or mountains at or near the proposed Project that could result in landslides on- or off-site. No impact would result.

b) Result in substantial soil erosion or the loss of topsoil? (Less than Significant with Mitigation)

Areas to be disturbed during construction would consist predominantly of hardscapes and underlying soils that have been highly altered from their original, natural state. As a result, the Project would result in little disturbance to native soils.

The Project includes grading, cuts, and fills that have the potential to cause erosion. As addressed through Mitigation Measure HWQ-1 identified below, to mitigate potential impacts from construction trenching and other ground disturbance. the Project would be required to prepare a Storm Water Pollution Prevention Plan (SWPPP) under the National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit) (Order No. 2009-0009, as amended by Order No. 2012-0006), which includes best management practices to prevent soil erosion. Compliance with the NPDES permit requirements would further ensure that potential impacts from soil erosion or loss of topsoil during construction would be less than significant.

Mitigation

Implementation of Mitigation Measure HWQ-1 identified below would reduce the impact from potential erosion to a less than significant level.

Mitigation Measure HWQ-1: Manage Construction Storm Water

See Section 3.10, Hydrology and Water Quality, for the full text of the Mitigation Measure.

Following construction, the Project would not result in soil erosion or loss of topsoil, as disturbed areas would be restored to general pre-construction conditions and no additional ground disturbance would occur. Therefore, no operational impact would occur.

Be located on a geologic unit or soil that is unstable or expansive? (Less than Significant) c, d)

As described in Section 1.6.1, Environmental Protection Actions incorporated into the Project, as part of the Project design process the WVWD would engage a California-registered Geotechnical Engineer to conduct a design-level geotechnical study for the Project. The City would design the Project to comply with the sitespecific recommendations made in the Project's geotechnical report. This will include design in accordance with the seismic and foundation design criteria, as well as site preparation and grading recommendations included in the report. The geotechnical recommendations would be incorporated into the final plans and specifications for the Project, and would be implemented during construction. The project would not otherwise alter the properties of the soils at the project site nor cause or worsen the risks associated with unstable or expansive soils Therefore, impacts would be less than significant.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater? (No Impact)

The project would not install nor require the installation of septic tanks or alternative wastewater disposal systems requiring infiltration to soils would be constructed. No impact would result.

f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? (Less than Significant with Mitigation Incorporated)

No paleontological resources are known to be on or adjacent to the Project site. It is assumed that if these resources were located in these areas, they would have been discovered during original or subsequent ground disturbing activities. Should evidence of paleontological resources be encountered during grading and construction, operations would be required to cease, and the District would be required to be contacted for determination of appropriate procedures. Compliance with the District's standard conditions would preclude significant impacts to paleontological resources. While fossils are not expected to be discovered during construction, it is possible that significant fossils could be discovered during excavation activities. even in areas with a low likelihood of occurrence. Fossils encountered during excavation could be inadvertently damaged. If a unique paleontological resource is discovered, the impact to the resource would be significant.

Mitigation

Implementation of Mitigation Measure GEO-1 would reduce impacts to a less-than-significant level by addressing discovery of unanticipated buried resources and preserving and/or recording those resources consistent with appropriate laws and requirements.

Mitigation Measure GEO-1: Protection of Paleontological Resources

In the event that fossils are encountered during construction (i.e., bones, teeth, or unusually abundant and well-preserved invertebrates or plants), construction activities shall be diverted away from the discovery within 50 feet of the find, and a professional paleontologist shall be notified to document the discovery as needed, to evaluate the potential resource, and to assess the nature and importance of the find. Based on the scientific value or uniqueness of the find, the paleontologist may record the find and allow work to continue, or recommend salvage and recovery of the material, if it is determined that the find cannot be avoided. The paleontologist shall make recommendations for any necessary treatment that is consistent with currently accepted scientific practices. Any fossils collected from the area shall then be deposited in an accredited and permanent scientific institution where they will be properly curated and preserved.

3.8 **Greenhouse Gas Emissions**

Wo	uld the project:	Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
a)	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?			✓	
b)	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				√

Generate greenhouse gas emissions, either directly or indirectly, that may have a significant a) impact on the environment? (Less than Significant)

On December 5, 2008, the SCAQMD Governing Board adopted an interim greenhouse gas significance threshold for stationary sources, rules, and plans where the SCAQMD is lead agency (SCAQMD 2008b and 2010). The SCAQMD permit threshold consists of five tiers. However, the SCAQMD is not the lead agency for this project. Therefore, the five permit threshold tiers do not apply to the project.

The SCAQMD is in the process of preparing recommended significance thresholds for greenhouse gases for local lead agency consideration (SCAQMD draft local agency thresholds); however, the SCAQMD Board has not approved the thresholds.

The current draft thresholds consist of the following tiered approach:

Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA.

Tier 2 consists of determining whether the project is consistent with a greenhouse gas reduction plan. If a project is consistent with a qualifying local greenhouse gas reduction plan, it does not have significant greenhouse gas emissions.

Tier 3 consists of screening values, which the lead agency can choose, but must be consistent with all projects within its jurisdiction. A project's construction emissions are averaged over 30 years and are added to a project's operational emissions. If a project's emissions are under one of the following screening thresholds, then the project is less than significant:

- All land use types: 3,000 metric tons of carbon dioxide equivalent (MTCO₂e) per year
- Based on land use type: residential: 3,500 MTCO₂e per year; commercial: 1,400 MTCO₂e per year; or mixed use: 3,000 MTCO₂e per year

Tier 4 has the following options:

- Option 1: Reduce emissions from business as usual by a certain percentage; this percentage is currently undefined
- Option 2: Early implementation of applicable AB 32 Scoping Plan measures
- Option 3, 2020 target for service populations (SP), which includes residents and employees: 4.8 MTCO₂e /SP/year for projects and 6.6 MTCO₂e /SP/year for plans
- Option 3, 2035 target: 3.0 MTCO₂e/SP/year for projects and 4.1 MTCO₂e/SP/year for plans

Tier 5 involves mitigation offsets to achieve target significance threshold.

The SCAQMD's draft threshold uses the Executive Order S-3-05 goal as the basis for the Tier 3 screening level. Achieving the Executive Order's objective would contribute to worldwide efforts to cap carbon dioxide concentrations at 450 ppm, thus stabilizing global climate. No applicable standard or significance threshold has been established pertaining to construction-related greenhouse gas emissions.

Construction GHG emissions were calculated by using CalEEMod 2016.3.2. Details regarding the construction schedule, construction activities, equipment inventory, assumptions, and data used to calculate construction-related GHG emissions are available in Appendix A, Air Quality/GHG Calculations. Project construction is estimated to generate 121.4 metric tons of carbon dioxide equivalent (MTCO₂e). Pursuant to SCAQMD methodology, these construction emissions are annualized over an assumed 30-year operational life of the Project and are included in the operational emissions to assess the Project's potential GHG impact.

Following construction, the Project would result in a nominal increase in traffic. As described in Section 1.5.2, Project operations would result in an additional 12 hauling trips per year. The treatment facility would operate more efficiently due to the replacement of aging equipment and technology with updated versions. However, additional energy would also be needed to process the additional water capacity. The amount of energy reduction associated with increased efficiency, and additional energy for processing additional water capacity, is currently unknown. Therefore, because the Project would result in a nominal number (12 trips per year) of new on-road mobile emissions (the main emissions source category for most development projects), and the energy consumption demand is unknown, the operational emissions were not quantified. but are reasonably assumed to be small in magnitude. Annualized construction emissions would be 4.0 MTCO₂e per year. The Project's GHG emissions are less than the SCAQMD's draft screening threshold of 3,000 MTCO2e per year for all land uses. Therefore, the Project's GHG impact would be less than significant.

b) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases? (No Impact)

This analysis uses the California Air Resources Board (CARB) 2017 Climate Change Scoping Plan as the applicable greenhouse gas reduction strategy (CARB 2017). The City of Rialto Climate Adaptation Plan is currently under development, and is not an adopted greenhouse gas reduction strategy.

The 2017 Climate Change Scoping Plan provides strategies for meeting the mid-term 2030 greenhouse gas reduction target set by Senate Bill (SB) 32. The 2017 Climate Change Scoping Plan also identifies how the State can substantially advance toward the 2050 greenhouse gas reduction target of Executive Order S-3-05, which consists of reducing greenhouse gas emissions to 80 percent below 1990 levels. The recommendations cover several key sectors, including: energy and industry; transportation; natural and working lands; waste management; and water. The recommended measures in the 2017 Scoping Plan are

broad policy and regulatory initiatives that will be implemented at the State level and do not relate to the construction and operation of individual projects. The project would not impede the State developing or implementing the greenhouse gas reduction measures identified in the Scoping Plan. Therefore, the project would not conflict with AB 32 or the 2017 Climate Change Scoping Plan. No impact would result.

Hazards and Hazardous Materials 3.9

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a)	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?			✓	
b)	Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?			✓	
c)	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?			✓	
d)	Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?			~	
e)	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?				✓
f)	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				✓
g)	Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?			✓	

a, b) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials, or create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? (Less than Significant)

Small amounts of common hazardous materials such as construction-related truck and heavy equipment fuel, solvents, and lubricants would be used during construction of the project. During construction activities, any on-site hazardous materials that may be used, stored, or transported would be required to follow standard protocols (as determined by the U.S. EPA, California Department of Health and Safety, and the City of Rialto) for maintaining health and safety. In California, Caltrans and the California Highway Patrol regulate the transportation of hazardous materials and wastes, including container types and packaging requirements, as well as licensing and training for truck operators, chemical handlers, and hazardous waste haulers. The California Division of Occupational Safety and Health (Cal-OSHA) also enforces hazard communication program regulations which contain worker safety training and hazard information requirements, such as procedures for identifying and labeling hazardous substances, communicating hazard information related to hazardous substances and their handling, and preparing health and safety plans to protect workers and employees. Because WVWD and its contractors would be

required to comply with existing and future hazardous materials laws and regulations and applicable best management practices addressing the transport, storage, use, and disposal of hazardous materials, the potential to create a significant hazard to the public or the environment during construction of the project would be less than significant.

Following construction, operation of the project would continue to involve the use of hazardous materials including chlorine, aluminum chlorohydrate (ACH) and Earth Tec. Even though the project would result in an increase in water treatment capacity of 7.2 mgd, the quantity of these chemicals would remain the same. WVWD will increase the frequency of chemical deliveries. No new hazardous materials would be used in the water treatment process as a result of the Project. Both existing and future quantities of hazardous materials to be stored and used at the water treatment facility are subject to state (SWRCB) and federal (EPA) safety regulations. The operational impact would be less than significant.

C) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? (Less than Significant)

Wilmer Amina Carter High School and Trap Elementary School are the nearest schools to the proposed construction area, located approximately 0.4 mile to the southeast and south, respectively. Both schools are located on arterial roadways and/or on a designated truck routes, indicating that construction-related truck traffic would likely pass by the schools. Hazardous materials associated with construction-related trucks and heavy equipment include fuels and petroleum-based lubricants. It is not anticipated that the trucks would contain hazardous materials as cargo. Operationally, the existing water treatment facility current uses hazardous materials including chlorine, epyq myq \$1psvs1}hvexi\$EGL - and Earth Tec., which are used in the water treatment process as a disinfectant, coagulant and algicide, respectively. The amount of chemicals stored would be the same, but because the Project would result in an increase in water treatment capacity of 7.2 mgd, the rate that the chemicals will be consumed will increase proportionally with the increase in capacity. Both existing and future quantities of hazardous materials to be stored and used at the water treatment facility are subject to state (SWRCB) and federal (EPA) safety regulations. The impact would be less than significant.

Be located on a site which is included on a list of hazardous materials sites compiled d) pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? (Less than Significant)

The provisions in Government Code Section 65962.5 are commonly referred to as the "Cortese List." A search of the Cortese List search (DTSC 2021) was completed to determine if any known hazardous waste sites have been recorded on or adjacent to the project construction area. There are two sites located approximately 1/3 mile west of the Project site that are listed as "active" in the California Department of Toxic Substances Control EnviroStor Database.

The National Construction Rentals site (ID# 60001069) is located at 2824 North Locust Avenue in Rialto and is described as having soil contaminated by 1,1 Dichloroethane, HMX, Perchlorate, and RDX (Cyclonite). From 1981 to 2001, the site was also used for hazardous waste/hazardous materials operations that involved use of explosives (fireworks manufacturing).

The BF Goodrich site (ID#60001389) is located at 3196 North Locust Avenue in Rialto and is described as having soil and groundwater contaminated by Volatile Organic Compounds (VOCs) and Perchlorate.

Beginning in the 1940's, the 160-acre area has been used for ordnance storage, fireworks manufacture that used potassium perchlorate, and solid fuel rocket propellant manufacture that use ammonium perchlorate.

Construction of the Project would involve the excavation of soils within the existing boundaries of the water treatment facility and within the West Via Bello Drive street right-of-way. However, given the distance between the Project site and the above-described hazardous materials sites and the absence of know hazardous materials in the Project site itself, it is unlikely that Project-related excavation would involve contaminated soils. During the operation phase of the Project, the underground water pipeline would be unaffected by any soil contaminants that may or may not be present. The Project does not involve groundwater pumping. The impact would be less than significant.

For a project located within an airport land use plan or, where such a plan has not been e) adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area? (No Impact)

The Project site is not located within two miles of a public use airport. The nearest public use airport is the San Bernardino International Airport, located approximately ten miles to the southeast of the Project site. No impact would result.

f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? (No Impact)

The Project would not impair or physically interfere with implementation of the City of Rialto Emergency Operations Plan (Multi-Hazard Function Plan). The Project would not change existing circulation patterns, would not generate new traffic, and would not affect emergency response routes. No impact would result.

g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires? (Less than Significant)

The Project site is located within the Local Resource Area (LRA), approximately 1,300 feet from the State Responsibility Area (SRA). LRA is the area within the local agency jurisdiction, in this case the City of Rialto, where the local agency is responsible for the prevention and suppression of wildfires. The SRA is the area of the state that the State of California is financially responsible for prevention and suppression of wildfires. Approximately seven acres of the 37-acre water treatment facility and approximately 350 lineal feet of the approximately 1,800 lineal feet of proposed underground water pipe within West Via Bello Drive are located in the Very High Fire Hazard Severity Zone (VHFHSZ)(CALFIRE 2021). The Project site is comprised of existing hardscapes, landscaped areas, and roadways, and the potential for construction activities to result in fires would be low. The Project would not otherwise increase exposure to wildland fire above existing conditions. The impact would be less than significant.

3.10 **Hydrology and Water Quality**

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	ould the project:	•			
a)	Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?		✓		
b)	Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?			✓	
c)	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
	i. Result in substantial erosion or siltation on- or off-site?				✓
	ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?				✓
	iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?				√
	iv. Impede or redirect flood flows?				✓
d)	In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?				✓
e)	Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?				✓

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality? (Less than Significant with Mitigation Incorporated)

Areas to be disturbed during construction would consist predominantly of hardscapes and underlying soils that have been highly altered from their original, natural state. The Project site does not include waterways. However, the Project would include grading, cuts, and fills that have the potential to cause erosion. Project construction activities could also be a source of chemical contamination from use of alkaline construction materials (e.g., concrete) and hazardous or toxic materials (e.g., fuels, solvents, and asphalt).

State Water Resources Control Board NPDES Order No. 2009-0009, as amended by Order No. 2012-0006, applies to public and private construction projects that include one or more acres of soil disturbance. Construction of the Project would disturb more than one acre of land and has the potential to degrade water quality as a result of erosion caused by earthmoving activities during construction, discharge of groundwater from dewatering, or the accidental release of hazardous construction chemicals. The installation of the new 30-inch pipeline from the RWFF to the reservoirs would be installed using an opentrench method. Exposed soil from stockpiles, excavated areas, and other areas where ground cover would

be removed could be transported elsewhere by wind or water. If not properly managed, this could increase sediment loads in receiving water bodies, thereby adversely affecting water quality. As required by the NPDES permit, a Storm Water Pollution Prevention Plan (SWPPP) would be developed as part of the Project. The SWPPP would identify the best management practices necessary to prevent adverse impact to water quality including violation of water quality standards and waste discharge requirements. The treatment provided by the storm water management measures would reduce the potential for degradation of water quality in surface waters to a less-than-significant level.

Mitigation

Implementation of Mitigation Measure HWQ-1 would reduce impacts to a less-than-significant level by identifying and implementing best management practices to treat runoff during construction.

Mitigation Measure HWQ-1: Manage Construction Storm Water

The WVWD shall obtain coverage under State Water Resources Control Board Order No. 2009-0009-DWQ, Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbance Activities, as amended by Order No. 2012-0006. The WVWD shall submit permit registration documents (notice of intent, risk assessment, site maps, Storm Water Pollution Prevention Plan, annual fee, and certifications) to the State Water Resources Control Board. The Storm Water Pollution Prevention Plan shall address pollutant sources, drilling fluids, non-storm water discharges resulting from construction dewatering, best management practices, and other requirements specified in the above-mentioned Order. The Storm Water Pollution Prevention Plan shall also include dust control practices to prevent wind erosion, sediment tracking, and dust generation by construction equipment. A Qualified Storm Water Pollution Prevention Plan Practitioner shall oversee implementation of the Plan, including visual inspections, sampling and analysis, and ensuring overall compliance.

b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin? (Less than Significant)

The proposed Project improvements would be located in the Rialto-Colton groundwater basin (8-002). The 2019 priority ranking for this groundwater basin was low and the basin is not critically over drafted (DWR 2019). Project excavations are anticipated to be shallower than the underlying groundwater table. Such temporary dewatering would have, at most, a very small effect on localized water levels in the immediate vicinity of the excavation, and no substantial deficit in aguifer volume or lowering of water levels would occur. Following construction, the capacity of the RWFF would be increased by 7.2 mgd, meaning additional surface water could be treated at the Project site. The

District utilizes several sources of supply including existing wells to extract groundwater from the Lytle Creek Basin, Bunker Hill Basin, Rialto-Colton Basin, Chino Basin, and Riverside Basin, as well as surface water from Lytle Creek and the SWP (AKEL 2020).

The current metering and transmission facilities would allow the District to import 20 mgd of the SWP water. Based on the projected flows from Lytle Creek, it is anticipated that the District could purchase approximately 16.8 mgd of SWP water in order to utilize the full treatment capacity of the expanded RWFF (AKEL 2020). Purchasing of additional SWP water would eliminate the need to draw from the existing groundwater wells.

As stated in the District's Water Master Plan, the groundwater basins are governed and protected by several judgments and ordinances, including the 1924 Judgment for Lytle Creek Region, City of San Bernardino Municipal Water Department's Basin Management Ordinance, and 1961 Rialto Basin Decree, which implements certain restrictions to protect sustainability of the groundwater supply. The District would abide by all relevant restrictions and regulations to ensure sustainability of the groundwater basins. The expanded facility would merely maximize the use of the SWP water. It is not anticipated that the additional capacity at the RWFF would result in a decrease of available groundwater recharge or impediment of sustainable groundwater management of the groundwater basins. A less than significant impact would result.

c i-civ) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would result in substantial erosion or siltation on- or off-site? (No Impact)

The Project site is not located within a 100-year flood zone (FEMA 2020). Project improvements would be located within existing hardscapes, and areas disturbed during construction would be restored to preconstruction conditions. The Project would not result in a substantial increase in new impervious surfaces and would not result in a change to drainage patterns. The Project would not alter the course of a stream or river, would not increase surface runoff, nor create substantial additional sources of polluted runoff. No impact to existing drainage patterns would result.

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation? (No Impact)

The Project site is not located within a 100-year flood zone (FEMA 2020). The Project site is also located inland and is not located within the proximity of a water body that could be impacted by a tsunami. No other large bodies of water are located in the vicinity that may be affected by a seiche. No impact would result.

Conflict with or obstruct implementation of a water quality control plan or sustainable e) groundwater management plan? (No Impact)

Erosion control BMPs would be required to be implemented during construction to prevent erosion and to protect overall water quality. Therefore, the Project is not anticipated to conflict or obstruct a water quality control plan. As mentioned above under item (b), additional SWP water that was previously allocated to the District would be purchased to utilize the increased capacity of the RWFF. Therefore, continued sustainable use of the existing groundwater basins would continue. No conflicts with an existing or foreseeable sustainable groundwater management plan have been identified. No impact would result.

3.11 Land Use and Planning

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact		
Wo	Would the project:						
a)	Physically divide an established community?				✓		
b)	Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?				√		

a) Physically divide an established community? (No Impact)

The Project would include improvements within the boundaries of the existing approximately 35-acre water treatment facility located at 3010 N. Cedar Avenue and a new water line within the existing, fully developed West Via Bello Drive. The surrounding land uses are primary single family residential. The operation of the Project would not limit the movement of people beyond existing conditions. The Project does not include new features that would divide an established community. No impact would result.

b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect? (No Impact)

The property at 3010 N. Cedar Avenue is an active water treatment facility. The site is located with the corporate limits of the City of Rialto. The site has a Single Family Residential (R-1) land use designation and a Single Family Residential zoning designation (R-1). However, per California Government Code Section 53091, "Building ordinances of a county or city shall not apply to the location, or construction for the production, generation, storage, or transmission of water wastewater, or electrical energy by a local agency." In addition, the same Code section provides that "Zoning ordinances of a county or city shall not apply to the location or construction of facilities for the production, generation, storage, or transmission of water, or for the production or generation of electrical energy." Therefore, the land use and zoning designations do not apply and no conflicts with land use plans, policies, or regulations have been identified and no exceptions or reductions to standards would be necessary to approve the Project. No impact would result.

Mineral Resources 3.12

Wo	uld the project:	Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
a)	Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				✓
b)	Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?				✓

a,b) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state, or a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? (No Impact)

The Project site is not located within an area classified as Mineral Resources Zone 2 (MRZ-2) in the California Geologic Survey Special Report 206, Plate 2 (CGS 2010). MRZ-2 is defined as, "Areas where adequate information indicates that significant mineral deposits are present, or where it is judged that a high likelihood for their presence exists." No locally-important mineral resources are known to occur at the site. No impact would result.

3.13 **Noise**

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	ould the project:				
a)	Result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?				~
b)	Result in generation of excessive groundborne vibration or noise levels?		✓		
c)	For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				√

Result in generation of a substantial temporary or permanent increase in ambient noise a) levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? (No Impact)

Because community noise fluctuates over time, a single measure called the Equivalent Sound Level (Leg) is often used to describe the time-varying character of community noise. The Leq is the energy-averaged Aweighted sound level during a measured time interval, and is equal to the level of a continuous steady sound containing the same total acoustical energy over the averaging time period as the actual time-varying sound.

Another sound measure known as the Community Noise Equivalent Level (CNEL) is an adjusted average A-weighted sound level for a 24-hour day. It is calculated by adding a 5 dB adjustment to sound levels during evening hours (7:00 p.m. to 10:00 p.m.) and a 10 dB adjustment to sound levels during nighttime hours (10:00 p.m. to 7:00 a.m.). These adjustments compensate for the increased sensitivity to noise during the typically quieter evening and nighttime hours. The CNEL is used by the State of California and the City to evaluate land use compatibility with respect to transportation noise.

According to the City's Land Use Compatibility for Community Noise Exposure, noise-sensitive land uses such as residences and schools are normally acceptable with exterior noise levels below 60 dBA CNEL and conditionally acceptable with noise levels below 70 dBA CNEL. Industrial, Manufacturing, Utilities, and Agriculture land uses are normally acceptable with exterior noise levels below 75 dBA CNEL and conditionally acceptable with exterior noise levels below 80 dBA CNEL. These guidelines also include a maximum exterior noise level of 65 dBA CNEL for noise-sensitive receptors.

In addition, the City's Code of Ordinances include requirements that pertain to noise during construction and operation. Section 9.50.060 Exemptions, states: The following activities and noise sources shall be exempt from the provisions of this chapter (9.50):

9.50.070 Disturbances from Construction Activity

The City of Rialto has set exterior noise limits to control noise impacts associated with the construction of the proposed Project. According to Section 9.50.070 of the City's Municipal Code, Disturbances from Construction Activity, the appropriate construction hours are as follows:

October 1st through April 30th:

- Monday through Friday: 7:00 a.m. to 5:30 p.m.
- Saturday: 8:00 a.m. to 5:00 p.m.
- Sundays and State Holidays: No permissible hours

May 1st through September 30th:

- Monday through Friday: 6:00 a.m. to 7:00 p.m.
- Saturday: 8:00 a.m. to 5:00 p.m.
- Sundays and State Holidays: No permissible hours.

The hours above shall apply to all persons that are engaged in any work of construction, erection, alternation, repair, addition, movement, demolition, or improvement to any building or structure. The Project, as stated in Section 1.5.3 (Project Construction), would abide by the above listed hours of operation of construction equipment. Therefore, construction activities would be consistent with the City Noise Ordinance and no impact would result.

Following construction, the Project would result in the operation of additional mechanical equipment, including new effluent and influent pumps within the confines of the RWFF. Residential properties are located to the east and west of the RWFF. Residential property lines would be as close as 300 feet away from the newly operating pumps.

The influent pumps would have a power rating of 50 horsepower. The effluent pumps would have a power rating of 150 horsepower. The three influent pumps would be installed approximately 17.5-feet underground. The three effluent pumps would be housed within a concrete wet well structure with 16-inch concrete walls. The pumps located underground are anticipated to attenuate well below the threshold. The wet well would account for approximately 20 decibels of attenuation. Noise levels due to the operation of the effluent pumps would be 73 decibels unhoused, therefore, they would be approximately 53 decibels attenuated due to the wet well structure. Operational noise level would not exceed the City's Noise Ordinance thresholds. No impact would occur.

b) Result in generation of excessive groundborne vibration or noise levels? (Less than Significant with Mitigation Incorporated)

The City of Rialto General Plan and Municipal Code do not establish a maximum vibration level for construction activities. For structural damage, the California Department of Transportation (Caltrans) recommends a vibration limit of 0.5 in/sec Peak Particle Velocity (PPV) for new residential and modern commercial/industrial structures, 0.3 in/sec PPV for older residential structures, and a limit of 0.25 in/sec PPV for historic and some old buildings. The proposed construction areas would not be located in the vicinity of fragile structures. Therefore, based on Caltrans guidance, this analysis establishes 0.3 in/sec PPV as the significance threshold for construction vibration to avoid damage to buildings from vibration sources.

Table 3.13-1 presents typical vibration levels that could be expected from construction equipment at a distance of 25 feet. Construction activities, such as drilling, the use of jackhammers, rock drills and other high-power or vibratory tools, and rolling stock equipment (tracked vehicles, compactors, etc.) may generate substantial vibration in the immediate vicinity. Vibration levels would vary depending on soil conditions, construction methods, and equipment used.

Table 3.13-1 Vibration Source Levels for Construction Equipment

Equipment		PPV at 25 feet (in/sec)	Approximate L√ at 25 feet (VdB)
Dila Daireau (inanaat)	upper range	1.158	112
Pile Driver (impact)	typical	0.644	104
Dila Dairea (agais)	upper range	0.734	105
Pile Driver (sonic)	typical	0.170	93
Clam shovel drop		0.202	94
Livelne maill (alcommoncell)	in soil	0.008	66
Hydromill (slurry wall)	in rock	0.017	75
Vibratory Roller		0.210	94
Hoe Ram		0.089	87
Large Bulldozer		0.089	87
Caisson Drilling		0.089	87
Loaded Trucks		0.076	86
Jackhammer		0.035	79
Small Bulldozer		0.003	58

Source: Federal Transit Administration 2006

The vibration levels provided in Table 3.12-1 are the values projected at 25 feet. This distance reflects the closest distance from the existing residential structures to the construction area; most structures are farther away. Vibratory pile driving may be required to shore the excavated areas (e.g., open trenches) rams near residential buildings. Vibration levels would typically be below 0.3 in/sec PPV when located at a distance of 25 feet or more from sensitive structures, but if the upper range of vibration levels from vibratory pile driving occurs, the vibration levels would exceed the 0.3 in/sec PPV threshold level within a distance of approximately 75 feet. At a distance of 25 feet, a vibratory pile driver would typically generate vibration levels of 0.09 in/sec PPV (FTA 2006), which is substantially below the 0.3 in/sec PPV threshold. The construction equipment that would generate the highest vibration levels would be pile drivers which may be used to install shoring systems. At a distance of 25 feet, vibration levels produced by a pile driver would range from 0.17 to 1.16 in/sec PPV (FTA 2006), which could exceed the 0.3 in/sec PPV threshold. The impact would be significant.

During operation, no groundborne vibration would occur, and the Project would not result in exposure of persons to or generation of excessive groundborne vibration levels. No operational impact would occur.

Mitigation

Mitigation Measure NOI-1 would reduce vibration impacts to less than significant by determining the sensitivity of nearby structures and requiring the use of alternate construction equipment.

Mitigation Measure NOISE-1: Manage Vibration Levels

The District shall not use heavy vibration-generating construction equipment to the extent feasible. Where heavy vibration-generating equipment must be used, the District shall prepare a vibration study conducted by a qualified acoustic scientist prior to the start of construction. The study will determine the age and sensitivity of potentially affected structures, determine whether a threshold of 0.3 or 0.5 inch/sec PPV is appropriate for each of them, and estimate the projected vibration impact at each structure. The District shall use alternate construction equipment such that the projected Project vibration impact at each structure is less than the appropriate threshold established by the study.

For a project located within the vicinity of a private airstrip or an airport land use plan or, c) where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? (No Impact)

The Project site is not located within the vicinity of a private airstrip, airport land use plan, or within two miles of a public airport. Therefore, no impact would result.

3.14 **Population and Housing**

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a)	Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?			✓	
b)	Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				√

Induce substantial unplanned population growth in an area, either directly (for example, by a) proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure (Less than Significant)

The proposed Project would result in an increase in capacity at the water treatment facility. The RWFF currently is able to treat up to 14.4 million gallons per day (mgd). Following Project completion, the RWFF would be able to treat 21.6 mgd – a 50% increase in capacity from existing conditions. The Project is one of seven Capital Improvement Projects identified in the 2020 West Valley Water District Water Facilities Master Plan. The purpose of the Water Facilities Master Plan is to estimate the future water demands and supply requirements for the District and to identify the water facilities needed to produce, deliver, store, and transport this supply to its customers. The facilities are based on the projected highest water usage day when the District is fully developed. In order to estimate future water needs, the Plan examined existing lands, lands planned for redevelopment, and undeveloped lands planned for development. Existing and future land uses were taken from current City and County General Plans within the District's service area.

The Project does not propose to expand the boundaries of the service area, nor does it call for changes or intensification of land uses. Because the Project merely supports the planned land uses and development potential established by local governments, the Project is not anticipated to induce substantial unplanned population growth. The impact would be less than significant.

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? (No Impact)

No housing or people would be displaced by the Project and no replacement housing would be required. No impact would result

3.15 **Public Services**

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	ould the project:				
a)	Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
	Fire Protection?				✓
	Police protection?				✓
	Schools?				✓
	Parks?				✓
	Other public facilities?				✓

a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for public services? (No Impact)

As discussed in Section 3.14, Population and Housing, implementation of the Project would not induce population growth and, therefore, would not require expanded fire or police protection facilities to maintain acceptable service ratios, response times, or other performance objectives. The Project would not result in an increase in student population, and therefore, no new or expanded schools would be required. The Project would not result in the increased use of existing parks and other public facilities as it would not induce population growth. The Project would not require the expansion of recreational facilities to maintain acceptable service ratios in parks, and would not require the expansion of other public facilities. No impact on public services would result.

3.16 Recreation

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	ould the project:				
a)	Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				√
b)	Include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?				✓

Increase the use of existing neighborhood and regional parks or other recreational facilities a, b) such that substantial physical deterioration of the facility would occur or be accelerated, or include or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment? (No Impact)

As discussed in Section 3.14, Population and Housing, implementation of the Project would not induce population growth. The use of existing neighborhood and regional parks or other recreational facilities would not change as a result of the Project. The Project would not include construction activities within an existing recreational property or require new or expanded recreational facilities. No impact would result.

3.17 **Transportation**

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a)	Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?			✓	
b)	Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?				✓
c)	Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?			✓	
d)	Result in inadequate emergency access?			✓	

Conflict with a program plan, ordinance or policy addressing the circulation system, a,d) including transit, roadway, bicycle and pedestrian facilities, or result in inadequate emergency access? (Less than Significant)

Construction of the Project would result in a short-term increase in vehicle trips on local roadways, including North Riverside Avenue, North Cedar Avenue, North Apple Avenue, West Summit Avenue, and West Via Bello Drive. The addition of construction-related vehicles would not substantially affect congestion on local roadway segments because trips would occur at differing periods of the day and would represent a small percentage of the capacity of the roadways. Construction-related truck traffic would access the site via North Riverside Avenue, a designated truck route (City of Rialto 2010). Because the underground water pipe will be installed in West Via Bello Drive, this street will likely experience the longest disruption to local access. Approximately 36 single family homes are provided access by West Bello Drive. For these homes, there are no alternative access routes due to the limited connectivity of the curvilinear suburban street design. As described in the Project Description, the WVWD and its construction contractor(s) would be required to prepare and implement a Traffic Control Plan in accordance with City requirements for work conducted within the public right-of-way. Implementation of traffic controls would be required during construction in accordance with City requirements, which would include the use of traffic controls, signs, and flaggers; scheduling of major street/lane closures during off-peak hours, establishment of detour routes, message boards, pedestrian and bicycle control measures, and other measures. Through required compliance with City of Rialto traffic control requirements and implementation of the Traffic Control Plan, construction activities would not result in substantial adverse effects or conflicts with the local roadway system. The impact would be less than significant.

Omnitrans, the public transit agency that serves the San Bernardino Valley, provides transit service to the Project site via Route 22. Buses arrive every 60 minutes to the bus stop located at North Linden Avenue and West Sunny View Drive. The street width at the location of the bus stop is 80 feet, sufficient width to allow both transit buses and construction-related truck traffic to move freely. Likewise, the street width and overall design should not impede emergency vehicles from accessing the site. The sidewalk network in this area is fully developed to allow pedestrian access throughout the neighborhood. There are no marked bike lanes or paths. Therefore, the potential impact on the performance or safety of pedestrian, bicycle, and public transit facilities would be less than significant.

Following construction, the Project would not result in an increase in traffic because the Project would not necessitate additional staffing at the water treatment facility nor substantially increase the number of deliveries of materials or supplies. Operation and maintenance of the Project would not conflict with existing transit routes or stops or bicycle and pedestrian facilities, and would not introduce new users of alternative modes of transportation into the area. Operation and maintenance would not affect emergency services or response times in the area. No operational impact would result.

b) Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)? (No Impact)

In November 2017, the Governor's Office of Planning and Research (OPR) released a technical advisory containing recommendations regarding the assessment of vehicle miles travelled (VMT). VMT refers to the amount and distance of automobile travel attributable to a Project. The term "automobile" refers to on-road passenger vehicles, specifically cars and light trucks. The movement of heavy trucks and equipment associated with the construction of the Project is not considered for the purposes of determining transportation impacts under this section. Project operation is not expected to increase VMT because the upgrades to the water treatment facility would not necessitate increasing the number of staff nor would they result in greater numbers of visitors to the site. Therefore, the Project would not conflict with or be inconsistent with an applicable threshold of significance adopted per CEQA Guidelines section 15064.3, subdivision (b). No impact would result.

C) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? (Less than Significant)

The Project would not alter the existing alignment of the surrounding streets. The new pipeline would be located below ground, and existing conditions along the temporarily impacted roads would be restored to pre-existing conditions. Construction traffic would access the site via North Riverside Avenue, a designated truck route (City of Rialto 2010). The surrounding streets are fully developed with signalized intersections and a comprehensive sidewalk network. As such, the surrounding street network can adequately accommodate the car and light truck traffic related to the construction and operation of the site. The impact would be less than significant.

3.18 Tribal Cultural Resources

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	ould the project:				
a)	Cause a substantial adverse change in the significance of a tribal cultural resource listed or eligible for listing in the California Register of Historic Resources, or in a local register of historic resources as defined in Public Resources Code section 5020.1(k)?		✓		
b)	Cause a substantial adverse change in the significance of a tribal cultural resource that is a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to the criteria set forth in subdivision (c) of the Public Resources Code section 5024.1? In applying the criteria set forth in subdivision (c) of the Public Resources Code section 5024.1, the lead agency shall consider the significance of the resource to a California Native American Tribe.		✓		

Cause a substantial adverse change in the significance of a tribal cultural resource? (Less a,b) than Significant with Mitigation)

CEQA requires lead agencies to determine if a proposed project would have a significant effect on tribal cultural resources. The CEQA Guidelines define tribal cultural resources as: (1) a site, feature, place, cultural landscape, sacred place, or object with cultural value to a California Native American Tribe that is listed or eligible for listing on the California Register of Historical Resources, or on a local register of historical resources as defined in Public Resources Code Section 5020.1(k); or (2) a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant according to the historical register criteria in Public Resources Code Section 5024.1(c), and considering the significance of the resource to a California Native American tribe.

Efforts to identify tribal cultural resources that could be affected by the Project included a records search at the South Central Coastal Information Center, literature review, a sacred lands search through the Native American Heritage Commission (NAHC), contact with appropriate local Native American Tribes, and a pedestrian archaeological survey of the Project site. To date, the WVWD has received four requests from California Native American tribes for notifications under Assembly Bill 52, including the Torres Martinez Desert Cahuilla Indians, San Manuel Band of Mission Indians, Morongo Band of Mission Indians, and the Gabrieleno Band of Mission Indians-Kizh Nation.

The Native American Heritage Commission Sacred Lands File search results were positive, indicating that a Sacred Site may be located in the Project vicinity and to contact the Gabrieleno Band of Mission Indians -Kizh Nation for more information. The NAHC also provided a list of other tribes culturally affiliated with the area. On May 12, 2021, Paleo Solutions contacted California Native American tribes culturally affiliated with the Project area via email and sent hard copies of the consultation letters via certified mail. Paleo Solutions contacted each of the tribes who requested formal consultation under AB 52, as well as those tribes listed on the NAHC list. On May 12, 2021, the Quechan Tribe responded saying they have no comments on the Project and defer to more local Tribes. On May 13, 2021, a response was sent by the San Manuel Band of Mission Indians, requesting the cultural study, geotechnical report (if required), and Project plans showing

depth of disturbance and stated that if the information cannot be provided within the Tribe's 30-day response window, the Tribe automatically elects to be a consulting party. On May 20, 2021, the Gabrieleno Band of Mission Indians- Kizh Nation responded stating that they would like to consult on the proposed Project. On June 16, 2021, Paleo Solutions provided the Project plans and the draft cultural report to both the San Manuel Band of Mission Indians and the Gabrieleno Band of Mission Indians-Kizh Nation. On June 22, 2021, a response was sent by the San Manuel Band of Mission Indians requesting that the potential exists to encounter Tribal Cultural Resources and requested specific mitigation language be incorporated into the IS/MND (See Section 3.5 and below). The language has been incorporated as requested.

On July 6, 2021, Paleo Solutions emailed the Gabrieleno Band of Mission Indians a follow-up note confirming they received the cultural report and Project plans. To date no response has been received. Based on the responses from the tribes, there is potential for tribal cultural resources to be encountered during construction. Therefore, a potentially significant impact could occur.

Mitigation

Implementation of Mitigation Measure TCR-1 would reduce the potential impact to tribal cultural resources to a less-than-significant level by implementing a construction monitoring procedure to address discovery of any previously unrecorded resources consistent with appropriate laws and requirements.

Mitigation Measure TCR-1: Protect Tribal Cultural Resources during Construction **Activities**

The San Manuel Band of Mission Indians Cultural Resources Department (SMBMI) shall be contacted, as detailed in CR-1, of any pre-contact and/or post-contact cultural resources discovered during project implementation, and be provided information regarding the nature of the find, so as to provide Tribal input with regards to significance and treatment. Should the find be deemed significant, as defined by CEQA (as amended, 2015), a cultural resources Monitoring and Treatment Plan shall be created by the archaeologist, in coordination with SMBMI, and all subsequent finds shall be subject to this Plan. This Plan shall allow for a monitor to be present that represents SMBMI for the remainder of the project, should SMBMI elect to place a monitor on-site.

Any and all archaeological/cultural documents created as a part of the Project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to the applicant and Lead Agency for dissemination to SMBMI. The WVWD shall, in good faith, consult with SMBMI throughout the duration of Project construction activities.

3.19 **Utilities and Service Systems**

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a)	Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electrical power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?			√	
b)	Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?			√	
c)	Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?			√	
d)	Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?			√	
e)	Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?				✓

Require or result in the relocation or construction of new or expanded water, wastewater a, c) treatment or storm water drainage, electrical power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects, or result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments? (Less than Significant)

The Project would expand the treatment capacity of WVWD's water system. Project components to be constructed within the boundaries of the existing facility would not require the relocation of any existing infrastructure or utilities. The underground water line to be installed within the street right-of-way would likely be located near existing utilities but would not require their relocation. The new water line would be installed using conventional cut-and-cover construction.

WVWD provides water to customers located in the cities of Rialto, Fontana, Bloomington, Colton, and Jurupa Valley. Small areas of unincorporated San Bernardino County are also served (WVWD 2016). A large portion of this water is converted to wastewater by residents of these cities, after which the wastewater enters various City and County wastewater systems. These wastewater systems are expanded over time to accommodate new development and redevelopment within their service areas. The planned capacity of the wastewater systems, like that of the water systems, reflect the land use plans of local governments. Therefore, the Project will not directly or indirectly (i.e., by inducing growth) exceed the capacity of the wastewater treatment provider. The impact would be less than significant.

b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years? (Less than Significant)

The capacity of the existing water treatment facility would increase from the current 14.4 mgd to 21.6 mgd as a result of the Project. The Project would allow the water treatment facility to treat an additional 7.2 mgd, which would continue to be drawn from the two existing surface water sources: Lytle Creek and the State Water Project (SWP). The existing facility treats up to 6.7 mgd drawn from Lytle Creek and up to 20 mgd from the SWP. The District, City of Rialto, and City of San Bernardino have a combined capacity of 6.7 mgd of Lytle Creek surface water rights. Existing metering and transmission facilities allow the District to import up to 20 mgd of the SWP water. Therefore, the Project would result in an increased amount of water (approximately double) being imported from the SWP. No additional water would be taken from Lytle Creek due to limited water rights.

The project would not result in an increase in groundwater use, though it would facilitate the importation of additional water from the SWP. The SWP is operated and maintained by the California Department of Water Resources (DWR) and has conveyed an annual average of 2.9 million acre-feet (maf) of water over the past ten years. The water supply of the SWP ultimately depends on rainfall, snowpack, and runoff. The water supply and distribution are actively managed on an ongoing basis by DWR (CDWR 2019). It considered an interruptible water supply because it varies from year-to-year depending on the amount of precipitation that the state receives (GHD 2021). The amount of water currently used and post-Project by the WVWD represents a tiny fraction of the total SWP water supply. It is unlikely that the Project would have any noticeable effect on the overall ability of the SWP to provide sufficient water to customers throughout the state. The Project would not directly result in an increase in population growth or a new high water demand land use. No new regional water supplies or facilities would be required. The impact would be less than significant.

d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals? (Less than Significant)

Construction of the project would result in a temporary increase in solid waste disposal needs associated with demolition and construction wastes, such as demolished asphalt pavement, concrete, and excavated soils. Construction waste with no practical reuse or that cannot be salvaged or recycled would be disposed of at a local transfer station or solid waste facility. The closest active permitted regional landfill is the Mid-Valley Sanitary Landfill (62 million cubic yards remaining capacity) (CalRecycle 2021). Solid waste generated by the project would represent a small fraction of the daily permitted tonnage of these facilities. therefore, the project's construction-related solid waste disposal needs would be sufficiently accommodated by existing landfills. The impact would be less than significant. Following construction, project operation would generate additional sludge to be disposed of at a permitted landfill. The additional sludge associated with Project operation would contribute only a marginal percentage of the daily waste hauled to the local landfill. Therefore, it is not anticipated to exceed the capacity of the local infrastructure or impair the attainment of solid waste reduction goals. The potential impact would be less than significant.

e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste? (No Impact)

No applicable federal solid waste regulations would apply to the project. At the State level, the Integrated Waste Management Act mandates a reduction of waste being disposed and establishes an integrated framework for program implementation, solid waste planning, and solid waste facility and landfill compliance. The project would not conflict with or impede implementation of such programs. No impact would result.

3.20 Wildfire

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
If Ic	ocated in or near state responsibility areas or lands classified	as very high fire	e hazard severity zor	nes, would the p	roject:
a)	Substantially impair an adopted emergency response plan or emergency evacuation plan?				✓
b)	Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?			✓	
c)	Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?				✓
d)	Expose people or structures to significant risks, including downslope or downstream flooding or landslides as a result of runoff, post-fire slop instability, or drainage changes?				√

Substantially impair an adopted emergency response plan or emergency evacuation plan or a) exacerbate wildfire risks? (No Impact)

The Project site is located within the Local Resource Area (LRA), approximately 1,300 feet from the State Responsibility Area (SRA). Approximately seven acres of the 37-acre water treatment facility and approximately 350 lineal feet of the approximately 1,800 lineal feet of proposed underground water pipe within West Via Bello Drive are located in the Very High Fire Hazard Severity Zone (VHFHSZ) (CALFIRE 2021). The City of Rialto Emergency Operations Plan and Multi-Hazard Mitigation Plan do not specify emergency evacuation routes or other issues directly pertinent to the Project site. There would be no impact.

b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire? (Less than Significant)

The Project site is located on generally flat land immediately southwest of the Lytle Creek Floodway. The floodway contains a large expanse of low grasses and scrub brush. Due to this proximity to wildfire fuel, the Project site is already at risk of wildfire. However, the proposed Project components would be located underground (waterpipe), within existing structures, or within the graveled perimeter of the water treatment site grounds. The low-fuel existing site conditions would limit wildfire risk. The water treatment plant has a tile roof and the grounds of the developed portion of the sites are almost entirely surfaced in gravel. Small amounts of landscaping are located near the southeast corner of the site. Immediately west of the water treatment facility is a grassy, undeveloped area approximately 11 acres in size. The undeveloped area is easily accessible by existing surface streets, appears to be maintained by regular mowing, and is unlikely to present wildfire risks. Therefore, the impacts would be less than significant.

c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment? (No Impact)

The Project does not include components that would exacerbate wildfire risks. The Project comprises infrastructure upgrades to increase capacity within the site of the existing water treatment facility and underground within an existing developed street right-of-way. There would be no impact.

d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides as a result of runoff, post-fire slop instability, or drainage changes? (No Impact)

The Project site is located on flat terrain and within existing developed areas. No on-site or off-site alternations to drainage are proposed. There would be no impact.

3.21 **Mandatory Findings of Significance**

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Do	es the project:				
a)	Have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?		✓		
b)	Have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?			√	
c)	Have environmental effects which would cause substantial adverse effects on human beings, either directly or indirectly?		✓		

Does the project have the potential to substantially degrade the quality of the environment, a) substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory? (Less than Significant with Mitigation)

Potential project impacts to biological and cultural resources are addressed in Section 3.4, Biological Resources and Section 3.5, Cultural Resources, respectively. With implementation of the recommended mitigation measures identified in this IS/MND, the potential for project-related activities to degrade the quality of the environment, including fish or wildlife species or their habitat, plant or animal communities, or important examples of California history or prehistory would be reduced to less-than-significant levels.

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)? (Less than Significant)

Cumulative impacts are defined as "two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts" (CEQA Guidelines Section 15355). Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time.

Efforts to identify cumulative projects included contact with the District and review of active City of Rialto construction and planning permits. Projects identified and considered for cumulative impacts include:

- Cactus Trail Improvement Project: improvement of pedestrian and bicycle facilities along the west side of Cactus Road, between Baseline Road and Rialto Avenue, located approximately 2.4 miles southeast of the project site.
- CapRock Distribution Center III Warehouse Project, demolition of existing structures and construction of new warehouse, located approximately 7 miles southeast of the project site.

As summarized in Section 3 of this Initial Study, the project would not result in impacts on agriculture and forestry resources, mineral resources, land use and planning, public services, or recreational facilities. Therefore, implementation of the project would not contribute to any related cumulative impact on those resources.

The distance between the Project site and the identified cumulative projects would preclude the potential for cumulative impacts in the Project area related to aesthetics, air quality, biological resources, noise, and traffic. None of the cumulative projects are located adjacent to the Project site or the affected project roadways. Moreover, based on current schedules, the construction of the cumulative projects are not anticipated to overlap with the proposed Project. Given the distance and dissimilarity between the Project site and the identified cumulative projects, the Project impacts summarized in this Initial Study would not add appreciably to any existing or foreseeable future significant cumulative impact. Incremental impacts, if any, would be very small, and the cumulative impact would be less than significant.

c) Does the project have environmental effects which would cause substantial adverse effects on human beings, either directly or indirectly? (Less than Significant with Mitigation)

With implementation of the recommended mitigation measures identified in this Initial Study, the potential for project-related activities to cause substantial adverse effects on human beings would be reduced to less-than-significant levels.

4. References

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5. Report Preparers

5.1 West Valley Water District

Linda Jadeski, Engineering Services Manager

5.2 GHD

Haley Cahill, Environmental Planner
Charles Smith, AICP, LEED AP, Senior Environmental Planner
Chryss Meier, Air Quality
Genevieve Rozhon, Biological Resources

5.3 Subconsultants

Paleo Solutions

Appendices

Appendix A Air Quality

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Roemer Water Project - Facility Improvements - San Bernardino-South Coast County, Summer

Roemer Water Project - Facility Improvements San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	2.68	Acre	2.68	116,740.80	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2022
Utility Company	Statewide Average				
CO2 Intensity (lb/MWhr)	1001.57	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction Only

Land Use - Parking Lot for Facility Paving.

Construction Phase - Default Paving Duration. Assumed 40 working days for facility upgrades

Off-road Equipment - Default 'building' equipment and activity, with Crane use decreased to 2 hrs/day.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	40.00
tblOffRoadEquipment	UsageHours	8.00	2.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	lay							lb/d	ay		
2022	1.8541	13.3420	15.1163	0.0310	0.6694	0.5779	1.2473	0.1803	0.5589	0.7392	0.0000	2,923.298 1	2,923.2981	0.5460	0.0000	2,932.117 8
Maximum	1.8541	13.3420	15.1163	0.0310	0.6694	0.5779	1.2473	0.1803	0.5589	0.7392	0.0000	2,923.298 1	2,923.2981	0.5460	0.0000	2,932.117 8

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	4/22/2022	6/16/2022	5	40	
2	Paving	Paving	2/24/2022	3/9/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	2.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	8	49.00	19.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

D-1-1		4F 00	^ ^^	0.00	44 70	C 00	00 00 I D Miss	LIDT Miss	LUDT
Paving	0	15.00	0.00	0.00	14.70	6.90	20.00 LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2022 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Off-Road	1.5758	11.4658	12.9340	0.0207		0.5719	0.5719		0.5532	0.5532		1,870.158 5	1,870.1585	0.3061		1,877.811 4
Total	1.5758	11.4658	12.9340	0.0207		0.5719	0.5719		0.5532	0.5532		1,870.158 5	1,870.1585	0.3061		1,877.811 4

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0458	1.7378	0.3188	5.0800e- 003	0.1217	2.6400e- 003	0.1243	0.0350	2.5200e- 003	0.0376		536.3844	536.3844	0.0330		537.2091
Worker	0.2325	0.1384	1.8635	5.1900e- 003	0.5477	3.4000e- 003	0.5511	0.1453	3.1300e- 003	0.1484		516.7552	516.7552	0.0137		517.0973
Total	0.2783	1.8761	2.1823	0.0103	0.6694	6.0400e- 003	0.6754	0.1803	5.6500e- 003	0.1860		1,053.139 6	1,053.1396	0.0467		1,054.306 5

3.3 Paving - 2022 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	lay		
Off-Road	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		1,709.689 2	1,709.6892	0.5419		1,723.235 6
Paving	0.7022					0.0000	0.0000		0.0000	0.0000			0.0000	011111111111111111111111111111111111111		0.0000
Total	1.6433	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		1,709.689 2	1,709.6892	0.5419		1,723.235 6

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e- 003	0.1677	1.0400e- 003	0.1687	0.0445	9.6000e- 004	0.0454		158.1904	158.1904	4.1900e- 003		158.2951
Total	0.0712	0.0424	0.5705	1.5900e- 003	0.1677	1.0400e- 003	0.1687	0.0445	9.6000e- 004	0.0454		158.1904	158.1904	4.1900e- 003		158.2951

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Roemer Water Project - Pipeline - San Bernardino-South Coast County, Summer

Roemer Water Project - Pipeline San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.25	Acre	0.25	10,890.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2022
Utility Company	Statewide Average				
CO2 Intensity (lb/MWhr)	1001.57	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction of Pipeline Component

Land Use - Pipeline footprint of approximately 0.25 acre

Construction Phase - Assume trenching at rate of 100 ft/day = 20 days. Default duration for repaving.

Off-road Equipment - Site repave and restoration

Off-road Equipment - Pipeline Trenching and Pipe Installation

Grading - 5,600 cy materials haul from pipeline component.

Off-road Equipment - Grading Phase Used to Estimate Materials Hauling emissions

Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	2.00	20.00
tblGrading	MaterialExported	0.00	5,600.00
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/c	lay							lb/d	ay		
2022	2.9747	30.8826	34.8579	0.0824	0.9571	1.2052	2.1623	0.2557	1.1402	1.3960	0.0000	8,180.066 4	8,180.0664	1.3417	0.0000	8,213.609 2
Maximum	2.9747	30.8826	34.8579	0.0824	0.9571	1.2052	2.1623	0.2557	1.1402	1.3960	0.0000	8,180.066 4	8,180.0664	1.3417	0.0000	8,213.609 2

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Trenching	Trenching	1/10/2022	2/4/2022	5	20	
2	Paving	Paving	1/24/2022	1/28/2022	5	5	
3	Grading	Grading	1/10/2022	2/4/2022	5	20	Soils Hauling from Pipeline

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.25

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Rubber Tired Dozers	0	1.00	247	0.40
Trenching	Tractors/Loaders/Backhoes	1	10.00	97	0.37
Trenching	Excavators	2	10.00	158	0.38
Trenching	Generator Sets	2	10.00	84	0.74
Paving	Cement and Mortar Mixers	1	10.00	9	0.56
Paving	Pavers	1	10.00	130	0.42
Trenching	Skid Steer Loaders	1	1.00	65	0.37
Paving	Rollers	1	10.00	80	0.38
Grading	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Paving	Paving Equipment	1	10.00	132	0.36
Paving	Tractors/Loaders/Backhoes	1	10.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	0.00	0.00	700.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Trenching - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		
Off-Road	1.5456	13.9737	20.2985	0.0335		0.6990	0.6990		0.6725	0.6725		3,209.222 2	3,209.2222	0.6082		3,224.426 5
Total	1.5456	13.9737	20.2985	0.0335		0.6990	0.6990		0.6725	0.6725		3,209.222 2	3,209.2222	0.6082		3,224.426 5

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day												lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e- 003	0.1677	1.0400e- 003	0.1687	0.0445	9.6000e- 004	0.0454		158.1904	158.1904	4.1900e- 003		158.2951
Total	0.0712	0.0424	0.5705	1.5900e- 003	0.1677	1.0400e- 003	0.1687	0.0445	9.6000e- 004	0.0454		158.1904	158.1904	4.1900e- 003		158.2951

3.3 Paving - 2022 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	lay		
Off-Road	0.9686	9.5078	12.2958	0.0190		0.4855	0.4855		0.4481	0.4481		1,819.481 8	1,819.4818	0.5746		1,833.846 5
Paving	0.1310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0996	9.5078	12.2958	0.0190		0.4855	0.4855		0.4481	0.4481		1,819.481 8	1,819.4818	0.5746		1,833.846 5

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0617	0.0367	0.4944	1.3800e- 003	0.1453	9.0000e- 004	0.1462	0.0385	8.3000e- 004	0.0394		137.0983	137.0983	3.6300e- 003		137.1891
Total	0.0617	0.0367	0.4944	1.3800e- 003	0.1453	9.0000e- 004	0.1462	0.0385	8.3000e- 004	0.0394		137.0983	137.0983	3.6300e- 003		137.1891

3.4 Grading - 2022 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Fugitive Dust					0.0317	0.0000	0.0317	4.7900e- 003	0.0000	4.7900e- 003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0317	0.0000	0.0317	4.7900e- 003	0.0000	4.7900e- 003		0.0000	0.0000	0.0000		0.0000

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	lay		
Hauling	0.1966	7.3220	1.1987	0.0269	0.6125	0.0187	0.6312	0.1679	0.0179	0.1858		2,856.073 8	2,856.0738	0.1511		2,859.851
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.1966	7.3220	1.1987	0.0269	0.6125	0.0187	0.6312	0.1679	0.0179	0.1858		2,856.073 8	2,856.0738	0.1511		2,859.851 9

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Roemer Water Project - Facility Improvements - San Bernardino-South Coast County, Annual

Roemer Water Project - Facility Improvements San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	2.68	Acre	2.68	116,740.80	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2022
Utility Company	Statewide Average				
CO2 Intensity (lb/MWhr)	1001.57	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction Only

Land Use - Parking Lot for Facility Paving.

Construction Phase - Default Paving Duration. Assumed 40 working days for facility upgrades

Off-road Equipment - Default 'building' equipment and activity, with Crane use decreased to 2 hrs/day.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	40.00
tblOffRoadEquipment	UsageHours	8.00	2.00

2.0 Emissions Summary

2.1 Overall Construction Unmitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					tons	s/yr							МТ	/yr		
2022	0.0452	0.3143	0.3586	7.1000e- 004	0.0140	0.0140	0.0280	3.7600e- 003	0.0134	0.0172	0.0000	60.5122	60.5122	8.8800e- 003	0.0000	60.7342
Maximum	0.0452	0.3143	0.3586	7.1000e- 004	0.0140	0.0140	0.0280	3.7600e- 003	0.0134	0.0172	0.0000	60.5122	60.5122	8.8800e- 003	0.0000	60.7342

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	4/22/2022	6/16/2022	5	40	
2	Paving	Paving	2/24/2022	3/9/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	2.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	8	49.00	19.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2022 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							МТ	/yr		
Off-Road	0.0315	0.2293	0.2587	4.1000e- 004		0.0114	0.0114		0.0111	0.0111	0.0000	33.9316	33.9316	5.5500e- 003	0.0000	34.0704
Total	0.0315	0.2293	0.2587	4.1000e- 004		0.0114	0.0114		0.0111	0.0111	0.0000	33.9316	33.9316	5.5500e- 003	0.0000	34.0704

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.4000e- 004	0.0350	6.9600e- 003	1.0000e- 004	2.4000e- 003	5.0000e- 005	2.4500e- 003	6.9000e- 004	5.0000e- 005	7.4000e- 004	0.0000	9.5720	9.5720	6.3000e- 004	0.0000	9.5877
Worker	4.2200e- 003	3.0600e- 003	0.0320	1.0000e- 004	0.0108	7.0000e- 005	0.0108	2.8500e- 003	6.0000e- 005	2.9200e- 003	0.0000	8.5957	8.5957	2.2000e- 004	0.0000	8.6013
Total	5.1600e- 003	0.0381	0.0390	2.0000e- 004	0.0132	1.2000e- 004	0.0133	3.5400e- 003	1.1000e- 004	3.6600e- 003	0.0000	18.1677	18.1677	8.5000e- 004	0.0000	18.1890

3.3 Paving - 2022 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							МТ	-/yr		
Off-Road	4.7100e- 003	0.0467	0.0585	9.0000e- 005		2.4400e- 003	2.4400e- 003		2.2500e- 003	2.2500e- 003	0.0000	7.7550	7.7550	2.4600e- 003	0.0000	7.8165
Paving	3.5100e- 003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.2200e- 003	0.0467	0.0585	9.0000e- 005		2.4400e- 003	2.4400e- 003		2.2500e- 003	2.2500e- 003	0.0000	7.7550	7.7550	2.4600e- 003	0.0000	7.8165

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e- 004	2.3000e- 004	2.4500e- 003	1.0000e- 005	8.2000e- 004	1.0000e- 005	8.3000e- 004	2.2000e- 004	0.0000	2.2000e- 004	0.0000	0.6578	0.6578	2.0000e- 005	0.0000	0.6583
Total	3.2000e- 004	2.3000e- 004	2.4500e- 003	1.0000e- 005	8.2000e- 004	1.0000e- 005	8.3000e- 004	2.2000e- 004	0.0000	2.2000e- 004	0.0000	0.6578	0.6578	2.0000e- 005	0.0000	0.6583

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Roemer Water Project - Pipeline - San Bernardino-South Coast County, Annual

Roemer Water Project - Pipeline San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.25	Acre	0.25	10,890.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2022
Utility Company	Statewide Average				
CO2 Intensity (lb/MWhr)	1001.57	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction of Pipeline Component

Land Use - Pipeline footprint of approximately 0.25 acre

Construction Phase - Assume trenching at rate of 100 ft/day = 20 days. Default duration for repaving.

Off-road Equipment - Site repave and restoration

Off-road Equipment - Pipeline Trenching and Pipe Installation

Grading - 5,600 cy materials haul from pipeline component.

Off-road Equipment - Grading Phase Used to Estimate Materials Hauling emissions

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	2.00	20.00
tblGrading	MaterialExported	0.00	5,600.00
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00

2.0 Emissions Summary

2.1 Overall Construction Unmitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					tons	s/yr							MT	/yr		
2022	0.0210	0.2389	0.2524	6.7000e- 004	8.3400e- 003	8.4000e- 003	0.0168	2.2300e- 003	8.0400e- 003	0.0103	0.0000	60.4624	60.4624	8.2900e- 003	0.0000	60.6696
Maximum	0.0210	0.2389	0.2524	6.7000e- 004	8.3400e- 003	8.4000e- 003	0.0168	2.2300e- 003	8.0400e- 003	0.0103	0.0000	60.4624	60.4624	8.2900e- 003	0.0000	60.6696

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Trenching	Trenching	1/10/2022	2/4/2022	5	20	
2	Paving	Paving	1/24/2022	1/28/2022	5	5	
3	Grading	Grading	1/10/2022	2/4/2022	5	20	Soils Hauling from Pipeline

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.25

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Trenching	Tractors/Loaders/Backhoes	1	10.00	97	0.37
Trenching	Excavators	2	10.00	158	0.38
Trenching	Generator Sets	2	10.00	84	0.74
Paving	Cement and Mortar Mixers	1	10.00	9	0.56
Paving	Pavers	1	10.00	130	0.42
Trenching	Skid Steer Loaders	1	1.00	65	0.37
Paving	Rollers	1	10.00	80	0.38
Paving	Paving Equipment	1	10.00	132	0.36
Paving	Tractors/Loaders/Backhoes	1	10.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	0.00	0.00	700.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Trenching - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Off-Road	0.0155	0.1397	0.2030	3.4000e- 004		6.9900e- 003	6.9900e- 003		6.7200e- 003	6.7200e- 003	0.0000	29.1136	29.1136	5.5200e- 003	0.0000	29.2515
Total	0.0155	0.1397	0.2030	3.4000e- 004		6.9900e- 003	6.9900e- 003		6.7200e- 003	6.7200e- 003	0.0000	29.1136	29.1136	5.5200e- 003	0.0000	29.2515

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e- 004	4.7000e- 004	4.9000e- 003	1.0000e- 005	1.6400e- 003	1.0000e- 005	1.6600e- 003	4.4000e- 004	1.0000e- 005	4.5000e- 004	0.0000	1.3157	1.3157	3.0000e- 005	0.0000	1.3165

Total	6.5000e-	4.7000e-	4.9000e-	1.0000e-	1.6400e-	1.0000e-	1.6600e-	4.4000e-	1.0000e-	4.5000e-	0.0000	1.3157	1.3157	3.0000e-	0.0000	1.3165
	004	004	003	005	003	005	003	004	005	004				005		

3.3 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Off-Road	2.4200e- 003	0.0238	0.0307	5.0000e- 005		1.2100e- 003	1.2100e- 003		1.1200e- 003	1.1200e- 003	0.0000	4.1265	4.1265	1.3000e- 003	0.0000	4.1591
Paving	3.3000e- 004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.7500e- 003	0.0238	0.0307	5.0000e- 005		1.2100e- 003	1.2100e- 003		1.1200e- 003	1.1200e- 003	0.0000	4.1265	4.1265	1.3000e- 003	0.0000	4.1591

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e- 004	1.0000e- 004	1.0600e- 003	0.0000	3.6000e- 004	0.0000	3.6000e- 004	9.0000e- 005	0.0000	1.0000e- 004	0.0000	0.2851	0.2851	1.0000e- 005	0.0000	0.2853
Total	1.4000e- 004	1.0000e- 004	1.0600e- 003	0.0000	3.6000e- 004	0.0000	3.6000e- 004	9.0000e- 005	0.0000	1.0000e- 004	0.0000	0.2851	0.2851	1.0000e- 005	0.0000	0.2853

3.4 Grading - 2022 Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Fugitive Dust					3.2000e- 004	0.0000	3.2000e- 004	5.0000e- 005	0.0000	5.0000e- 005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	3.2000e- 004	0.0000	3.2000e- 004	5.0000e- 005	0.0000	5.0000e- 005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Hauling	2.0000e- 003	0.0748	0.0127	2.7000e- 004	6.0200e- 003	1.9000e- 004	6.2100e- 003	1.6500e- 003	1.8000e- 004	1.8300e- 003	0.0000	25.6216	25.6216	1.4200e- 003	0.0000	25.6572
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.0000e- 003	0.0748	0.0127	2.7000e- 004	6.0200e- 003	1.9000e- 004	6.2100e- 003	1.6500e- 003	1.8000e- 004	1.8300e- 003	0.0000	25.6216	25.6216	1.4200e- 003	0.0000	25.6572

Appendix B

Biological Resources Report





Biological Resources Evaluation

Oliver P. Roemer Water Filtration Facility Expansion Project Prepared for West Valley Water District



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List of Acronyms

° degrees

BRE Biological Resources Evaluation

CDFW California Department of Fish and Wildlife CEQA California Environmental Quality Act

CFR Code of Federal Regulations

CNDDB California Natural Diversity Database

CNPS California Native Plant Society
CRPR California Rare Plant Rank

CWA Clean Water Act

DBPs Disinfection Byproducts

DWW Department of Drinking Water EPA Environmental Protection Agency

ESA Endangered Species Act

F Fahrenheit

FGC Fish and Game Code
GAC Granular Activated Carbon
HCP Habitat Conservation Plan
MBTA Migratory Bird Treaty Act
mgd millions of gallons per day

NCCP Natural Community Conservation Planning

NEPA National Environmental Policy Act

National Oceanic and Atmospheric

NOAA Administration

NRCS Natural Resources Conservation Service

NWI National Wetlands Inventory

ROW Right of Way

RWFF Roemer Water Filtration Facility

SC State Candidate SE State Endangered

SNC Sensitive Natural Community

SR State Rare

SRF Clean Water State Revolving Fund

ST State Threatened
SWP State Water Project
TOCs total organic compounds
USC United States Code
USGS U.S. Geological Survey

UV ultraviolet

WVWD West Valley Water District



1. Executive Summary

The purpose of this Biological Resources Evaluation (BRE) is to investigate and determine which sensitive biological resources (if any), including plant and wildlife species and their habitat, may occur in the footprint or vicinity of the Oliver P. Roemer Water Filtration Facility Expansion Project (hereafter "Project," described below) and address any potential effects of the Project on these sensitive biological resources. The BRE is also designed to provide supporting biological information for the Project's California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) processes. The Project proponent, West Valley Water District ("WVWD" or "District"), is pursuing Clean Water State Revolving Fund (SRF) funding for this Project, which requires any environmental review to meet NEPA requirements.

Based on the GHD site visit on March 2, 2021, as well as a thorough database and literature search, the Project occurs within the range of several federally listed and state special status wildlife and plant species, as well as sensitive natural communities. This submittal represents an initial analysis, to determine whether consultation is required with the U.S. Fish and Wildlife Service (USFWS) under Section 7 of the Endangered Species Act (16 U.S.C. §§ 1536) for the proposed Project and to support NEPA. This report also addresses impacts to state special status species and habitats to inform the Project's CEQA document.

Based on the analysis herein, the Project will have no effect on federally listed species or federally designated critical habitat. Further consultation is not expected. In addition, no potential Project impacts on sensitive state and other protected biological resources are expected.

2. Project Description

2.1 Project Location

The Project is located in Rialto, an urban-residential city in San Bernardino County, California. The physical location of the Roemer Water Filtration Facility is at 3010 N Cedar Ave (see Appendix A, Figure 1). The Project is bordered to the south, east, and west by residential communities, and to the north by North Riverside Avenue, open space (empty lot characterized by disturbance-associated vegetation species), and an industrial area (sand and gravel mining operation). Project improvements, as described further below, will occur at the facility. In addition, a new pipeline will be constructed as part of this Project. The pipeline will run northwest from the facility and cross an undeveloped parcel to North Linden Avenue, where it will proceed approximately 100 feet south before turning northwest again up West Via Bello Drive (primarily through a residential area). The pipeline will terminate at the WVWD Reservoirs, located at the western end of West Via Bellow Drive. Any Project staging areas are expected to occur within the City of Rialto's right of way (ROW) along North Linden Avenue and West Via Bello Drive and the open area located directly west of the facility.



2.2 Proposed Project

2.2.1 Facility Improvements

The WVWD currently treats surface water from Lytle Creek and State Water Project (SWP). The Project improvements would expand the Roemer Water Filtration Facility (RWFF) from the current 14.4 millions of gallons per day (mgd) to 21.6 mgd to treat additional State Water Project (SWP) water, and includes the following elements:

- Trident Filter Expansion Install three new Trident filtration units.
- Improved Ultraviolet (UV) System Replace the existing UV reactors with new 4L24 reactors, with space allocation for future expansion.
- Granular Activated Carbon (GAC) Modifications Adjust GAC system from series to parallel mode for higher capacity.
- Backwash Settling Ponds Enhancements Optimize to decrease algae growth potential.
- Treated Water Booster Pumps.
- 30-inch treated water conveyance pipeline.
- Repair, Rehabilitation, and Improvements of Existing Infrastructure:
 - Upgrade of UV recovery and GAC influent pumps.
 - o Electrical, mechanical, and other appurtenances.
 - o Replace 6-inch water recycling line from ponds with new 12-inch pipeline.

The components of the proposed Project are described in more detail below.

2.2.1.1 Trident Filter Expansion

Trident filtration systems are currently in place at the RWFF in order to treat raw water routed to the RWFF. The Trident system is considered an "Alternative Filtration Technology" by the Department of Drinking Water (DDW). The Project would expand the existing building housing the existing six Trident pumps and install three new Trident filtration units alongside them. The building dimensions would be approximately 63 feet long by 184 feet wide by 36 feet, 11 inches high.

2.2.1.2 Ultraviolet Disinfection System

The UV facility would be upgraded by replacing the existing reactors with newer and more efficient lamps, which are used to disinfect the water. There are currently three 24-inch UV reactors with six lamps each. The existing reactors represent the first generation technology and are approaching the end of their usable life. The existing Trojan SWIFTM 6L24 UV Disinfection reactors would be replaced by new Trojan SWIFTM 4L24 reactors to achieve target expansion capacity and reduce power consumption.



2.2.1.3 Granular Activated Carbon

The GAC is designed to remove additional total organic compounds (TOC) to enhance Disinfection Byproducts (DBPs) controls in the WVWD distribution system and to improve the taste of the treated water. Currently a partial stream from the Trident and UV treated water passes through a 20-inch line to the existing 10 GAC absorbers, which operate in series mode. The Project proposes an operational shift from series to parallel mode. This shift would only double the capacity without any additional capital investment. The operation of the GAC would be staggered (sequence of flow distribution among vessels would be kept) in order to simplify GAC changeouts.

2.2.1.4 Backwash Settling Ponds

The current operation of the Backwash Settling Ponds indicate areas for operational improvement as plant capacity is increased. A 50,000 gallon storage tank would be constructed behind the GAC distribution area. The Project proposes an operational change where a thickening agent, such as Dissolved Air Floatation, would be added to the ponds to discourage algae growth.

2.2.1.5 Treated Water Booster Pumps

Currently five pumps (4 with 1 standby) at the outlet of the chlorine contact basin pump the treated water to the reservoirs located at the end of West Via Bello Drive. The Project would install three additional pumps to handle the extra 7.2-mgd capacity near the backwash settling ponds.

2.2.1.6 Treated Water Conveyance Pipeline

A new 30-inch treated water pipeline would be installed from the RWFF to the WVWD Reservoirs to the north. The pipeline would be constructed from the RWFF through existing open space that is contingent to the RWFF, then along North Linden Avenue for approximately 140 linear feet until it reaches West Via Bello Drive. The pipeline would be routed in West Via Bello Drive for approximately 1,950 linear feet until it reaches the existing reservoirs. An existing water utility in Via Bello Drive may need to be relocated within the current roadway right-of-way to accommodate installation of the new water pipeline.

2.2.1.7 Repair, Rehabilitation, and Improvements to Existing Infrastructure

The Project would upgrade the UV Disinfection Facility pumps and the GAC pumps. A total of 4 UV pumps and three GAC pumps would replace the existing pumps at the main treatment facility. The Project would also replace approximately 286 linear feet of the 6-inch water recycling line from the treatment ponds to the pre-treatment facility with a new 12-inch pipeline. Repaving of the majority of the facility would also occur to rehabilitate the existing pavement. The paving would cover the existing parking lot, and around each of the exiting components of the facility. Restriping of the parking lot would occur once repaving has occurred. A new retaining wall would be constructed southwest of the Blending Pond 2 and extend approximately 313 linear feet northwest to the western edge of Blending Pond 1.



2.2.2 New Pipeline

2.2.2.1 Pipeline Construction

Pipeline construction for the proposed new water pipeline from the RWFF to the reservoirs and the two pipelines within the existing facility would be constructed via open trench methods. These methods would typically include excavating the trench, preparing and installing pipeline sections and other pipeline components, backfilling the trench with non-expansive fills, and restoring and repaving the pipeline alignment. The depth of excavation would be approximately eight feet deep for the 30-inch effluent water main to the reservoirs. The new water main would be installed within the City road right-of-way within Linden Avenue and West Via Bello Road (see Appendix A, Figure 3). Relocation of an existing water utility in Via Bello Drive, if found necessary, would be accommodated within the excavated trench. The two pipelines to be installed within the existing RWFF would require a depth of excavation of approximately seven feet. In total, approximately 5,600 cubic yards of material would be required to be off-hauled to a regional disposal facility.

2.2.2.2 Construction Traffic Control

Construction of the new water pipeline within Linden Avenue and West Via Bello Drive would take place generally within the City of Rialto ROW requiring a temporary partial lane closure and encroachment permit. As part of the encroachment permit process, the District and its construction contractor would be required to prepare traffic control plans for review and acceptance of planned work within the City ROW. This would include information on the lengths and widths of work zones, tapers and sign spacing, and all lanes to be temporarily used, reduced, or left open. The development and implementation of traffic control plans may also include, but not necessarily be limited to:

- Traffic controls, signs, and flaggers required for conformance with the current California Manual of Uniform Traffic Control Devices;
- Pedestrian and bicycle control devices;
- Notifications/arrangements for any driveway access restrictions; and
- Notifications to emergency responders and public transit agencies.

2.2.2.3 Groundwater Dewatering (If Required)

If needed, temporary groundwater dewatering would be conducted to provide a dry work area during construction-related excavations. Dewatering would involve pumping water out of a trench into a Baker tank (or other similar type of settling tank). Following the settling process provided by a tank, groundwater would typically be pumped to a bag and cartridge filter system (or similar system) before being discharged to the sanitary sewer system.

2.3 Construction Staging and Equipment

Prior to and during construction, the contractor would mobilize resources to a staging area that would be located on the adjacent City-owned Open Space (See Appendix A Figure 2, Proposed RWFF Improvements). A variety of construction equipment would be used to build the project,



including various sized cranes, excavators, loaders, backhoe, small dozer, loader, backhoe, worker trucks, super dumps, water truck, rollers, pavers, AB import trucking, and AC haulers.

The primary construction-related vehicle and haul truck route to the project site is anticipated to be North Riverside Avenue to Linden Road. The number of construction-related vehicles traveling to and from the project areas would vary on a daily basis. It is anticipated that up to 8 round trip haul truck trips could occur during peak construction periods. In addition, it is anticipated that construction crew trips would require up to 8 round trips vehicle trips per day.

2.4 Project Purpose and Goals

West Valley Water District's 2020 Water Facilities Master Plan calculates that approximately 34 percent of the land within the District's service area boundary is undeveloped and projects over 21,000 additional connections, (equivalent dwelling units) will be constructed by buildout of the system. The average day demand is projected to increase from 19.1 mgd to 31.7 mgd by 2046 and peak day demand (which is 1.7 times the average day demand) is projected to reach 53.8 mgd.

Current demands are met through various water supply sources available to the District including groundwater pumped from District wells in 4 different groundwater basins, from purchased groundwater through the Base Line Feeder and surface water treated at the District's Oliver P. Roemer Water Filtration Facility (Roemer WFF). The Roemer WFF, which provides 41 percent of the District's water, treats surface water from both Lytle Creek and the SWP to meet local demand. The other 59 percent comes from local ground water wells. Due to projected development growth, rising peak summer usage, and the need to continue to responsibly manage groundwater basins, the District is planning to expand treatment capacity at the Roemer WFF.

The Project would expand the RWFF capacity by 7.2 million gallons per day mgd to meet future demands and better manage limited groundwater resources. Expansion of the RWFF would allow maximizing the use of surface supplies (California's State Water Project and Lytle Creek flows) when available to allow groundwater sources to recharge. This conjunctive use strategy is critical for long term, sustainable water management for the region.

2.5 Construction Schedule

Construction of the project is expected to begin in January 2022 and require approximately 21 months to complete. Between October 1st and April 30th of a given year, construction activities would generally occur between 7:00 a.m. and 5:30 p.m. on weekdays, and between 8:00 a.m. and 5:00 p.m. on Saturdays. Between May 1st and September 30th of a given year, construction activities would occur between 6:00 a.m. and 7:00 p.m. on weekdays, and between 8:00 a.m. and 5:00 p.m. on Saturdays.

2.6 Other Public Agencies Whose Approval is Required

The following City of Rialto entitlements may be required for the project:

• Encroachment Permit for work within the City right-of-way



2.7 Definition of the Project Area

The Project Area encompasses the construction areas, staging areas, access road, and pipeline alignment (see Appendix A, Figure 4). The Project Area is synonymous with all areas of proposed ground disturbance for the Project.

2.8 Definition of the Federal Endangered Species Act (ESA) Action Area

The Action Area serves as the "study area" for the purposes of a Section 7 Biological Assessment. The Action Area includes the Project Area, as defined in Section 2.7, buffered by an area of 50 feet Federally listed species were evaluated at the level of the Action Area. This large buffer around the Project Area is designed to account for any construction-related auditory and visual disturbance to wildlife in the vicinity, vegetation clearing, and other potential impacts such as increased dust. The Project is within a developed residential landscape with construction impacts largely confined to existing developed or disturbed areas. The Action Area is shown in Appendix A, Figures 5.

2.9 Definition of the Project Study Boundary

For the purposes of this BRE, the Project Study Boundary (PSB) includes the Project Area as defined in Section 2.7, buffered by an area of 50 feet. The extent of the PSB is the same as that of the Action Area. Different terminology referencing the same study area extent is related to regulatory requirements (i.e., "Action Area" is the study area terminology for the purpose of an ESA analysis/NEPA, and "PSB" is the study area terminology for a non-ESA analysis). State special status wildlife species with no federal status were evaluated at the level of the PSB. The PSB is shown in Appendix A, Figure 5.

2.10 Known Ongoing and Previous Projects in the Area

Since its construction in 1993, the RWFF has undergone two expansions to meet the needs of the community (WVWD 2018). No additional information is available for previous projects in the immediate Project vicinity.

3. Regulatory Background

The following is an overview of agencies that have potential oversight of the proposed Project related to biological resources. The regulatory setting is divided into sections on federal, state, and local jurisdiction.

3.1 Federal Jurisdiction

3.1.1 National Environmental Policy Act

The National Environmental Policy Act of 1969 requires federal agencies to prepare environmental documentation that discloses to decision-makers and the interested public a clear, accurate description of potential environmental effects resulting from proposed federal actions and



reasonable alternatives to those actions. Through NEPA, the U.S. Congress directed federal agencies to integrate environmental factors in their planning and decision-making processes and encourage and facilitate public involvement in decisions that affect the quality of the human environment. Federal agencies are required to consider the environmental effects of a Proposed Action, alternatives to the Proposed Action, and a No Action alternative (assessing the potential environmental effects of not undertaking the Proposed Action).

3.1.2 Endangered Species Act

The ESA of 1973 (16 United States Code [USC] 1531 et seq.) establishes a national policy that all federal departments and agencies provide for the conservation of threatened and endangered species and their ecosystems. The Secretary of the Interior and the Secretary of Commerce are designated in the ESA as responsible for: (1) maintaining a list of species likely to become endangered within the foreseeable future throughout all or a significant portion of its range (threatened) and that are currently in danger of extinction throughout all or a significant portion of its range (endangered); (2) carrying out programs for the conservation of these species; and (3) rendering opinions regarding the impact of proposed federal actions on listed species. The ESA also outlines what constitutes unlawful taking, importation, sale, and possession of listed species and specifies civil and criminal penalties for unlawful activities.

Pursuant to the requirements of the ESA, an agency reviewing a proposed project within its jurisdiction must determine whether any federally listed or proposed species may be present in the project region, and whether the proposed project would result in a "take" of such species. The ESA prohibits "take" of a single threatened and endangered species except under certain circumstances and only with authorization from the USFWS or the National Oceanic and Atmospheric Administration (NOAA) Fisheries through a permit under Section 7 (for federal entities or federal actions) or 10(a) (for non-federal entities) of the Act. "Take" under the ESA includes activities such as "harass, harm, pursue, hunt shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct." USFWS regulations define harm to include "significant habitat modification or degradation." On June 29, 1995, a U.S. Supreme Court ruling further defined harm to include habitat modification "...where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or sheltering."

In addition, the agency is required to determine whether the project is likely to jeopardize the continued existence of any species proposed to be listed under the ESA or result in the destruction or adverse modification of critical habitat for such species (16 USC 1536[3][4]). If it is determined that a project may result in the "take" of a federally listed species, consultation would be required under Section 7 or Section 10 of the ESA.

Critical habitat is defined by the ESA as a specific geographic area containing features essential for the conservation of an endangered or threatened species. Under Section 7 of the ESA, critical habitat should be evaluated if designated for federally listed species that may be present in the project Action Area (federally designated term for a "Project Study Boundary").

Habitat Conservation Plans (HCPs)

Conservation plans were incorporated into the ESA in 1982 (sections 10(a)(1)(B) and 10(a)(2)(A) of the ESA, as amended) to create a pathway for take exemptions under the Act for federal and non-



federal entities (previously prohibited under Section 9 of the Act). HCPs are planning documents that provide measures to minimize or mitigate project impacts to listed or candidate species (as well as eagles, following 2011 guidance) at an ecosystem versus single-species level. An HCP provides a degree of assurance for private entities that measures agreed upon in the HCP by federal regulators and the entity would be upheld and not altered for the lifespan of the document, and no additional obligations (financial, land use, or other) would be required at a later date with respect to the species covered in the HCP (referred to as the "No Surprises Rule"; 63 FR 8859). Requirements for issuance of an HCP require that all take is incidental, take would be minimized and mitigated to the maximum extent practical, adequate funds are available to implement the plan, and the incidental take would not appreciably reduce the survival and recovery potential of the species, among others. HCPs are also must comply with the Five Point Policy (65 FR 35242) that requires the incorporation of biological goals and objectives for each species in the document, adaptive management, monitoring, a set time frame for implementation, and public participation through the NEPA process.

Habitat Conservation Plans (HCPs) That Overlap the Project

The Project Area, PSB, and Action Area do not overlap any existing active HCPs according to a current list from the USFWS Carlsbad Office, the USFW ECOS website (USFWS 2021a, USFWS Carlsbad 2021), and the CDFW list of HCPs and NCCPs (CDFW 2021b). However, the Project does overlap a historic HCP as well as an in-progress HCP. Projects in the vicinity outside the coverage of HCPs or NCCPs previously mitigated for effects to listed species via mitigation bank credits (Ortega 2017).

The WVWD HCP (inactive HCP; 72 FR 31603) covered a previous project's effects to the San Bernardino Merriam's Kangaroo Rat and associated critical habitat in nearby Lyle Creek Wash. The coverage area of this HCP was quite small, and effects were limited. This HCP had a two-year coverage period (from 2007-2009).

There is an HCP in progress that overlaps with the Project Area, PSB, and Action Area, The Upper Santa Ana River Habitat Conservation Plan. This HCP has a thirty-year coverage period. The WVWD is a stakeholder in this HCP. Species covered by the plan include the San Bernardino Merriam's Kangaroo Rat, among others. A stakeholder administrative draft of the HCP was published in October 2020 (Upper Santa Ana River Sustainable Resources Alliance 2021). Approval of a final draft is expected to be imminent (Scauzillo 2021).

3.1.3 Executive Order 13112, Invasive Species

Executive Order 13112 was issued in 1999 to enhance federal coordination and response to the complex and accelerating problem of invasive species. It provides policy direction to promote coordinated efforts of federal, state, and local agencies in monitoring, detecting, preventing, evaluating, managing, and controlling the spread of invasive species and increasing the effectiveness of scientific research and public outreach affecting the spread and impacts of invasive species.



3.1.4 Migratory Bird Treaty Act (MBTA)

The MBTA of 1918 (16 USC 703-712) as amended established federal responsibilities for the protection of nearly all species of birds, their eggs, and nests. A migratory bird is defined as any species or family of birds that live, reproduce, or migrate within or across international borders at some point during their annual life cycle. The MBTA prohibits the take, possession, buying, selling, purchasing, or bartering of any migratory bird listed in 50 CFR Part 10, including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations (50 CFR 21). Only exotic species such as Rock Pigeons (*Columba livia*), House Sparrows (*Passer domesticus*), and European Starlings (*Sturnus vulgaris*) are exempt from protection.

3.2 State Jurisdiction

3.2.1 California Environmental Quality Act (CEQA)

CEQA applies to certain activities of state and local public agencies. A public agency must comply with CEQA when it undertakes an activity defined by CEQA as a "project." A project is an activity undertaken by a public agency or a private activity which must receive some discretionary approval. Under CEQA, a variety of technical studies including biological, cultural, traffic, and air quality studies as well as research and professional knowledge are considered to determine whether the project may have an "adverse effect" on the environment. Lead agencies are charged with evaluating the best available data when determining what specifically should be considered an "adverse effect" to the environment.

3.2.2 California Endangered Species Act (CESA)

The CESA includes provisions for the protection and management of species listed by the State of California as endangered, threatened, or designated as candidates for such listing (California Fish and Game Code (FGC) Sections 2050 through 2085). The CESA generally parallels the main provisions of the ESA and is administered by the CDFW, who maintains a list of state threatened and endangered species as well as candidate species. The CESA prohibits the "take" of any species listed as threatened or endangered unless authorized by the CDFW in the form of an Incidental Take Permit. Under FGC, "take" is defined as to "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill."

3.2.3 Other State Special Status Species and Communities

The CDFW maintains a list of species of special concern. These are broadly defined as species that are of concern to the CDFW because of population declines and restricted distributions, and/or they are associated with habitats that are declining in California. The criteria used to define special status species are described by the CDFW. Impacts to special status plants, animals, and sensitive natural communities may be considered significant under CEQA.

State Species of Special Concern include those plants and wildlife species that have not been formally listed yet are proposed or may qualify as endangered or threatened. In addition, USFWS Birds of Conservation Concern, and CDFW special status invertebrates are considered special status species by CDFW.



3.2.4 Sensitive Natural Communities

CDFW provides oversight of habitats (i.e., plant communities) listed as Sensitive in the California Natural Diversity Database (CNDDB) and on the California Sensitive Natural Communities List, based on global and state rarity rankings. The natural communities are broken down to alliance and association levels for vegetation types affiliated with ecological sections in California. The alliances on the California Sensitive Natural Communities List coincide with A Manual of California Vegetation (Sawyer et al. 2009). CDFW considers alliances and associations with a state rank of S1 to S3 to be Sensitive. The application of ranking for determination of Sensitive Communities is summarized as follows in Table 1 (NatureServe 2020):

Table 3.1 NatureServe Conservation Status Ranks

Name	Calculated Status Rank	Status Description
Score ≤ 1.5	G1, N1, S1	Critically Imperiled
1.5 ≤ Score ≤ 2.5	G2, N2, S2	Imperiled
2.5 ≤ Score ≤ 3.5	G3, N3, S3	Vulnerable
3.5 ≤ Score ≤ 4.5	G4, N4, S4	Apparently Secure
Score > 4.5	G5, N5, S5	Secure

3.2.5 California Fish and Game Code (FGC)

Natural Community Conservation Planning Act

The Natural Community Conservation Act (Sections 2800-2835 of the FGC, as amended) is administered by the CDFW through their Natural Community Conservation Planning (NCCP) program. The program involves broad-based conservation planning for regions (multispecies and multihabitat coverage that serve as an alternative to project-by-project mitigation), while allowing for compatible economic activity and development. The Act's conservation requirements are more stringent than existing state and federal requirements for mitigation, as it requires that plan preparers actively participate in the recovery of sensitive species and habitats (while conserving ecosystem function, biological diversity, and ecological integrity of habitats). NCCPs are developed in coordination with landowners, regulatory agencies (including the USFWS and NMFS, as appropriate), and environmental organizations. The purpose of NCCPs are to provide a clear framework for project proponents to avoid, minimize, and mitigate impacts to sensitive resources within the coverage area of the NCCP and allow for an adaptive management approach to conservation. NCCPs and HCPs are often combined into one planning document for particular geographic regions of California.

The Project Area, PSB, and Action Area do not overlap any existing NCCPs.

Native Plant Protection Act

The CDFW administers the Native Plant Protection Act (Sections 1900–1913 of the FGC). These sections allow the California Fish and Game Commission to designate endangered and rare plant species and to notify landowners of the presence of such species. Plant species on California Native Plant Society's (CNPS) California Rare Plant Ranking (CRPR) Lists 1 and 2 are considered



eligible for state listing as Endangered or Threatened pursuant to the California Fish and Game Code and CDFW has oversite of these special status plant species as a trustee agency. As part of the CEQA process, such species should be considered as they meet the definition of Threatened or Endangered under Sections 2062 and 2067 of the California Fish and Game Code. CRPR List 3 and 4 plants may warrant protection under CEQA Guidelines 15380 only in special circumstances. CDFW publishes and periodically updates lists of special status species which include, for the most part, the above categories. Additionally, there are 64 plant species designated as "rare" which is a special designation created before plants were rolled into CESA in the 1980s. The CESA and the Native Plant Protection Act (NPPA) required a project to have a "Scientific, Educational, or Management Permit" from CDFW for activities that would result in "take," possession, import, or export of state-listed plant species including research, seed banking, reintroduction efforts, habitat restoration, and other activities relating to any plant designated SE (State endangered), ST (State threatened), SR (State rare), or SC (State candidate for listing).

Birds of Prey and Native Nesting Birds

Sections 3503 and 3513 of the FGC prohibits the take, possession, or needless destruction of the nest or eggs of any bird. Subsection 3503.5 specifically prohibits the take, possession, or destruction of any birds in the orders Falconiformes (hawks and eagles) or Strigiformes (owls) and their eggs or nests. These provisions, along with the federal MBTA, essentially serve to protect nesting native birds. Non-native species, including the European Starling, Rock Dove, and House Sparrow, are not afforded protection under the MBTA or FGC.

Fully Protected Species

The CDFW enforces the FGC, which provides protection for "fully protected birds" (Section 3511), "fully protected mammals" (Section 4700), "fully protected reptiles and amphibians" (Section 5050), and "fully protected fish" (Section 5515). As fully protected species, the CDFW cannot authorize any project or action that would result in "take" of these species, even with an incidental take permit.

Migratory Bird Protection Act (MBPA)

The California Migratory Bird Protection Act (MBPA; FGC Section 3513, as amended) was introduced in the California State Assembly 2019 by Assembly Member Ash Kalra and cosponsored by the National Audubon Society. The text of the Act specifies that it is unlawful to take or possess any migratory nongame bird as designated in the federal Migratory Bird Treaty Act (16 USC 703-712) before January 1, 2017. This upholds the interpretation of the MBTA under Clinton's EO 13166, where "take" was defined as both "unintentional as well as intentional." Governor Gavin Newson signed the Act into law on September 27, 2019. The MBPA effectively closes the federal MBTA loophole on incidental take of migratory birds in California.

3.3 Local Jurisdiction

The City of Rialto municipal code contains several environmental regulations. However, only one potentially pertains to this Project (reprinted below from the municipal code; Municode 2021).



11.08.100 - Protection of Public Trees During Construction Work

"During the erection, repair, alteration or removal of any building house or structure in the city, no person in charge of such work shall leave any tree, in any street, park, parkway or public place of the city in the vicinity of such building or structure without such good and sufficient guards or protectors as shall prevent injury to such tree, arising out of or by reason of such erection, repair, alteration or removal" (Ord. 1081 § 1 (part), 1989).

4. Baseline Conditions

4.1 General Environmental Baseline within the PSB and Action Area

The Project is located within Rialto, California, an urban-residential community. Rialto is located approximately 50 miles east of Los Angeles and is bounded by San Bernardino National Forest Land to the north and Riverside County to the south. The Project Area, PSB, and Action Area are located in northeastern Rialto and bordered by Riverside Avenue to the north, Cedar Avenue to the east, Linden Avenue to the west, and Summit Avenue to the south. Property use surrounding the facility is primarily comprised of single-family residences, with the exception of a rock and gravel mine (Cemex Lytle Creek) and hydroelectric generating plant (Fontana Power House) to the north. Within the RRWF, there is no natural habitat; the site is completed developed and comprised of hardscape (pavement, buildings, retention ponds, and ornamental landscaping etc.). The proposed pipeline alignment, which runs from the RRWF to a water storage tank to the west, passes entirely through a residential neighborhood within a paved ROW. Habitat immediately adjacent is limited to landscaped front yards. The potential for sensitive biological resources to occur was investigated during the reconnaissance field survey (see Section 5.3.).

4.2 Topography and Soils

The elevation of the PSB and Action Area is approximately 1,505 feet, and topography is characterized by a generally flat landscape. Soils are alluvial in nature (part of a large alluvial fan that extends south of San Bernardino National Forest and east of Lytle Creek) (PZI, Inc. 2006). The Natural Resources Conservation Service (NRCS) reports the following soils from the Project vicinity: Tujunga gravelly loamy sand, 0 to 9 percent slopes; Soboba gravelly loamy sand, 0 to 9 percent slopes (NRCS 2021; Appendix E).

4.3 Habitat Elements

The PSB and Action Area are bordered by urban or industrial areas. High quality natural habitat of any kind is not present within the PSB and Action Area. Instead, available habitat includes landscaped residential yards or highly degraded empty lots. Existing habitat is not expected to support anything but the most urban-adapted species.



4.4 Habitat Access, Connectivity, and Migratory Corridors

The PSB and Action Area are located within the Pacific Flyway for migratory birds. However, no natural habitat exists that would support migratory species stopover use, breeding, or wintering within the PSB or Action Area. The Lytle Creek Wash and Cajon Washes (north of, but not within the Project Area, PSB, or Action Area) are mapped as a "essential connectivity area" identified in the California Essential Habitat Connectivity Project (CDFW 2021a). It is assumed that many taxonomic groups move through the landscape within these washes. However, there are no movement corridors that would funnel species specifically through the Project Area, PSB, or Action Area.

4.5 Hydrology and Climate

The PSB and Action Area are located within the Lytle Creek watershed. The watershed is within the Upper Santa Ana River Basin. There is an unnamed drainage located just east of the PSB and Action Area (on the north side of North Riverside Avenue). Lytle Creek is located east of this drainage feature (not mapped as hydrologically connected, based on the USGS 24K topo map) (USGS 2018). The Lytle Creek Wash and Cajon Wash meet at the confluence with Lytle Creek (to the southeast of the PSB and Action Area). Lytle Creek is a tributary to the Santa Ana River (confluence near Colton) (Palencia and Starr 2018). The only hydrological features present with the PSB and Action are retention ponds associated with the RWFF.

The climate of the Project region is considered Mediterranean, with hot, dry summers and warm, wet winters. Average annual min and max temperatures range from 48.2 degrees (°) Fahrenheit (F) to 79.9 ° F, respectively. The region receives an average of 16.12 inches of precipitation (which falls as rain) (WRCC 2004).

5. Methods

5.1 Project Area, Project Study Boundary, and Action Area

Investigations were conducted at various spatial scales to meet the requirements of both CEQA and Section 7 of the ESA. For federally listed species, the Project was evaluated at the level of the ESA Action Area (as defined in Section 2.8). For state special status wildlife species, the Project was evaluated at the level of the PSB (as defined in Section 2.9). For state special status plant species and Sensitive Natural Communities, the Project was evaluated at the level of the Project Area (as defined in Section 2.7).

5.2 Preliminary Investigation

5.2.1 Database Searches (CNDDB, CNPS, IPaC, and NMFS)

A database search for sensitive plant and wildlife species that may occur in the Project vicinity was conducted by GHD on April 8, 2021. Database searches included the CNDDB (CDFW 2021a), CNPS Inventory of Rare and Endangered Vascular Plants (CNPS 2021), USFWS Information for Planning and Conservation (IPaC; USFWS 2021b), and the NOAA Fisheries West Coast Region



California Species List Tools (NOAA Fisheries 2021). The search encompassed the U.S. Geological Survey (USGS) quadrangle (quad) centered on the Project Area (Devore). In addition, citizen science databases were reviewed for additional local wildlife and botanical information (BAMVT 2021, Bumble Bee Watch 2021, eBird 2021, iNaturalist 2021).

Plant species on CNPS CRPR Lists 1 and 2 are considered eligible for state listing as endangered or threatened pursuant to the California Fish and Game Code. The CDFW has oversite of these special status plant species as a trustee agency. As part of the CEQA process, such species should be considered as they meet the definition of threatened or endangered under Sections 2062 and 2067 of the California Fish and Game Code. Scoping for special status plant species included any state or federally listed plants as well as plant species on CNPS CRPR Lists 1 and 2. These database searches are included in Appendix B.

5.2.2 National Wetlands Inventory (NWI)

A search of the USFWS NWI was conducted on April 12, 2021 for the immediate Project vicinity. The NWI mapping for the Project can be found in Appendix D.

5.3 Field Surveys

5.3.1 Special Status Plants

No surveys for special status plants were conducted prior to document preparation. A botanist would typically conduct seasonally appropriate floristic surveys for special status plants prior to Project-related ground disturbance. However, considering the complete lack of natural habitat present within the Project Area, floristic surveys are not recommended at this time.

5.3.2 Sensitive Natural Communities (SNCs)

SNCs were assessed during the reconnaissance level Project field survey on March 2, 2021 (primarily through binoculars), as complete pedestrian access to the Project Area was not available during this time. See Section 6.3 for survey results in regards to SNCs.

5.3.3 Wetland Methods

No formal wetland delineation or aquatic resources survey has been conducted to date for the project. However, the reconnaissance level survey generally investigated the potential presence for aquatic resources.

5.3.4 Reconnaissance Level Survey and Habitat Evaluation Methods

A reconnaissance-level biological field survey was conducted by Genevieve Rozhon, GHD Wildlife Biologist (hereafter surveyor), on March 2, 2021 from 1100 to 1300. Weather was sunny, in the mid 70s (degrees Fahrenheit), with winds less than 5 miles per hour (Beaufort scale 1 to 2). The surveyor headed west along W Via Bello drive, investigating the pipeline alignment to the WVWD water tanks at the termination of the road. The surveyor then examined the alignment along Linden Avenue and the pipeline crossing through "open space" (overgrown grassy field) to the east. Finally, the surveyor investigated the perimeter of the RWFF (access to the RWFF was not available at this time) from N Riverside Avenue, N Cedar Avenue, and Summit Avenue.



The survey methods were intended to identify sensitive habitat and detect wildlife activity. Where the habitat allowed the surveyor to walk without risk of damaging nests or dens and surrounding vegetation, the survey included a physical search of the area. This included inspecting the ground, shrubs, culverts, holes, etc. for the presence of any wildlife species. Additionally, the ground layer under vegetation was inspected for evidence of wildlife species, such as feathers, pellets, whitewash, scat, tracks, etc. This reconnaissance-level survey was conducted to identify general wildlife resources and habitat in the PSB and Action Area. No protocol-level surveys for special status wildlife were conducted at this time.

5.3.5 Agency Coordination

Official species lists for the Project 24k quadrangle (Devore) were obtained from the USFWS and NMFS. No further agency coordination has occurrence at this time.

6. Results

6.1 Summary of General Biological Resources

Based on occurrence records, field surveys, and habitat availability, no special status plants, no SNCs, and no jurisdictional aquatic resources have potential to occur to occur in the Project Area or PSB. In addition, no special status wildlife species have potential to occur in the Project Area, PSB, or Action Area, as described further below. However, common, urban-adapted species may occur (but are not addressed herein).

6.2 Special Status Plants

6.2.1 Federally listed Plant Species

Five federally listed plant species (four endangered, and one threatened) that are regulated by the USFWS under the ESA were identified as being previously recorded within the vicinity of the Project Area (i.e., within the 1 quad search area): slender-horned spineflower (*Dodecahema leptoceras*; endangered), Santa Ana River woollystar (*Eriastrum densifolium* ssp. *sanctorum*; endangered), Gambel's watercress (*Rorippa gambellii*; endangered), San Diego ambrosia (*Ambrosia pumila*; endangered), and thread-leaved brodiaea (*Brodiaea filifolia*: threatened). None of these records overlapped with the Project Area or occurred in the immediate Project vicinity (nearest occurrences all associated with SNCs around washes/water features such as Riversidian Alluvial Fan Sage Scrub, and many occurrences historical/believed extirpated). All of these species were excluded from further consideration based on a lack of suitable habitat within the Action Area.

6.2.2 California State Listed or Special Status Plant Species

A total of ten plant species protected by CDFW under the CESA or the FGC were identified during scoping in the vicinity of the Project Area (i.e., within the 1 quad search area). Two of these species are listed as endangered under CESA (i.e., slender-horned spineflower and Santa Ana River woollystar; also federally listed as described above). The remaining eight species are rare plants (rank 1 and 2) tracked by the CNDDB or CNPS.



None of these records overlapped with the Project Area or were documented in the immediate Project vicinity (i.e., nearest occurrences all associated with SNCs around washes/water features such as Riversidian Alluvial Fan Sage Scrub, and many occurrences historical/believed extirpated). These species were deemed to have no potential to occur in the Project Area (which is comprised almost entirely of hardscape) based on the lack of potential habitat and are excluded from further consideration. See Appendix B for database search results.



6.3 Sensitive Natural Communities and Environmentally Sensitive Habitat Area Mapping

Three SNCs have been documented in the vicinity of the Project Area (i.e., within the 1 quad search area): Southern Riparian Forest, Southern Sycamore Alder Riparian Woodland, and Riversidian Alluvial Fan Sage Scrub (see Appendix B). Their potential to occur in the Project Area was visually assessed during the site visit on May 2, 2021. The Project Area is almost entirely developed, with no remaining natural habitat. No SNCs were observed during the site visit and there is no potential for occurrence based on existing habitat.

6.4 Wetlands

The National Wetlands Inventory (NWI) identified freshwater ponds within the Project Area (i.e., the retention ponds at the RWFF) (**Appendix D**). Under the Navigable Waters Protection Rule (85 FR 22250), retention ponds are currently not considered Waters of the US and are not jurisdictional. No other aquatic resources are mapped within the Project Area or PSB, and none were observed during the reconnaissance level survey.

6.5 Special Status Wildlife

6.5.1 Wildlife Reconnaissance Survey and Habitat Evaluation Results

The Project is primarily surrounded by residential single-family homes (with some industrial areas to the northeast; sand and gravel mining). No remaining natural or high-quality habitat exists in the immediate Project vicinity. Vegetation is limited to landscaped lawns within the residential areas, ornamental trees around the RWFF, and weedy roadside vegetation. This is the case in terms of the "open space" just to the west of the RWFF; based on aerial imagery, this area contains dirt roads and appears to have been used as a stockpile/staging area in the recent past and potentially as retention pond areas in the early 2000s. The area is now dominated by non-native, disturbance-loving weedy species. Ornamental trees and structures such as buildings in the Project Area and PSB may provide some nesting habitat for common avian species protected under the MBTA and FGC. However, no habitat suitable for special status species is present. See photos of the Project vicinity in Appendix C.

6.5.2 Federally listed Wildlife Species

The following ten federally listed wildlife species (including eight endangered and two threatened) that are regulated by the USFWS under the ESA were identified during scoping in the vicinity of the Action Area (i.e., the 1-quad search area): Stephens' Kangaroo Rat (*Dipodomys stephensi* [incl. *D. cascus*]; endangered), San Bernardino Kangaroo Rat (*Dipodomys merriami parvus*; endangered), California Condor (*Gymnogyps californianus*; endangered), Southwestern Willow Flycatcher (*Empidonax traillii extimus*; endangered), Least Bell's Vireo (*Vireo bellii pusillus*; endangered), coastal California gnatcatcher (*Polioptila californica californica*; threatened), Arroyo (=arroyo Southwestern) Toad (*Anaxyrus californicus*; endangered), Southern Mountain Yellow-Legged Frog (*Rana muscosa*; endangered), San Gabriel Slender Salamander (*Batrachoseps gabrieli*), Santa Ana Sucker (*Catostomus santaanae*; threatened), and Delhi Sands Flower-loving Fly (*Rhaphiomidas terminatus*)



abdominalis; endangered). Occurrences of these species (if any) from the Project vicinity were clustered around the nearby Lytle Creek and Cajon washes or on San Bernardino National Forest property (i.e., where natural habitat still occurs in the Project vicinity). The San Bernardino Kangaroo Rat occurrences in the vicinity were notable in that they are recent and close (i.e., just northeast of the Action Area, on the northeast side of North Riverside Avenue, where suitable habitat, including federally designated critical habitat exists) (CDFW 2021a).

Many of these federally listed species occurrences were flagged as historical/believed extirpated due to intense development in the Project vicinity over the last few decades. No federally listed wildlife records occurred within the Action Area itself. Based on the reconnaissance site visit conducted on March 2, 2021, and a database and literature review, it was determined that the Action Area does not provide suitable habitat for any of these species. These species are excluded from further consideration and further analysis of Project effects to ESA-listed is not included in this document

6.5.3 California State Listed or Special Status Wildlife Species

Seven state listed or candidate wildlife species (including four endangered, one threatened, and two candidate species) that are regulated by the CDFW under the CESA were identified during scoping in the vicinity of the PSB (i.e., the 1-quad search area). These include the Crotch Bumble Bee (*Bombus crotchii;* state candidate), as well as the following species described above in Section 6.5.2 (which are also state listed or state candidates for listing): San Bernardino Kangaroo Rat, Stephens' Kangaroo Rat, Least Bell's Vireo, California Condor, Southwestern Willow Flycatcher, and Southern Mountain Yellow-Legged Frog. In addition, occurrences for 13 other wildlife species with special state protections (or tracked via the CNDDB) were identified within the 1-quad search area.

The majority of these occurrences were from the nearby Lytle Creek and Cajon washes or San Bernardino National Forest property (i.e., where natural habitat still occurs in the Project vicinity). Many of these occurrences were flagged as historical/believed extirpated due to intense development in the Project vicinity over the last few decades. No special status wildlife records occurred within the Project Area or PSB. All of these species were excluded from analysis due to the lack of suitable habitat (or the fact the that Project Area and PSB are outside the current range of these species). See Appendix B for a full list of all special status species considered during scoping.

6.6 Critical Habitat

There is no designated critical habitat within the Project Area (area of construction disturbance, as defined in Section 2.3) or Action Area. However, the Action Area (area of all potential effects, as defined in Section 2.4) is located approximately 50 feet southwest of critical habitat for the San Bernardino Merriam's Kangaroo Rat (see Appendix A, Figure 6).

Critical habitat was designated for San Bernardino Merriam's Kangaroo Rat, effective November 17, 2008. Critical habitat includes primarily washes and alluvial fans in San Bernardino and Riverside counties.

6.7 Limitations That May Influence Results

Conclusions for this BRE were drawn from historic surveys and studies, as well as web-based sensitive species database and literature searches. No protocol-level surveys or studies were



conducted to determine the presence or absence of listed species within the PSB or Action Area; only a relatively brief reconnaissance-level site visit. As historic studies/surveys may not accurately reflect actual occurrence of species presence in the Project vicinity at this time, conclusions have been based more on the assumption of their presence or non-presence given existing habitat in the PSB and Action Area, and impact minimization measures have been developed accordingly. In addition, all determinations herein were based on the current Project footprint (Appendix A, Figures 2 and 3) and proposed Project description. If the Project footprint or construction methods change significantly prior to Project implementation, determinations herein would need to be revisited, to ensure that they are still accurate.

7. Future Actions

7.1.1 Reasonably Foreseeable Potential Non-Federal Actions

There are no known, reasonably certain to occur, non-federal actions proposed within the Action Area, with the exception of routine RWFF maintenance and potential future facility upgrades and expansions.

7.1.2 Reasonably Foreseeable Potential Federal Actions

No foreseeable potential federal actions are expected or known for the Action Area at this time.

8. Recommended Avoidance and Minimization Measures

8.1 Proposed Avoidance and Minimization Measures

Potential impacts (if any) would be addressed in detail in CEQA and NEPA environmental compliance documents and associated permit applications. Project activities are localized and temporary and are not expected to result in any long term or significant impacts to sensitive biological resources. No impacts to plants, SNCs, or special status wildlife are expected. However general Best Management Practices are recommended.

8.1.1 General

8.1.1.1 Best Management Practice (BMPs)

Silt fences and other erosion control measures shall be deployed along construction areas to
prevent any sediment from leaving the site. If the silt fences are not adequately containing
sediment, construction activity shall cease until remedial measures are implemented.

8.1.2 Plants

Due to a lack of natural habitat within the Project Area, no pre-construction rare plant surveys are proposed at this time.



8.1.3 Wildlife

8.1.3.1 Nesting Birds

There is potential for common avian species, protected under the MBTA and FGC to nest in the PSB. Potential Project impacts to special status birds during construction may include visual disturbance, habitat destruction, and noise disturbance. The following measures are proposed to avoid potential impacts.

- Ground disturbance and vegetation clearing shall be conducted, if possible, during the fall and/or winter months and outside of the avian nesting season (generally March 1 August 30 in southern California) to avoid any direct effects to protected birds. If ground disturbance cannot be confined to work outside of the nesting season, a qualified ornithologist shall conduct pre-construction surveys within the vicinity of the Project Area, to check for nesting activity of native birds and to evaluate the site for presence of raptors and special status bird species. The ornithologist shall conduct at minimum a one-day pre-construction survey within the 7-day period prior to vegetation removal and ground-disturbing activities. If ground disturbance or vegetation removal work lapses for seven days or longer during the breeding season, a qualified ornithologist shall conduct a supplemental avian pre-construction survey before Project work is reinitiated.
- If active nests are detected within the construction footprint or up to 500 feet from construction activities, the ornithologist shall flag a buffer around each nest (assuming property access). Construction activities shall avoid nest sites until the ornithologist determines that the young have fledged or nesting activity has ceased. If nests are documented outside of the construction (disturbance) footprint, but within 500 feet of the construction area, buffers would be implemented as needed (buffer size dependent on species). Buffer sizes for common species would be determined on a case-by-case basis in consultation with the CDFW and, if applicable, with USFWS. Buffer sizes would take into account factors such as (1) noise and human disturbance levels at the construction site at the time of the survey and the noise and disturbance expected during the construction activity; (2) distance and amount of vegetation or other screening between the construction site and the nest; and (3) sensitivity of individual nesting species and behaviors of the nesting birds.
- If active nests are detected during the survey, the qualified ornithologist shall monitor all nests at least once per week to determine whether birds are being disturbed. Activities that might, in the opinion of the qualified ornithologist, disturb nesting activities (e.g., excessive noise), shall be prohibited within the buffer zone until such a determination is made. If signs of disturbance or distress are observed, the qualified ornithologist shall immediately implement adaptive measures to reduce disturbance. These measures may include, but are not limited to, increasing buffer size, halting disruptive construction activities in the vicinity of the nest until fledging is confirmed or nesting activity has ceased, placement of visual screens or sound dampening structures between the nest and construction activity, reducing speed limits, replacing and updating noisy equipment, queuing trucks to distribute idling noise, locating vehicle access points and loading and shipping facilities away from noise-sensitive receptors, reducing the number of noisy construction activities occurring simultaneously, and/or



reorienting and/or relocating construction equipment to minimize noise at noise-sensitive receptors.

9. Effects Determinations

This BRE has been prepared in compliance with Section 7(c) of the ESA to evaluate the potential adverse effects of the proposed action on federally listed endangered or threatened species. The proposed Project is described in Section 2. Of the 15 federally listed species with potential to occur in the Action Area (five plants and 10 wildlife species), all were excluded from further analysis due to the lack of suitable habitat in the Action Area and/or because the Action Area lies outside of the species' known current geographic range.

9.1 ESA Listed Species Determinations

The Project would have no effect on the following species:

- Stephens' Kangaroo Rat
- San Bernardino Kangaroo Rat
- Southwestern Willow Flycatcher
- · Coastal California Gnatcatcher
- California Condor
- · Least Bell's Vireo
- Arroyo (=arroyo Southwestern) Toad
- Southern Mountain Yellow-Legged Frog
- Santa Ana Sucker
- Delhi Sands Flower-loving Fly
- · slender-horned spineflower
- Santa Ana River woollystar
- · Gambel's watercress
- San Diego Ambrosia
- Thread-leaved Brodiaea

9.2 Critical Habitat Determinations

The Project would have no effect on federally designated critical habitat for any wildlife or plant species.



10. Conclusion

Based on the analysis herein:

- The Project would result in no impacts to terrestrial or aquatic wildlife movement, habitat
 connectivity, or migration. Construction would be of short-term duration and no permanent barriers
 would be constructed. Migration routes would not be impacted by operation of the Project. No
 impacts to aquatic habitat connectivity and migration for fish species is expected as no in-water
 work would occur.
- The Project does not conflict with any local policies or ordinances and the Project does not overlap any existing HCPs or NCCPs.
- No potential Project impacts on any plant or wildlife species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS are expected. Impacts to common avian species, protected under the MBTA and FGC would be avoided with implementation of measure 8.1.3.1. described above.
- The proposed Project would have no effect on any federally listed species identified during Project scoping. The proposed Project would have no effect on designated critical habitat. Further consultation under the ESA is not required.
- Seasonally appropriate floristic surveys are not proposed at this time due to the lack of natural habitat present in the Project Area.
- No impacts to SNCs are expected as none are present in the Project Area.
- No aquatic resources were documented within the Project Area and no impacts are expected.

Given this evaluation, the Project is expected to have no effect on sensitive biological resources.



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12. List of Preparers

Prepared by:

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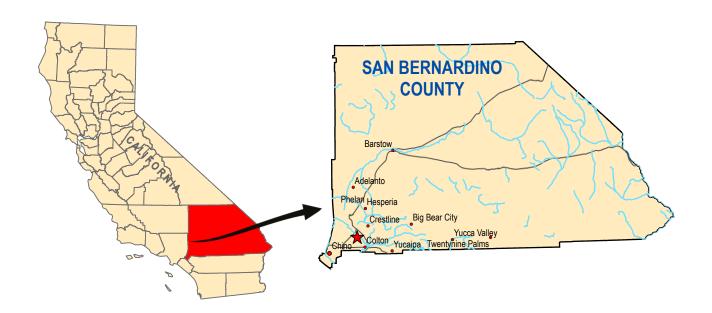
Haley Cahill, Environmental Planner, GHD Inc., Santa Rosa, CA

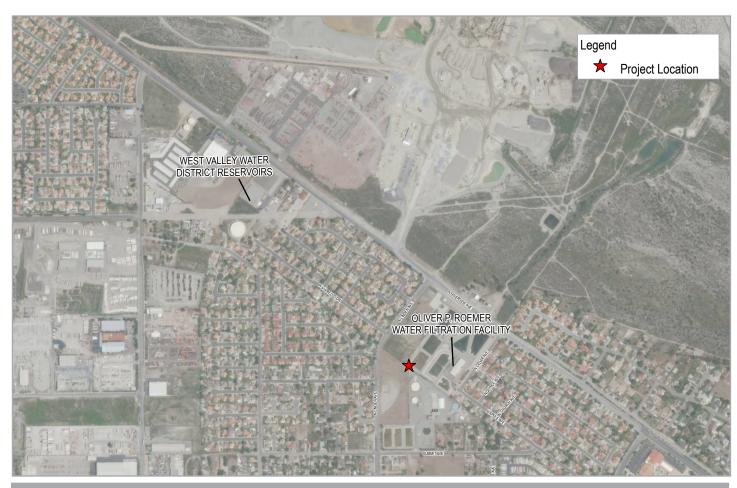


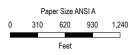
Appendices



Appendix A Figures







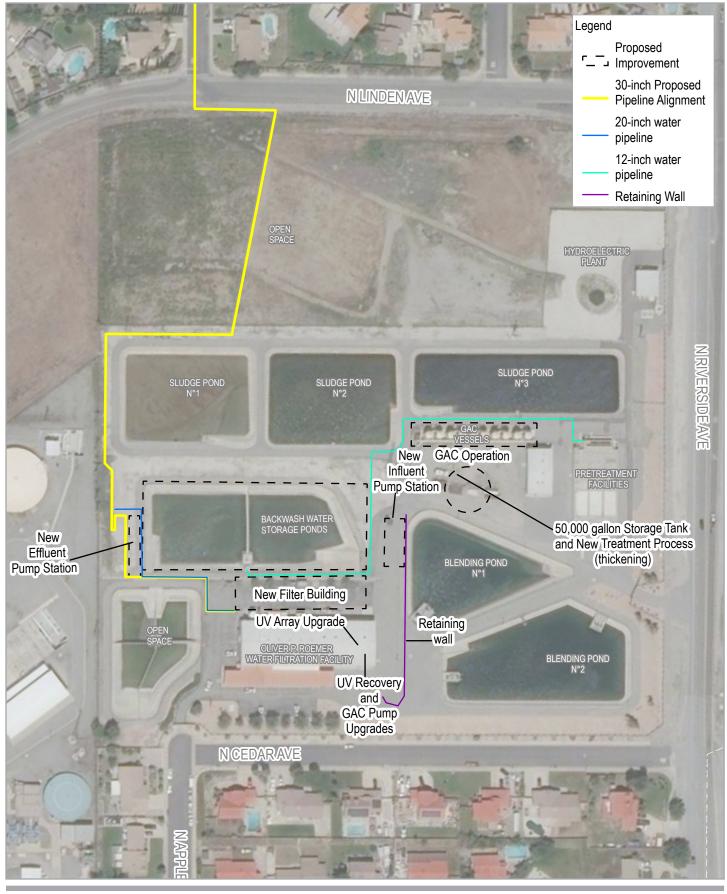


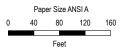


WEST VALLEY WATER DISTRICT 16 MGD OLIVER P. ROEMER WATER FILTRATION FACILITY EXPANSION PROJECT

Project No. 11214029
Revision No. Date 3/5/2021

PROJECT LOCATION







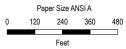
WEST VALLEY WATER DISTRICT

16 MGD OLIVER P. ROEMER WATER FILTRATION
FACILITY EXPANSION PROJECT

PROPOSED IMPROVEMENTS
WITHIN THE RWFF

Project No. 11214029 Revision No. -Date 3/12/2021









WEST VALLEY WATER DISTRICT

16 MGD OLIVER P. ROEMER WATER FILTRATION
FACILITY EXPANSION PROJECT

Project No. 11214029
Revision No. -

Date 2/26/2021

PROPOSED PIPELINE ALIGNMENT



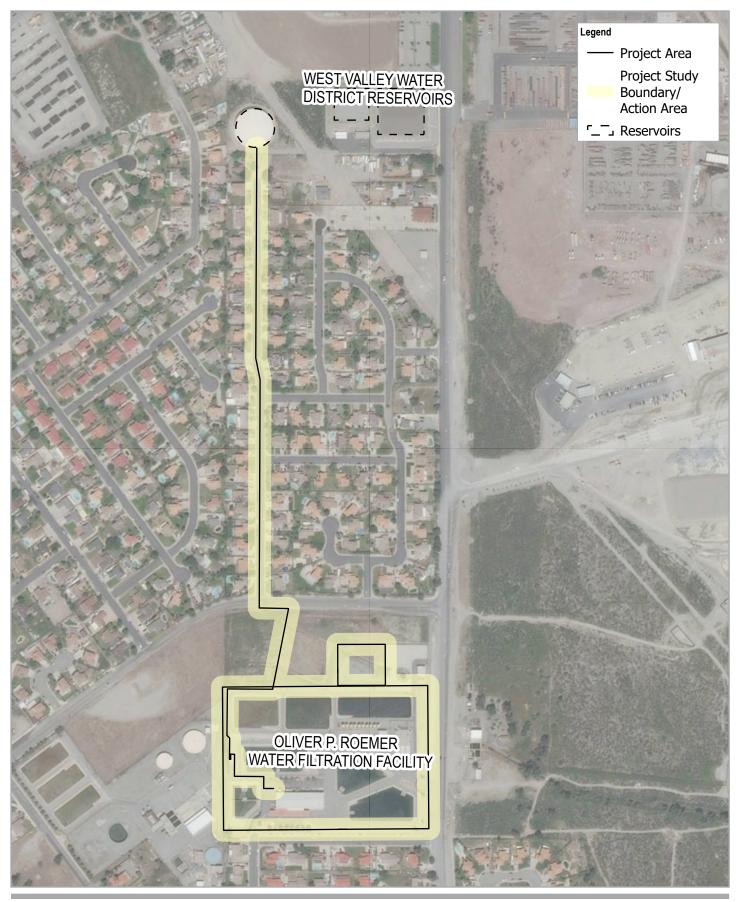


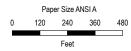


WEST VALLEY WATER DISTRICT 16 MGD OLIVER P. ROEMER WATER FILTRATION **FACILITY EXPANSION PROJECT**

Project No. 11214029 Revision No. Date 4/12/2021

PROJECT AREA

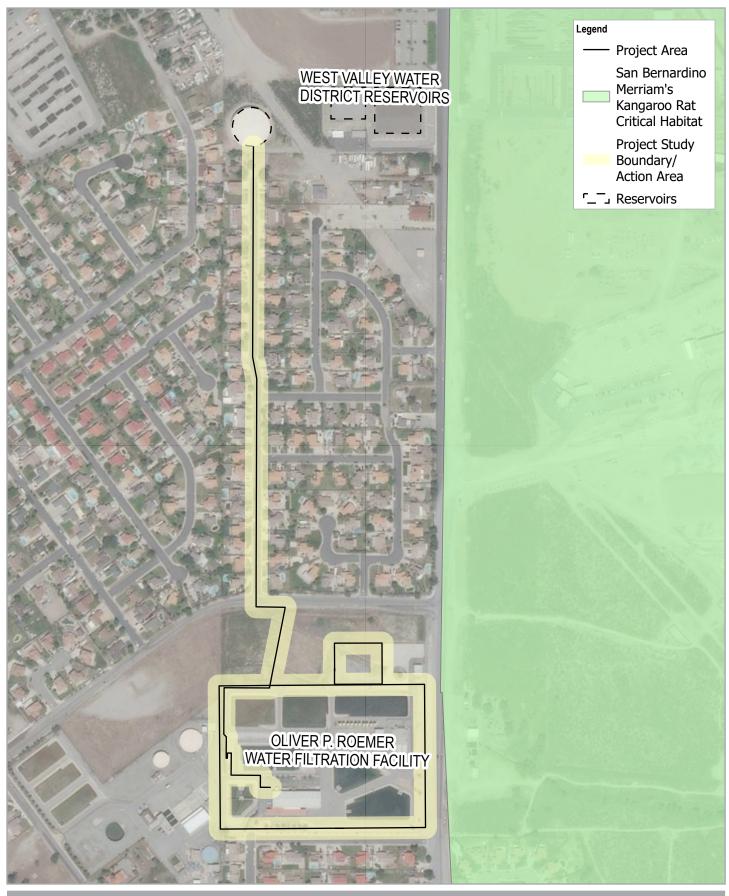


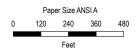




WEST VALLEY WATER DISTRICT 16 MGD OLIVER P. ROEMER WATER FILTRATION FACILITY EXPANSION PROJECT

PROJECT STUDY BOUNDARY / ACTION AREA Project No. 11214029 Revision No. -Date 4/9/2021







WEST VALLEY WATER DISTRICT
16 MGD OLIVER P. ROEMER WATER FILTRATION
FACILITY EXPANSION PROJECT

SAN BERNARDINO MERRIAM'S KANGAROO RAT CRITICAL HABITAT

Project No. 11214029 Revision No. -Date 4/12/2021



Appendix B CNDDB, CNPS, IPaC, and NMFS Database Search Results



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Carlsbad Fish And Wildlife Office 2177 Salk Avenue - Suite 250 Carlsbad, CA 92008-7385 Phone: (760) 431-9440 Fax: (760) 431-5901

http://www.fws.gov/carlsbad/

In Reply Refer To: April 08, 2021

Consultation Code: 08ECAR00-2021-SLI-0844

Event Code: 08ECAR00-2021-E-01891

Project Name: WEST VALLEY WATER DISTRICT 16 MGD OLIVER P. ROEMER WATER

FILTRATION FACILITY EXPANSION PROJEC

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, and proposed species, designated critical habitat, and candidate species that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan

(http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Carlsbad Fish And Wildlife Office 2177 Salk Avenue - Suite 250 Carlsbad, CA 92008-7385 (760) 431-9440

Project Summary

Consultation Code: 08ECAR00-2021-SLI-0844 Event Code: 08ECAR00-2021-E-01891

Project Name: WEST VALLEY WATER DISTRICT 16 MGD OLIVER P. ROEMER

WATER FILTRATION FACILITY EXPANSION PROJEC

Project Type: WASTEWATER FACILITY

Project Description: TBD

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@34.1879263,-117.43681266868609,14z



Counties: San Bernardino County, California

Endangered Species Act Species

There is a total of 14 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an
office of the National Oceanic and Atmospheric Administration within the Department of
Commerce.

Mammals

NAME

San Bernardino Merriam's Kangaroo Rat *Dipodomys merriami parvus*There is **final** critical habitat for this species. Your location overlaps the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/2060

Stephens' Kangaroo Rat *Dipodomys stephensi (incl. D. cascus)*No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/3495

Endangered

Endangered

Birds

NAME STATUS

California Condor *Gymnogyps californianus*

Endangered

Population: U.S.A. only, except where listed as an experimental population

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: https://ecos.fws.gov/ecp/species/8193

Coastal California Gnatcatcher Polioptila californica californica

Threatened

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: https://ecos.fws.gov/ecp/species/8178

Least Bell's Vireo Vireo bellii pusillus

Endangered

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: https://ecos.fws.gov/ecp/species/5945

Southwestern Willow Flycatcher Empidonax traillii extimus

Endangered

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: https://ecos.fws.gov/ecp/species/6749

Amphibians

NAME STATUS

Arroyo (=arroyo Southwestern) Toad *Anaxyrus californicus*

Endangered

There is **final** critical habitat for this species. Your location overlaps the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/3762

Fishes

NAME STATUS

Santa Ana Sucker Catostomus santaanae

Threatened

Population: 3 CA river basins

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: https://ecos.fws.gov/ecp/species/3785

Insects

NAME STATUS

Delhi Sands Flower-loving Fly Rhaphiomidas terminatus abdominalis

Endangered

No critical habitat has been designated for this species.

Species profile: https://ecos.fws.gov/ecp/species/1540

Flowering Plants

NAME STATUS

Gambel's Watercress Rorippa gambellii

Endangered

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4201

San Diego Ambrosia Ambrosia pumila

Endangered

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: https://ecos.fws.gov/ecp/species/8287

Santa Ana River Woolly-star Eriastrum densifolium ssp. sanctorum

Endangered

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6575

Slender-horned Spineflower *Dodecahema leptoceras*

Endangered

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4007

Thread-leaved Brodiaea Brodiaea filifolia

https://ecos.fws.gov/ecp/species/2060#crithab

Threatened

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: https://ecos.fws.gov/ecp/species/6087

Critical habitats

There are 2 critical habitats wholly or partially within your project area under this office's jurisdiction.

NAME
Arroyo (=arroyo Southwestern) Toad *Anaxyrus californicus*https://ecos.fws.gov/ecp/species/3762#crithab

San Bernardino Merriam's Kangaroo Rat *Dipodomys merriami parvus*Final

From: <u>Genevieve Rozhon</u>

To: nmfswcrca.specieslist@noaa.gov

Bcc: 849999999

Subject: NMFS official species list - West Valley Water District 16 Mgd Oliver P. Roemer Water Filtration Facility Expansion

Project

Date: Thursday, April 8, 2021 1:53:00 PM

Attachments: <u>image001.png</u>

image002.png image003.png image004.png image005.png

Hello there,

I am emailing to request an official NMFS species list for the Devore 7.5" Quadrangle for the West Valley Water District 16 Mgd Oliver P. Roemer Water Filtration Facility Expansion Project in Rialto, California. Thank you in advance for your time.

Non-federal agency name and address: GHD Inc., 718 Third Street, Eureka, CA 95501 Contact: Genevieve Rozhon, <u>Genevieve.rozhon@ghdcom</u>, 650-773-9881

Quad Name **Devore**

Quad Number **34117-B4**

ESA Anadromous Fish

SONCC Coho ESU (T) -

CCC Coho ESU (E) -

CC Chinook Salmon ESU (T) -

CVSR Chinook Salmon ESU (T) -

SRWR Chinook Salmon ESU (E) -

NC Steelhead DPS (T) -

CCC Steelhead DPS (T) -

SCCC Steelhead DPS (T) -

SC Steelhead DPS (E) -

CCV Steelhead DPS (T) -

Eulachon (T) -

sDPS Green Sturgeon (T) -

ESA Anadromous Fish Critical Habitat

SONCC Coho Critical Habitat -

CCC Coho Critical Habitat -

CC Chinook Salmon Critical Habitat -

CVSR Chinook Salmon Critical Habitat -

SRWR Chinook Salmon Critical Habitat -

NC Steelhead Critical Habitat -

CCC Steelhead Critical Habitat -

SCCC Steelhead Critical Habitat -

SC Steelhead Critical Habitat -

CCV Steelhead Critical Habitat -

Eulachon Critical Habitat -

sDPS Green Sturgeon Critical Habitat -

ESA Marine Invertebrates

Range Black Abalone (E) -

Range White Abalone (E) -

ESA Marine Invertebrates Critical Habitat

Black Abalone Critical Habitat -

ESA Sea Turtles

East Pacific Green Sea Turtle (T) -

Olive Ridley Sea Turtle (T/E) -

Leatherback Sea Turtle (E) -

North Pacific Loggerhead Sea Turtle (E) -

ESA Whales

Blue Whale (E) -

Fin Whale (E) -

Humpback Whale (E) -

Southern Resident Killer Whale (E) -

North Pacific Right Whale (E) -

Sei Whale (E) -

Sperm Whale (E) -

ESA Pinnipeds

Guadalupe Fur Seal (T) -

Steller Sea Lion Critical Habitat -

Essential Fish Habitat

Coho EFH -

Chinook Salmon EFH -

Groundfish EFH -

Coastal Pelagics EFH -

Highly Migratory Species EFH -

MMPA Species (See list at left)

ESA and MMPA Cetaceans/Pinnipeds

See list at left and consult the NMFS Long Beach office 562-980-4000

MMPA Cetaceans -

MMPA Pinnipeds -

GENEVIEVE ROZHON, M.Sc.

Wildlife Biologist, Project Manager

GHD

Proudly employee owned | ghd.com/naturalresources

Physical Office Address – 718 3rd Street, Eureka, CA 95501 USA
Office Mailing Address – PO Box 1010, Eureka, CA 95502 USA
D +1 707 267 2298 M +1 650 773-9881 E genevieve.rozhon@ghd.com

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Appendix B. CNPS 1-Quad Database Search (Devore); 04/08/202 Scientific Name Common Name Family Lifeform Micro Elevation Elevation Elevation Elevation Elevation High (m) Low (m) Low (ft) High (m) High (ft) Endemic onym Element USDA Flora CBR Date Added Code PLANTS Status Reason Ctay Mourtain (3211657), Chay Mesa (3211657), Chay Mesa (3211657), Jamul Mourtains (3211667), Jamul Mourtains (3211678), Decaratio (3211678), Pask (3211761), Pask (3211761), La Mesa (3211771), La Mesa (3211771), La Mesa (3211771), La Mesa (3211771), Mesa (3311651), Pask (3311675), Sallona (3311675), Sallona (3311675), Sallona (3311675), Sallona (3311675), Sallona (3311676), Devote (3311676), Devote (3411776), Devote (3411776), Devote Ambrosia monogyra lewhorl obrush AZ, BA, RIV, NM, NV, SBD, SO, TX SDG Ambrosia monogyra Torr, & Grav maintenance and non-native plants. See Hymenoclea monogyra in TJM (1993). See Madrono 49: 143 (2002) for taxonomic treatment. Chaparral, Cismontane woodland, Coastal scrub Lower mortane coniferous forest, Valley and footbill grassland LOCAL STATES, AND ADMINISTRATION OF THE PROPERTY OF THE PROPER Previously on Calochortus plummerae more common than originally known.
Threatened by development, fire Plummer's mariposa lily PMLILOD CAPL2 150 suppression, foot traffic, mining, powerline construction, and recreasional activities. Possibly threatened by vegetation clearing, code colecting, road maintenance, and non-native plants. Less common at higher elevations. with C. wedst

Threatment of the Chronizament Chaparral, sandy or Cismontane rocky, woodland, Coastal scrub, Valley and foothill grassland PDPGN0 C 1/1994 Chorizanthe xanti white-bracted Polygonaceae annual 1B.2 var. leucotheca spineflower PDPGN0 CHXAL 40Z1 1/1/1994 Dodecahema leptoceras Dodecahema Centroste PDPGN0 DOLE gla V010 Hardham , Chortrost Many historical occurrences lost to urbanization and stream and stream channels and or currently with a stream and stream from the stream and s

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Augiare Gouthern California B seathern California B seathern B sea	Aughandaceae	potential 42 decidance	G4 84 Nort	e None Mar	e-Aug Chaparral, Cismotane woodland, no. organisms, no. fispartan woodland	50 Solutional	160 900	2995 T	U.X. ORA, RW, SBA, SBA, SBA, VEN	(2411541) Simon Paula and (2411742), Analysis of California (2411742), Analysis of California (2411742), Periodo Dam (2411742), Periodo (241					Viralux formed against a such a such as a such	Jugiene POJASEO JAICA Galfonic 2000 a nome a	57/7894	7/23/2015
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Monardalla saxicola	rock monardella	Lamiaceae	perennial rhizomato us herb		G3	S3	None	None		Closed-cone coniferous forest, Chaparral, Lower mortane coniferous forest	rocky, usually serpentini te	500	1640	1800	5905	T		LAX, SBD	Devore (3411724), Mt. Baldy (3411726)												8	development and road maintenance. Possibly threatened by mining and recreational	Monardella saxicola	Monardel a viridis ssp. saxicola	PDLAM1 80Q1	MOVISA	1	1/1/1974	4/27/2012
Opurate basilastic var. brachyclada	short-joint beavertail	Cactaceae	perennial stem succulent	18.2	G5T3	\$3	None	None	Jun(Aug)	Chaparral, Joshus tree woodland, Mojavean desert sonul, Plinyor and jariper woodland woodland		425	1390	1800	5905	ī			Colon Well (241156), Devore (241176), Devore (241176), Devore (241176), Lisle Armonisad (241176), Lisle (241176), Lisle (241176), Lisle (241176), Devore (241176), Devore (241176), Devore (241176), Devore (241176), Devore (241176), Bearly (24117	199	13	22	28	5	0	131	58	141	199	0		activities Threatened by urbanization, mining, horticultural collecting, grazing, and	basilaris Engelm. & Bigel. var. brachyclada (Griffiths) Munz		PDCACC D063	OPBAB		1/1/1980	10/12/2011
Senecis astophanus	San Gabriel ragwort	Asteraceae	perennial herb	4.3	G3	53	None	None	May-Jul	Coastal bluff south, Chaparral	rocky slopes	400	1310	1500	4920	ī		KRN, LAX, MNT, SBA, SBD, SDG, SLO	Vall Labs (Fost) Fals (1411) (1	See Pittoria 1: 174 (Issue) for original description	Senecio asseptianus Greene		PDAST8 H090	SEAS2		12/21/2006	2452012
Stephenthus bennardhus	Lagara Mourtains jewelflower	Brassicaceae	perential herb	4.3	G3/G4	\$3\$4	None	None	May-Aug	Chaparral, Lower and Lower morsane conflectus forest		670	2195	2500	8200	Ŧ	BA	RIV, SBD, SDG	Theorems Cream Control	22	1	5	1	0	0	15	22	0	22	o	1	Does plant occur in BA? Treatment in BA? Treatment of the plant in BA? Treatment of the plant in BA? Treatment in BA?	Singdarthus bernardhus (Greene) Parish		PDBRA2 G060	STBE		1/1/1980	11/4/2015

Appendix B. CNDI														
SciName	ComName	TaxonGroup	ElmCode	TotalOccs	FedList	CalList	GRank	SRank	RPlantRank	OthrStatus	Habitats	GenHab	MicroHab	ReturnOccs
Ambrosia monogyra	singlewhorl burrobrush	Dicots	PDAST50 010		None	None	G5	S2	2B.2		Chaparral Sonoran desert scrub	Chaparral, Sonoran desert scrub.	475 m.	1
Anniella stebbinsi	Southern California legless lizard	Reptiles	ARACC01 060	417	None	None	G3	\$3		CDFW_SS C-Species of Special Concern USFS_S- Sensitive	Broadleaved upland forest Chaparral Coastal dunes	Generally south of the for 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 in Kern County.	Variety of habitats; generally in moist, loose soil. They prefer soils with a high moisture content.	6
Arizona elegans occidentalis	California glossy snake	Reptiles	ARADB01 017	260	None	None	G5T2	S2		CDFW_SS C-Species of Special Concern		Patchilly distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular ranges, south to Baja California.	Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils.	4
Artemisiospiza belli belli	Bell's sage sparrow	Birds	ABPBX97 021	61	None	None	G5T2T3	S3		CDFW_WL- Watch List USFWS_BC C-Birds of Conservatio n Concern		Nests in chaparral dominated by fairly dense stands of chamise. Found in coastal sage scrub in south of range.	Nest located on the ground beneath a shrub or in a shrub 6- 18 inches above ground. Territories about 50 yds apart.	1
Athene cunicularia	burrowing owl	Birds	ABNSB10 010	2011	None	None	G4	S3		BLM_S- Sensitive CDFW_SS C-Species of Special Concern IUCN_LC- Least Concern USFWS_BC C-Birds of Conservatio n Concern	Coastal prairie Coastal scrub Great Basin grassland Great Basin scrub Mojavean desert scrub Sonoran desert scrub Valley & foothill grassland	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation.	Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	3
Batrachoseps gabrieli	San Gabriel slender salamander	Amphibians	AAAAD02 110	8	None	None	G2G3	S2S3		IUCN_DD- Data Deficient USFS_S- Sensitive	Talus slope	Known only from the San Gabriel Mtns. Found under rocks, wood, and fern fronds, and on soil at the base of talus slopes.	Most active on the surface in winter and early spring.	1
Bombus crotchii	Crotch bumble bee	Insects	IIHYM244 80	437	None	Candidate Endangered	G3G4	S1S2				Coastal California east to the Sierra- Cascade crest and south into Mexico.	Food plant genera include Antirrhinum, Phacelia, Clarkia, Dendromecon, Eschscholzia, and Eriogonum.	2
Calochortus plummerae	Plummer's mariposa-lily	Monocots	PMLILOD 150	230	None	None	G4	\$4	4.2	RSABG- California/R	Chaparral Cismontane woodland Coastal scrub Lower montane coniferous forest Valley & foothill grassland	Coastal scrub, chaparral, valley and foothill grassland, cismontane woodland, lower montane coniferous forest.	Occurs on rocky and sandy sites, usually of granitic or alluvial material. Can be very common after fire. 60-2500 m.	14
Chaetodipus fallax fallax	northwestern San Diego pocket mouse		AMAFD05 031		None	None	G5T3T4	S3S4		CDFW_SS C-Species of Special Concern		grasslands, sagebrush, etc. in western San Diego County.	Sandy, herbaceous areas, usually in association with rocks or coarse gravel.	4
Chaetodipus fallax pallidus	pallid San Diego pocket mouse	Mammals	AMAFD05 032	79	None	None	G5T3T4	S3S4		CDFW_SS C-Species of Special Concern	Desert wash Pinon & juniper woodlands Sonoran desert scrub	Desert border areas in eastern San Diego County in desert wash, desert scrub, desert succulent scrub, pinyon-juniper, etc.	Sandy, herbaceous areas, usually in association with rocks or coarse gravel.	1

Chorizanthe parryi var. parryi	Parry's spineflower	Dicots	PDPGN0 40J2	150	None	None	G3T2	S2	1B.1	RSABG-		Coastal scrub, chaparral, cismontane woodland, valley and foothill grassland.	Dry slopes and flats; sometimes at interface of 2 vegetation types, such as chaparral and oak woodland. Dry, sandy soils. 90-1220 m.	8
Chorizanthe xanti var. leucotheca	white-bracted spineflower	Dicots	PDPGN0 40Z1	59	None	None	G4T3	\$3	1B.2	BLM_S- Sensitive SB_CalBG/ RSABG- California/R ancho Santa Ana Botanic Garden SB_USDA- US Dept of Agriculture USFS_S- Sensitive	Coastal scrub Mojavean desert scrub Pinon & juniper woodlands	Mojavean desert scrub, pinyon and juniper woodland, coastal scrub (alluvial fans).	Sandy or gravelly places. 365-1830 m.	4
Dipodomys merriami parvus	San Bernardino kangaroo rat	Mammals	AMAFD03 143	81	Endangered	Candidate Endangered	G5T1	S1		CDFW_SS C-Species of Special Concern	Coastal scrub	Alluvial scrub vegetation on sandy loam substrates characteristic of alluvial fans and flood plains.	Needs early to intermediate seral stages.	25
Dodecahema leptoceras	slender- horned spineflower	Dicots	PDPGN0 V010	41	Endangered	Endangered	G1	S1	1B.1	RSABG- California/R	Chaparral Cismontane woodland Coastal scrub	Chaparral, cismontane woodland, coastal scrub (alluvial fan sage scrub).	Flood deposited terraces and washes; associates include Encelia, Dalea, Lepidospartum, etc. Sandy soils. 200-765 m.	4
Eriastrum densifolium ssp. sanctorum	Santa Ana River woollystar	Dicots	PDPLM03 035	31	Endangered	Endangered	G4T1	S1	1B.1	SB_CalBG/ RSABG- California/R ancho Santa Ana Botanic Garden	Chaparral Coastal scrub	Coastal scrub, chaparral.	In sandy soils on river floodplains or terraced fluvial deposits. 180- 705 m.	4
Horkelia cuneata var. puberula	mesa horkelia	Dicots	PDROS0 W045	103	None	None	G4T1	S1	1B.1		Chaparral Cismontane woodland Coastal scrub	Chaparral, cismontane woodland, coastal scrub.	Sandy or gravelly sites. 15-1645 m.	1
	San Diego black-tailed jackrabbit	Mammals	AMAEB03 051	103	None	None	G5T3T4	S3S4		CDFW_SS C-Species of Special Concern	Coastal scrub	Intermediate canopy stages of shrub habitats & open shrub / herbaceous & tree / herbaceous edges.	Coastal sage scrub habitats in Southern California.	1
Lilium parryi	lemon lily	Monocots	PMLIL1A 0J0	160	None	None	G3	S3	1B.2	RSABG- California/R ancho Santa Ana Botanic Garden USFS_S- Sensitive		coniferous forest, meadows and seeps, riparian forest, upper montane coniferous	Wet, mountainous terrain; generally in forested areas; on shady edges of streams, in open boggy meadows & seeps. 625- 2930 m.	1
Lycium parishii	Parish's desert-thorn	Dicots	PDSOL0 G0D0	21	None	None	G4	S1	2B.3		Coastal scrub Sonoran desert scrub	Coastal scrub, Sonoran desert scrub.	-3-570 m.	1
Malacothamnus parishii	Parish's bush- mallow	Dicots	PDMAL0 Q0C0	1	None	None	GXQ	SX	1A		Chaparral Coastal scrub	Chaparral, coastal sage scrub.	In a wash. 305- 455 m.	1
Neolarra alba	white cuckoo bee	Insects	11HYM810 10	8	None	None	GH	SH				Known only from localities in Southern California.	Cleptoparasitic in the nests of perdita bees.	1
Nyctinomops femorosaccus	pocketed free- tailed bat		AMACD0 4010		None	None	G5	S3		C-Species of Special Concern IUCN_LC- Least Concern WBWG_M- Medium Priority	Joshua tree woodland Pinon & juniper woodlands Riparian scrub Sonoran desert scrub	Variety of arid areas in Southern California; pine- juniper woodlands, desert scrub, palm oasis, desert wash, desert riparian, etc.	Rocky areas with high cliffs.	1
	short-joint beavertail	Dicots	PDCAC0 D053	199	None	None	G5T3	S 3	1B.2	SB_CalBG/ RSABG-		Chaparral, Joshua tree woodland, Mojavean desert scrub, pinyon and juniper woodland.	Sandy soil or coarse, granitic loam. 425-2015 m.	1

Perognathus longimembris brevinasus Phrynosoma	Los Angeles pocket mouse	Mammals	AMAFD01 041		None	None	G5T2 G3G4	\$1\$2 \$3\$4		CDFW_SS C-Species of Special Concern	Coastal scrub	Lower elevation grasslands and coastal sage communities in and around the Los Angeles Basin.	Open ground with fine, sandy soils. May not dig extensive burrows, hiding under weeds and dead leaves instead. Open areas for	9
blainvillii	lizard	Reputes	100	704	Note	None	G3G4	3334		Sensitive CDFW_SS C-Species of Special Concern IUCN_LC- Least Concern	Cismontane woodland Coastal bluff scrub Coastal scrub Desert wash Pinon & juniper woodlands Riparian scrub Riparian woodland Valley & foothill grassland	riequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes.	open areas to sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	,
Polioptila californica californica	coastal California gnatcatcher	Birds	ABPBJ08 081		Threatened	None	Q	S2		CDFW_SS C-Species of Special Concern NABCI_YW L-Yellow Watch List	Coastal bluff scrub Coastal scrub	Obligate, permanent resident of coastal sage scrub below 2500 ft in Southern California.	sage scrub in arid washes, on mesas and slopes. Not all areas classified as coastal sage scrub are occupied.	5
Rana muscosa	southern mountain yellow-legged frog	Amphibians	AAABH01 330	186	Endangered	Endangered	G1	S 1		CDFW_WL- Watch List IUCN_EN- Endangered USFS_S- Sensitive	Aquatic	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.	Always encountered within a few feet of water. Tadpoles may require 2 - 4 yrs to complete their aquatic development.	1
Rhinichthys osculus ssp. 3	Santa Ana speckled dace	Fish	AFCJB37 05K	13	None	None	G5T1	S1		AFS_TH- Threatened CDFW_SS C-Species of Special Concern USFS_S- Sensitive	Aquatic South coast flowing waters	Headwaters of the Santa Ana and San Gabriel rivers. May be extirpated from the Los Angeles River system.	Requires permanent flowing streams with summer water temps of 17-20 C. Usually inhabits shallow cobble and gravel riffles.	2
Riversidian Alluvial Fan Sage Scrub	Riversidian Alluvial Fan Sage Scrub	Scrub	CTT3272 0CA	30	None	None	G1	S1.1			Coastal scrub			3
Southern Riparian Forest	Southern Riparian Forest	Riparian	CTT6130 0CA	20	None	None	G4	S4			Riparian forest			1
Riparian Woodland	Southern Sycamore Alder Riparian Woodland	Riparian	0CA	230		None		S4			Riparian woodland			4
Streptanthus bernardinus	Laguna Mountains jewelflower	Dicots	G060	22	None	None	G3G4	S3S4	4.3	RSABG- California/R ancho Santa Ana Botanic Garden	Chaparral Lower montane coniferous forest Upper montane coniferous forest	Chaparral, lower montane coniferous forest.	Clay or decomposed granite soils; sometimes in disturbed areas such as streamsides or roadcuts. 1440- 2500 m.	1
Vireo bellii pusillus	least Bell's vireo	Birds	ABPBW0 1114	503	Endangered	Endangered	G5T2	S2		Near Threatened	Riparian forest Riparian scrub Riparian woodland	Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft.	Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, mesquite.	2



California Department of Fish and Wildlife California Natural Diversity Database



Query Criteria: Quad IS (Devore (3411724))

Map Index Number: 43808 **EO Index:** 43808

Key Quad:Cucamonga Peak (3411725)Element Code:AAAAD02110Occurrence Number:7Occurrence Last Updated:2000-09-19

Scientific Name: Batrachoseps gabrieli Common Name: San Gabriel slender salamander

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: IUCN DD-Data Deficient

CNDDB Element Ranks: Global: G2G3 USFS_S-Sensitive

State: \$2\$3

General Habitat: Micro Habitat:

KNOWN ONLY FROM THE SAN GABRIEL MTNS. FOUND UNDER ROCKS, MOST ACTIVE ON THE SURFACE IN WINTER AND EARLY SPRING. WOOD, AND FERN FRONDS, AND ON SOIL AT THE BASE OF TALUS

WOOD, AND FERN FRONDS, AND ON SOIL AT THE BASE OF TALUS SLOPES.

Last Date Observed: 1998-04-15 Occurrence Type: Natural/Native occurrence

Last Survey Date:1998-04-15Occurrence Rank:UnknownOwner/Manager:USFS-SAN BERNARDINO NFTrend:Unknown

Presence: Presumed Extant

Location:

WEST OF HIGHWAY 395, ABOUT 1.3 MI WSW OF SCOTLAND, ABOUT 1.5 MILES SOUTH OF THE TOWN OF LYTLE CREEK.

Detailed Location:

ONE COLLECTION SITE IS ABOUT 1.5 KM S OF THE TOWN OF LYTLE CREEK AT ELEVATION 3750 FT, ON THE S SLOPE OF THE MIDDLE FORK OF LYTLE CANYON. ONE COLLECTION SITE IS ABOUT 3 KM SOUTH OF THE TOWN OF LYTLE CREEK IN THE S FORK OF LYTLE CANYON.

Ecological:

Threats:

General:

MVZ #'S 228299-228302 COLLECTED 11 & 15 APRIL 1998 BY D. WAKE, R. GOODMAN JR. & M. BENTON.

 PLSS:
 T02N, R06W, Sec. 22 (S)
 Accuracy:
 3/5 mile
 Area (acres):
 0

 UTM:
 Zone-11 N3789010 E453400
 Latitude/Longitude:
 34.24115 / -117.50604
 Elevation (feet):
 3,600

County Summary: Quad Summary:

San Bernardino Devore (3411724), Cucamonga Peak (3411725), Telegraph Peak (3411735)

Sources:

MVZ00S0005 MUSEUM OF VERTEBRATE ZOOLOGY (UNIVERSITY OF CALIFORNIA, BERKELEY) - AUGUST 15, 2000 PRINT OUT OF A QUERY OF

THE MVZ DATABASE FOR BATRACHOSEPS GABRIELI 2000-08-15



California Department of Fish and Wildlife



Map Index Number: 42436 **EO Index:** 42436

Key Quad:Devore (3411724)Element Code:AAABH01330Occurrence Number:20Occurrence Last Updated:2014-07-08

Scientific Name: Rana muscosa Common Name: southern mountain yellow-legged frog

Listing Status: Federal: Endangered Rare Plant Rank:

State: Endangered Other Lists: CDFW_WL-Watch List IUCN_EN-Endangered

ALWAYS ENCOUNTERED WITHIN A FEW FEET OF WATER. TADPOLES

MAY REQUIRE 2 - 4 YRS TO COMPLETE THEIR AQUATIC

CNDDB Element Ranks: Global: G1 IUCN_EN-Endangered USFS_S-Sensitive

General Habitat: Micro Habitat:

S1

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

State:

NORTHERN DPS WAS DETERMINED TO WARRANT LISTING AS DEVELOPMENT. ENDANGERED, APR 2014, EFFECTIVE JUN 30, 2014.

Last Date Observed: 1958-08-02 Occurrence Type: Natural/Native occurrence

Last Survey Date: 2001-XX-XX Occurrence Rank: None

Owner/Manager: USFS-SAN BERNARDINO NF Trend: Unknown

Presence: Possibly Extirpated

LYTLE CREEK, 2 MILES SOUTH OF GLENN RANCH, SAN GABRIEL MOUNTAINS.

Detailed Location:

Ecological:

Threats:

Location:

General:

OCCURRENCE KNOWN FROM COLLECTIONS FROM 2 MI S OF GLENN RANCH IN 1950 AND FROM LYTLE CANYON IN 1958. JENNINGS CONSIDERS THIS POPULATION EXTIRPATED. USGS SURVEYED THIS AREA IN 2000 & 2001 AND NO FROGS WERE FOUND.

PLSS: T02N, R06W, Sec. 26 (S) Accuracy: non-specific area Area (acres): 451

UTM: Zone-11 N3787710 E456150 **Latitude/Longitude**: 34.22954 / -117.47611 **Elevation (feet)**: 2,600

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

BAC10D0001 BACKLIN, A. (U.S. GEOLOGICAL SURVEY-BIOLOGICAL RESOURCES DIVISION) - EXCEL SPREADSHEET OF CNDDB

OCCURRENCES WITH EVALUATION OF THE CURRENT STATUS OF RANA MUSCOSA AT EACH SITE. 2010-04-22

JEN94R0001 JENNINGS, M. & M. HAYES - AMPHIBIAN AND REPTILE SPECIES OF SPECIAL CONCERN IN CALIFORNIA. FINAL REPORT

SUBMITTED TO DFG, INLAND FISHERIES DIVISION, RANCHO CORDOVA. 255 PP. 1994-11-01

NOK58S0005 NOKES, J. - SDNHM #19546-19553 COLLECTED FROM LYTLE CANYON 1958-08-02

NOR50S0002 NORRIS & ZWEIFEL - NORRIS #2925 LACM #13760, FROM LYTLE CREEK, 2 MI S OF GLENN RANCH 1950-05-27



California Department of Fish and Wildlife



Map Index Number: 69265 **EO Index:** 70046

Key Quad:Devore (3411724)Element Code:ABNSB10010Occurrence Number:927Occurrence Last Updated:2007-07-13

Scientific Name: Athene cunicularia Common Name: burrowing owl

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G4 CDFW_SSC-Species of Special Concern

State: S3 IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat: Micro Habitat:

OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS, AND SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING

SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2006-11-08 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2006-11-08

 Owner/Manager:
 PVT

 Trend:
 Unknown

Presence: Presumed Extant

Location:

WEST OF RIALTO, ABOUT 0.5 MILE NE OF INTERSECTION OF BASE LINE RD AND LINDEN AVE.

Detailed Location:

MAPPED ACCORDING TO UTM COORDINATES PROVIDED BY SOURCE.

Ecological:

DISKED FIELD DOMINATED BY BARE GROUND. TO WEST IS RIALTO AIRPORT. SURROUNDING HABITAT CONSISTS OF RUDERAL AREAS, GRASSLANDS, AND LOW-GROWING RIVERSIDEAN SAGE SCRUB.

Threats:

PROPOSED FOR DEVELOPMENT, DISKING.

General:

WINTERING AND BURROW SITE. 1 ADULT OBSERVED ON 8 NOV 2006.

 PLSS:
 T01N, R05W, Sec. 34, SW (S)
 Accuracy:
 80 meters
 Area (acres):
 0

 UTM:
 Zone-11 N3776299 E463593
 Latitude/Longitude:
 34.12691 / -117.39482
 Elevation (feet):
 1,407

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

ROM06F0005 ROMICH, M. (MICHAEL BRANDMAN ASSOCIATES) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2006-11-

30



California Department of Fish and Wildlife



81901 EO Index: 82874 Map Index Number:

Key Quad: Devore (3411724) **Element Code:** ABNSB10010 **Occurrence Number:** 1793 Occurrence Last Updated: 2011-03-01

Scientific Name: Athene cunicularia Common Name: burrowing owl

Federal: Rare Plant Rank: **Listing Status:** None

> State: None Other Lists: BLM_S-Sensitive

CDFW_SSC-Species of Special Concern **CNDDB Element Ranks:** Global: G4 IUCN_LC-Least Concern

USFWS_BCC-Birds of Conservation Concern

General Habitat: Micro Habitat:

S3

OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS, AND SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING

SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION. MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2007-05-15 Occurrence Type: Natural/Native occurrence

Last Survey Date: 2007-05-15 Occurrence Rank: Unknown Trend: Unknown Owner/Manager: **UNKNOWN**

Presumed Extant Presence:

0.2 MI NNE MIRO WAY AT N LINDEN AVE, RIALTO MUNICIPAL AIRPORT.

State:

Detailed Location:

BLOCK CODE 3755-460 - LOCATION CODE A. MAPPED TO PROVIDED COORDINATES.

Ecological:

Location:

LOWLAND ELEVATION SUBREGION.

Threats:

General:

1 ADULT OBSERVED AND 1 BREEDING PAIR ESTIMATED TO OCCUR IN AREA ON 15 MAY 2007.

PLSS: T01N, R05W, Sec. 34, SW (S) Area (acres): Accuracy: 80 meters 0

Zone-11 N3776376 E463179 Latitude/Longitude: 34.12760 / -117.39930 UTM: Elevation (feet): 1,425

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

WIL09D0003 WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY

2009-09-29



California Department of Fish and Wildlife



Map Index Number: 81902 **EO Index:** 82875

Key Quad:Devore (3411724)Element Code:ABNSB10010Occurrence Number:1794Occurrence Last Updated:2011-03-01

Scientific Name: Athene cunicularia Common Name: burrowing owl

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G4 CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern

State: S3 USFWS_BCC-Birds of Conservation Concern

General Habitat: Micro Habitat:

OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS, AND SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2009-11-04 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2009-11-04
 Occurrence Rank:
 Excellent

 Owner/Manager:
 SBD COUNTY
 Trend:
 Unknown

Presence: Presumed Extant

Location:

0.5 MI NNE WILSON AVE (SUMMIT AVE) AT SAN SEVAINE RD, FONTANA.

Detailed Location:

MAPPED TO PROVIDED COORDINATES.

Ecological:

ALONG THE SAN SEVAINE CREEK DRAINAGE. CONSISTS OF RIVERSIDIAN ALLUVIAL FAN SAGE SCRUB.

Threats:

THREATENED BY FLOOD CONTROL OPERATIONS.

General:

1 OWL OBSERVED AT LOOSE ROCK LEVEE ON THE EAST LEVEE.

 PLSS:
 T01N, R06W, Sec. 22, SE (S)
 Accuracy:
 80 meters
 Area (acres):
 0

 UTM:
 Zone-11 N3779635 E454934
 Latitude/Longitude:
 34.15667 / -117.48888
 Elevation (feet):
 1,590

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

ULR09F0004 ULRICH, B. (SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA

2009-11-04



California Department of Fish and Wildlife



Map Index Number: 24160 **EO Index:** 25918

Key Quad:San Bernardino North (3411723)Element Code:ABPBJ08081Occurrence Number:451Occurrence Last Updated:1996-11-26

Scientific Name: Polioptila californica californica Common Name: coastal California gnatcatcher

Listing Status: Federal: Threatened Rare Plant Rank:

State: None Other Lists: CDFW_SSC-Species of Special Concern

Global: G4G5T3Q NABCI_YWL-Yellow Watch List

State: S2

General Habitat: Micro Habitat:

OBLIGATE, PERMANENT RESIDENT OF COASTAL SAGE SCRUB BELOW LOW, COASTAL SAGE SCRUB IN ARID WASHES, ON MESAS AND SLOPES. NOT ALL AREAS CLASSIFIED AS COASTAL SAGE SCRUB

ARE OCCUPIED.

Last Date Observed: 1990-09-06 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 1994-XX-XX
 Occurrence Rank:
 None

 Owner/Manager:
 UNKNOWN
 Trend:
 Unknown

Presence: Extirpated

Location:

NEAR THE CONFLUENCE OF LYTLE WASH AND CAJON WASH, BETWEEN EL RANCHO VERDE GOLF COURSE (IN RIALTO) AND MUSCOY.

Detailed Location:

CNDDB Element Ranks:

Ecological:

HABITAT CONSISTS OF MATURE ALLUVIAL SAGE SCRUB, ON A HIGH, STABILIZED BENCH IN THE CENTER OF THE WASH; DOMINANT SPECIES INCLUDE OPEN CHAMISE, BUCKWHEAT, MALOSMA, PRUNUS, AND YUCCA WHIPLEYI.

Threats:

THIS SITE WAS DESTROYED IN 1994 BY GRAVEL MINING OPERATIONS.

General:

A SINGLE BIRD WITH FEMALE/IMMATURE PLUMAGE WAS OBSERVED IN 1990. SITE WAS VISITED REPEATEDLY DURING FALL AND WINTER, BUT NO FURTHER CALIFORNIA GNATCATCHERS WERE OBSERVED; A PAIR OF BLUE-GRAY GNATCATCHERS WERE OBSERVED IN SPRING 1991.

UTM: Zone-11 N3779644 E465859 Latitude/Longitude: 34.15717 / -117.37038 Elevation (feet): 1,440

County Summary: Quad Summary:

San Bernardino North (3411723), Devore (3411724)

Sources:

WIL90F0014

DAVI96R0001 DAVIS, L.H., R.L. MCKERNAN & J.S. BURNS - CURRENT STATUS AND HISTORY OF THE CALIFORNIA GNATCATCHER

WILLICK, D. - FIELD SURVEY FORM FOR POLIOPTILA CALIFORNICA CALIFORNICA 1990-09-06

(POLIOPTILA CALIFORNICA CALIFORNICA) IN SAN BERNARDINO COUNTY (DRAFT) 1996-XX-XX

Commercial Version -- Dated April, 2 2021 -- Biogeographic Data Branch

Page 6 of 124
Information Expires 10/2/2021



California Department of Fish and Wildlife



Map Index Number: 30071 EO Index: 5019

Key Quad:Devore (3411724)Element Code:ABPBJ08081Occurrence Number:463Occurrence Last Updated:2010-11-09

Scientific Name: Polioptila californica californica Common Name: coastal California gnatcatcher

Listing Status: Federal: Threatened Rare Plant Rank:

State: None Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G4G5T3Q NABCI_YWL-Yellow Watch List

State: S2

General Habitat: Micro Habitat:

OBLIGATE, PERMANENT RESIDENT OF COASTAL SAGE SCRUB BELOW LOW, COASTAL SAGE SCRUB IN ARID WASHES, ON MESAS AND

2500 FT IN SOUTHERN CALIFORNIA. SLOPES. NOT ALL AREAS CLASSIFIED AS COASTAL SAGE SCRUB

ARE OCCUPIED.

Last Date Observed: 1993-03-16 Occurrence Type: Natural/Native occurrence

Last Survey Date:1993-03-16Occurrence Rank:NoneOwner/Manager:PVTTrend:Unknown

Presence: Possibly Extirpated

Location:

NORTH SIDE OF LYTLE CREEK WASH, 0.2 MILE SOUTH OF I-15 AND 1 MILE EAST OF NEALEYS CORNER, NW OF RIALTO.

Detailed Location:

Ecological:

1993: HABITAT CONSISTS OF RIVERSIDEAN SAGE SCRUB ON ALLUVIUM. VEGETATIVE COVER 60-70%; DOMINANT PLANTS INCLUDE SALVIA APIANA AND LOTUS SCOPARIUS, ON NEARLY LEVEL TOPOGRAPHY. 2009 AERIAL PHOTOS SHOW THAT THE SITE IS BEING DEVELOPED.

Threats:

General:

1 INDIVIDUAL OBSERVED ON 16 MARCH 1993. SOME DISTURBANCE FROM WILDFIRE WITHIN THE PAST 5 YEARS.

PLSS: T01N, R05W, Sec. 08, NE (S) **Accuracy:** 80 meters **Area (acres):** 0

UTM: Zone-11 N3783183 E461035 **Latitude/Longitude:** 34.18891 / -117.42287 **Elevation (feet):** 1,960

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

NEL93F0001 NELSON, S.G. (MICHAEL BRANDMAN ASSOCIATES) - FIELD SURVEY FORM FOR POLIOPTILA CALIFORNICA CALIFORNICA 1993-

03-16



Map Index Number:

Occurrence Report

California Department of Fish and Wildlife



EO Index: 53459

Key Quad:Devore (3411724)Element Code:ABPBJ08081Occurrence Number:822Occurrence Last Updated:2008-06-12

Scientific Name: Polioptila californica californica Common Name: coastal California gnatcatcher

Listing Status: Federal: Threatened Rare Plant Rank:

State: None Other Lists: CDFW_SSC-Species of Special Concern

Occurrence Type:

Natural/Native occurrence

CNDDB Element Ranks: Global: G4G5T3Q NABCI_YWL-Yellow Watch List

State: S2

53459

General Habitat: Micro Habitat:

OBLIGATE, PERMANENT RESIDENT OF COASTAL SAGE SCRUB BELOW LOW, COASTAL SAGE SCRUB IN ARID WASHES, ON MESAS AND

2500 FT IN SOUTHERN CALIFORNIA. SLOPES. NOT ALL AREAS CLASSIFIED AS COASTAL SAGE SCRUB ARE OCCUPIED.

ARE OCCUPIE

 Last Survey Date:
 2000-01-20
 Occurrence Rank:
 Unknown

 Owner/Manager:
 SBD COUNTY RP
 Trend:
 Unknown

Presence: Presumed Extant

Location:

GLEN HELEN REGIONAL PARK, MIDWAY BETWEEN I-15 AND I-215, 3.5 MILES NNW OF RIALTO.

Detailed Location:

Last Date Observed:

LONE MALE OBSERVED JUST SE OF WATER TANK AT BEGINNING OF FIRE ROAD. PAIR OBSERVED ON NORTH SIDE OF TRAIL ABOUT 0.75 MILE

DOWN TRAIL FROM LONE MALE.

Ecological:

Threats: General:

A LONE MALE AND 1 PAIR OBSERVED ON 20 JAN 2000.

2000-01-20

PLSS: T01N, R05W, Sec. 03, SW (S) Accuracy: non-specific area Area (acres): 33

UTM: Zone-11 N3784345 E463360 **Latitude/Longitude:** 34.19947 / -117.39768 **Elevation (feet):** 2,000

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

BRA00U0002 CRAWFORD, S. (MICHAEL BRANDMAN ASSOCIATES) - CALIFORNIA GNATCATCHER OBSERVATION AT GLEN HELEN 2000-04-24

FWS07D0001 U.S. FISH AND WILDLIFE SERVICE-CARLSBAD - USFWS CARLSBAD SPECIAL STATUS SPECIES DATABASE, AUGUST 2007

VERSION 2007-08-09



California Department of Fish and Wildlife

California Natural Diversity Database

Map Index Number: 71280 **EO Index:** 72184

Key Quad:Devore (3411724)Element Code:ABPBJ08081Occurrence Number:877Occurrence Last Updated:2008-06-12

Scientific Name: Polioptila californica californica Common Name: coastal California gnatcatcher

Listing Status: Federal: Threatened Rare Plant Rank:

State: None Other Lists: CDFW_SSC-Species of Special Concern

Global: G4G5T3Q NABCI_YWL-Yellow Watch List

State: S2

General Habitat: Micro Habitat:

OBLIGATE, PERMANENT RESIDENT OF COASTAL SAGE SCRUB BELOW LOW, COASTAL SAGE SCRUB IN ARID WASHES, ON MESAS AND

2500 FT IN SOUTHERN CALIFORNIA. SLOPES. NOT ALL AREAS CLASSIFIED AS COASTAL SAGE SCRUB

ARE OCCUPIED.

Last Date Observed: 1991-XX-XX Occurrence Type: Natural/Native occurrence

Last Survey Date:1991-XX-XXOccurrence Rank:UnknownOwner/Manager:UNKNOWNTrend:Unknown

Presence: Presumed Extant

Location:

ADJACENT TO THE SOUTHEAST SIDE OF I-15 ON THE SOUTHWEST SIDE OF LYTLE CREEK WASH, SOUTH OF NEALEYS CORNER, RIALTO.

Detailed Location:

CNDDB Element Ranks:

MAPPED IN RELATION TO FSW 500 M DIGITAL POLYGON; SITE NAME: FONTANA.

Ecological:

Threats:

General:

UNKNOWN NUMBER DETECTED IN 1991 BY UNKNOWN OBSERVER. SOURCE: SAN BERNARDINO COUNTY MUSEUM.

PLSS: T01N, R05W, Sec. 08, SW (S) **Accuracy**: 1/5 mile **Area (acres)**: 0

UTM: Zone-11 N3782361 E460192 Latitude/Longitude: 34.18146 / -117.43198 Elevation (feet): 1,975

County Summary:Quad Summary:San BernardinoDevore (3411724)

San Bernardino

Sources:

FWS07D0001 U.S. FISH AND WILDLIFE SERVICE-CARLSBAD - USFWS CARLSBAD SPECIAL STATUS SPECIES DATABASE, AUGUST 2007

VERSION 2007-08-09



Map Index Number:

CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife



EO Index: 72185

Key Quad:Devore (3411724)Element Code:ABPBJ08081Occurrence Number:878Occurrence Last Updated:2008-06-12

Scientific Name: Polioptila californica californica Common Name: coastal California gnatcatcher

Listing Status: Federal: Threatened Rare Plant Rank:

State: None Other Lists: CDFW_SSC-Species of Special Concern

Global: G4G5T3Q NABCI_YWL-Yellow Watch List

State: S2

71281

General Habitat: Micro Habitat:

OBLIGATE, PERMANENT RESIDENT OF COASTAL SAGE SCRUB BELOW LOW, COASTAL SAGE SCRUB IN ARID WASHES, ON MESAS AND

2500 FT IN SOUTHERN CALIFORNIA. SLOPES. NOT ALL AREAS CLASSIFIED AS COASTAL SAGE SCRUB

ARE OCCUPIED.

Last Date Observed: 1997-05-01 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 1997-05-01

 Owner/Manager:
 UNKNOWN

 Trend:
 Unknown

Presence: Possibly Extirpated

Location:

WEST SIDE OF ALDER AVE, BETWEEN CASA CRANDE DR. & SUMMIT AVE. (CARLOS AVE.), RIALTO.

Detailed Location:

MAPPED IN RELATION TO FWS DIGITAL POLYGONS: TWO 500 M DIAMETER, ONE 160 M DIAMETER; SITE NAMES MID-VALLEY SANITARY LANDFILL EXPANSION SITE, AND FONTANA.

Ecological:

PROBABLY EXTIRPATED. WAREHOUSE BUILDING AND PARKING LOT PRESENT IN 2007 AERIAL PHOTOS.

Threats:

DEVELOPMENT.

General:

2 DETECTED IN 1996 BY UNKNOWN OBSERVER. 2 DETECTED IN APR 1997 BY E. CARDIFF & G. BRADEN, AND 2 DETECTED ON 1 MAY 1997 BY UNKNOWN OBSERVER. SOURCES: SAN BERNARDINO COUNTY MUSEUM.

 PLSS:
 T01N, R05W, Sec. 20, SE (S)
 Accuracy:
 non-specific area
 Area (acres):
 103

 UTM:
 Zone-11 N3779244 E461143
 Latitude/Longitude:
 34.15339 / -117.42152
 Elevation (feet):
 1,675

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

FWS07D0001 U.S. FISH AND WILDLIFE SERVICE-CARLSBAD - USFWS CARLSBAD SPECIAL STATUS SPECIES DATABASE, AUGUST 2007

VERSION 2007-08-09



California Department of Fish and Wildlife



Map Index Number: 84531 **EO Index:** 85551

Key Quad:Devore (3411724)Element Code:ABPBW01114Occurrence Number:329Occurrence Last Updated:2011-12-22

Scientific Name: Vireo bellii pusillus Common Name: least Bell's vireo

Listing Status: Federal: Endangered Rare Plant Rank:

State: Endangered Other Lists: IUCN_NT-Near Threatened

CNDDB Element Ranks: Global: G5T2 NABCI_YWL-Yellow Watch List

General Habitat: Micro Habitat:

S₂

SUMMER RESIDENT OF SOUTHERN CALIFORNIA IN LOW RIPARIAN IN VICINITY OF WATER OR IN DRY RIVER BOTTOMS; BELOW 2000 FT.

NESTS PLACED ALONG MARGINS OF BUSHES OR ON TWIGS PROJECTING INTO PATHWAYS, USUALLY WILLOW, BACCHARIS,

MESQUITE.

Last Date Observed:2007-07-17Occurrence Type:Natural/Native occurrence

 Last Survey Date:
 2007-07-30

 Owner/Manager:
 PVT

 Trend:
 Unknown

Presence: Presumed Extant

Location:

SYCAMORE FLAT, 0.3 MI S OF GLEN HELEN PKWY AT HWY 15, ABOUT 2.7 MI W OF VERDEMONT.

MAPPED TO PROVIDED COORDINATES AND MAP.

State:

Ecological:

DOMINANT PLANT SPECIES INCLUDED BLACK AND ARROYO WILLOW, MULEFAT AND COTTONWOOD. CANOPY HEIGHT WAS 5 METERS. SURFACE WATER OR SATURATED SOIL PRESENT AT SITE. SURROUNDING LAND WAS DEVELOPED. AREA WAS BEING PRESERVED BY DEVELOPER.

Threats:

Detailed Location:

POSSIBLY THREATENED BY DEVELOPMENT AND BROWN-HEADED COWBIRD PARASITISM.

General:

2 PAIRS AND 1 NEST OBSERVED 10 APR-22 JUN 2006. 2 BIRDS OBSERVED 10 APR 2007. 1 NEST OBSERVED 14 JUN 2007. 1 PAIR OBSERVED 25 JUN, 5 JUL & 17 JUL 2007. 4 PAIRS OF BROWN-HEADED COWBIRDS WERE OBSERVED IN THE AREA.

 PLSS:
 T01N, R05W, Sec. 04, SW (S)
 Accuracy:
 specific area
 Area (acres):
 18

 UTM:
 Zone-11 N3784128 E461785
 Latitude/Longitude:
 34.19746 / -117.41477
 Elevation (feet):
 1,950

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

BER06F0012 BERKLEY, J. (PCR SERVICES CORPORATION) - FIELD SURVEY FORM FOR VIREO BELLII PUSILLUS 2006-04-10

BER07F0002 BERKLEY, J. - FIELD SURVEY FORM FOR VIREO BELLII PUSILLUS 2007-07-30

BER07R0001 BERKLEY, J. & S. ANON (PCR SERVICES CORPORATION) - RESULTS OF FOCUSED LEAST BELL'S VIREO SURVEYS FOR LYTLE

CREEK RANCH, SAN BERNARDINO COUNTY, CALIFORNÍA 2007-12-14



California Department of Fish and Wildlife



Map Index Number: 84541 **EO Index:** 85561

Key Quad:Devore (3411724)Element Code:ABPBW01114Occurrence Number:330Occurrence Last Updated:2011-12-21

Scientific Name: Vireo bellii pusillus Common Name: least Bell's vireo

Listing Status: Federal: Endangered Rare Plant Rank:

State: Endangered Other Lists: IUCN_NT-Near Threatened

CNDDB Element Ranks: Global: G5T2 NABCI_YWL-Yellow Watch List

General Habitat: Micro Habitat:

S2

State:

SUMMER RESIDENT OF SOUTHERN CALIFORNIA IN LOW RIPARIAN IN VICINITY OF WATER OR IN DRY RIVER BOTTOMS; BELOW 2000 FT.

NESTS PLACED ALONG MARGINS OF BUSHES OR ON TWIGS PROJECTING INTO PATHWAYS, USUALLY WILLOW, BACCHARIS,

MESQUITE.

Last Date Observed: 2007-07-31 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2007-07-31

 Owner/Manager:
 UNKNOWN

 Trend:
 Unknown

Presence: Presumed Extant

ALONG CABLE CREEK, 1.25 MI OF ENE DEVORE (BM2022), 2.2 MI SW OF MONUMENT PEAK.

Detailed Location:

MAPPED TO PROVIDED MAP.

Ecological:

SOUTHERN SYCAMORE-ALDER RIPARIAN WOODLAND AND SOUTHERN WILLOW SCRUB. RECOVERING FROM 2003 FIRE AND FLOODS; WAS EXPECTED TO PROVIDE MORE SUITABLE HABITAT AS IT MATURES. HABITAT RUNS ALONG PROPOSED SECONDARY ACCESS ROAD.

Threats:

Location:

THREATENED BY DEVELOPMENT THAT MAY REMOVE 1 ACRE OF HABITAT.

General:

1 TERRITORY OBSERVED ON 16 & 31 JUL 2007.

 PLSS:
 T02N, R05W, Sec. 26, SW (S)
 Accuracy:
 non-specific area
 Area (acres):
 31

 UTM:
 Zone-11 N3787299 E464706
 Latitude/Longitude:
 34.22616 / -117.38320
 Elevation (feet):
 2,200

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

ROM07R0002 ROMICH, M. (MICHAEL BRANDMAN ASSOCIATES) - LEAST BELL'S VIREO AND SOUTHWESTERN WILLOW FLYCATCHER

FOCUSED SURVEY REPORT, MARTIN RANCH 2007-08-27



California Department of Fish and Wildlife



Map Index Number: 44035 **EO Index:** 44035

Key Quad:Devore (3411724)Element Code:ABPBX97021Occurrence Number:3Occurrence Last Updated:2010-11-09

Scientific Name: Artemisiospiza belli belli Common Name: Bell's sage sparrow

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: CDFW_WL-Watch List

CNDDB Element Ranks: Global: G5T2T3 USFWS_BCC-Birds of Conservation Concern

General Habitat: Micro Habitat:

S3

NESTS IN CHAPARRAL DOMINATED BY FAIRLY DENSE STANDS OF CHAMISE. FOUND IN COASTAL SAGE SCRUB IN SOUTH OF RANGE.

NEST LOCATED ON THE GROUND BENEATH A SHRUB OR IN A SHRUB CHAMISE. FOUND IN COASTAL SAGE SCRUB IN SOUTH OF RANGE.

6-18 INCHES ABOVE GROUND. TERRITORIES ABOUT 50 YDS APART.

Last Date Observed: 1997-05-24 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 1997-05-24
 Occurrence Rank:
 None

 Owner/Manager:
 PVT
 Trend:
 Unknown

Presence: Possibly Extirpated

State:

Location:

JUST NORTH OF LYTLE CREEK WASH & EAST OF I-15, 1 MILE EAST OF NEALYS CORNER, ABOUT 2 MILES SW OF DEVORE.

Detailed Location:

BIRDS OBSERVED DURING BREEDING SEASON AND IN AREA OF SUITABLE HABITAT.

Ecological:

1997: HABITAT CONSISTS OF SAGE SCRUB, DOMINATED BY WHITE SAGE. 2009 AERIAL PHOTOS SHOW THAT THE SITE IS BEING DEVELOPED.

Threats:

THREATENED BY DEVELOPMENT.

General:

17 BIRDS OBSERVED DURING A 5-DAY SURVEY PERIOD DURING MAY 1997.

 PLSS:
 T01N, R05W, Sec. 08 (S)
 Accuracy:
 non-specific area
 Area (acres):
 231

 UTM:
 Zone-11 N3783051 E461312
 Latitude/Longitude:
 34.18773 / -117.41985
 Elevation (feet):
 920

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

RAM97F0015 RAMIREZ, JR., R.S. - FIELD SURVEY FORM FOR AMPHISPIZA BELLI BELLI (BELL'S SAGE SPARROW) 1997-05-20



Map Index Number:

Occurrence Report

California Department of Fish and Wildlife





Key Quad:Cajon (3411734)Element Code:AFCJB3705KOccurrence Number:4Occurrence Last Updated:2003-02-04

Scientific Name: Rhinichthys osculus ssp. 3 Common Name: Santa Ana speckled dace

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: AFS TH-Threatened

CNDDB Element Ranks: Global: G5T1 CDFW_SSC-Species of Special Concern

State: S1 USFS_S-Sensitive

General Habitat: Micro Habitat:

HEADWATERS OF THE SANTA ANA AND SAN GABRIEL RIVERS. MAY BE REQUIRES PERMANENT FLOWING STREAMS WITH SUMMER WATER EXTIRPATED FROM THE LOS ANGELES RIVER SYSTEM. REQUIRES PERMANENT FLOWING STREAMS WITH SUMMER WATER TEMPS OF 17-20 C. USUALLY INHABITS SHALLOW COBBLE AND

GRAVEL RIFFLES.

Last Date Observed: 2000-09-20 Occurrence Type: Natural/Native occurrence

Last Survey Date: 2000-09-20 Occurrence Rank: Fair

Owner/Manager: UNKNOWN Trend: Unknown

Presence: Presumed Extant

41475

Location:

CAJON CREEK, CAJON WASH, KEENBROOK, ABOUT 4 MILES (NW) UP CANYON FROM DEVORE.

Detailed Location:

4 SAMPLE SECTIONS: #1, 1A, 2, & 3. STREAM BOTTOM CONSISTED OF VARYING PERCENTAGES OF BOLDERS, COBBLES, GRAVEL, & SAND. ANOTHER POSSIBLE SAMPLE SITE WAS SHOWN ON THE MAP, LABELED "1993 USFS", BUT NO DATA WAS GIVEN FOR THIS SITE.

Ecological:

LITTLE AQUATIC VEGETATION: WATERCRESS, ALGAE, MOSS. DOMINANT VEGETATION (PERCENTAGES CHANGE AT EACH LOCATION) IN ORDER OF DOMINANCE: MULEFAT, WILLOW, COTTONWOOD, MISC SHRUBS, HERBS AND GRASSES.

Threats

RESIDENTIAL DEVELOPMENT. ILLIGAL DUMP SITE UPSTREAM OF SAMPLE SECTIONS. RAILROAD, THREAT OF TOXIC OR HAZARDOUS SPILL.

General:

9/20/00: 169 OBS IN SITE #2. 1996: 1776 DACE OBSERVED SITE #3; 1834 AT SITE #1A; 4715 AT SITE #1; 326 AT SITE #2. 1995: 86 OBSERVED SITE #1; 158 AT SITE #2. FISH PRESENT 1970 TO 1993.

 PLSS:
 T02N, R06W, Sec. 13 (S)
 Accuracy:
 specific area
 Area (acres):
 100

 UTM:
 Zone-11 N3790173 E457693
 Latitude/Longitude:
 34.25182 / -117.45948
 Elevation (feet):
 2,500

County Summary: Quad Summary:

San Bernardino Devore (3411724), Cajon (3411734)

Sources:

BUR70N, C. - FIELD SURVEY FORM FOR RHINICHTHYS OSCULUS SSP. 3 (SANTA ANA SPECKLED DACE) 2000-09-20

ROD95F0001 RODRIGUEZ, R. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - 2 FIELD SURVEY FORMS FOR RHINICHTHYS OSCULUS

(SANTA ANA SPECKLED DACE) 1995-08-01

ROD96F0002 RODRIGUEZ, R. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - 5 FIELD SURVEY FORMS FOR RHINICHTHYS OSCULUS

(SANTA ANA SPECKLED DACE) 1996-10-24

SWI93R0001 SWIFT, C, ET AL. - THE STATUS AND DISTRIBUTION OF THE FRESHWATER FISHES OF SOUTHERN CALIFORNIA. BULLETIN OF

THE SOUTHERN CALIFORNIA ACADEMY OF SCIENCE 92(3):101-167. 1993-12-XX



California Department of Fish and Wildlife



41476 EO Index: 41476 Map Index Number:

Key Quad: Devore (3411724) **Element Code:** AFCJB3705K **Occurrence Number:** 5 Occurrence Last Updated: 2000-04-25

Scientific Name: Rhinichthys osculus ssp. 3 Common Name: Santa Ana speckled dace

Listing Status: Federal: None Rare Plant Rank:

> State: None Other Lists: AFS_TH-Threatened

CDFW_SSC-Species of Special Concern **CNDDB Element Ranks:** Global: G5T1

USFS_S-Sensitive S1

General Habitat: Micro Habitat:

State:

HEADWATERS OF THE SANTA ANA AND SAN GABRIEL RIVERS. MAY BE REQUIRES PERMANENT FLOWING STREAMS WITH SUMMER WATER EXTIRPATED FROM THE LOS ANGELES RIVER SYSTEM.

TEMPS OF 17-20 C. USUALLY INHABITS SHALLOW COBBLE AND

GRAVEL RIFFLES.

Last Date Observed: 1996-10-18 Occurrence Type: Natural/Native occurrence

Last Survey Date: 1996-10-18 Occurrence Rank: Fair

Trend: Owner/Manager: USFS-SAN BERNARDINO NF Unknown

Presence: Presumed Extant

Location:

LYTLE CREEK, MILLER NARROWS, 0.4 MILE WSW OF LYTLE CREEK RANGER STATION, 1 MILE SE OF SCOTLAND, ~5 MILES WNW OF DEVORE.

Detailed Location:

CHANNEL TYPE: 80% RUN AND 20% POOL. BOTTOM TYPE: BOULDERS, 10%; COBBLES, 30%; GRAVEL, 30%; SAND, 30%.

Ecological:

VEGETATION: MULEFAT, 70%; WILLOW, 30%.

Threats:

WATER DIVERSION BY SOUTHERN CALIFORNIA EDISON FOR POWERHOUSE, HEAVY PUBLIC USE.

General:

41 DACE OBSERVED IN OCTOBER, AND 17 DACE OBSERVED ON 11 JULY 1996. FISH PRESENT 1970 TO 1993.

PLSS: T02N, R06W, Sec. 26, NW (S) Area (acres): 8 Accuracy: specific area 2,780

UTM: Zone-11 N3787972 E455140 Latitude/Longitude: 34.23186 / -117.48709 Elevation (feet):

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

ROD96F0003 RODRIGUEZ, R. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - 2 FIELD SURVEY FORMS FOR RHINICHTHYS OSCULUS

(SANTA ANA SPECKLED DACE) 1996-10-18

SWI93R0001 SWIFT, C, ET AL. - THE STATUS AND DISTRIBUTION OF THE FRESHWATER FISHES OF SOUTHERN CALIFORNIA. BULLETIN OF

THE SOUTHERN CALIFORNIA ACADEMY OF SCIENCE 92(3):101-167. 1993-12-XX



Key Quad:

Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database

68464 Map Index Number:

San Bernardino South (3411713)

Occurrence Number:

Element Code:

EO Index:

68724

2007-03-14

AMACD04010

Occurrence Last Updated:

Scientific Name: Nyctinomops femorosaccus

State:

Federal:

Global:

None None

CNDDB Element Ranks:

G5

State: S3 Common Name: Rare Plant Rank:

Other Lists:

CDFW_SSC-Species of Special Concern

IUCN_LC-Least Concern

Natural/Native occurrence

Unknown

Unknown

pocketed free-tailed bat

WBWG_M-Medium Priority

General Habitat:

Listing Status:

Micro Habitat:

VARIETY OF ARID AREAS IN SOUTHERN CALIFORNIA; PINE-JUNIPER WOODLANDS, DESERT SCRUB, PALM OASIS, DESERT WASH, DESERT

RIPARIAN, ETC.

Occurrence Type:

Occurrence Rank:

Trend:

ROCKY AREAS WITH HIGH CLIFFS.

Last Date Observed: **Last Survey Date:**

1985-11-15

1985-11-15 Owner/Manager: **UNKNOWN**

Presence: Presumed Extant

Location:

SAN BERNARDINO.

Detailed Location:

MAPPED ACCORDING TO LAT/LONG COORDINATES PROVIDED BY MANIS, WITH UNCERTAINTY OF 14,858 M (9.2 MILES).

Ecological:

Threats:

General:

1 FEMALE SPECIMEN (MVZ #181965) COLLECTED AT "SAN BERNARDINO" BY DENNY G. CONSTANTINE ON 15 NOV 1985.

PLSS: T01S, R04W, Sec. 04 (S)

Accuracy:

5 miles

Area (acres):

0

Zone-11 N3775328 E472422

Latitude/Longitude: 34.11843 / -117.29904 Elevation (feet): 1,200

County Summary:

Quad Summary:

San Bernardino

Redlands (3411712), San Bernardino South (3411713), Fontana (3411714), Harrison Mtn. (3411722),

San Bernardino North (3411723), Devore (3411724)

Sources:

MAN05S0014

MAMMAL NETWORKED INFORMATION SYSTEM (MANIS) - PRINTOUT OF NYCTINOMOPS FEMOROSACCUS SPECIMEN RECORDS FROM MANIS. INCLUDES RECORDS FROM LACM, MVZ, FMNH AND KU. 2005-01-06



California Department of Fish and Wildlife





Key Quad:Devore (3411724)Element Code:AMAEB03051Occurrence Number:53Occurrence Last Updated:2010-11-09

Scientific Name: Lepus californicus bennettii Common Name: San Diego black-tailed jackrabbit

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T3T4

State: S3S4

General Habitat: Micro Habitat:

INTERMEDIATE CANOPY STAGES OF SHRUB HABITATS & OPEN COASTAL SAGE SCRUB HABITATS IN SOUTHERN CALIFORNIA.

SHRUB / HERBACEOUS & TREE / HERBACEOUS EDGES.

Last Date Observed: 2001-10-18 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2001-10-18

 Owner/Manager:
 PVT

 Trend:
 Unknown

Presence: Possibly Extirpated

Location:

LOCATED IN FONTANA, BETWEEN HIGHLAND AVE & SUMMIT AVE, ABUTING THE GILFILLAN AIRPORT & INTERSTATE 15.

Detailed Location:

Ecological:

2001: DISTURBED/FORMER AGRICULTURAL LAND, MAY HAVE BEEN USED FOR OLIVE AND GRAPE PRODUCTION. 2009: AERIAL PHOTOS SHOW THAT THE SITE HAS BEEN COMPLETELY DEVELOPED.

Threats:

AREA SURROUNDING SITE UNDERGOING SUBURBAN DEVELOPMENT. RESIDENTIAL HOUSING ON WEST, UNDEVELOPED LAND ON NORTH & EAST.

General:

ONE INDIVIDUAL OBSERVED ON 18 OCT 2001.

 PLSS:
 T01N, R06W, Sec. 26 (S)
 Accuracy:
 non-specific area
 Area (acres):
 248

 UTM:
 Zone-11 N3778248 E456577
 Latitude/Longitude:
 34.14423 / -117.47099
 Elevation (feet):
 1,500

County Summary:Quad Summary:San BernardinoDevore (3411724)

Sources:

TERO1F0002 TERACOR RESOURCE MANAGEMENT - FIELD SURVEY FORM FOR LEPUS CALIFORNICUS BENNETTII 2001-10-18



California Department of Fish and Wildlife



Map Index Number: 57768 **EO Index:** 58197

Key Quad:Devore (3411724)Element Code:AMAFD01041Occurrence Number:47Occurrence Last Updated:2004-11-19

Scientific Name: Perognathus longimembris brevinasus Common Name: Los Angeles pocket mouse

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T2

State: S1S2

General Habitat: Micro Habitat:

LOWER ELEVATION GRASSLANDS AND COASTAL SAGE COMMUNITIES OPEN GROUND WITH FINE, SANDY SOILS. MAY NOT DIG EXTENSIVE BURROWS, HIDING UNDER WEEDS AND DEAD LEAVES INSTEAD.

Last Date Observed: 2002-03-30 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2002-03-30

 Owner/Manager:
 PVT

 Trend:
 Unknown

Presence: Presumed Extant

Location:

ABUTTING INTERSTATE 215 ON SW, ABOUT 1.25 MILES WSW OF DEVORE.

Detailed Location:

CABLE CREEK RUNS THROUGH SW PORTION OF SITE.

Ecological:

HABITAT CONSISTS OF DENSE RIVERSIDEAN SAGE SCRUB, DENSE MATURE PHASE ALLUVIAL FAN SAGE SCRUB, RIPARIAN SPECIES, AGRICULTURAL, RUDERAL/DISTURBED FIELDS, EUCALYPTUS GROVE. OPEN PATCHES ARE WELL COVERED WITH EXOTIC SPECIES.

Threats

THREATENED BY THE PROXIMITY OF I-215 AND RESIDENTIAL DEVELOPMENT.

General:

18 INDIVIDUALS TRAPPED WHILE SURVEYING PROPOSED SECONDARY ACCESS ROUTE FOR MARTIN RANCH PROJECT ON 25-30 MAR 2002. TWO TRAP LINES OF 100 AND 120 TRAPS WERE SET (FOR A TOTAL OF 1100 TRAP-NIGHTS).

 PLSS:
 T02N, R05W, Sec. 35 (S)
 Accuracy:
 non-specific area
 Area (acres):
 82

 UTM:
 Zone-11 N3786214 E464855
 Latitude/Longitude:
 34.21638 / -117.38154
 Elevation (feet):
 2,000

County Summary: Quad Summary:

San Bernardino San Bernardino North (3411723), Devore (3411724)

Sources:

DOD02F0012 DODD, S. (S.C. DODD BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR PEROGNATHUS LONGIMEMBRIS BREVINASUS

2002-05-30

DOD02R0008 DODD, S. (S.C. DODD BIOLOGICAL CONSULTING) - RESULTS OF A LIVE-TRAPPING SURVEY FOR THE FEDERALLY-LISTED

ENDANGERED SAN BERNARDINO KANGAROO RAT ON THE SECONDARY ACCESS ROUTE FOR THE PROPOSED MARTIN RANCH

PROJECT. 2002-04-02



California Department of Fish and Wildlife



A9814 33010 Map Index Number: EO Index:

Key Quad: San Bernardino North (3411723) **Element Code:** AMAFD03143 2 2018-06-27 **Occurrence Number:** Occurrence Last Updated:

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Listing Status: Federal: Endangered Rare Plant Rank:

> State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

G5T1 State: S1

Global:

General Habitat: Micro Habitat:

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES NEEDS EARLY TO INTERMEDIATE SERAL STAGES. CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

Last Date Observed: 2017-11-XX Occurrence Type: Natural/Native occurrence

Last Survey Date: 2017-11-XX Occurrence Rank: Good

Owner/Manager: **PVT-CALMAT PROPERTIES** Trend: Unknown

Presence: Presumed Extant

AT THE CONFLUENCE OF CAJON AND LYTLE CREEK WASHES, BETWEEN MUSCOY AND RIALTO NORTH OF HWY 210.

Detailed Location:

MAPPED TO COORDINATES AND LOCATIONS WHEN PROVIDED FOR 1994-2015 DETECTIONS.

Ecological:

CNDDB Element Ranks:

ALLUVIAL FAN SAGE SCRUB ON RAISED BENCHES OF LAND ABOVE THE ACTIVE DRAINAGE BOTTOM & EXCAVATED PORTIONS OF DRAINAGE. AT LEAST PART OF OCCURRENCE PROTECTED AS CONSERVATION BANK. DISTURBANCE FROM MINING, SURROUNDING DEVELOPMENT, DIRT ROADS.

Threats:

Location:

THREATENED BY EXPANSION OF SAND & GRAVEL MINING (1994).

DETECTED, 1987-96. 143 CAPTURES, JUN 1994. AT LEAST 10 CAPTURED & 15 RELOCATED HERE, 1998. 22 CAPTURES IN 1999, 36 IN 2000, 22 IN 2001, 5 IN 2003, 3 IN 2004, 55 IN 2005, 83 IN 2006, 68 IN 2007, 44 IN 2008, 4 IN 2009, 4 IN 2015, 18 IN 2017.

PLSS: T01N, R05W, Sec. 23 (S) non-specific area Area (acres): 487 Accuracy: UTM: Zone-11 N3779664 E465667 Latitude/Longitude: 34.15734 / -117.37246 Elevation (feet): 1,464

County Summary: Quad Summary:

San Bernardino San Bernardino North (3411723), Devore (3411724)



California Department of Fish and Wildlife



California Natural Diversity Database

Sources:	
BRA01U0001	BRADEN, G EMAIL EXCHANGE BETWEEN G. BRADEN, T. MCKINNEY, AND S. LOVE ON ONGOING TRAPPING OF SAN BERNARDINO KANGAROO RATS. 2001-XX-XX
BRY09D0001	BRYLSKI, P SCIENTIFIC COLLECTING REPORT OF SPECIMENS CAPTURED OR SALVAGED [SC-008469]. 2009-XX-XX
BRY09R0001	BRYLSKI, P SAN BERNARDINO KANGAROO RAT LIVE-TRAPPING SURVEY SOUTHERN CALIFORNIA EDISON ARROWHEAD PROJECT. 2009-07-28
JER15U0001	JERICHO SYSTEMS - 45-DAY PRESENCE/ABSENCE SURVEY REPORT FOR LYTLE CREEK TURN OUT PROJECT SAN BERNARDINO KANGAROO RAT. 2015-09-07
LAR05R0001	LARRY MUNSEY INTERNATIONAL - DRAFT REPORT OF PRESENCE/ABSENCE TRAPPING SURVEY FOR SAN BERNARDINO KANGAROO RAT ON APPROXIMATE 90-ACRE SITE COMMUNITY OF MUSCOY. 2005-06-XX
MCK15F0006	MCKERNAN, M FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2015-10-11
MCK15F0007	MCKERNAN, M FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2015-10-11
MCK15F0008	MCKERNAN, M FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2015-10-11
MCK15U0001	MCKERNAN, M SAN BERNARDINO KANGAROO RAT PRESENCE/ABSENCE TRAPPING SURVEYS, LYTLE CREEK CONSERVATION BANK, SAN BERNARDINO COUNTY 2015-11-XX
MCK97U0002	MCKERNAN, R THE STATUS AND KNOWN DISTRIBUTION OF THE SAN BERNARDINO KANGAROO RAT (DIPODOMYS MERRIAMI PARVUS): FIELD SURVEYS CONDUCTED BETWEEN 1987 AND 1996 1997-09-XX
MEA06U0002	MEAD, P. (SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS) - U.S. FISH AND WILDLIFE SERVICE 45-DAY SURVEY REPORT. 2006-05-13
MEANDF0003	MEAD, P. (SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS) - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS XXXX-05-13
MON04U0001	MONTGOMERY, S. (SJM BIOLOGICAL CONSULTANTS) - RESULTS OF FOCUSED SAN BERNARDINO KANGAROO RAT SURVEYS ON THE SANTA ANA RIVER WATER RIGHT APPLICATION FOR SUPPLEMENTAL WATER SUPPLY PROJECT CONSTRUCTION SITES. 2004-08-26
OFA04R0002	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - SAN BERNARDINO MERRIAM'S KANGAROO RAT SURVEY, LYTLE CREEK TURNOUT PROJECT, RIALTO, SAN BERNARDINO COUNTY, CA 2004-10-14
OFA07R0002	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - LIVE-TRAPPING SURVEY FOR THE SAN BERNARDINO MERRIAM'S KANGAROO RAT AT LYTLE CREEK RANCH. 2007-08-31
OFA07U0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - LIVE TRAPPING SURVEY AT LYTLE CREEK RANCH PROJECT SITE. 2007-11-12
OFA94F0001	O'FARRELL, M.J FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 1994-06-XX
OFA94R0001	O'FARRELL, M.J UNPUBLISHED REPORT ON THE SURVEY FOR SAN BERNARDINO MERRIAM'S KANGAROO RAT ON A CALMAT PROJECT SITE. 1994-06-15
OFA95U0001	O'FARRELL, M.J SCIENTIFIC COLLECTING PERMIT REPORT FOR SMALL MAMMALS TRAPPED DURING 1993-94. 1995-04-07
OFA98U0002	O'FARRELL, M INFORMATION SUMMARY, SAN BERNARDINO MERRIAM'S KANGAROO RAT TRAP OUT AND TRANSLOCATION - CALMAT AREA "M" SHORT-TERM MONITORING 1998-09-04
OFA99F0004	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 1999-08-12
OFA99U0003	O'FARRELL, M SCIENTIFIC COLLECTING REPORT OF SPECIMENS COLLECTED, PERMIT #802010-01 1999-02-26
PBS09R0001	PBS&J (PBS&J) - REVISTED SAN BERNARDINO KANGAROO RAT PRESENCE/ABSENCE TRAPPING SURVEYS ON THE PROPOSED BBC CONSERVATION SITE, RIALTO. 2009-01-28

WANG, T. - EXCEL TABLE OF SAN BERNARDINO KANGAROO RAT DETECTION DATA, 2012-2017 2018-06-18

WAN18D0001



California Department of Fish and Wildlife



45085 EO Index: 45085 Map Index Number:

Key Quad: Devore (3411724) **Element Code:** AMAFD03143 **Occurrence Number:** 5 **Occurrence Last Updated:** 2018-05-25

Scientific Name: **Common Name:** Dipodomys merriami parvus San Bernardino kangaroo rat

Rare Plant Rank: **Listing Status:** Federal: Endangered

> State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

State: S1

General Habitat: Micro Habitat:

G5T1

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

Global:

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

Last Date Observed: 2000-11-18 Occurrence Type: Natural/Native occurrence

Last Survey Date: 2000-11-18 Occurrence Rank: Unknown Trend: Owner/Manager: **PVT** Unknown

Presumed Extant Presence:

Location:

NE OF THE INTERSECTION OF RIVERSIDE AVENUE AND SIERRA AVENUE, SOUTH OF I-15, RIALTO.

Detailed Location:

CNDDB Element Ranks:

BOTH CAPTURES WERE MADE EAST OF THE ELEVATED DIRT ROAD, EAST OF THE SCE TRANSMISSION TOWER.

Ecological:

HABITAT CONSISTS OF RIVERSIDEAN ALLUVIAL FAN SCRUB, DOMINATED BY CHAMISE (ADENSOTOMA FASCICULATUM). SAN DIEGO POCKET MOUSE WAS ALSO CAPTURED AT THIS SITE.

Threats:

General:

1 FEMALE WAS CAPTURED ON 3 OCCASIONS, 14-15 NOV 2000, AND 1 MALE WAS CAPTURED ON THE MORNING OF 18 NOV 2000 (1000 TRAPNIGHTS OF EFFORT).

PLSS: T01N, R05W, Sec. 8, SW (S) Accuracy: 80 meters Area (acres): 5 UTM: Zone-11 N3782517 E460026 Latitude/Longitude: 34.18286 / -117.4338 Elevation (feet): 2,004

County Summary: Quad Summary: Devore (3411724) San Bernardino

Sources:

LSA ASSOCIATES, INC. - MEMO FROM RICHARD ERICKSON AND LEO SIMONE TO USFWS REGARDING RIALTO SAN LSA00U0001

BERNARDINO KANGAROO RAT SURVEY, NOVEMBER 2000. 2000-11-27



California Department of Fish and Wildlife





Key Quad:Devore (3411724)Element Code:AMAFD03143Occurrence Number:27Occurrence Last Updated:2018-07-16

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Listing Status: Federal: Endangered Rare Plant Rank:

State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T1

State: S1

General Habitat: Micro Habitat:

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

Last Date Observed: 2013-08-01 Occurrence Type: Natural/Native occurrence

Last Survey Date:2013-08-01Occurrence Rank:GoodOwner/Manager:PVTTrend:Unknown

Presence: Presumed Extant

Location:

LYTLE CREEK WASH FROM ABOUT 0.3 MI UPSTREAM (NW) TO 1.2 MI DOWNSTREAM (SE) OF I-15, MUSCUPIABE.

Detailed Location:

INCLUDES LEVEE EXTENSION SITES (N OF I-15 & ADJACENT TO SUNWEST PROPERTY AT S END OF OCC) & LYTLE CREEK SBKR CONSERVATION AREA (S OF I-15). THE LATTER IS A 217.2-AC MITIGATION SITE FOR THE CONSTRUCTION OF SUBDIVISIONS ON N SIDE OF WASH.

Ecological:

WASH W/ISLANDS OF ALLUVIAL FAN/RIVERSIDEAN SAGE SCRUB. CONSERVATION AREA INCLUDED UNTREATED CONTROL PLOTS & TREATED MITIGATION PLOTS (SHRUBS/GRASS REMOVED); SBKR FAVORED TREATED PLOTS. BAD FIRES IN 2003, BAD FLOODING IN 2004-05.

Threats

PROPOSED EXTENSION OF LYTLE CREEK LEVEE (1998). FIRE (2003). FLOODING (2004-05). ADJACENT TO MINING & DEVELOPMENT.

General:

DETECTED, 1987-96. 11 DETECTED, 1997. 15+ TRAPPED IN 1998. 3 IN 2000. 34 IN 2002. 106 IN 2003 (INCL. 4 KILLED BY FIRE). 163 IN 2004. 26 IN 2005. 13 IN 2006. 68 IN 2007. 30 IN 2008. 65 IN 2009. 62 IN 2010. 31 IN 2011. 18 IN 2012. 14 IN 2013.

 PLSS:
 T01N, R05W, Sec. 17 (S)
 Accuracy:
 non-specific area
 Area (acres):
 309

 UTM:
 Zone-11 N3782042 E461253
 Latitude/Longitude:
 34.17862 / -117.42046
 Elevation (feet):
 1,892

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources: BAI09F0015

BAILEY, T. - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2009-08-12

BAILEY, T. - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2010-09-13

BAI10R0001 BAILEY, T. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - MEMORANDUM OF UNDERSTANDING FOR STEPHENS'

KANGAROO RAT, SAN BERNARDINO KANGAROO RAT, MORRO BAY KANGAROO RAT, LOS ANGELES POCKET MOUSE, AND

MOHAVE GROUND SQUIRREL-2010 ANNUAL REPORT 2010-10-25

BAILEY, T. - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2011-09-05

BAI12F0001 BAILEY, T. - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2012-05-18

BAIL2F0002 BAILEY, T. - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2012-08-25

BAI13F0001 BAILEY, T. - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2013-08-01

BAI13F0002 BAILEY, T. - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2013-04-08

BRA01U0001 BRADEN, G. - EMAIL EXCHANGE BETWEEN G. BRADEN, T. MCKINNEY, AND S. LOVE ON ONGOING TRAPPING OF SAN

BERNARDINO KANGAROO RATS. 2001-XX-XX



RAM97R0001

SJM98R0001

Occurrence Report

California Department of Fish and Wildlife



California Natural Diversity Database

DIVERSITY DA	California Natural Diversity Database
KIR98R0004	KIRTLAND BIOLOGICAL SERVICES - PRESENCE/ABSENCE TRAPPING STUDIES FOR THE SAN BERNARDINO KANGAROO RAT, CAJON FIBRE OPTICS, SAN BERNARDINO COUNTY, CALIFORNIA. 1998-07-25
MCK97U0002	MCKERNAN, R THE STATUS AND KNOWN DISTRIBUTION OF THE SAN BERNARDINO KANGAROO RAT (DIPODOMYS MERRIAMI PARVUS): FIELD SURVEYS CONDUCTED BETWEEN 1987 AND 1996 1997-09-XX
MON98R0003	MONTGOMERY, S. (SJM BIOLOGICAL CONSULTANTS) - RESULTS OF A LIVE-TRAPPING SURVEY FOR THE SAN BERNARDINO MERRIAM'S KANGAROO RAT ON THE LYTLE CREEK PROJECT IN THE COUNTY OF SAN BERNARDINO 1998-07-01
MON99U0001	MONTGOMERY, S. (SJM BIOLOGICAL CONSULTANTS) - SURVEY RESULTS SUMMARY SHEET 1999-03-05
OFA02R0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - LIVE-TRAPPING SURVEY FOR SAN BERNARDINO MERRIAM'S KANGAROO RAT, DIPODOMYS MERRIAMI PARVUS, AT THE LYTLE CREEK NORTH PROJECT SITE 2002-12-09
OFA04F0005	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2004-06-23
OFA04F0007	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2004-09-21
OFA04R0001	O'FARRELL, M.J. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2003. 2004-02-XX
OFA05R0001	O'FARRELL, M.J. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2004. 2005-01-XX
OFA06R0001	O'FARRELL, M.J. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2005. 2006-08-XX
OFA07F0002	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2007-09-17
OFA07R0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2006 2007-02-XX
OFA07R0002	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - LIVE-TRAPPING SURVEY FOR THE SAN BERNARDINO MERRIAM'S KANGAROO RAT AT LYTLE CREEK RANCH. 2007-08-31
OFA07U0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - LIVE TRAPPING SURVEY AT LYTLE CREEK RANCH PROJECT SITE. 2007-11-12
OFA08R0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2007 2008-01-XX
OFA09R0001	O'FARRELL, M.J. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2008 2009-05-XX
OFA10U0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - EMAIL FROM M. O'FARRELL REGARDING SBKR TRAPPING AT LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, FROM 2003 TO 2007. 2010-02-03
OFA11R0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2010 2011-03-XX
PCR00R0002	RAMIREZ, R. (PCR SERVICES CORPORATION) - SAN BERNARDINO KANGAROO RAT PROPOSED LEVEE EXTENSION TRAPPING PROGRAM. LYTLE CREEK NORTH VILLAGE PROPERTY, SAN BERNARDINO COUNTY, CALIFORNIA. 2000-07-XX

RAMIREZ, R. (PLANNING CONSULTANTS RESEARCH) - POPULATION DENSITIES OF THE SAN BERNARDINO KANGAROO RAT

SJM BIOLOGICAL CONSULTANTS - RESULTS OF A PRESENCE/ABSENCE TRAPPING STUDY FOR THE SAN BERNARDINO

KANGAROO RAT FOR THE NORTHERN EXTENSION OF THE NORTH LEVEE ON THE LYTLE DEVELOPMENT COMPANY

AND LOS ANGELES POCKET MOUSE FOR THE LYTLE CREEK NORTH VILLAGE PROJECT 1997-09-06

PROPERTY 1998-08-30



California Department of Fish and Wildlife



Map Index Number: 71080 **EO Index:** 71998

Key Quad:Devore (3411724)Element Code:AMAFD03143Occurrence Number:28Occurrence Last Updated:2018-07-26

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Listing Status: Federal: Endangered Rare Plant Rank:

State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T1

State: S1

General Habitat: Micro Habitat:

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

Last Date Observed: 2002-02-17 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2005-08-14
 Occurrence Rank:
 Unknown

 Owner/Manager:
 SBD COUNTY
 Trend:
 Unknown

Presence: Presumed Extant

Location:

SAN SEVAINE BASIN, 0.40 MI NNW OF THE INTERSECTION OF INTERSTATE 15 AND CALIFORNIA STATE HIGHWAY 30.

Detailed Location:

MAPPED TO LOCATIONS GIVEN FOR 2002 DETECTIONS IN BASIN #5. 2004-2005 SURVEYS IMMEDIATELY TO N AND SW; INCLUDED SAN SEVAINE BASINS #4 & 5.

Ecological:

HABITAT CONSISTS OF ALLUVIAL FAN SAGE SCRUB (AFSS) AND HIGHLY DISTURBED SUBSTRATE, NEARLY DEVOID OF VEGETATION. SBKR WERE CAUGHT IN HABITAT WITH A VEGETATION COVER DOMINATED BY CALIFORNIA BUCKWHEAT.

Threats:

AIR PHOTOS INDICATE DISTURBANCE FROM FLOOD CONTROL PROJECT CONSTRUCTION AND MAINTENANCE.

General:

1 SCROTAL ADULT MALE & 1 NON-LACTATING ADULT FEMALE TRAPPED IN 500 TRAPNIGHTS, 16-17 FEB 2002. NONE DETECTED AT BASIN #4 IN 600 TRAPNIGHTS, 1-6 AUG; OR N OF BASINS IN DEC 2004. NONE DETECTED AT BASIN #5 IN 500 TRAPNIGHTS, 9-14 AUG 2005.

 PLSS:
 T01N, R06W, Sec. 27 (S)
 Accuracy:
 1/10 mile
 Area (acres):
 0

 UTM:
 Zone-11 N3777841 E453819
 Latitude/Longitude:
 34.14044 / -117.50089
 Elevation (feet):
 1,440

County Summary: Quad Summary:

San Bernardino Devore (3411724), Cucamonga Peak (3411725)

Sources:

KIN05R0001 KINDT, K. & T. FAY (SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS) - 2004 REPORT FOR SMALL MAMMAL

TRAPPING FOR THE SAN SEVAINE CREEK WATER PROJECT MITIGATION MEASURES. 2005-04-05

LAW02R0001 LAWREY, S. (SAN BERNARDINO COUNTY) - PRESENCE/ABSENCE TRAPPING STUDY FOR THE SAN BERNARDINO KANGAROO

RAT IN SAN SAVAINE BASIN NO. 5, SAN BERNARDINO COUNTY, CALIFORNIA. 2002-02-XX

ROM07U0001 ROMICH, K. (SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS) - EMAILS AND TABLE REGARDING SAN

BERNARDINO KANGAROO RAT TRAPPING LOCATIONS. 2007-08-14



California Department of Fish and Wildlife



71081 EO Index: 71999 Map Index Number:

Key Quad: Devore (3411724) **Element Code:** AMAFD03143 **Occurrence Number:** Occurrence Last Updated: 2008-03-26 29

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Rare Plant Rank: **Listing Status:** Federal: Endangered

> State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

State: S1

General Habitat: Micro Habitat:

G5T1

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

Global:

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

Last Date Observed: 2002-04-28 Occurrence Type: Natural/Native occurrence

Last Survey Date: 2002-04-28 Occurrence Rank: Unknown Trend: Owner/Manager: SBD COUNTY Unknown

Presumed Extant Presence:

Location:

SAN SEVAINE DRAINAGE, ABOUT 0.75 MILE NNE OF THE INTERSECTION OF I-15 AND HWY 30.

Detailed Location:

CNDDB Element Ranks:

BASIN 3 OF THE SAN SEVAINE DRAINAGE.

Ecological:

SITE IS USED AS WATER STORAGE AND PERCOLATION BASIN. OTHER SENSITIVE SPECIES IN AREA: CHAETODIPUS FALLAX FALLAX AND NEOTOMA LEPIDA INTERMEDIA.

BASIN IS SCHEDULED FOR IMPROVEMENT TO INCREASE WATER STORAGE AND PERCOLATION CAPACITY.

General:

2 CAPTURES IN 1 OUT OF 5 TRANSECTS (975 TRAP NIGHTS) FROM 23-28 APR 2002.

PLSS: T01N, R06W, Sec. 27 (S) Accuracy: non-specific area Area (acres): 16 UTM: Zone-11 N3778438 E454739 Latitude/Longitude: 34.14586 / -117.49094 Elevation (feet): 1,470

County Summary: Quad Summary: San Bernardino Devore (3411724)

Sources:

NRA02R0003 NATURAL RESOURCES ASSESSMENT, INC. - SAN BERNARDINO KANGAROO RAT PRESENCE/ABSENCE TRAPPING STUDIES

FOR THE SAN SEVAINE BASINS 1-4 IMPROVEMENT PROJECT. 2002-07-23



California Department of Fish and Wildlife





Key Quad: Devore (3411724) **Element Code:** AMAFD03143 **Occurrence Number:** 31 Occurrence Last Updated: 2008-03-27

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Federal: Rare Plant Rank: **Listing Status:** Endangered

> Other Lists: State: Candidate Endangered CDFW_SSC-Species of Special Concern

State: S1

Global:

General Habitat: Micro Habitat:

G5T1

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES

NEEDS EARLY TO INTERMEDIATE SERAL STAGES. CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

Last Date Observed: 2002-01-11 Occurrence Type: Natural/Native occurrence

Last Survey Date: 2002-01-11 Occurrence Rank: Fair Owner/Manager: **UNKNOWN** Trend: Unknown

Presumed Extant Presence:

Location:

SOUTHWEST OF THE INTERSECTION OF WEST CASA GRANDE DR AND SIERRA AVE.

Detailed Location:

CNDDB Element Ranks:

Ecological:

HABITAT CONSISTS OF RIVERSIDEAN ALLUVIAL FAN SCRUB.

Threats:

General:

3 INDIVIDUALS CAPTURED DURING 2 TRAPPING SESSIONS: 2-7 DEC 2001 AND 6-11 JAN 2002.

PLSS: T01N, R05W, Sec. 19 (S) Accuracy: non-specific area Area (acres): 61 UTM: Zone-11 N3779547 E459437 Latitude/Longitude: 34.15606 / -117.44004 Elevation (feet): 1,750

Quad Summary: County Summary:

Devore (3411724) San Bernardino

Sources:

BRA02R0004 MICHAEL BRANDMAN ASSOCIATES - SAN BERNARDINO KANGAROO RAT PRESENCE/ABSENCE TRAPPING STUDIES ON NORTH

FONTANA PROPERTIES. 2002-02-XX



California Department of Fish and Wildlife



78094 Map Index Number: EO Index: 78975

Key Quad: Devore (3411724) **Element Code:** AMAFD03143 **Occurrence Number:** 37 Occurrence Last Updated: 2018-06-26

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Listing Status: Federal: Endangered Rare Plant Rank:

> State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

Global:

S1 State:

General Habitat: Micro Habitat:

G5T1

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

Last Date Observed: 2004-07-31 Occurrence Type: Natural/Native occurrence

Last Survey Date: 2004-07-31 Occurrence Rank: None Owner/Manager: **PVT-LYTLE DEVELOPMENT** Trend: Unknown

Presence: Possibly Extirpated

Location:

LYTLE CREEK NORTH COMMUNITY, 0.6 MI ESE OF I-15 AND VERDEMONT RANCH ROAD JUNCTION, ABOUT 2.4 MILES SSW OF DEVORE.

Detailed Location:

CNDDB Element Ranks:

ALONG AND TO THE NORTH OF VERDEMONT RANCH ROAD, MAPPED ACCORDING TO PROVIDED MAPS.

Ecological:

REMOVAL TRAPPING CONDUCTED PRIOR TO RESIDENTIAL DEVELOPMENT. WHOLE AREA SURVEYED; SBKR WERE ONLY FOUND IN THIS 21 ACRE PLOT. 2009: AERIAL IMAGE SHOWS THAT AREA HAS BEEN GRADED FOR DEVELOPMENT & THE SPECIES IS LIKELY EXTIRPATED FROM SITE.

Threats:

DEVELOPMENT.

General:

6 TRAPPED, NOV 2002. REMOVAL TRAPPING CONDUCTED 24-31 JUL 2004; 1 ADULT MALE, 3 MALE & 2 FEMALE JUVENILES WERE RELOCATED TO THE 24-ACRE MITIGATION PLOT TO THE SOUTH (OCC #27).

PLSS: T01N, R05W, Sec. 8, E (S) Area (acres): 31 Accuracy: non-specific area UTM: Zone-11 N3782829 E461284 Latitude/Longitude: 34.18572 / -117.42016 Elevation (feet): 1,928

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - LIVE-TRAPPING SURVEY FOR SAN BERNARDINO MERRIAM'S OFA02R0001

KANGAROO RAT, DIPODOMYS MERRIAMI PARVUS, AT THE LYTLE CREEK NORTH PROJECT SITE 2002-12-09

OFA05R0001 O'FARRELL, M.J. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR

CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL

ANNUAL REPORT FOR 2004. 2005-01-XX

OFA10U0001 O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - EMAIL FROM M. O'FARRELL REGARDING SBKR TRAPPING AT LYTLE

CREEK NORTH MASTER PLANNED COMMUNITY, FROM 2003 TO 2007. 2010-02-03



California Department of Fish and Wildlife



Map Index Number: 78137 **EO Index:** 79028

Key Quad:Devore (3411724)Element Code:AMAFD03143Occurrence Number:42Occurrence Last Updated:2018-08-14

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Listing Status: Federal: Endangered Rare Plant Rank:

State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

State: S1

G5T1

Global:

General Habitat: Micro Habitat:

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES NEEDS EARLY TO INTERMEDIATE SERAL STAGES. CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

Last Date Observed: 2002-03-12 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2002-03-12

 Owner/Manager:
 UNKNOWN

 Trend:
 Unknown

Presence: Presumed Extant

Location:

CAJON WASH, ABOUT 1.25-1.6 MI SE OF THE I-15/I-215 INTERCHANGE, GLEN HELEN REGIONAL PARK AREA, SE OF DEVORE.

Detailed Location:

CNDDB Element Ranks:

SPECIMENS FROM "CAJON WASH," "DEVORE, 0.5 MI S OF" "6 MI N SAN BERNARDINO" OR SIMILAR ATTRIBUTED HERE. 1987-96 DETECTIONS IN NE1/4 SEC 3. MAPPED TO CENTERPOINTS GIVEN FOR 2000-01 DETECTIONS AT TRAP SITE "GH" & LEVEL 3 FIBER OPTICS SITE.

Ecological:

GOOGLE EARTH AIR PHOTOS SHOW THAT THE VICINITY OF THE 12 JUN 2000 DETECTIONS HAS BEEN DEVELOPED.

Threats:

DEVELOPMENT HAS REDUCED THE AMOUNT OF AVAILABLE HABITAT.

General:

14 COLLECTED IN 1908; 37 IN 1931; 3 IN 1932; 1 IN 1939 & 1951; 2 IN 1956. DETECTED IN VICINITY, 1987-1996. UP TO 33 CAUGHT & RELEASED MAR-DEC; 7 DETECTED ON 12 JUN 2000. UP TO 17 TRAPPED JAN-NOV 2001. 14 TRAPPED JAN-MAR 2002.

 PLSS:
 T01N, R05W, Sec. 3 (S)
 Accuracy:
 non-specific area
 Area (acres):
 65

 UTM:
 Zone-11 N3785302 E463884
 Latitude/Longitude:
 34.20813 / -117.39204
 Elevation (feet):
 1,931

County Summary: Quad Summary:

San Bernardino Devore (3411724)



California Department of Fish and Wildlife



California Natural Diversity Database

Sources:	
ANO32S0012	ANONYMOUS - SBMNH #7040 COLLECTED FROM CAJON WASH. 1932-04-19
BRA01U0001	BRADEN, G EMAIL EXCHANGE BETWEEN G. BRADEN, T. MCKINNEY, AND S. LOVE ON ONGOING TRAPPING OF SAN BERNARDINO KANGAROO RATS. 2001-XX-XX
CAR03R0001	CARTER, K. & G. BRADEN (SAN BERNARDINO COUNTY MUSEUM) - SURVEY RESULTS FOR THE SAN BERNARDINO KANGAROO RAT IN THE SAN BERNARDINO NATIONAL FOREST (LYTLE CREEK, CAJON CREEK, BAUTISTA CANYON) WITH SUPPLEMENTAL SURVEY RESULTS. 2003-02-XX
HAR56S0037	HARDY, R CSULB #1630 COLLECTED 6 MILES NORTH OF SAN BERNARDINO 1956-10-28
HAR56S0038	HARDY, R CSULB #2392 COLLECTED 6 MILES NORTH OF SAN BERNARDINO ON US 91 1956-10-28
MCK97U0002	MCKERNAN, R THE STATUS AND KNOWN DISTRIBUTION OF THE SAN BERNARDINO KANGAROO RAT (DIPODOMYS MERRIAMI PARVUS): FIELD SURVEYS CONDUCTED BETWEEN 1987 AND 1996 1997-09-XX
OFA00U0004	O'FARRELL, M INFORMATION SUMMARY, LEVEL 3 FIBER OPTICS PROJECT. 2000-07-09
SWA08S0013	SWARTH, H MVZ #2540, 2541, 2542, 2543 COLLECTED FROM CAJON WASH, SAN BERNARDINO. 1908-10-02
SWA08S0014	SWARTH, H MVZ #2545 COLLECTED FROM CAJON WASH, SAN BERNARDINO. 1908-10-04
SWA08S0015	SWARTH, H MVZ #2546 & 2547 COLLECTED FROM CAJON WASH, SAN BERNARDINO 1908-10-05
SWA08S0016	SWARTH, H MVZ #2544 COLLECTED FROM CAJON WASH, SAN BERNARDINO. 1908-10-03
VAU51S0001	VAUGHAN, T KU #45269 COLLECTED FROM DEVORE, 0.5 MI S OF, CAJON WASH 1951-11-26
VAU54A0001	VAUGHAN, T MAMMALS OF THE SAN GABRIEL MOUNTAINS OF CALIFORNIA. UNIVERSITY OF KANSAS PUBLICATIONS, MUSEUM OF NATURAL HISTORY 7(9):513-582 1954-XX-XX
WIL08S0015	WILDER, H MVZ #2550 COLLECTED FROM CAJON WASH, SAN BERNARDINO. 1908-10-03
WIL08S0016	WILDER, H MVZ #2551 COLLECTED FROM CAJON WASH, SAN BERNARDINO. 1908-10-04
WIL08S0017	WILDER, H MVZ #2548 & 2549 COLLECTED FROM CAJON WASH, SAN BERNARDINO. 1908-10-02
WIL08S0018	WILDER, H MVZ #9377 COLLECTED FROM CAJON WASH, SAN BERNARDINO. 1908-10-05
WIL08S0026	WILDER, H MVZ #9377 COLLECTED FROM CAJON WASH, SAN BERNARDINO 1908-10-05
WIL31S0004	WILLETT, G LACM #002305, 002306, 002307, 002308 COLLECTED FROM CAJON WASH. 1931-03-08
WIL31S0005	WILLETT, G LACM #002355, 002356, 002357, 002362, 002363, 002364, 002365, 002366, 002367, 002368, 002369, 002370, 002371 COLLECTED FROM CAJON WASH. 1931-03-22
WIL31S0006	WILLETT, G LACM #002152, 002153, 002154, 002155, 002156, 002157, 002158, 002159 COLLECTED FROM CAJON WASH 1931-01-18
WIL31S0007	WILLETT, G LACM #2160 COLLECTED FROM CAJON WASH 1931-01-18
WIL31S0008	WILLETT, G LACM #002574, 002575, 002576 COLLECTED FROM CAJON WASH 1931-05-08
WIL31S0009	WILLETT, G LACM #002760, 002761, 002762, 002763, 002764, 002765, 002766, 002767 COLLECTED FROM CAJON WASH. 1931-09-13
WIL32S0002	WILLETT, G LACM #003126 COLLECTED FROM CAJON WASH. 1932-04-03
WIL39S0031	WILLETT, G LACM #52839 COLLECTED FROM CAJON WASH. 1939-08-06



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife





Key Quad: Devore (3411724) **Element Code:** AMAFD03143 **Occurrence Number:** 47 Occurrence Last Updated: 2018-05-29

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Federal: Rare Plant Rank: **Listing Status:** Endangered

> Other Lists: State: Candidate Endangered CDFW_SSC-Species of Special Concern

G5T1 S1 State:

Global:

General Habitat: Micro Habitat:

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES NEEDS EARLY TO INTERMEDIATE SERAL STAGES. CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

Last Date Observed: 1982-06-14 Occurrence Type: Natural/Native occurrence

Last Survey Date: 1982-06-14 Occurrence Rank: Unknown

Owner/Manager: USFS-SAN BERNARDINO NF, UNK Trend: Unknown

Presumed Extant Presence:

CAJON CANYON, 1 MILE NNE OF SYCAMORE CANYON, 1 MILE WEST OF DEVORE.

Detailed Location:

MSB RECORD LOCALITY STATES "1 MILE W OF DEVORE." EXACT COLLECTION LOCATIONS UNKNOWN.

Ecological:

Location:

Threats: General:

MSB SPECIMEN #47562-47564 COLLECTED BY JOSEPH COOK AND #47569 & 47570 COLLECTED BY ROBERT M. SULLIVAN ON 14 JUN 1982.

PLSS: T02N, R05W, Sec. 32 (S) Accuracy: 2/5 mile Area (acres):

UTM: Zone-11 N3786316 E461423 Latitude/Longitude: 34.21718 / -117.41880 Elevation (feet): 2,212

Quad Summary: County Summary:

Devore (3411724) San Bernardino

Sources:

COO82S0001 COOK, J. - MSB #47562, 47563, 47564 COLLECTED 1 MI W DEVORE. 1982-06-14 SUL82S0001 SULLIVAN, R. - MSB #47569 & 47570 COLLECTED 1 MI W DEVORE. 1982-06-14



California Department of Fish and Wildlife



Map Index Number: 78457 **EO Index:** 79380

Key Quad:Devore (3411724)Element Code:AMAFD03143Occurrence Number:51Occurrence Last Updated:2018-06-06

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Listing Status: Federal: Endangered Rare Plant Rank:

State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T1

State: S1

General Habitat: Micro Habitat:

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

Last Date Observed: 2016-02-01 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2016-02-01
 Occurrence Rank:
 Fair

 Owner/Manager:
 PVT-CEMEX
 Trend:
 Unknown

Presence: Presumed Extant

Location:

LYTLE CREEK WASH, ABOUT 0.75 MI SE OF LAPIS LN AT RUBELLITE CT & 0.8 MI NNE OF RIVERSIDE AVE AT LOCUST AVE.

Detailed Location:

FORMER SUNWEST MATERIALS SITE, NOW OWNED BY CEMEX. EXACT LOCATION OF 2000 DETECTION NOT KNOWN. MAPPED TO SPECIFIC LOCATIONS GIVEN FOR DETECTIONS IN 2015 AT "AREA B" LEVEE REPAIR PROJECT STUDY SITE & IN 2016 AT RIPRAP INSTALLATION SITE.

Ecological:

2000: QUARRY PIT & ADJACENT UNDEVELOPED AREA; LEVEL TERRAIN W/ANNUAL GRASSLAND & REEMERGENT DISTURBED SAGE SCRUB VEG IN LOAMY-SANDY SOILS. 2015: RIVERSIDEAN ALLUVIAL FAN SAGE SCRUB IN LYTLE CREEK ADJACENT TO CEMEX MINING PIT.

Threats:

MINING (2000). LEVEE REPAIR PROJECT (2015). FLOOD EROSION/DEPOSITION, SAND/GRAVEL MINING, RIPRAP INSTALLATION (2016).

General:

2 INDIVIDUALS DETECTED, 6 MAR 2000. DETECTED IN AREA, 2012. 3 TRAPPED, 6-9 JAN 2015. 1 TRAPPED 5 DEC 2015, HELD DURING CONSTRUCTION, & RETURNED TO ARTIFICIAL BURROW ADJACENT TO WORKSITE 1 FEB 2016; CAPTURE RATE INDICATED UNCOMMON AT SITE.

 PLSS:
 T01N, R05W, Sec. 16, E (S)
 Accuracy:
 specific area
 Area (acres):
 12

 UTM:
 Zone-11 N3781318 E462964
 Latitude/Longitude:
 34.17216 / -117.40186
 Elevation (feet):
 1,702

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

LAW15U0001 LAWREY, S. - LETTER REPORT OF THE FOCUSED SAN BERNARDINO KANGAROO RAT PRESENCE OR ABSENCE SURVEYS FOR

THE CEMEX LYTLE CREEK SOUTH LEVEE REPAIR PROJECT. 2015-01-22

MON00F0009 MONTGOMERY, S.J. (SJM BIOLOGICAL CONSULTANTS) - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2000-03-06

MON15F0018 MONTGOMERY, S. & L. SIMPSON (SJM BIOLOGICAL CONSULTANTS) - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI

PARVUS 2015-03-12

MON16R0002 MONTGOMERY, S. (SJM BIOLOGICAL CONSULTANTS) - RESULTS OF A TRAPPING SURVEY FOR THE SAN BERNARDINO

KANGAROO RAT AT THREE LOCATIONS AT THE LYTLE CREEK INTERIM PROTECTION PROJECT SITE AT THE CEMEX PLANT

ALONG RIVERSIDE AVENUE. 2016-02-26



California Department of Fish and Wildlife



Map Index Number: A9525 EO Index: 111375

Key Quad:Devore (3411724)Element Code:AMAFD03143Occurrence Number:58Occurrence Last Updated:2018-05-23

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Listing Status: Federal: Endangered Rare Plant Rank:

State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

State: S1

G5T1

General Habitat: Micro Habitat:

General Habitat.

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

Global:

Last Date Observed: 2010-10-07 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2010-10-07

 Owner/Manager:
 SBD COUNTY FLOOD CONTROL DIST

 Trend:
 Unknown

Presence: Presumed Extant

Location:

EAST SIDE OF SAN SEVAINE RD, FROM ABOUT 0.3 TO 0.6 MILES NNW OF ITS INTERSECTION WITH WILSON AVE, RANCHO CUCAMONGA.

Detailed Location:

CNDDB Element Ranks:

MAPPED TO PROVIDED MAP AND DESCRIPTION. SAN SEVAINE SPREADING GROUNDS, DETECTED IN TRAP LINES A AND C.

Ecological:

DETECTED ON UPLANDS ADJACENT TO ACTIVE WASH. GOOD QUALITY ALLUVIAL FAN SCRUB HABITAT PRESENT. SURROUNDING LAND USES INCLUDED OPEN SPACE, FLOOD CONTROL, RESIDENTIAL. DISTURBANCE FROM TRAILS, ROADS, POWERLINES, FLOOD CONTROL, FENCES.

Threats:

DEVELOPMENT, STREAMBED (WASH) ALTERATION, FLOOD CONTROL ACTIVITIES (2010).

General:

2 ADULT MALES CAUGHT AND RELEASED DURING 1230 TRAP NIGHTS, 2-7 OCT 2010.

UTM: Zone-11 N3779517 E454467 **Latitude/Longitude:** 34.15558 / -117.49396 **Elevation (feet):** 1,576

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

ENV10R0003 ENVIRA (ENVIRA) - PRESENCE/ABSENCE TRAPPING STUDIES FOR THE SAN BERNARDINO KANGAROO SAN SEVAINE

SPREADING GRÓUNDS. 2010-10-26



California Department of Fish and Wildlife



Map Index Number: A9552 EO Index: 111405

Key Quad:Devore (3411724)Element Code:AMAFD03143Occurrence Number:59Occurrence Last Updated:2018-06-27

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Listing Status: Federal: Endangered Rare Plant Rank:

State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

Occurrence Rank:

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

Fair

CNDDB Element Ranks: Global: G5T1

State: S1

General Habitat: Micro Habitat:

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

2003-11-06

HARACTERISTIC OF ALLOVIAL PAINS AND FLOOD FLAINS.

Last Date Observed: 2003-11-06 Occurrence Type: Natural/Native occurrence

Owner/Manager: PVT, CITY OF FONTANA Trend: Unknown

Presence: Presumed Extant

Location:

ABOUT 0.5 TO 0.8 MI SW OF SIERRA AVE AT SEGOVIA LN AND 0.7 MI E TO 1.1 MI ENE OF I-15 AT DUNCAN CANYON RD, FONTANA.

Detailed Location:

Last Survey Date:

MAPPED TO LOCATION GIVEN FOR 2002 DETECTIONS AT TRAP SITE 27, NORTH FONTANA PROPERTIES, & SITE 6F, DUNCAN CANYON WATER LINE PROJECT. 2003 DETECTION LOCATION ONLY GIVEN AS SE 1/4 SEC 1/4 SEC 18 AND NE 1/4 NE 1/4 SEC 19; ATTRIBUTED HERE.

Ecological:

2002: REMNANT POPULATION PERSISTED ON FRAGMENTS OF MATURE AND DISTURBED ALLUVIAL SAGE FAN SCRUB IN THE FONTANA FAN. 2003: PUBLIC RIGHT-OF-WAY THROUGH PRIVATE LAND (DUNCAN CANYON WATER LINE?); DISTURBANCE FROM VEHICLES, DUMPING, & FIRE.

Threats:

DEVELOPMENT AND INCREASING URBANIZATION OF REGION.

General:

2 ADULT MALES CAUGHT DURING 250 TRAP NIGHTS IN 2002. 1 ADULT DETECTED ON 6 NOV 2003.

 PLSS:
 T01N, R05W, Sec. 18, S (S)
 Accuracy:
 specific area
 Area (acres):
 10

 UTM:
 Zone-11 N3780716 E459184
 Latitude/Longitude:
 34.16659 / -117.44285
 Elevation (feet):
 1,835

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

MCG03R0002 MCGILL, T. (MICHAEL BRANDMAN ASSOCIATES) - SAN BERNARDINO KANGAROO RAT PRESENCE/ABSENCE TRAPPING

STUDIES ON NORTH FONTANA PROPERTIES 2003-02-XX

NRA03R0002 NATURAL RESOURCES ASSESSMENT, INC. (NATURAL RESOURCES ASSESSMENT, INC.) - FOCUSED BIOLOGICAL ASSESSMENT

DUNCAN CANYON (ZONES 6 AND 7) V6 WATERLINE PROJECT. 2003-04-14

VER03F0002 VERGNE, P. - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2003-11-06



California Department of Fish and Wildlife



Map Index Number: A9554 EO Index: 111408

Key Quad:Devore (3411724)Element Code:AMAFD03143Occurrence Number:60Occurrence Last Updated:2018-05-24

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Listing Status: Federal: Endangered Rare Plant Rank:

State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

04

State: S1

General Habitat: Micro Habitat:

G5T1

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

Global:

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

Last Date Observed: 2002-12-15 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2002-12-15

 Owner/Manager:
 PVT

 Trend:
 Unknown

Presence: Possibly Extirpated

Location:

ABOUT 1.2 MI SW OF SIERRA AVE AT SEGOVIA LN AND 1.0 MI SE OF I-15 AT DUNCAN CANYON RD, FONTANA.

Detailed Location:

CNDDB Element Ranks:

MAPPED TO LOCATION GIVEN FOR DETECTION AT TRAP SITE 6, NORTH FONTANA PROPERTIES.

Ecological:

REMNANT POPULATION PERSISTED ON FRAGMENTS OF MATURE AND DISTURBED ALLUVIAL SAGE FAN SCRUB IN THE FONTANA FAN.

Threats:

GOOGLE EARTH AIR PHOTOS SHOW THAT SITE HAS BEEN DEVELOPED.

General:

1 ADULT MALE & 2 ADULT FEMALES CAUGHT DURING 150 TRAP NIGHTS IN 2002.

 PLSS:
 T01N, R05W, Sec. 19, SW (S)
 Accuracy:
 80 meters
 Area (acres):
 5

 UTM:
 Zone-11 N3779657 E458747
 Latitude/Longitude:
 34.15702 / -117.44754
 Elevation (feet):
 1,723

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

MCG03R0002 MCGILL, T. (MICHAEL BRANDMAN ASSOCIATES) - SAN BERNARDINO KANGAROO RAT PRESENCE/ABSENCE TRAPPING

STUDIES ON NORTH FONTANA PROPERTIES 2003-02-XX



California Department of Fish and Wildlife



Map Index Number: A9555 EO Index: 111409

Key Quad:Devore (3411724)Element Code:AMAFD03143Occurrence Number:61Occurrence Last Updated:2018-05-24

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Listing Status: Federal: Endangered Rare Plant Rank:

State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T1

State: S1

General Habitat: Micro Habitat:

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

Last Date Observed: 2002-12-15 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2002-12-15

 Owner/Manager:
 PVT

 Trend:
 Unknown

 Unknown

Presence: Presumed Extant

Location:

ABOUT 0.5 MI NW OF SIERRA AVE AT SEGOVIA LN AND 1.3 MI NE OF I-15 AT DUNCAN CANYON RD, FONTANA.

Detailed Location:

MAPPED TO LOCATION GIVEN FOR DETECTION AT TRAP SITE 16, NORTH FONTANA PROPERTIES.

Ecological:

REMNANT POPULATION PERSISTED ON FRAGMENTS OF MATURE AND DISTURBED ALLUVIAL SAGE FAN SCRUB IN THE FONTANA FAN.

Threats:

DEVELOPMENT.

General:

2 ADULT MALES CAUGHT DURING 150 TRAP NIGHTS IN 2002.

 PLSS:
 T01N, R05W, Sec. 18, NE (S)
 Accuracy:
 80 meters
 Area (acres):
 5

 UTM:
 Zone-11 N3781762 E459167
 Latitude/Longitude:
 34.17602 / -117.44308
 Elevation (feet):
 1,945

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

MCG03R0002 MCGILL, T. (MICHAEL BRANDMAN ASSOCIATES) - SAN BERNARDINO KANGAROO RAT PRESENCE/ABSENCE TRAPPING

STUDIES ON NORTH FONTANA PROPERTIES 2003-02-XX



California Department of Fish and Wildlife



A9558 EO Index: 111412 Map Index Number:

AMAFD03143 Key Quad: Devore (3411724) **Element Code: Occurrence Number:** 62 Occurrence Last Updated: 2018-05-25

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Federal: Rare Plant Rank: **Listing Status:** Endangered

> Other Lists: State: Candidate Endangered CDFW_SSC-Species of Special Concern

S1 State:

Global:

General Habitat: Micro Habitat:

G5T1

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES

NEEDS EARLY TO INTERMEDIATE SERAL STAGES. CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

Last Date Observed: 1997-10-10 Occurrence Type: Natural/Native occurrence

Last Survey Date: 1997-10-10 Occurrence Rank: None Owner/Manager: PVT, UNKNOWN Trend: Unknown

Possibly Extirpated Presence:

Location:

EAST SIDE OF SIERRA AVE, FROM ABOUT 0.4 TO 0.9 MILES SSE OF THE RIVERSIDE AVE INTERSECTION, FONTANA.

Detailed Location:

CNDDB Element Ranks:

MAPPED TO PROVIDED LOCATIONS.

Ecological:

Threats:

AIR PHOTOS SHOW THAT AREA HAS BEEN MOSTLY DEVELOPED SINCE DATES OF DETECTIONS.

General:

DETECTED ON 16 MAY 1994, 8 JUL 1996, AND 10 OCT 1997.

PLSS: T01N, R05W, Sec. 17, SW (S) Accuracy: Area (acres): 15 specific area Zone-11 N3781071 E459955 Latitude/Longitude: Elevation (feet): 1,872 UTM: 34.16983 / -117.4345

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

MCK97M0001 MCKERNAN, R. - MAP OF SAN BERNARDINO KANGAROO RAT AND CALIFORNIA GNATCATCHER NEST LOCATIONS. 1997-XX-XX



Occurrence Report

California Department of Fish and Wildlife



EO Index: 111422

Key Quad:Devore (3411724)Element Code:AMAFD03143Occurrence Number:63Occurrence Last Updated:2018-06-26

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Listing Status: Federal: Endangered Rare Plant Rank:

State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T1

A9568

State: S1

General Habitat: Micro Habitat:

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

Last Date Observed: 1999-12-02 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 1999-12-02

 Owner/Manager:
 UNKNOWN

 Trend:
 Unknown

Presence: Presumed Extant

Location:

CAJON WASH, ABOUT 0.3 MILES SW OF I-15 OVER KENWOOD AVE, NW OF MUSCOY.

Detailed Location:

MAPPED TO COORDINATES GIVEN FOR 1999 DETECTION AT "CAJON WASH APPROX 1 MI NORTH OF 15 FWY BRIDGE," STATION KW8-4 (KENWOOD AVE IN 2003 REPORT). UNDATED FIELD SURVEY FORM RECORDS NEGATIVE/ZERO DATA RESULTS 0.1 MI TO NE OF 1999 DETECTION.

Ecological:

SCALEBROOM, BUCKWHEAT, CROTON SURROUNDED BY DISPERSED RESIDENTIAL. SOME DISTURBANCE FROM OHVS. A LONG-TERM STUDY SITE ESTABLISHED OCT 1998 & SURVEYED QUARTERLY THROUGH MAR 2001. PIONEER ALLUVIAL FAN SAGE SCRUB ON SANDY SUBSTRATE.

Threats:

General:

DETECTED IN TRS SEC 29 DURING SURVEYS CONDUCTED 1987-1996. NONE DETECTED DURING 5 SURVEYS, 29 APR-3 MAY (YEAR UNKNOWN). 1 ADULT MALE DETECTED ON 2 DEC 1999.

 PLSS:
 T02N, R05W, Sec. 29, NW (S)
 Accuracy:
 1/10 mile
 Area (acres):
 18

 UTM:
 Zone-11 N3788157 E460455
 Latitude/Longitude:
 34.23374 / -117.4294
 Elevation (feet):
 2,226

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

BRA01U0001 BRADEN, G. - EMAIL EXCHANGE BETWEEN G. BRADEN, T. MCKINNEY, AND S. LOVE ON ONGOING TRAPPING OF SAN

BERNARDINO KANGAROO RATS. 2001-XX-XX

CAR03R0001 CARTER, K. & G. BRADEN (SAN BERNARDINO COUNTY MUSEUM) - SURVEY RESULTS FOR THE SAN BERNARDINO KANGAROO

RAT IN THE SAN BERNARDINO NATIONAL FOREST (LYTLE CREEK, CAJON CREEK, BAUTISTA CANYON) WITH SUPPLEMENTAL

SURVEY RESULTS. 2003-02-XX

MCK97U0002 MCKERNAN, R. - THE STATUS AND KNOWN DISTRIBUTION OF THE SAN BERNARDINO KANGAROO RAT (DIPODOMYS MERRIAMI

PARVUS): FIELD SURVEYS CONDUCTED BETWEEN 1987 AND 1996 1997-09-XX

ROMNDF0001 ROMICH, K. (SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS) - FIELD SURVEY FORM FOR DIPODOMYS

MERRIAMI PARVUS XXXX-05-03

Report Printed on Thursday, April 08, 2021



California Department of Fish and Wildlife



Map Index Number: A9614 EO Index: 111473

Key Quad:Devore (3411724)Element Code:AMAFD03143Occurrence Number:64Occurrence Last Updated:2018-06-26

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Listing Status: Federal: Endangered Rare Plant Rank:

State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T1

State: S1

General Habitat: Micro Habitat:

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

Last Date Observed: 2015-06-05 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2015-06-05

 Owner/Manager:
 UNKNOWN

 Trend:
 Unknown

Presence: Presumed Extant

Location:

CAJON WASH, ON THE SW SIDE OF THE I-15/I-215 INTERCHANGE, NW OF DEVORE.

Detailed Location:

1987-1996 DETECTION IN NW 1/4 OF SEC 33. SITE "FW" OR "15 FREEWAY" IN 2000-2002; EXACT COORDINATES NOT GIVEN. MAPPED TO LOCATIONS GIVEN FOR 2015 DETECTIONS IN TRAPPING AREA #4.

Ecological:

2000-2002: LONG-TERM STUDY SITE SURVEYED MONTHLY; PIONEER ALLUVIAL FAN SAGE SCRUB COMMUNITY WITH SANDY SUBSTRATE. 2015: ALLUVIAL FAN SAGE SCRUB, SANDY SOILS ON HIGH BENCHES ADJACENT TO CAJON WASH.

Threats:

PROPOSED CONSTRUCTION AND INSTALLATION OF NATURAL GAS PIPELINE (2015).

General:

DETECTED IN VICINITY DURING SURVEYS 1987-1996. UP TO 37 CAUGHT & RELEASED, FEB-NOV 2000. UP TO 13 CAUGHT & RELEASED, JAN-DEC 2001. 4 INDIVIDUALS CAUGHT & RELEASED IN 1600 TRAPNIGHTS 26 MAY - 5 JUN 2015.

 PLSS:
 T02N, R05W, Sec. 28, SW (S)
 Accuracy:
 specific area
 Area (acres):
 13

 UTM:
 Zone-11 N3787088 E461927
 Latitude/Longitude:
 34.22416 / -117.41337
 Elevation (feet):
 2,115

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

BON15U0002 BONTERRA PSOMAS - RESULTS OF FOCUSED TRAPPING SURVEYS FOR SAN BERNARDINO KANGAROO RAT FOR THE

SOCALGAS NORTH-SOUTH PROJECT, SAN BERNARDINO AND RIVERSIDE COUNTIES, CALIFORNIA 2015-07-15

BRA01U0001 BRADEN, G. - EMAIL EXCHANGE BETWEEN G. BRADEN, T. MCKINNEY, AND S. LOVE ON ONGOING TRAPPING OF SAN

BERNARDINO KANGAROO RATS. 2001-XX-XX

CAR03R0001 CARTER, K. & G. BRADEN (SAN BERNARDINO COUNTY MUSEUM) - SURVEY RESULTS FOR THE SAN BERNARDINO KANGAROO

RAT IN THE SAN BERNARDINO NATIONAL FOREST (LYTLE CREEK, CAJON CREEK, BAUTISTA CANYON) WITH SUPPLEMENTAL

SURVEY RESULTS. 2003-02-XX

MCK97U0002 MCKERNAN, R. - THE STATUS AND KNOWN DISTRIBUTION OF THE SAN BERNARDINO KANGAROO RAT (DIPODOMYS MERRIAMI

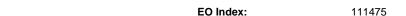
PARVUS): FIELD SURVEYS CONDUCTED BETWEEN 1987 AND 1996 1997-09-XX



Occurrence Report

California Department of Fish and Wildlife





Key Quad:Devore (3411724)Element Code:AMAFD03143Occurrence Number:65Occurrence Last Updated:2018-06-07

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Listing Status: Federal: Endangered Rare Plant Rank:

State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T1

A9615

State: S1

General Habitat: Micro Habitat:

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

Last Date Observed: 2015-06-12 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2015-06-12

 Owner/Manager:
 UNKNOWN

 Trend:
 Unknown

Presence: Presumed Extant

Location:

CAJON WASH, ALONG GLEN HELEN PARKWAY FROM ABOUT 0.2 TO 0.7 MILES SSE OF THE I-15/I-215 INTERCHANGE, DEVORE.

Detailed Location:

1987-1996 DETECTIONS IN NE & SE 1/4 SEC 33. INCLUDES LOCATIONS GIVEN FOR CENTER OF SITE #152 IN 2000 SURVEY, 2010 TRAP SITES, & 2015 DETECTION IN TRAPPING AREA 5.

Ecological:

2015: ALLUVIAL FAN SAGE SCRUB AND RIVERSIDEAN SCRUB WITH SANDY TO SANDY-LOAM SOILS ON BENCH JUST ABOVE CAJON WASH, WITH SOME FINE SANDY SOILS AND COARSE COBBLE.

Threats:

DISTURBANCE FROM OHVS, FLOOD CONTROL PROJECTS (2010). PLANNED INSTALLATION OF NATURAL GAS PIPELINE (2015).

General:

DETECTED, 1987-1996. 7 CAUGHT & RELEASED 27-29 MAR 2000. 0 CAUGHT IN 500 TRAPNIGHTS 12-17 JUL 2006. 2 OBSERVED ON 26 APR; 2 FEMALES CAUGHT & RELEASED 3-8 MAY 2010. 1 CAUGHT & RELEASED IN 425 TRAP NIGHTS 8-12 JUN 2015.

 PLSS:
 T02N, R05W, Sec. 33, NE (S)
 Accuracy:
 non-specific area
 Area (acres):
 30

 UTM:
 Zone-11 N3786257 E462605
 Latitude/Longitude:
 34.21669 / -117.40597
 Elevation (feet):
 2,043

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

BON15U0002 BONTERRA PSOMAS - RESULTS OF FOCUSED TRAPPING SURVEYS FOR SAN BERNARDINO KANGAROO RAT FOR THE

SOCALGAS NORTH-SOUTH PROJECT, SAN BERNARDINO AND RIVERSIDE COUNTIES, CALIFORNIA 2015-07-15

BRA01U0001 BRADEN, G. - EMAIL EXCHANGE BETWEEN G. BRADEN, T. MCKINNEY, AND S. LOVE ON ONGOING TRAPPING OF SAN

BERNARDINO KANGAROO RATS. 2001-XX-XX

DAV10F0010 DAVENPORT, A. - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2010-04-26

DAV10R0005 DAVENPORT, A. (DAVENPORT BIOLOGICAL SERVICES) - ENDANGERED SPECIES SURVEY SAN BERNARDINO KANGAROO RAT

GLEN HELEN PARKWAY GRADE SEPARATION PROJECT. 2010-06-18

MCK97U0002 MCKERNAN, R. - THE STATUS AND KNOWN DISTRIBUTION OF THE SAN BERNARDINO KANGAROO RAT (DIPODOMYS MERRIAMI

PARVUS): FIELD SURVEYS CONDUCTED BETWEEN 1987 AND 1996 1997-09-XX

ROM07U0001 ROMICH, K. (SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS) - EMAILS AND TABLE REGARDING SAN

BERNARDINO KANGAROO RAT TRAPPING LOCATIONS. 2007-08-14



California Department of Fish and Wildlife



Map Index Number: A9616 EO Index: 111476

Key Quad:Devore (3411724)Element Code:AMAFD03143Occurrence Number:66Occurrence Last Updated:2018-06-26

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Listing Status: Federal: Endangered Rare Plant Rank:

State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T1

State: S1

General Habitat: Micro Habitat:

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

Last Date Observed: 2017-04-28 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2017-04-28

 Owner/Manager:
 PVT

 Trend:
 Unknown

Presence: Presumed Extant

Location:

ABOUT 0.4-0.6 MI WSW OF I-215 AT LITTLE LEAGUE DR & 0.6-0.8 MI SSE OF CAJON BLVD AT KENDALL DR, NW OF SAN BERNARDINO.

Detailed Location:

1990 DETECTION LOCATION DESCRIBED AS "CAJON WASH NEAR VERDEMONT, NW OF THE INTERSECTION OF CAJON BLVD AND INSTITUTION RD. T1N R5W SEC 2." EXACT LOCATIONS UNKNOWN. MAPPED TO LOCATIONS GIVEN FOR 2017 DETECTIONS. 2017: VULCAN PROPERTY.

Ecological:

1990: VEG INCLUDED CERCOCARPUS BETULOIDES, CEANOTHUS LEUCODERMIS, ERIOGONUM FASCICULATUM, OPUNTIA LITTORALIS, PRUNUS ILICIFOLIA. 2017: SANDY DRY RIVERBED ADJACENT TO INDUSTRIAL BUILDINGS; DISTURBANCE FROM LAND USE CHANGE & ROAD.

Threats:

INVASIVE PLANTS (2017). GOOGLE EARTH AIR PHOTOS SHOW DEVELOPMENT IN VICINITY; UNKNOWN IF 1990 SITE STILL EXTANT.

General:

52 CAPTURED, 5 SPECIMENS SENT TO SBCM 17-19 & 24 SEP 1990. 2 CAUGHT & RELEASED ON 28 FEB, 4 ON 26 APR & 1 ON 28 APR 2017.

 PLSS:
 T01N, R05W, Sec. 2, SW (S)
 Accuracy:
 specific area
 Area (acres):
 15

 UTM:
 Zone-11 N3784128 E464738
 Latitude/Longitude:
 34.19757 / -117.38273
 Elevation (feet):
 1,819

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

TMC94U0001 TIERRA MADRE CONSULTANTS - MEMO TO RAY VIZGIRDAS (USFWS) FROM STEPHEN J. MYERS REGARDING CAPTURE RECORDS OF DIPODOMYS MERRIAMI PARVUS. 1994-02-17

WAN17F0001 WANG, T. - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS [SC-008825]. 2017-02-28

WAN17F0003 WANG, T. - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS [SC-008825]. 2017-02-28 WAN17F0004 WANG, T. - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS [SC-008825]. 2017-04-28

WAN18D0001 WANG, T. - EXCEL TABLE OF SAN BERNARDINO KANGAROO RAT DETECTION DATA, 2012-2017 2018-06-18

WAN18U0001 WANG, T. - EMAIL REGARDING SAN BERNARDINO KANGAROO RAT DETECTION LOCATIONS IN CAJON WASH. 2018-06-05



California Department of Fish and Wildlife





Key Quad:Devore (3411724)Element Code:AMAFD03143Occurrence Number:67Occurrence Last Updated:2018-06-05

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Listing Status: Federal: Endangered Rare Plant Rank:

State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T1

State: S1

General Habitat: Micro Habitat:

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

Last Date Observed: 2001-09-13 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2001-09-13

 Owner/Manager:
 UNKNOWN

 Trend:
 Unknown

Presence: Presumed Extant

Location:

CAJON WASH, ABOUT 0.6-0.75 MI SW OF CAJON BLVD AT SHELTER WAY & 0.7 -0.9 MI NNE OF VERDEMONT RANCH RD AT INSTITUTION RD.

Detailed Location:

1987-1996 DETECTIONS IN EAST 1/2 OF TRS SEC 10, EXACT LOCATIONS UNKNOWN. MAPPED TO INCLUDE COORDINATES GIVEN FOR CENTERPOINTS OF TRAP SITES CI, CP, AND "CAJON WASH BETWEEN CI AND CP," 1998-2001.

Ecological:

CAJON WASH, NE OF MOTORCYCLE PARK PARKING LOT.

Threats:

General:

DETECTED, 1987-1996. 26 CAUGHT AND RELEASED IN 1998, 34 IN 1999, 39 IN 2000, AND 31 IN 2001.

 PLSS:
 T01N, R05W, Sec. 11, NW (S)
 Accuracy:
 non-specific area
 Area (acres):
 45

 UTM:
 Zone-11 N3783194 E464745
 Latitude/Longitude:
 34.18914 / -117.38261
 Elevation (feet):
 1,752

CTW. 2016-11 No703134 E404743 Eatitude/Longitude. 54.103147-117.30201 Elevation (leet,

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

BRA01U0001 BRADEN, G. - EMAIL EXCHANGE BETWEEN G. BRADEN, T. MCKINNEY, AND S. LOVE ON ONGOING TRAPPING OF SAN

BERNARDINO KANGAROO RATS. 2001-XX-XX

MCK97U0002 MCKERNAN, R. - THE STATUS AND KNOWN DISTRIBUTION OF THE SAN BERNARDINO KANGAROO RAT (DIPODOMYS MERRIAMI

PARVUS): FIELD SURVEYS CONDUCTED BETWEEN 1987 AND 1996 1997-09-XX



California Department of Fish and Wildlife



Map Index Number: A9637 EO Index: 111495

Key Quad:Devore (3411724)Element Code:AMAFD03143Occurrence Number:71Occurrence Last Updated:2018-06-07

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Listing Status: Federal: Endangered Rare Plant Rank:

State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

Occurrence Type:

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

Natural/Native occurrence

State: S1

G5T1

General Habitat: Micro Habitat:

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

2015-12-08

Global:

Last Survey Date:2015-12-08Occurrence Rank:UnknownOwner/Manager:PVT-CEMEXTrend:Unknown

Presence: Presumed Extant

Location:

LYTLE CREEK WASH, ABOUT 0.8 MI NE OF RIVERSIDE AVE AT LOCUST AVE & 1.2 MI SE OF LAPIS LN AT RUBELLITE CT.

Detailed Location:

Last Date Observed:

CNDDB Element Ranks:

CEMEX PLANT SITE. MAPPED TO GIVEN DETECTION LOCATIONS.

Ecological:

SOUTH END OF CEMEX SOUTH PIT, AN ACTIVE MINING AREA. SITE HAD ABUNDANT DEEP SAND WITH MIX OF RIPARIAN SCRUB/WOODLAND, SAGE SCRUB, AND BARE GROUND WITH EVIDENT K-RAT BURROWS AND SIGN.

Threats

FLOOD EROSION/DEPOSITION; PROPOSED MAINTENANCE ACTIVITIES WOULD DISRUPT SUBSTRATES & DISTURB EXTANT POPULATION (2016).

General:

8 TRAPPED IN 65 TRAPNIGHTS, 8 DEC 2015; CAPTURE RATE INDICATED THAT THE SPECIES IS COMMON AT THIS SITE.

UTM: Zone-11 N3780758 E463440 **Latitude/Longitude:** 34.16712 / -117.39668 **Elevation (feet):** 1,644

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

MON16R0003 MONTGOMERY, S. (SJM BIOLOGICAL CONSULTANTS) - RESULTS OF A TRAPPING SURVEY FOR THE SAN BERNARDINO

KANGAROO RAT AT THE SOUTH PIT LOCATION AT THE CEMEX PLANT ALONG RIVERSIDE AVENUE. 2016-02-25



California Department of Fish and Wildlife



Map Index Number: A9841 EO Index: 111708

Key Quad:Devore (3411724)Element Code:AMAFD03143Occurrence Number:85Occurrence Last Updated:2018-07-27

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Listing Status: Federal: Endangered Rare Plant Rank:

State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T1

State: S1

General Habitat: Micro Habitat:

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

Last Date Observed: 2004-08-06 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2004-08-06

 Owner/Manager:
 PVT

 Trend:
 Unknown

 Unknown

Presence: Presumed Extant

Location:

ABOUT 0.5-0.6 MILES SE OF I-215 AT DEVORE RD & 1.0 MILES WNW OF W MEYERS RD AT MARTIN RANCH RD, MUSCOY.

Detailed Location:

MAPPED TO LOCATIONS PROVIDED FOR TRAP LINES 11 & 12 (2004).

Ecological:

ANNUAL GRASSLAND AND ALLUVIAL FAN SCRUB IN WASH OF CABLE CREEK, FLOODPLAIN, AND ADJACENT FOOTHILLS. PRIVATE PROPERTY WAS PROPOSED FOR DEVELOPMENT AS OF 2004.

Threats:

DEVELOPMENT (2004). OHVS, VANDALISM (2012).

General:

1 SUBADULT FEMALE AND 1 ADULT FEMALE TRAPPED BETWEEN 27 JUL & 6 AUG 2004. NONE FOUND IN NEARBY SURVEYS ON 2-6 OCT 2010 & 27 NOV 2012.

 PLSS:
 T02N, R05W, Sec. 34, NW (S)
 Accuracy:
 specific area
 Area (acres):
 10

 UTM:
 Zone-11 N3786550 E463606
 Latitude/Longitude:
 34.21936 / -117.39511
 Elevation (feet):
 2,011

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

MCG04R0001 MCGILL, T. (MICHAEL BRANDMAN ASSOCIATES) - SAN BERNARDINO KANGAROO RAT PRESENCE/ABSENCE TRAPPING

STUDIES ON THE 280 ACRE ROLLING HILLS RANCH, CITY OF SAN BERNARDINO, CALIFORNIA 2004-08-XX

MON10R0006 MONTGOMERY, S. (SJM BIOLOGICAL CONSULTANTS) - RESULTS OF A TRAPPING SURVEY FOR THE FEDERALLY ENDANGERED

SAN BERNARDINO KANGAROO RAT AND THE LOS ANGELES POCKET MOUSE ALONG A PROPOSED AT&T TELEPHONE LINE

CORRIDOR. 2010-11-04

MON12F0006 MONTGOMERY, S. (SJM BIOLOGICAL CONSULTANTS) - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2012-11-27



Occurrence Report

California Department of Fish and Wildlife



EO Index: 111709

Key Quad:Devore (3411724)Element Code:AMAFD03143Occurrence Number:86Occurrence Last Updated:2018-07-26

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Listing Status: Federal: Endangered Rare Plant Rank:

State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T1

A9842

State: S1

General Habitat: Micro Habitat:

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

Last Date Observed: 2004-08-06 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2005-07-15

 Owner/Manager:
 PVT

 Trend:
 Unknown

 Unknown

Presence: Presumed Extant

Location:

ABOUT 0.5 MILES E OF CAJON BLVD AT KENDALL DR & 0.6 MILES NW OF I-215 AT N LITTLE LEAGUE DR, MUSCOY.

Detailed Location:

MAPPED TO LOCATIONS PROVIDED FOR TRAP LINE 5 (2004).

Ecological:

ANNUAL GRASSLAND AND ALLUVIAL FAN SCRUB IN WASH OF CABLE CREEK, FLOODPLAIN, AND ADJACENT FOOTHILLS. PRIVATE PROPERTY WAS PROPOSED FOR DEVELOPMENT AS OF 2004.

Threats:

DEVELOPMENT.

General:

NONE FOUND IN VICINITY DURING TRAPPING SURVEY 20-25 MAY 2003. 1 ADULT MALE TRAPPED BETWEEN 27 JUL & 6 AUG 2004. NONE WERE FOUND DURING 3 TRAPPING SESSIONS MAY-JUL 2005.

 PLSS:
 T01N, R05W, Sec. 2, NW (S)
 Accuracy:
 80 meters
 Area (acres):
 5

 UTM:
 Zone-11 N3785169 E465352
 Latitude/Longitude:
 34.20697 / -117.3761
 Elevation (feet):
 1,843

County Summary: Quad Summary:

San Bernardino North (3411723), Devore (3411724)

Sources:

KIR03R0001 KIRTLAND, K. (NATURAL RESOURCES ASSESSMENT, INC.) - SAN BERNARDINO KANGAROO RAT PRESENCE/ABSENCE

TRAPPING STUDIES VERDEMONT 100 ACRE DEVELOPMENT SITE. 2003-06-10

MBA05R0003 MICHAEL BRANDMAN ASSOCIATES (MICHAEL BRANDMAN ASSOCIATES) - SAN BERNARDINO KANGAROO RAT RESULTS OF

PROTOCOL PRESENCE/ABSENCE TRAPPING SURVEYS ON THE ROLLING HILLS RANCH COUNTRY VIEW ESTATES. 2005-07-XX

MCG04R0001 MCGILL, T. (MICHAEL BRANDMAN ASSOCIATES) - SAN BERNARDINO KANGAROO RAT PRESENCE/ABSENCE TRAPPING

STUDIES ON THE 280 ACRE ROLLING HILLS RANCH, CITY OF SAN BERNARDINO, CALIFORNIA 2004-08-XX



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife



A9843 EO Index: 111712 Map Index Number:

AMAFD03143 Key Quad: Devore (3411724) **Element Code: Occurrence Number:** Occurrence Last Updated: 2018-06-27

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Federal: Rare Plant Rank: **Listing Status:** Endangered

> Other Lists: State: Candidate Endangered CDFW_SSC-Species of Special Concern

G5T1 S1 State:

General Habitat: Micro Habitat:

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES NEEDS EARLY TO INTERMEDIATE SERAL STAGES. CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

Last Date Observed: 1996-XX-XX Occurrence Type: Natural/Native occurrence

Last Survey Date: 1996-XX-XX Occurrence Rank: Unknown Owner/Manager: **UNKNOWN** Trend: Unknown

Presumed Extant Presence:

VICINITY OF N RIVERSIDE AVE AT N LOCUST AVE, FONTANA.

Global:

Detailed Location:

MAPPED TO GIVEN TRS QUARTER SECTIONS. EXACT DETECTION LOCATIONS UNKNOWN.

Ecological: Threats:

Location:

JUDGING FROM AERIAL PHOTOS, DEVELOPMENT HAS REDUCED THE AMOUNT OF AVAILABLE HABITAT SINCE THE TIME OF SURVEY.

General: DETECTED DURING SURVEYS 1987-1996.

PLSS: T01N, R05W, Sec. 21, N (S) Area (acres): 348 Accuracy: non-specific area

Zone-11 N3780046 E462232 Latitude/Longitude: Elevation (feet): 1,685 UTM: 34.16066 / -117.40975

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

MCK97U0002 MCKERNAN, R. - THE STATUS AND KNOWN DISTRIBUTION OF THE SAN BERNARDINO KANGAROO RAT (DIPODOMYS MERRIAMI

PARVUS): FIELD SURVEYS CONDUCTED BETWEEN 1987 AND 1996 1997-09-XX



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife



EO Index: 112000

AMAFD03143 Key Quad: Devore (3411724) **Element Code: Occurrence Number:** Occurrence Last Updated: 2018-07-26 100

Scientific Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat

Rare Plant Rank: **Listing Status:** Federal: Endangered

> State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern

State: S1

Global:

B0143

General Habitat: Micro Habitat:

G5T1

ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS.

NEEDS EARLY TO INTERMEDIATE SERAL STAGES.

Last Date Observed: 199X-XX-XX Occurrence Type: Natural/Native occurrence

Last Survey Date: 199X-XX-XX Occurrence Rank: Unknown Owner/Manager: **UNKNOWN** Trend: Unknown

Presumed Extant Presence:

Location:

SE CORNER OF HWY 210 AND CHERRY AVE, FONTANA.

Detailed Location:

MAPPED TO PROVIDED TRS, NW 1/4 T1S R6W SEC 35.

Ecological:

SINCE THIS LOCALITY WAS SURVEYED (SOME TIME BETWEEN 1987 & 1996), THE SURROUNDING AREA HAS BEEN EXTENSIVELY DEVELOPED. AIR PHOTOS GOING BACK TO 1994 INDICATE THAT LAND USE IN THIS TRS QUARTER SECTION HAS REMAINED AGRICULTURAL/FALLOW.

Threats:

DEVELOPMENT.

General:

DETECTED DURING SURVEYS 1987-1996.

PLSS: T01N, R06W, Sec. 35, NW (S) 164 Accuracy: Area (acres): non-specific area UTM: Zone-11 N3776923 E455344 Latitude/Longitude: 34.13223 / -117.48432 Elevation (feet): 1,394

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

MCK97U0002 MCKERNAN, R. - THE STATUS AND KNOWN DISTRIBUTION OF THE SAN BERNARDINO KANGAROO RAT (DIPODOMYS MERRIAMI

PARVUS): FIELD SURVEYS CONDUCTED BETWEEN 1987 AND 1996 1997-09-XX



California Department of Fish and Wildlife



Map Index Number: 57768 **EO Index:** 57784

Key Quad:Devore (3411724)Element Code:AMAFD05031Occurrence Number:77Occurrence Last Updated:2004-10-28

Scientific Name: Chaetodipus fallax fallax Common Name: northwestern San Diego pocket mouse

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T3T4

State: S3S4

General Habitat: Micro Habitat:

COASTAL SCRUB, CHAPARRAL, GRASSLANDS, SAGEBRUSH, ETC. IN SANDY, HERBACEOUS AREAS, USUALLY IN ASSOCIATION WITH

WESTERN SAN DIEGO COUNTY. ROCKS OR COARSE GRAVEL.

Last Date Observed: 2002-03-30 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2002-03-30

 Owner/Manager:
 PVT

 Trend:
 Unknown

Presence: Presumed Extant

Location:

LOCATED ABOUT 1.25 MILES WSW OF DEVORE. ABUTTING INTERSTATE 215 ON SW. CABLE CREEK RUNS THROUGH SW PORTION OF SITE.

Detailed Location:

Ecological:

HABITAT CONSISTS OF: DENSE RIVERSIDEAN SAGE SCRUB, DENSE MATURE PHASE ALLUVIAL FAN SAGE SCRUB, RIPARIAN SPECIES, AGRICULTURAL, RUDERAL/DISTURBED FIELDS, EUCALYPTUS GROVE. OPEN PATCHES ARE WELL COVERED WITH EXOTIC SPECIES.

Threats:

INTERSTATE 215, RESIDENTIAL DEVELOPMENT.

General:

152 INDIVIDUALS TRAPPED WHILE SURVEYING PROPOSED SECONDARY ACCESS ROUTE FOR MARTIN RANCH PROJECT ON 25-30 MAR 2002. TWO TRAP LINES OF 100 AND 120 TRAPS WERE SET (FOR A TOTAL OF 1100 TRAP-NIGHTS).

 PLSS:
 T02N, R05W, Sec. 35 (S)
 Accuracy:
 non-specific area
 Area (acres):
 82

 UTM:
 Zone-11 N3786214 E464855
 Latitude/Longitude:
 34.21638 / -117.38154
 Elevation (feet):
 2,000

County Summary: Quad Summary:

San Bernardino North (3411723), Devore (3411724)

, a... 20...a.a....

Sources:

DOD02F0011 DODD, S. (S.C. DODD BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR CHAETODIPUS FALLAX FALLAX 2002-03-30

DOD02R0008 DODD, S. (S.C. DODD BIOLOGICAL CONSULTING) - RESULTS OF A LIVE-TRAPPING SURVEY FOR THE FEDERALLY-LISTED

ENDANGERED SAN BERNARDINO KANGAROO RAT ON THE SECONDARY ACCESS ROUTE FOR THE PROPOSED MARTIN RANCH

PROJECT. 2002-04-02



California Department of Fish and Wildlife



Map Index Number: 57787 **EO Index:** 57803

Key Quad:Devore (3411724)Element Code:AMAFD05031Occurrence Number:88Occurrence Last Updated:2004-11-01

Scientific Name: Chaetodipus fallax fallax Common Name: northwestern San Diego pocket mouse

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T3T4

State: S3S4

General Habitat: Micro Habitat:

COASTAL SCRUB, CHAPARRAL, GRASSLANDS, SAGEBRUSH, ETC. IN SANDY, HERBACEOUS AREAS, USUALLY IN ASSOCIATION WITH

WESTERN SAN DIEGO COUNTY. ROCKS OR COARSE GRAVEL.

Last Date Observed: 2002-04-28 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2002-04-28
 Occurrence Rank:
 Unknown

 Owner/Manager:
 SBD COUNTY
 Trend:
 Unknown

Presence: Presumed Extant

Location:

ABOUT 0.75 MILE NNE OF INTERSECTION BETWEEN INTERSTATE 15 AND CALIFORNIA STATE HIGHWAY 30 AND JUST NORTHWEST OF I-15.

Detailed Location:

Ecological:

SITE IS USED AS WATER STORAGE AND PERCOLATION BASIN. OTHER SENSITIVE SPECIES IN AREA: DIPODOMYS MERRIAMI PARVUS AND NEOTOMA LEPIDA INTERMEDIA.

Threats:

BASIN IS SCHEDULED FOR IMPROVEMENT TO INCREASE WATER STORAGE AND PERCOLATION CAPACITY.

General:

10 CAPTURES OVER 5 TRANSECTS (975 TRAP NIGHTS) FROM 23-28 APR 2002.

 PLSS:
 T01N, R06W, Sec. 27, NW (S)
 Accuracy:
 non-specific area
 Area (acres):
 80

 UTM:
 Zone-11 N3778594 E454791
 Latitude/Longitude:
 34.14727 / -117.49039
 Elevation (feet):
 1,470

CTW. 2016-11 No 1700-94 E4-047-91 Latitude/Longitude. 54.147217-117.4900-9

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

NRA02R0003 NATURAL RESOURCES ASSESSMENT, INC. - SAN BERNARDINO KANGAROO RAT PRESENCE/ABSENCE TRAPPING STUDIES

FOR THE SAN SEVAINE BASINS 1-4 IMPROVEMENT PROJECT. 2002-07-23



California Department of Fish and Wildlife



Map Index Number: 57788 **EO Index:** 57804

Key Quad:Devore (3411724)Element Code:AMAFD05031Occurrence Number:89Occurrence Last Updated:2004-11-01

Scientific Name: Chaetodipus fallax fallax Common Name: northwestern San Diego pocket mouse

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T3T4

State: S3S4

General Habitat: Micro Habitat:

COASTAL SCRUB, CHAPARRAL, GRASSLANDS, SAGEBRUSH, ETC. IN SANDY, HERBACEOUS AREAS, USUALLY IN ASSOCIATION WITH

WESTERN SAN DIEGO COUNTY. ROCKS OR COARSE GRAVEL.

Last Date Observed: 2000-XX-XX Occurrence Type: Natural/Native occurrence

Last Survey Date:2000-XX-XXOccurrence Rank:UnknownOwner/Manager:UNKNOWNTrend:Unknown

Presence: Presumed Extant

Location:

LYTLE CREEK BASIN, ABOUT 0.5 MI N OF INTERSECTION BETWEEN SIERRA AVENUE AND INTERSTATE 15. I-15 BISECTS SITE.

Detailed Location:

Ecological:

HABITAT CONSISTS OF RIVERSIDEAN SAGE SCRUB, RIVERSIDEAN SAGE SCRUB/BURN AND ALLUVIAL FAN SAGE SCRUB. DIPODOMYS MERRIAMI PARVUS ALSO FOUND IN AREA.

Threats:

SITE IS PROPOSED FOR AN EXTENSION OF LYTLE CREEK LEVEE.

General:

UNKNOWN NUMBER OF CAPTURES WHILE TRAPPING FOR DIPODOMYS MERRIAMI PARVUS IN 2000 FOR THE LYTLE CREEK LEVEE EXTENSION.

 PLSS:
 T01N, R05W, Sec. 08 (S)
 Accuracy:
 non-specific area
 Area (acres):
 52

 UTM:
 Zone-11 N3782982 E460376
 Latitude/Longitude:
 34.18707 / -117.43001
 Elevation (feet):
 2,000

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

PCR00R0002 RAMIREZ, R. (PCR SERVICES CORPORATION) - SAN BERNARDINO KANGAROO RAT PROPOSED LEVEE EXTENSION TRAPPING

PROGRAM. LYTLE CREEK NORTH VILLAGE PROPERTY, SAN BERNARDINO COUNTY, CALIFORNIA. 2000-07-XX



California Department of Fish and Wildlife



Map Index Number: 57810 **EO Index:** 57826

Key Quad:Devore (3411724)Element Code:AMAFD05031Occurrence Number:93Occurrence Last Updated:2004-11-01

Scientific Name: Chaetodipus fallax fallax Common Name: northwestern San Diego pocket mouse

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T3T4

State: S3S4

General Habitat: Micro Habitat:

COASTAL SCRUB, CHAPARRAL, GRASSLANDS, SAGEBRUSH, ETC. IN SANDY, HERBACEOUS AREAS, USUALLY IN ASSOCIATION WITH

WESTERN SAN DIEGO COUNTY. ROCKS OR COARSE GRAVEL.

Last Date Observed: 2002-01-11 Occurrence Type: Natural/Native occurrence

Last Survey Date:2002-01-11Occurrence Rank:FairOwner/Manager:UNKNOWNTrend:Unknown

Presence: Presumed Extant

Location:

LOCATED IN NORTH FONTANA. BORDERED ON THE NORTH BY DUNCAN CANYON ROAD, EAST BY CYPRUS AVENUE AND SOUTH BY SUMMIT AVENUE.

AVENUE.

Detailed Location:

Ecological:

HABITAT CONSISTS OF RIVERSIDEAN ALLUVIAL FAN SCRUB.

Threats:

General:

9 TOTAL CAPTURES (NUMBER OF INDIVIDUALS UNKNOWN) DURING 2 TRAPPING SESSIONS: 2-7 DEC 2001 AND 6-11 JAN 2002.

 PLSS:
 T01N, R05W, Sec. 19, E (S)
 Accuracy:
 non-specific area
 Area (acres):
 278

 UTM:
 Zone-11 N3779778 E459465
 Latitude/Longitude:
 34.15814 / -117.43974
 Elevation (feet):
 1,750

County Summary:Quad Summary:San BernardinoDevore (3411724)

San bernardino

Sources:

BRA02R0004 MICHAEL BRANDMAN ASSOCIATES - SAN BERNARDINO KANGAROO RAT PRESENCE/ABSENCE TRAPPING STUDIES ON NORTH

FONTANA PROPERTIES. 2002-02-XX



California Department of Fish and Wildlife



60520 EO Index: 60556 Map Index Number:

Key Quad: Devore (3411724) **Element Code:** AMAFD05032 **Occurrence Number:** 47 2005-03-14 Occurrence Last Updated:

Scientific Name: Chaetodipus fallax pallidus **Common Name:** pallid San Diego pocket mouse

Rare Plant Rank: **Listing Status:** Federal: None

> State: None Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T3T4

> State: S3S4

General Habitat: Micro Habitat:

SANDY, HERBACEOUS AREAS, USUALLY IN ASSOCIATION WITH DESERT BORDER AREAS IN EASTERN SAN DIEGO COUNTY IN DESERT WASH, DESERT SCRUB, DESERT SUCCULENT SCRUB, PINYON-ROCKS OR COARSE GRAVEL.

JUNIPER, ETC.

Last Date Observed: 1976-09-21 Occurrence Type: Natural/Native occurrence

Occurrence Rank: **Last Survey Date:** 1976-09-21 Unknown Trend: Unknown Owner/Manager: **UNKNOWN**

Presence: Presumed Extant

ABOUT 0.5 MILE WEST OF DEVORE.

EXACT LOCATION NOT KNOWN. MAPPED ACCORDING TO LAT/LONG COORDINATES PROVIDED BY MANIS WITH AN UNCERTAINTY OF 1328 METERS (ABOUT 0.83 MILES).

Ecological:

Detailed Location:

Threats: General:

Location:

ONE MALE SPECIMEN COLLECTED 21 SEP 1976 BY M. HAFNER ET AL. AT "DEVORE, 0.5 MI W" (MVZ #158943).

PLSS: T02N, R05W, Sec. 33 (S) Accuracy: Area (acres): 0

Elevation (feet): Zone-11 N3786226 E462208 Latitude/Longitude: 34.21640 / -117.41026 2,100 UTM:

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

MAN04S0020 MAMMAL NETWORKED INFORMATION SYSTEM (MANIS) - PRINTOUT OF CHAETODIPUS FALLAX PALLIDUS SPECIMEN RECORDS

FROM MANIS. THIS INCLUDES RECORDS FROM LACM, MVZ, KU, CAS, TTU, & FMNH. 2004-12-10



California Department of Fish and Wildlife

California Natural Diversity Database

79359 EO Index: 80341 Map Index Number:

Key Quad: Devore (3411724) **Element Code:** ARACC01060 2018-09-06 **Occurrence Number:** Occurrence Last Updated:

Scientific Name: Anniella stebbinsi Southern California legless lizard Common Name:

Federal: Rare Plant Rank: **Listing Status:** None

> State: None Other Lists: CDFW_SSC-Species of Special Concern

USFS_S-Sensitive Global: G3

Micro Habitat: **General Habitat:**

S3

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 IN KERN COUNTY.

State:

VARIETY OF HABITATS; GENERALLY IN MOIST, LOOSE SOIL. THEY PREFER SOILS WITH A HIGH MOISTURE CONTENT.

Last Date Observed: 1992-04-22 Occurrence Type: Natural/Native occurrence

Last Survey Date: 1992-04-22 Occurrence Rank: Unknown Trend: Owner/Manager: UNKNOWN Unknown

Presence: Presumed Extant

Location:

VICINITY OF LYTLE CREEK NORTH OF HIGHLAND AVENUE, RIALTO.

Detailed Location:

CNDDB Element Ranks:

FORMERLY A. P. PULCHRA EO #87. LOCATION STATED AS "OLIVE WOODLAND, ON BENCH WEST OF LYTLE CREEK, NORTH OF HIGHLAND AVE;

SAN BERNARDINO COUNTY".

Ecological:

Threats:

General:

1 COLLECTED FROM THE FOOTHILLS NORTH OF FONTANA IN 1967 AND ATTRIBUTED HERE. 1 CAPTURED AND RELEASED ON 22 APR 1992.

PLSS: T01N, R05W, Sec. 22 (S) Accuracy: 1 mile Area (acres): 0 UTM: Zone-11 N3778895 E464420 Latitude/Longitude: 34.15036 / -117.38596 Elevation (feet): 1,530

County Summary: Quad Summary:

San Bernardino San Bernardino North (3411723), Devore (3411724)

Sources:

FUL93U0001 FULLER, M.M. - SCIENTIFIC COLLECTING PERMIT REPORT [SC-000215] 1993-XX-XX

WEL67S0005 WELBOURN - LACM #52611 COLLECTED FROM FOOTHILLS N OF FONTANA 1967-05-XX



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife



EO Index: 112428

Key Quad: Devore (3411724) **Element Code:** ARACC01060 **Occurrence Number:** Occurrence Last Updated: 2018-09-06 126

Scientific Name: Anniella stebbinsi Common Name: Southern California legless lizard

Federal: Rare Plant Rank: **Listing Status:** None

> State: None Other Lists: CDFW_SSC-Species of Special Concern

USFS_S-Sensitive Global: G3

Micro Habitat: **General Habitat:**

S3

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 IN KERN COUNTY.

State:

VARIETY OF HABITATS; GENERALLY IN MOIST, LOOSE SOIL. THEY

PREFER SOILS WITH A HIGH MOISTURE CONTENT.

Last Date Observed: 1996-11-08 Occurrence Type: Natural/Native occurrence

Last Survey Date: 1996-11-08 Occurrence Rank: Good Trend: Owner/Manager: **UNKNOWN** Unknown

Presence: Presumed Extant

Location:

ABOUT 0.3 MILES EAST OF CITRUS AVE AT DUNCAN CANYON RD, 0.75 MILES EAST OF I-15 AT DUNCAN CANYON ROAD, FONTANA.

Detailed Location:

SSW OF NEALEYS CORNER AND LYTLE CREEK AT I-15.

B0561

Ecological:

Threats:

General:

1 COLLECTED FROM THE FOOTHILLS NORTH OF FONTANA IN 1967 AND ATTRIBUTED HERE. 1 COLLECTED ON 8 NOV 1996.

PLSS: T01N, R05W, Sec. 18, SW (S) Accuracy: 1/5 mile Area (acres): 70

Zone-11 N3780578 E458704 Latitude/Longitude: 34.16532 / -117.44804 Elevation (feet): 1,800 UTM:

County Summary: Quad Summary:

Devore (3411724) San Bernardino

Sources:

SIN96S0001 SINCLAIR, T. - CM #146025 COLLECTED CA 2 MI N ST 30 AND 0.7 MI E I-15 NEAR FONTANA 1996-11-08

WELBOURN - LACM #52611 COLLECTED FROM FOOTHILLS N OF FONTANA 1967-05-XX WEL67S0005



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife





Key Quad: Devore (3411724) **Element Code:** ARACC01060 **Occurrence Number:** Occurrence Last Updated: 2018-09-05 127

Common Name: Scientific Name: Anniella stebbinsi Southern California legless lizard

Federal: Rare Plant Rank: **Listing Status:** None

> State: None Other Lists: CDFW_SSC-Species of Special Concern

USFS_S-Sensitive Global: G3

General Habitat: Micro Habitat:

S3

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 IN KERN COUNTY.

State:

B0563

VARIETY OF HABITATS; GENERALLY IN MOIST, LOOSE SOIL. THEY

PREFER SOILS WITH A HIGH MOISTURE CONTENT.

Last Date Observed: 2005-03-20 Occurrence Type: Natural/Native occurrence

Last Survey Date: 2005-03-20 Occurrence Rank: Unknown Trend: Owner/Manager: **UNKNOWN** Unknown

Presence: Presumed Extant

Location:

ALONG CABLE CANYON ROAD JUST E OF I-215, 0.8 MILES SE OF OF I-215 & I-15 INTERCHANGE, DEVORE.

Detailed Location:

MAPPED ACCORDING TO PROVIDED COORDINATES, EAST OF CAJON WASH.

Ecological:

Threats:

General:

1 COLLECTED ON 20 MAR 2005 AND EXPERTLY IDENTIFIED AS NEWLY DESCRIBED SPECIES A. STEBBINSI BY T. PAPENFUSS.

PLSS: T02N, R05W, Sec. 34, NW (S) Accuracy: 1/10 mile Area (acres): 18

Zone-11 N3786526 E463447 Latitude/Longitude: Elevation (feet): UTM: 34.21915 / -117.39684 2,016

County Summary: Quad Summary:

Devore (3411724) San Bernardino

Sources:

PAPENFUSS, T. - MVZ #250544 COLLECTED AT 34 13.15' N, 117 23.81' W, CABLE CANYON, DEVORE 2005-03-20 PAP05S0018

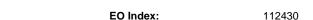


CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife





Key Quad: Devore (3411724) **Element Code:** ARACC01060 **Occurrence Number:** 128 Occurrence Last Updated: 2018-11-28

Scientific Name: Anniella stebbinsi Southern California legless lizard Common Name:

Listing Status: Federal: None Rare Plant Rank:

> State: None Other Lists: CDFW_SSC-Species of Special Concern

USFS_S-Sensitive Global: G3

General Habitat: Micro Habitat:

S3

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 IN KERN COUNTY.

State:

B0564

VARIETY OF HABITATS; GENERALLY IN MOIST, LOOSE SOIL. THEY

PREFER SOILS WITH A HIGH MOISTURE CONTENT.

Last Date Observed: 2000-02-27 Occurrence Type: Natural/Native occurrence

Occurrence Rank: **Last Survey Date:** 2000-02-27 Good Owner/Manager: UNKNOWN Trend: Unknown

Presence: Presumed Extant

Location:

ALONG CABLE CREEK, 1.2 MILES WEST OF THE I-15 AND I-215 INTERCHANGE, IN THE AREA OF DEVORE, NW OF SAN BERNARDINO.

Detailed Location:

Ecological:

IT APPEARS THAT THIS AREA EXPERIENCED A SEVERE FLOODING EVENT AROUND 2004-2005 AFTER THE VEGETATION WAS STRIPPED AWAY UP-CANYON BY FOREST FIRE (OLD FIRE) IN 2003.

Threats:

General:

2 COLLECTED ON 27 FEB 2000 AND ONE USED AS A GENETIC REFERENCE REPRESENTING CLADE E IN PARHAM & PAPENFUSS 2009, NOW DESCRIBED AS NEW SPECIES A. STEBBINSI.

PLSS: T02N, R05W, Sec. 34, NE (S) Accuracy: 1/10 mile Area (acres): 18 UTM: Zone-11 N3786807 E464226 Latitude/Longitude: 34.22171 / -117.38839 Elevation (feet): 2,077

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

PAPENFUSS, T. - MVZ #230671 & 230672 COLLECTED AT CABLE CANYON, 0.8 MI NE (BY AIR) OF DEVORE, ALSO 1.2 MI E (BY AIR) PAP00S0022

OF JUNCTION OF HWY 15 WITH HWY 215 2000-02-27

PARHAM, J. & T. PAPENFUSS - EVIDENCE FOR HIGH GENETIC DIVERSITY AMONG FOSSORIAL LIZARD POPULATIONS PAR09A0001

(ANNIELLA PULCHRA) IN A RAPIDLY DEVELOPING LANDSCAPE. CONSERVATION GENETICS 10: 169-176. 2009-XX-XX



California Department of Fish and Wildlife

California Natural Diversity Database

B0565 Map Index Number: EO Index: 112431

Key Quad: Devore (3411724) **Element Code:** ARACC01060 **Occurrence Number:** 129 Occurrence Last Updated: 2018-09-05

Scientific Name: Anniella stebbinsi Southern California legless lizard Common Name:

Listing Status: Federal: None Rare Plant Rank:

> State: None Other Lists: CDFW_SSC-Species of Special Concern

USFS_S-Sensitive Global: G3

General Habitat: Micro Habitat:

S3

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 IN KERN COUNTY.

State:

VARIETY OF HABITATS; GENERALLY IN MOIST, LOOSE SOIL. THEY

PREFER SOILS WITH A HIGH MOISTURE CONTENT.

Last Date Observed: 2017-01-28 Occurrence Type: Natural/Native occurrence

2017-01-28 Occurrence Rank: **Last Survey Date:** Good Owner/Manager: **UNKNOWN** Trend: Unknown

Presence: Presumed Extant

Location:

SOUTH SIDE OF CABLE CREEK AND NE OF I-215, ABOUT 0.8 MILE NNW OF KENDALL DRIVE AT LITTLE LEAGUE DRIVE, SAN BERNARDINO

Detailed Location:

CNDDB Element Ranks:

SITE APPEARS TO BE ACCESSIBLE FROM FRONTAGE ROAD ON NE SIDE OF I-215.

Ecological:

HABITAT DESCRIBED AS COASTAL SAGE SCRUB AT A ROCKY/SANDY WASH IN AN OHV AREA.

Threats:

POSSIBLY THREATENED BY OFF HIGHWAY VEHICLE USE ALONG CABLE CREEK WASH.

General:

2 FOUND BY ROCK FLIPPING AND PHOTOGRAPHED ON 4 MAR 2006. 1 FOUND BY FLIPPING ARTIFICIAL COVER AND PHOTOGRAPHED ON 18 FEB 2014. 1 COLLECTED ON 28 JAN 2017 AND EXPERTLY IDENTIFIED AS NEWLY DESCRIBED SPECIES A. STEBBINSI.

PLSS: T01N, R05W, Sec. 2, NW (S) specific area Area (acres): 16 Accuracy: UTM: Zone-11 N3785307 E465106 Latitude/Longitude: 34.20821 / -117.37878 Elevation (feet): 1,857

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

HANSEN, R. ET AL. - CAS #261584 COLLECTED AT E SIDE OF INTERSTATE 215, CABLE CANYON WASH, 34 12 25.38 N, 117 22 HAN17S0005

45.228 W 2017-01-28

HERP, INC. - HERPETOLOGICAL EDUCATION AND RESEARCH PROJECT (HERP) DATABASE. FORMERLY A PROJECT OF THE HER16D0001

NORTH AMERICAN FIELD HERPING ASSOCIATION. 2016-10-11



California Department of Fish and Wildlife

California Natural Diversity Database

B1647 EO Index: 113560 Map Index Number:

Key Quad: Devore (3411724) **Element Code:** ARACC01060 **Occurrence Number:** 394 Occurrence Last Updated: 2018-12-13

Scientific Name: Anniella stebbinsi Common Name: Southern California legless lizard

Federal: Rare Plant Rank: **Listing Status:** None

> State: None Other Lists: CDFW_SSC-Species of Special Concern

USFS_S-Sensitive Global: G3

General Habitat: Micro Habitat:

S3

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 IN KERN COUNTY.

State:

VARIETY OF HABITATS; GENERALLY IN MOIST, LOOSE SOIL. THEY

PREFER SOILS WITH A HIGH MOISTURE CONTENT.

Last Date Observed: 2018-11-24 Occurrence Type: Natural/Native occurrence

Last Survey Date: 2018-11-24 Occurrence Rank: Good Owner/Manager: **UNKNOWN** Trend: Unknown

Presence: Presumed Extant

Location:

VICINITY OF SIERRA HEIGHTS, 1 MI ENE OF I-15 AT DUNCAN CANYON RD AND 0.8 MI SSW OF I-15 AT SIERRA AVE, N OF FONTANA.

Detailed Location:

CNDDB Element Ranks:

Ecological:

Threats:

General:

1 FOUND AND PHOTOGRAPHED ON 24 NOV 2018.

PLSS: T01N, R05W, Sec. 18, SE (S) Accuracy: 1/10 mile Area (acres): 18 Zone-11 N3781187 E459148 Latitude/Longitude: 34.17084 / -117.44325 Elevation (feet): 1,885 UTM:

County Summary: Quad Summary:

Devore (3411724) San Bernardino

Sources:

INA18U0030 INATURALIST & B. HINDS - OBSERVATION 18968190 FROM HTTP://WWW.INATURALIST.ORG. ACCESSED 2018-12-13. 2018-11-24



California Department of Fish and Wildlife



Map Index Number: 03119 **EO Index:** 28126

Key Quad:Cucamonga Peak (3411725)Element Code:ARACF12100Occurrence Number:37Occurrence Last Updated:2012-02-22

Scientific Name: Phrynosoma blainvillii Common Name: coast horned lizard

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G3G4 CDFW_SSC-Species of Special Concern

S3S4 IUCN_LC-Least Concern

General Habitat: Micro Habitat:

FREQUENTS A WIDE VARIETY OF HABITATS, MOST COMMON IN OPEN AREAS FOR SUNNING, BUSHES FOR COVER, PATCHES OF LOWLANDS ALONG SANDY WASHES WITH SCATTERED LOW BUSHES.

OTHER INSECTS.

Last Date Observed: 1959-07-28 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 1959-07-28
 Occurrence Rank:
 Unknown

 Owner/Manager:
 USFS-SAN BERNARDINO NF
 Trend:
 Unknown

Presence: Presumed Extant

Location:

ETIWANDA CANYON, 4.5 MI W OF NEALEYS CORNER, SAN GABRIEL MTNS.

Detailed Location:

MAPPED TO STATED LOCALITY OF "SAN GABRIEL MTS; W SLOPE ETIWANDA."

Threats:
General:

State:

1 COLLECTED BY A. SCHOENHERR ON 28 JUL 1959 (LACM #26957).

PLSS: T01N, R06W, Sec. 04 (S) **Accuracy:** 1 mile **Area (acres):** 0

UTM: Zone-11 N3784093 E452337 Latitude/Longitude: 34.19676 / -117.51731 Elevation (feet): 3,800

County Summary: Quad Summary:

San Bernardino Devore (3411724), Cucamonga Peak (3411725)

Sources:

Ecological:

SCH59S0001 SCHOENHERR, A. - LACM #26957 1959-07-28



California Department of Fish and Wildlife



Map Index Number: 03292 **EO Index:** 27960

Key Quad:Devore (3411724)Element Code:ARACF12100Occurrence Number:292Occurrence Last Updated:1995-11-02

Scientific Name: Phrynosoma blainvillii Common Name: coast horned lizard

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G3G4 CDFW_SSC-Species of Special Concern

G3G4 IUCN_C-Least Concern

General Habitat: Micro Habitat:

State:

FREQUENTS A WIDE VARIETY OF HABITATS, MOST COMMON IN OPEN AREAS FOR SUNNING, BUSHES FOR COVER, PATCHES OF LOWLANDS ALONG SANDY WASHES WITH SCATTERED LOW BUSHES.

OTHER INSECTS.

Last Date Observed: 1988-05-26 Occurrence Type: Natural/Native occurrence

Last Survey Date: 1992-04-10 Occurrence Rank: None

Owner/Manager: SBD COUNTY Trend: Decreasing

Presence: Extirpated

Location:

CAJON WASH, 2.5 MILES SE OF DEVORE, NORTH SIDE OF INSTITUTION ROAD.

Detailed Location:

Ecological:

HABITAT IS RIVERSIDEAN ALLUVIAL SAGE SCRUB. ORANGE-THROATED WHIPTAIL ALSO OCCURS AT THIS SITE.

Threats:

AREA HAS BEEN DEVELOPED AS A POLICE DRIVING COURSE (COMPLETELY GRADED & RESTRUCTURED FOR STREET/HIGHWAY SIMULATION).

General:

ONE INDIVIDUAL OBSERVED IN 1988; IN 1992, HABITAT HAD BEEN DESTROYED AND NO HORNED LIZARDS OBSERVED.

PLSS: T01N, R05W, Sec. 11 (S) **Accuracy:** 1/5 mile **Area (acres):** 0

UTM: Zone-11 N3782427 E464671 **Latitude/Longitude:** 34.18222 / -117.38338 **Elevation (feet):** 1,680

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

MILROY III, L.G. - FIELD SURVEY FORM FOR PHRYNOSOMA CORONATUM (BLAINVILLII POPULATION) 1992-04-10

PEN88F0004 PENDLETON, M.H. - FIELD SURVEY FORM FOR PHRYNOSOMA CORONATUM (BLAINVILLII POPULATION) 1988-05-26



California Department of Fish and Wildlife



Map Index Number: 20511 **EO Index:** 9880

Key Quad:San Bernardino North (3411723)Element Code:ARACF12100Occurrence Number:321Occurrence Last Updated:1991-12-03

Scientific Name: Phrynosoma blainvillii Common Name: coast horned lizard

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G3G4 CDFW_SSC-Species of Special Concern

: G3G4 IUCN_LC-Least Concern S3S4

General Habitat: Micro Habitat:

State:

FREQUENTS A WIDE VARIETY OF HABITATS, MOST COMMON IN OPEN AREAS FOR SUNNING, BUSHES FOR COVER, PATCHES OF LOWLANDS ALONG SANDY WASHES WITH SCATTERED LOW BUSHES.

OTHER INSECTS.

Last Date Observed: 1990-08-23 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 1990-08-23

 Owner/Manager:
 PVT

 Trend:
 Unknown

Presence: Presumed Extant

Location:

BETWEEN MEYERS CANYON AND CABLE CANYON, NORTH OF I-15 AND EAST OF THE CITY OF DEVORE.

Detailed Location:

Ecological:

HABITAT IS COASTAL SCRUB, DOMINATED BY ERIOGONUM FASCICULATUM SSP. FOLIOSUM, SALVIA APIANA, AND ERIODICTYON TRICOCALYX.

Threats:

MAIN THREAT IS CONVERSION OF THIS OPEN SPACE TO RESIDENTIAL DEVELOPMENT.

General:

3 ADULT AND 2 JUVENILE LIZARDS OBSERVED.SITE COULD BE PROTECTED BY ANNEXATION TO SAN BERNARDINO NATIONAL FOREST, WHICH SURROUNDS IT ON 3 SIDES.

 PLSS:
 T02N, R05W, Sec. 35 (S)
 Accuracy:
 3/5 mile
 Area (acres):
 0

 UTM:
 Zone-11 N3786922 E465949
 Latitude/Longitude:
 34.22281 / -117.36968
 Elevation (feet):
 2,500

County Summary: Quad Summary:

San Bernardino San Bernardino North (3411723), Devore (3411724)

Sources:

PHI90F0016 PHILLIPS, J.R. - FIELD SURVEY FORM FOR PHRYNOSOMA CORONATUM (BLAINVILLII POPULATION) - (SAN DIEGO HORNED

LIZARD) 1990-08-23



California Department of Fish and Wildlife



Map Index Number: 20069 EO Index: 9882

Key Quad:Devore (3411724)Element Code:ARACF12100Occurrence Number:322Occurrence Last Updated:1991-12-03

Scientific Name: Phrynosoma blainvillii Common Name: coast horned lizard

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G3G4 CDFW_SSC-Species of Special Concern

: G3G4 IUCN_LC-Least Concern S3S4

General Habitat: Micro Habitat:

FREQUENTS A WIDE VARIETY OF HABITATS, MOST COMMON IN OPEN AREAS FOR SUNNING, BUSHES FOR COVER, PATCHES OF LOWLANDS ALONG SANDY WASHES WITH SCATTERED LOW BUSHES.

OTHER INSECTS.

Last Date Observed: 1988-02-06 Occurrence Type: Natural/Native occurrence

Last Survey Date: 1988-02-06 Occurrence Rank: Fair

Owner/Manager: PVT Trend: Unknown

Presence: Presumed Extant

Location:

JUST EAST OF THE JUNCTION OF AYALA DRIVE AND FITZGERALD, BETWEEN RIALTO MUNICIPAL AIRPORT AND THE CITY OF RIALTO.

Detailed Location:

SPECIMEN WAS FOUND AT THE NORTH EXTENT OF THE GRAVEL PITS.

State:

Ecological:

HABITAT IS AN OPEN, COBBLY/SANDY AREA, LOCATED ADJACENT TO 80 ACRES OF ALLUVIAL SAGE SCRUB, DOMINATED BY ERIOGONUM FASCICULATUM, PENSTEMON SPECTABILIS, SCHISMUS BARBATUS, ARTEMISIA CALIFORNICA, BRASSICA GENICULATA, BROMUS RUBENS, ETC.

Threats:

THREATENED BY A PROPOSAL TO ESTABLISH THIS AREA AS A FLOOD CONTROL RETENTION BASIN.

General:

ONE LIZARD OBSERVED, APPROXIMATELY 6.5 CM IN LENGTH.

PLSS: T01N, R05W, Sec. 34, SE (S) **Accuracy**: 2/5 mile **Area (acres)**: 0

UTM: Zone-11 N3776362 E464148 **Latitude/Longitude:** 34.12751 / -117.38880 **Elevation (feet):** 1,400

County Summary: Quad Summary:

San Bernardino Fontana (3411714), Devore (3411724)

Sources:

BRA88F0001 BRAMLET, D. - FIELD SURVEY FORM FOR PHRYNOSOMA CORONATUM (BLAINVILLII POPULATION) - (SAN DIEGO HORNED

LIZARD) 1988-02-06



California Department of Fish and Wildlife



Map Index Number: 20071 EO Index: 9886

Key Quad:Devore (3411724)Element Code:ARACF12100Occurrence Number:323Occurrence Last Updated:1991-12-03

Scientific Name: Phrynosoma blainvillii Common Name: coast horned lizard

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G3G4 CDFW_SSC-Species of Special Concern

: G3G4 IUCN_LC-Least Concern S3S4

General Habitat: Micro Habitat:

FREQUENTS A WIDE VARIETY OF HABITATS, MOST COMMON IN OPEN AREAS FOR SUNNING, BUSHES FOR COVER, PATCHES OF LOWLANDS ALONG SANDY WASHES WITH SCATTERED LOW BUSHES.

OTHER INSECTS.

Last Date Observed: 1990-08-27 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 1990-08-27

 Owner/Manager:
 PVT

 Trend:
 Unknown

Presence: Presumed Extant

Location:

BETWEEN AMES CANYON AND CABLE CANYON, 0.75 MI EAST OF THE JCT OF I-15 AND I-215, DEVORE.

Detailed Location:

Ecological:

HABITAT IS RIVERSIDEAN ALLUVIAL FAN SAGE SCRUB, DOMINATED BY ARTEMISIA CALIFORNICA AND ERIOGONUM FASCICULATUM SSP. FOLIOSUM.

Threats:

POSSIBLE THREAT OF RESIDENTIAL DEVELOPMENT.

State:

General:

TWO ADULT AND ONE JUVENILE LIZARD OBSERVED. CURRENT LAND USE IS UNDEVELOPED OPEN SPACE.

 PLSS:
 T02N, R05W, Sec. 34, NW (S)
 Accuracy:
 2/5 mile
 Area (acres):
 0

County Summary:Quad Summary:San BernardinoDevore (3411724)

Sources:

PHI90F0017 PHILLIPS, J.R. - FIELD SURVEY FORM FOR PHRYNOSOMA CORONATUM (BLAINVILLII POPULATION) - (SAN DIEGO HORNED

LIZARD) 1990-08-27



California Department of Fish and Wildlife





ARACF12100 **Key Quad:** Devore (3411724) **Element Code: Occurrence Number:** 324 Occurrence Last Updated: 2012-05-29

Scientific Name: coast horned lizard Phrynosoma blainvillii Common Name:

Listing Status: Federal: None Rare Plant Rank:

> State: None Other Lists: BLM_S-Sensitive

CDFW_SSC-Species of Special Concern **CNDDB Element Ranks:** Global: G3G4

IUCN_LC-Least Concern S3S4

General Habitat: Micro Habitat:

OPEN AREAS FOR SUNNING, BUSHES FOR COVER, PATCHES OF FREQUENTS A WIDE VARIETY OF HABITATS, MOST COMMON IN LOWLANDS ALONG SANDY WASHES WITH SCATTERED LOW BUSHES. LOOSE SOIL FOR BURIAL, AND ABUNDANT SUPPLY OF ANTS AND

OTHER INSECTS.

Last Date Observed: 2008-08-07 Occurrence Type: Natural/Native occurrence

Good **Last Survey Date:** 2008-08-07 Occurrence Rank: Owner/Manager: **PVT** Trend: Unknown

Presence: Presumed Extant

CAJON WASH, SE OF THE JUNCTION OF I-15 AND I-215, DEVORE.

State:

Detailed Location:

SAN DIEGO HORNED LIZARDS ARE LIKELY FOUND THROUGHOUT THIS ENTIRE SITE. MAPPED TO PROVIDED COORDINATES AND MAP. 1964 SPECIMEN LOCALITY AT "6.4 MI W SAN BERNARDINO ON KENDALL DR"; EXACT LOCATION UNKNOWN, BUT INCLUDED HERE.

Location:

HABITAT IS RIVERSIDEAN ALLUVIAL FAN SAGE SCRUB. PORTIONS OF OCCURRENCE IN THE NORTH DEVELOPED AFTER 2005 AND BEFORE 2009.

Threats:

THREATENED BY A PLANNED DEVELOPMENT, AGGREGATE MINING, OHVS, AND NON-NATIVE GRASSES.

General:

1 COLLECTED 16 MAY 1964 (LACM #101451) BY D.E. HARVEY. 2 ADULT LIZARDS AND A FEW HORNED LIZARD SCATS OBSERVED IN 1990. 1 JUVENILE WAS OBSERVED IN WASH ENE OF GLEN HELEN REHAB FACILITY IN 7 AUG 2008, 0.25 MILE NORTH OF INSTITUTION ROAD.

PLSS: T01N, R05W (S) 2,097 Accuracy: non-specific area Area (acres): Zone-11 N3783362 E465195 Latitude/Longitude: 34.19067 / -117.37773 Elevation (feet): 1,700

County Summary: Quad Summary:

San Bernardino San Bernardino North (3411723), Devore (3411724)

Sources:

HAR64S0012 HARVEY, D. - LACM #101451 1964-05-16

WHI08F0064 WHITE, S. & J. WOOD (SCOTT WHITE BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR PHRYNOSOMA CORONATUM

(BLAINVILLII POPULATION) 2008-08-07

WHI90F0006 WHITE, S. - FIELD SURVEY FORM FOR PHRYNOSOMA CORONATUM BLAINVILLII 1990-XX-XX



California Department of Fish and Wildlife



Map Index Number: 20365 EO Index: 23986

Key Quad:Devore (3411724)Element Code:ARACF12100Occurrence Number:378Occurrence Last Updated:2011-02-28

Scientific Name: Phrynosoma blainvillii Common Name: coast horned lizard

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G3G4 CDFW_SSC-Species of Special Concern

: G3G4 IUCN_LC-Least Concern S3S4

General Habitat: Micro Habitat:

State:

FREQUENTS A WIDE VARIETY OF HABITATS, MOST COMMON IN
LOWLANDS ALONG SANDY WASHES WITH SCATTERED LOW BUSHES.

OPEN AREAS FOR SUNNING, BUSHES FOR COVER, PATCHES OF LOOSE SOIL FOR BURIAL, AND ABUNDANT SUPPLY OF ANTS AND

OTHER INSECTS.

Last Date Observed: 1991-06-30 Occurrence Type: Natural/Native occurrence

Last Survey Date:1991-06-30Occurrence Rank:ExcellentOwner/Manager:UNKNOWNTrend:Unknown

Presence: Presumed Extant

Location:

AREA OF NW, SE, AND NE OF THE INTERSECTION OF I-15 AND FOOTHILL FREEWAY (SR 210), RANCHO CUCAMONGA.

Detailed Location:

Ecological:

HABITAT CONSISTED OF LOOSE, SANDY SOIL IN ALLUVIAL SCRUB/DRY WASH. MILROY OBS BREEDING, FORAGING, WINTERING ACTIVITIES OF LIZARD-HE RECOMMENDED PROTECTION OF AREA AS RESERVE, ESP ON NW SITE (1991). SOME RESIDENTIAL IN NW, NE (2009 AERIAL).

Threats:

SURROUNDING AREAS OF RESIDENTIAL DEVELOPMENT AND SOME VACANT VINEYARDS.

General:

MILROY ESTIMATED MINIMUM POPULATION OF 27 LIZARDS (20+ ADULTS & 7+ JUVENILES) AT SE & NE SITES, AND MINIMUM 63 LIZARDS (47+ ADULTS & 16+ JUVENILES) AT NW SITE BASED ON HIS FIELD SURVEY FOR 18 MONTHS.

 PLSS:
 T01N, R06W, Sec. 26 (S)
 Accuracy:
 non-specific area
 Area (acres):
 1,986

 UTM:
 Zone-11 N3777468 E455017
 Latitude/Longitude:
 34.13713 / -117.48787
 Elevation (feet):
 1,400

County Summary: Quad Summary:

San Bernardino Fontana (3411714), Devore (3411724), Cucamonga Peak (3411725)

Sources:

MIL91F0005 MILROY III, L.G. - FIELD SURVEY FORM FOR PHRYNOSOMA CORONATUM (BLAINVILLII POPULATION) 1991-06-30
MILROY III, L.G. - FIELD SURVEY FORM FOR PHRYNOSOMA CORONATUM (BLAINVILLII POPULATION) 1991-06-30



California Department of Fish and Wildlife



Map Index Number: 78372 **EO Index:** 79293

Key Quad:Devore (3411724)Element Code:ARACF12100Occurrence Number:696Occurrence Last Updated:2010-03-18

Scientific Name: Phrynosoma blainvillii Common Name: coast horned lizard

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G3G4 CDFW_SSC-Species of Special Concern

S3S4 IUCN_LC-Least Concern

General Habitat: Micro Habitat:

State:

FREQUENTS A WIDE VARIETY OF HABITATS, MOST COMMON IN OPEN AREAS FOR SUNNING, BUSHES FOR COVER, PATCHES OF LOWLANDS ALONG SANDY WASHES WITH SCATTERED LOW BUSHES.

OTHER INSECTS.

Last Date Observed: 2009-06-30 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2009-06-30

 Owner/Manager:
 UNKNOWN

 Trend:
 Unknown

Presence: Presumed Extant

Location:

CAJON CANYON, ABOUT 0.5 MI NNE OF GLEN HELEN REGIONAL PARK, SOUTHEAST OF I-215 & I-15 JUNCTION, DEVORE.

Detailed Location:

BY FIRE STATION ADJACENT TO CAJON CREEK. MAPPED ACCORDING TO COORDINATES/MAP PROVIDED.

Ecological:

FOUND IN DISTURBED ALLUVIAL SCRUB VEGETATION. SANDY, GRAVEL SOILS WITH NUMEROUS ANTS PRESENT. LOTS OF WEEDY HERBACEOUS ANNUALS WITH YERBA SANTA, RHUS TRILOBATA, AND YUCCA. SITE COMPLETELY SURRONDED BY DEVELOPMENT, TRAIN TRACKS, AND ROADS.

Threats:

DEVELOPMENT, OHV USE, AND TRASH.

General:

ONE OBSERVED BEHIND FIRE STATION IN AREA ON 30 JUNE 2009.

 PLSS:
 T02N, R05W, Sec. 33, NE (S)
 Accuracy:
 80 meters
 Area (acres):
 0

 UTM:
 Zone-11 N3786694 E462709
 Latitude/Longitude:
 34.22064 / -117.40485
 Elevation (feet):
 2,077

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

KIP09F0001 KIPPER, J. & P. BRENNER (ULTRASYSTEMS) - FIELD SURVEY FORM FOR PHRYNOSOMA BLAINVILLII 2009-06-30



California Department of Fish and Wildlife



Map Index Number: 87015 **EO Index:** 83029

Key Quad:Devore (3411724)Element Code:ARACF12100Occurrence Number:770Occurrence Last Updated:2012-10-24

Scientific Name: Phrynosoma blainvillii Common Name: coast horned lizard

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G3G4 CDFW_SSC-Species of Special Concern

S3S4 IUCN_LC-Least Concern

General Habitat: Micro Habitat:

State:

FREQUENTS A WIDE VARIETY OF HABITATS, MOST COMMON IN OPEN AREAS FOR SUNNING, BUSHES FOR COVER, PATCHES OF LOWLANDS ALONG SANDY WASHES WITH SCATTERED LOW BUSHES.

OTHER INSECTS.

Last Date Observed: 1938-04-03 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 1938-04-03

 Owner/Manager:
 USFS-SAN BERNARDINO NF, UNK

 Trend:
 Unknown

Presence: Presumed Extant

Location:

LYTLE CREEK, NEAR LYTLE CREEK CANYON MOUTH, ABOUT 6.5 MILES NW OF MUSCOY.

Detailed Location:

1903 SPECIMEN FROM "LYTLE CREEK, SAN BERNADINO COUNTY" MAY BE FROM ANYWHERE ALONG CRK; LOCALITY GIVEN FOR SPECIMEN STEPHENS TOOK 3 DAYS EARLIER: "NORTH FORK LYTLE CREEK." MAPPED TO 1938 LOCALITY "ONTARIO, NEAR, MOUTH OF LYTLE CREEK CANYON."

Ecological:

Threats:

General:

SDNHM #11223 COLLECTED BY F. STEPHENS ON 21 JUL 1903. USNM #312967 TAKEN BY ANONYMOUS COLLECTOR ON 3 APR 1938.

 PLSS:
 T01N, R05W, Sec. 06 (S)
 Accuracy:
 1 mile
 Area (acres):
 0

 UTM:
 Zone-11 N3784814 E458589
 Latitude/Longitude:
 34.20352 / -117.44949
 Elevation (feet):
 2,300

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

ANO38S0003 ANONYMOUS (U.S. NATIONAL MUSEUM OF NATURAL HISTORY) - USNM #312967, COLLECTED AT MOUTH OF LYTLE CREEK

CANYON. 1938-04-03

STE03S0001 STEPHENS, F. (SAN DIEGO NATURAL HISTORY MUSEUM) - SDNHM SPECIMEN #11223 1903-07-21



Occurrence Report

California Department of Fish and Wildlife





Key Quad: Devore (3411724)

Element Code: ARADB01017

Occurrence Number:

Occurrence Last Updated: 2017-01-17

Scientific Name: Arizona elegans occidentalis

A3375

Common Name: California glossy snake

Federal: **Listing Status:** None Rare Plant Rank:

Other Lists:

State: None CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T2

> State: S2

General Habitat: Micro Habitat:

PATCHILY DISTRIBUTED FROM THE EASTERN PORTION OF SAN FRANCISCO BAY, SOUTHERN SAN JOAQUIN VALLEY, AND THE COAST, TRANSVERSE, AND PENINSULAR RANGES, SOUTH TO BAJA CALIFORNIA.

GENERALIST REPORTED FROM A RANGE OF SCRUB AND GRASSLAND HABITATS, OFTEN WITH LOOSE OR SANDY SOILS.

Last Date Observed: 1973-05-27 Occurrence Type: Natural/Native occurrence

Last Survey Date: 1973-05-27 SBD COUNTY Owner/Manager:

Occurrence Rank: Unknown Trend: Unknown

Presence: Presumed Extant

Location:

GLEN HELEN REGIONAL PARK, SE OF GLEN HELEN PKWY (DEVORE RD), SOUTH DEVORE.

Detailed Location:

ATTRIBUTED SPECIMEN COLLECTED FROM "DEVORE," EXACT LOCATION UNKNOWN.

Ecological:

Threats:

General:

1 COLLECTED ON 24 MAY 1968 AND 1 ON 27 MAY 1973.

PLSS: T01N, R05W, Sec. 4, NE (S) Accuracy:

Area (acres): Elevation (feet): 2,009 UTM: Zone-11 N3784958 E462618 Latitude/Longitude: 34.20498 / -117.40578

2/5 mile

County Summary: Quad Summary:

Devore (3411724) San Bernardino

Sources:

COH68S0001 COHEN, S. - LACM #102119 COLLECTED FROM DEVORE 1968-05-24

JON73S0001 JONES, R. - LACM #102120 COLLECTED FROM GLEN HELEN REGIONAL PARK, 0.3 MI FROM DEVORE RD 1973-05-27

280



California Department of Fish and Wildlife





ARADB01017 Key Quad: Devore (3411724) **Element Code: Occurrence Number:** Occurrence Last Updated: 2017-01-12

Scientific Name: Arizona elegans occidentalis Common Name: California glossy snake

Federal: Rare Plant Rank: **Listing Status:** None

> State: None Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T2

> State: S2

General Habitat: Micro Habitat:

PATCHILY DISTRIBUTED FROM THE EASTERN PORTION OF SAN FRANCISCO BAY, SOUTHERN SAN JOAQUIN VALLEY, AND THE COAST, TRANSVERSE, AND PENINSULAR RANGES, SOUTH TO BAJA CALIFORNIA.

GENERALIST REPORTED FROM A RANGE OF SCRUB AND GRASSLAND HABITATS, OFTEN WITH LOOSE OR SANDY SOILS.

Last Date Observed: 2016-03-12 Occurrence Type: Natural/Native occurrence

Last Survey Date: 2016-03-12 Occurrence Rank: Unknown **UNKNOWN** Trend: Owner/Manager: Unknown

Presence: Presumed Extant

Location:

SW SIDE OF KENDALL DR, 0.3 MI NW OF INTERSECTION WITH N LITTLE LEAGUE DR, SOUTHEAST OF DEVORE.

Detailed Location:

MAPPED TO PROVIDED COORDINATES.

Ecological:

HABITAT WAS ALLUVIAL FAN, SCRUB, GRASS, SAGE, PLOWED.

Threats:

General:

1 YEARLING FOUND UNDER ARTIFICIAL COVER ON 12 MAR 2016.

PLSS: T01N, R05W, Sec. 2, SW (S) Accuracy: 80 meters Area (acres): 5

UTM: Zone-11 N3784412 E465248 Latitude/Longitude: 34.20014 / -117.37721 Elevation (feet): 1,815

County Summary: Quad Summary: Devore (3411724) San Bernardino

Sources:

HERP, INC. - HERPETOLOGICAL EDUCATION AND RESEARCH PROJECT (HERP) DATABASE. FORMERLY A PROJECT OF THE HER16D0001

NORTH AMERICAN FIELD HERPING ASSOCIATION. 2016-10-11



Occurrence Report

California Department of Fish and Wildlife



A3358 EO Index: 104992

Key Quad: Devore (3411724) **Element Code:** ARADB01017 **Occurrence Number:** Occurrence Last Updated: 2017-01-12

Scientific Name: Arizona elegans occidentalis Common Name: California glossy snake

Federal: Rare Plant Rank: **Listing Status:** None

> State: None Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T2

> State: S2

General Habitat: Micro Habitat:

PATCHILY DISTRIBUTED FROM THE EASTERN PORTION OF SAN FRANCISCO BAY, SOUTHERN SAN JOAQUIN VALLEY, AND THE COAST, TRANSVERSE, AND PENINSULAR RANGES, SOUTH TO BAJA CALIFORNIA.

GENERALIST REPORTED FROM A RANGE OF SCRUB AND GRASSLAND HABITATS, OFTEN WITH LOOSE OR SANDY SOILS.

Last Date Observed: 2007-04-03 Occurrence Type: Natural/Native occurrence

Last Survey Date: 2007-04-03 Occurrence Rank: Unknown P\/T Trend: Owner/Manager: Unknown

Presence: Presumed Extant

Location:

KENDALL DR, ABOUT 0.3 MI SE OF INTERSECTION WITH CAJON BLVD, SOUTHEAST DEVORE.

Detailed Location:

MAPPED TO COORDINATES PROVIDED.

Ecological:

HABITAT WAS RESIDENTIAL, COASTAL SCRUB/GRASSY. LARGE RESIDENTIAL LOTS ON ONE SIDE OF ROAD AND PLOWED FIELDS ON THE OTHER.

Threats:

FOUND DEAD ON ROAD.

General:

1 JUVENILE FOUND DEAD ON ROAD ON 3 APR 2007.

PLSS: T01N, R05W, Sec. 2, NW (S) Accuracy: 80 meters Area (acres): 5 UTM: Zone-11 N3784965 E464755 Latitude/Longitude: 34.20512 / -117.38258 Elevation (feet): 1,866

County Summary: Quad Summary: Devore (3411724)

San Bernardino

Sources:

HERP, INC. - HERPETOLOGICAL EDUCATION AND RESEARCH PROJECT (HERP) DATABASE. FORMERLY A PROJECT OF THE HER16D0001

NORTH AMERICAN FIELD HERPING ASSOCIATION. 2016-10-11



Occurrence Report

California Department of Fish and Wildlife



EO Index: 105012

Key Quad:Devore (3411724)Element Code:ARADB01017Occurrence Number:90Occurrence Last Updated:2017-01-17

Scientific Name: Arizona elegans occidentalis Common Name: California glossy snake

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: Global: G5T2

A3379

State: S2

General Habitat: Micro Habitat:

PATCHILY DISTRIBUTED FROM THE EASTERN PORTION OF SAN FRANCISCO BAY, SOUTHERN SAN JOAQUIN VALLEY, AND THE COAST, TRANSVERSE, AND PENINSULAR RANGES, SOUTH TO BAJA CALIFORNIA.

GENERALIST REPORTED FROM A RANGE OF SCRUB AND GRASSLAND HABITATS, OFTEN WITH LOOSE OR SANDY SOILS.

Last Date Observed: 2013-05-28 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2013-05-28

 Owner/Manager:
 UNKNOWN

 Trend:
 Unknown

Presence: Presumed Extant

Location:

I-15, SOUTHBOUND RAMP FROM SIERRA AVE, SOUTH NEALEYS CORNER.

Detailed Location:

MAPPED TO PROVIDED COORDINATES.

Ecological:

HABITAT WAS ALLUVIAL FAN/FREEWAY ON RAMP. LOCAL HABITAT RECENTLY BULLDOZED AND BURNED.

Threats:

FOUND DEAD ON ROAD.

General:

1 ADULT DOR FOUND ON 28 MAY 2013.

 PLSS:
 T01N, R05W, Sec. 7, SE (S)
 Accuracy:
 80 meters
 Area (acres):
 5

 UTM:
 Zone-11 N3782350 E459643
 Latitude/Longitude:
 34.18134 / -117.43794
 Elevation (feet):
 1,998

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

HER16D0001 HERP, INC. - HERPETOLOGICAL EDUCATION AND RESEARCH PROJECT (HERP) DATABASE. FORMERLY A PROJECT OF THE

NORTH AMERICAN FIELD HERPING ASSOCIATION. 2016-10-11

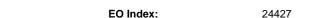


CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife





Key Quad:Devore (3411724)Element Code:CTT32720CAOccurrence Number:3Occurrence Last Updated:1998-07-13

Scientific Name: Riversidian Alluvial Fan Sage Scrub Common Name: Riversidian Alluvial Fan Sage Scrub

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists:

State: S1.1

G1

General Habitat: Micro Habitat:

Last Date Observed: 1985-02-12 Occurrence Type: Natural/Native occurrence

Last Survey Date: 1985-02-12 Occurrence Rank: Good

Owner/Manager: FLOOD CONTROL DIST, PVT, USFS Trend: Decreasing

Presence: Presumed Extant

03283

Global:

Location:

WASHES ON EITHER SIDE OF GLEN HELEN REHABILITATION FACILITY: LYTLE CREEK & CAJON CANYON. SAN BERNARDINO NATIONAL FOREST.

Detailed Location:

BOUNDARY PER 1985 AERIAL PHOTOS.

Ecological:

LARGE AREA W/ VARIED FAN SCRUB VEG. NEAR STREAM BEDS, ABUNDANT ERIOGONUM FASCIC, ERICAMERIA PINIFOLIA & LEPIDOSPARTUM SQUAMATUM. SITES LESS FREQUENTLY FLOODED: SYCAMORES, MTN MAHOGANY, YUCCA WHIPPLEI. LGE AREAS REWORKED BY ANNUAL FLOODING.

Threats:

DISTURBED BY GRAVEL PITS, LEVEES. CONSTRUCTION OF HWY 30 MAY DESTROY 129 PLANTS. PART PROPOSED FOR DEVELOPMENT.

General:

MORE SPECIES INFO IN GMF FOR THIS OCCURRENCE. ALSO SEE BIT89R01 IN NC ELF 32720. SEE

WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

 PLSS:
 T01N, R05W, Sec. 15 (S)
 Accuracy:
 specific area
 Area (acres):
 9,219

 UTM:
 Zone-11 N3781667 E463276
 Latitude/Longitude:
 34.17532 / -117.39848
 Elevation (feet):
 2,000

County Summary: Quad Summary:

San Bernardino South (3411713), San Bernardino North (3411723), Devore (3411724)

Sources:

HAN80U0002 HANES, T. & D. JENSEN - REPORT OF MEETING WITH TED HANES ON ALLUVIAL FAN COASTAL SAGE, CNERIDIUM STANDS, COMAROSTAPHYLIS & XYLOCOCCUS, TECATE CYPRESS, KNOBCONE PINE, ENGELMANN OAK, AND REDSHANK.. 1980-10-28

HOL85F0033 HOLLAND, R.F. - FIELD SURVEY FORM FOR RIVERSIDIAN ALLUVIAL FAN SAGE SCRUB (NC32720) 1985-02-12

HOLLAND, R.F. - FIELD MAPS OF LOS ANGELES RIPARIAN COMMUNITIES (SEE ALSO HOL88U0001). QUAD #3411727, 3411728,

3411438, 3411748, 3411821, 3411831, 3411841, 3411855, 3411864, 3411865, 3411866) 1988-04-XX

LAP83M0001 LAPRE, L. - MAP OF RIVERSIDIAN ALLUVIAL FAN SAGE SCRUB SITE NORTH OF HIGHLAND AVE., RIALTO. 1983-09-17
MAR88F0007 MARSH, K. - FIELD SURVEY FORM FOR RIVERSIDIAN ALLUVIAL FAN SAGE SCRUB & ERIASTRUM DENSIFOLIUM SSP.

SANCTORUM 1988-07-07

ZIP90F0006 ZIPPIN, D. - FIELD SURVEY FORM FOR RIVERSIDIAN ALLUVIAL FAN SAGE SCRUB (NC32720) 1990-07-08



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife



EO Index: 24359

Key Quad:Devore (3411724)Element Code:CTT32720CAOccurrence Number:16Occurrence Last Updated:1998-07-13

Scientific Name: Riversidian Alluvial Fan Sage Scrub Common Name: Riversidian Alluvial Fan Sage Scrub

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists:

State: S1.1

G1

General Habitat: Micro Habitat:

Last Date Observed: 1985-02-13 Occurrence Type: Natural/Native occurrence

Last Survey Date:1985-11-15Occurrence Rank:UnknownOwner/Manager:PVTTrend:Unknown

Presence: Presumed Extant

Location:

SAN SEVAINE CANYON WASH, NW OF RIALTO.

03149

Global:

Detailed Location:

BOUNDARY CHANGED PER INTERPRETATION OF 1978 AERIAL PHOTOS.

Ecological:

SALVIA APIANA, ERIOGONUM FASCICULATUM, LEPIDOSPARTUM SQUAMATUM, ARTEMISIA CALIFORNICA AND CERCOCARPUS BETULOIDES PER WIESLANDER SURVEY (1935).

Threats:

SHEEP GRAZING. SAN SEVAINE MAY SERVE AS OFF-SITE MITIGATION FOR OTHER SITES BEING DEVELOPED.

General:

NEEDS VERIFICATION OF VEGETATION CONDITION, COMPOSITION. SEE

WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

 PLSS:
 T01N, R06W, Sec. 22 (S)
 Accuracy:
 specific area
 Area (acres):
 253

 UTM:
 Zone-11 N3780105 E454806
 Latitude/Longitude:
 34.16090 / -117.49031
 Elevation (feet):
 1,660

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

HOLLAND, R.F. - FIELD MAPS OF LOS ANGELES RIPARIAN COMMUNITIES (SEE ALSO HOL88U0001). QUAD #3411727, 3411728,

3411438, 3411748, 3411821, 3411831, 3411841, 3411855, 3411864, 3411865, 3411866) 1988-04-XX



California Department of Fish and Wildlife





Key Quad:Devore (3411724)Element Code:CTT32720CAOccurrence Number:17Occurrence Last Updated:1998-07-13

Scientific Name: Riversidian Alluvial Fan Sage Scrub Common Name: Riversidian Alluvial Fan Sage Scrub

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists:

State: S1.1

G1

General Habitat: Micro Habitat:

Last Date Observed: 1985-02-13 Occurrence Type: Natural/Native occurrence

Last Survey Date:1985-02-13Occurrence Rank:UnknownOwner/Manager:PVTTrend:Decreasing

Accuracy:

Presence: Presumed Extant

WEST OF RIALTO, EAST OF RIALTO MUNICIPAL AIRPORT.

Global:

Detailed Location:

MAPPED BY INTERPRETATION OF 1985 AERIAL PHOTOS.

Ecological:

Threats:OFF-ROAD VEHICLE DAMAGE.

PLSS: T01N, R05W, Sec. 34 (S)

CNDDB Element Ranks:

Location:

General:

NEEDS VERIFICATION OF VEGETATION CONDITION, COMPOSITION. SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

specific area

 UTM:
 Zone-11 N3776682 E464019
 Latitude/Longitude:
 34.13039 / -117.39021
 Elevation (feet):
 1,420

County Summary: Quad Summary:

San Bernardino Fontana (3411714), Devore (3411724)

Sources:

HOLLAND, R.F. - FIELD MAPS OF LOS ANGELES RIPARIAN COMMUNITIES (SEE ALSO HOL88U0001). QUAD #3411727, 3411728,

3411438, 3411748, 3411821, 3411831, 3411841, 3411855, 3411864, 3411865, 3411866) 1988-04-XX

Area (acres):

106



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife



Map Index Number: 03233 EO Index: 16032

Key Quad:Devore (3411724)Element Code:CTT61300CAOccurrence Number:17Occurrence Last Updated:1998-07-23

Scientific Name: Southern Riparian Forest Common Name: Southern Riparian Forest

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists:

State: S4

G4

General Habitat: Micro Habitat:

Last Date Observed: 1980-XX-XX Occurrence Type: Natural/Native occurrence

Last Survey Date:1980-XX-XXOccurrence Rank:UnknownOwner/Manager:PVTTrend:Unknown

Presence: Presumed Extant

TRIBUTARY TO CAJON CANYON, ORIGINATING FROM DEVORE HEIGHTS.

Global:

Detailed Location:

BOUNDARY REPRESENTS EXTENT AS INTERPRETED FROM 1980 AERIAL PHOTOS.

Ecological:

UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats: General:

Location:

NEEDS FIELD VERIFICATION OF VEGETATION CONDITION, COMPOSITION. SEE

 $WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP\ TO\ INTERPRET\ AND\ ADDRESS\ THE\ PRESENCE\ OF\ RARE\ COMMUNITIES.$

 PLSS:
 T02N, R05W, Sec. 29 (S)
 Accuracy:
 specific area
 Area (acres):
 24

 UTM:
 Zone-11 N3788340 E461440
 Latitude/Longitude:
 34.23543 / -117.41870
 Elevation (feet):
 2,360

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources: HOL88M0001

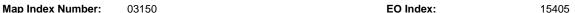
HOLLAND, R.F. - FIELD MAPS OF LOS ANGELES RIPARIAN COMMUNITIES (SEE ALSO HOL88U0001). QUAD #3411727, 3411728,

3411438, 3411748, 3411821, 3411831, 3411841, 3411855, 3411864, 3411865, 3411866) 1988-04-XX



California Department of Fish and Wildlife

California Natural Diversity Database



Key Quad: Devore (3411724) **Element Code:** CTT62400CA 1998-07-22 **Occurrence Number:** 158 Occurrence Last Updated:

Scientific Name: Southern Sycamore Alder Riparian Woodland Southern Sycamore Alder Riparian Woodland **Common Name:**

Rare Plant Rank: **Listing Status:** Federal: None

Other Lists: State: None

G4 S4 State:

General Habitat: Micro Habitat:

Global:

Last Date Observed: 1985-02-13 Occurrence Type: Natural/Native occurrence

Last Survey Date: 1985-02-13 Occurrence Rank: Unknown Owner/Manager: USFS-SAN BERNARDINO NF, PVT Trend: Unknown

Presence: Presumed Extant

Location:

SAN SEVAINE CANYON, NW OF RIALTO, SAN BERNARDINO NATIONAL FOREST.

Detailed Location:

CNDDB Element Ranks:

1978 EXTENT MAPPED FROM INTERPRETATION OF AERIAL PHOTOS; INCREASED EXTENT RELATIVE TO 1935.

Ecological:

CLOSED CANOPY QUERCUS CHRYSOLEPIS & ALNUS RHOMBIFOLIA U/S AND ALNUS & PLATANUS RACEMOSA D/S ACCORDING TO WIESLANDER SURVEY.

Threats:

General:

NEEDS FIELD VERIFICATION. SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T01N, R06W, Sec. 10 (S) 147 Accuracy: specific area Area (acres): Zone-11 N3782654 E454800 Latitude/Longitude: Elevation (feet): UTM: 34.18389 / -117.49050 2,500

County Summary: Quad Summary:

Devore (3411724) San Bernardino

Sources:

HOLLAND, R.F. - FIELD MAPS OF LOS ANGELES RIPARIAN COMMUNITIES (SEE ALSO HOL88U0001). QUAD #3411727, 3411728, HOL88M0001

3411438, 3411748, 3411821, 3411831, 3411841, 3411855, 3411864, 3411865, 3411866) 1988-04-XX

USF35M0001 U.S. FOREST SERVICE - VEGETATION MAP, SAN DIEGO COUNTY, WIESLANDER MAP. 1935-XX-XX



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife



Map Index Number: 03186 **EO Index:** 12467

Key Quad:Devore (3411724)Element Code:CTT62400CAOccurrence Number:159Occurrence Last Updated:1998-07-22

Scientific Name: Southern Sycamore Alder Riparian Woodland Common Name: Southern Sycamore Alder Riparian Woodland

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists:

State: S4

General Habitat: Micro Habitat:

G4

Last Date Observed: 1985-02-13 Occurrence Type: Natural/Native occurrence

Last Survey Date:1985-02-13Occurrence Rank:UnknownOwner/Manager:USFS-SAN BERNARDINO NF, PVTTrend:Unknown

Presence: Presumed Extant

Global:

Location:

MEYER CANYON & TRIBUTARY, FROM JUNCTION WITH LYTLE CREEK TO 2 MILES U/S.

Detailed Location:

1978 EXTENT MAPPED FROM INTERPRETATION OF AERIAL PHOTOS; MAY EXTEND FURTHER UP CANYON.

Ecological:

CLOSED CANOPY PLATANUS RACEMOSA ACCORDING TO WIESLANDER SURVEY.

Threats:

General:

NEEDS FIELD VERIFICATION. SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T02N, R05W, Sec. 31 (S) Accuracy: specific area Area (acres): 227

UTM: Zone-11 N3785736 E459282 Latitude/Longitude: 34.21187 / -117.44202 Elevation (feet): 2,300

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

HOLLAND, R.F. - FIELD MAPS OF LOS ANGELES RIPARIAN COMMUNITIES (SEE ALSO HOL88U0001). QUAD #3411727, 3411728,

3411438, 3411748, 3411821, 3411831, 3411841, 3411855, 3411864, 3411865, 3411866) 1988-04-XX

USF35M0001 U.S. FOREST SERVICE - VEGETATION MAP, SAN DIEGO COUNTY, WIESLANDER MAP. 1935-XX-XX



CNDDB Element Ranks:

Location:

Threats:

Sources:

Occurrence Report

California Department of Fish and Wildlife



03234 EO Index: 15404 Map Index Number:

Key Quad: Devore (3411724) **Element Code:** CTT62400CA **Occurrence Number:** Occurrence Last Updated: 1998-07-22 160

Scientific Name: Southern Sycamore Alder Riparian Woodland Southern Sycamore Alder Riparian Woodland Common Name:

Rare Plant Rank: **Listing Status:** Federal: None

Other Lists: State: None

State: S4

G4

General Habitat: Micro Habitat:

Last Date Observed: 1985-XX-XX Occurrence Type: Natural/Native occurrence

Last Survey Date: 1985-XX-XX Occurrence Rank: Unknown

Owner/Manager: USFS-SAN BERNARDINO NF Trend: Unknown

Presence: Presumed Extant

PORTION OF UNNAMED TRIBUTARY TO CAJON WASH, WEST OF DEVORE.

Detailed Location:

1978 EXTENT MAPPED FROM INTERPRETATION OF AERIAL PHOTOS.

Global:

Ecological:

UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

General:

NEEDS FIELD VERIFICATION. SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T02N, R05W, Sec. 32, SE (S) Area (acres): 26 Accuracy: specific area

UTM: Zone-11 N3785889 E461394 Latitude/Longitude: 34.21333 / -117.41910 Elevation (feet): 2,300

County Summary: Quad Summary: San Bernardino Devore (3411724)

HOL88M0001

HOLLAND, R.F. - FIELD MAPS OF LOS ANGELES RIPARIAN COMMUNITIES (SEE ALSO HOL88U0001). QUAD #3411727, 3411728,

3411438, 3411748, 3411821, 3411831, 3411841, 3411855, 3411864, 3411865, 3411866) 1988-04-XX



California Department of Fish and Wildlife





Key Quad:Devore (3411724)Element Code:CTT62400CAOccurrence Number:161Occurrence Last Updated:1998-07-22

Scientific Name: Southern Sycamore Alder Riparian Woodland Common Name: Southern Sycamore Alder Riparian Woodland

Listing Status: Federal: None Rare Plant Rank:

State: None Other Lists:

State: S4

G4

General Habitat: Micro Habitat:

Last Date Observed: 1980-XX-XX Occurrence Type: Natural/Native occurrence

Last Survey Date:1980-XX-XXOccurrence Rank:UnknownOwner/Manager:PVTTrend:Unknown

Presence: Presumed Extant

Location:

CNDDB Element Ranks:

UNNAMED TRIBUTARY TO CAJON WASH, NW OF DEVORE HEIGHTS.

Detailed Location:

MAPPED FROM INTERPRETATION OF 1980 AERIAL PHOTOS.

Global:

Ecological:

UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats: General:

.....

NEEDS FIELD VERIFICATION. SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

 PLSS:
 T02N, R05W, Sec. 20, SW (S)
 Accuracy:
 specific area
 Area (acres):
 26

 UTM:
 Zone-11 N3789195 E460892
 Latitude/Longitude:
 34.24313 / -117.42470
 Elevation (feet):
 2,650

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

HOL88M0001 HOLLAND, R.F. - FIELD MAPS OF LOS ANGELES RIPARIAN COMMUNITIES (SEE ALSO HOL88U0001). QUAD #3411727, 3411728,

3411438, 3411748, 3411821, 3411831, 3411841, 3411855, 3411864, 3411865, 3411866) 1988-04-XX



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife



EO Index: 99033

Key Quad: San Bernardino North (3411723) **Element Code:** IIHYM24480 **Occurrence Number:** Occurrence Last Updated: 2015-10-01

Scientific Name: Bombus crotchii Common Name: Crotch bumble bee

Federal: Rare Plant Rank: **Listing Status:** None

> Other Lists: State: Candidate Endangered

State: S1S2

G3G4

General Habitat: Micro Habitat:

COASTAL CALIFORNIA EAST TO THE SIERRA-CASCADE CREST AND FOOD PLANT GENERA INCLUDE ANTIRRHINUM, PHACELIA, CLARKIA,

SOUTH INTO MEXICO. DENDROMECON, ESCHSCHOLZIA, AND ERIOGONUM.

Last Date Observed: 1945-06-28 Occurrence Type: Natural/Native occurrence

Last Survey Date: 1945-06-28 Occurrence Rank: Unknown Unknown Owner/Manager: **UNKNOWN** Trend:

Presumed Extant Presence:

97669

Global:

Location: VERDEMONT.

Detailed Location:

EXACT LOCATION UNKNOWN. MAPPED BY CNDDB IN THE VICINITY OF THE COMMUNITY OF VERDEMONT, IN THE CITY OF SAN BERNARDINO.

Ecological:

Threats: General:

COLLECTED 28 JUN 1945.

PLSS: T01N, R05W, Sec. 11 (S) Accuracy: 1 mile Area (acres):

UTM: Zone-11 N3783624 E466133 Latitude/Longitude: 34.19307 / -117.36755 Elevation (feet): 1,800

County Summary: Quad Summary:

San Bernardino San Bernardino North (3411723), Devore (3411724)

Sources:

MELANDER, A. - UCRC ENT #289313 COLLECTED FROM VERDEMONT 1945-06-28 MEL45S0002



California Department of Fish and Wildlife



97676 EO Index: 99038 **Map Index Number:**

Key Quad: Devore (3411724) **Element Code:** IIHYM24480 **Occurrence Number:** Occurrence Last Updated: 2015-10-01

Scientific Name: Bombus crotchii Common Name: Crotch bumble bee

Federal: Rare Plant Rank: **Listing Status:** None

Other Lists: State: Candidate Endangered

State: S1S2

G3G4

Global:

Micro Habitat: **General Habitat:**

COASTAL CALIFORNIA EAST TO THE SIERRA-CASCADE CREST AND FOOD PLANT GENERA INCLUDE ANTIRRHINUM, PHACELIA, CLARKIA,

SOUTH INTO MEXICO. DENDROMECON, ESCHSCHOLZIA, AND ERIOGONUM.

Last Date Observed: 1953-05-08 Occurrence Type: Natural/Native occurrence

Last Survey Date: 1953-05-08 Occurrence Rank: Unknown Unknown Owner/Manager: **PVT** Trend:

Presumed Extant Presence:

Location:

3 MILES NORTH OF FONTANA.

Detailed Location:

CNDDB Element Ranks:

EXACT LOCATION UNKNOWN. MAPPED BY CNDDB ABOUT 3 ROAD MILES NORTH OF THE CENTER OF THE CITY OF FONTANA, WEST OF SAN

BERNARDINO.

Ecological:

Threats: General:

COLLECTED 8 MAY 1953.

PLSS: T01N, R05W, Sec. 29 (S) 1 mile Area (acres): 0 Accuracy:

Zone-11 N3778103 E459806 Latitude/Longitude: 34.14305 / -117.43597 Elevation (feet): 1,600

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

DEN53S0001 DENOBLE, R. - EMEC #554372 COLLECTED FROM 3 MI N OF FONTANA 1953-05-08



California Department of Fish and Wildlife





97669 Map Index Number:

San Bernardino North (3411723)

EO Index: 119066 **Element Code:** IIHYM81010

Occurrence Number: 6 Occurrence Last Updated:

2020-08-14

Scientific Name:

Neolarra alba

Common Name:

white cuckoo bee

Listing Status:

Key Quad:

Federal:

Rare Plant Rank:

State: None

None

Other Lists:

CNDDB Element Ranks:

Global: GH SH

General Habitat:

Micro Habitat:

KNOWN ONLY FROM LOCALITIES IN SOUTHERN CALIFORNIA.

State:

CLEPTOPARASITIC IN THE NESTS OF PERDITA BEES.

Last Date Observed:

1946-05-17

Occurrence Type:

Natural/Native occurrence

Last Survey Date: Owner/Manager:

1946-05-17

Occurrence Rank: Unknown

Presence:

UNKNOWN Presumed Extant Trend:

Unknown

Location:

VERDEMONT.

Detailed Location:

COLLECTION LOCALITY DESCRIBED ONLY AS VERDEMONT. MAPPED BY CNDDB IN THE VICINITY OF THE COMMUNITY OF VERDEMONT, IN THE CITY OF SAN BERNARDINO.

Ecological:

Threats:

DEVELOPMENT.

General:

5 FEMALES WERE COLLECTED BY P.H. TIMBERLAKE ON 17 MAY 1946. WHILE THERE HAS BEEN EXTENSIVE DEVELOPMENT IN THIS AREA SINCE THE TIME OF COLLECTION, AERIAL IMAGERY SUGGESTS SUITABLE HABITAT MAY STILL EXIST IN THE VICINITY.

PLSS: T01N, R05W, Sec. 11 (S)

Accuracy:

Area (acres):

Zone-11 N3783624 E466133 UTM:

Latitude/Longitude: 34.19307 / -117.36755 Elevation (feet): 1,800

County Summary: San Bernardino

Quad Summary:

San Bernardino North (3411723), Devore (3411724)

Sources:

SHA78A0001

SHANKS, S. - A REVISION OF THE CLEPTOPARASITIC BEE GENUS NEOLARRA (HYMENOPTERA: ANTHOPHORIDAE). THE WASMANN JOURNAL OF BIOLOGY 35(2): 212-246. 1978-XX-XX



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife



69399 EO Index: 70175 Map Index Number:

Key Quad: Devore (3411724) **Element Code:** PDAST50010 2016-08-17 **Occurrence Number:** 14 Occurrence Last Updated:

Scientific Name: Ambrosia monogyra Common Name: singlewhorl burrobrush

Rare Plant Rank: **Listing Status:** Federal: None

State: None Other Lists:

General Habitat: Micro Habitat:

G5

S2

CHAPARRAL, SONORAN DESERT SCRUB. SANDY SOILS. 5-475 M.

Last Date Observed: 1961-09-17 Occurrence Type: Natural/Native occurrence

Last Survey Date: 1961-09-17 Occurrence Rank: Unknown Owner/Manager: **UNKNOWN** Trend: Unknown

Presence: Presumed Extant

FONTANA POWER PLANT, NORTHWEST OF RIALTO, SAN BERNARDINO MOUNTAINS.

Detailed Location:

MAPPED IN VICINITY OF FONTANA POWER PLANT.

Ecological:

Global:

State:

COASTAL SAGE SCRUB, IN DISTURBED SOIL.

Threats: General:

Location:

COLLECTED NEAR POWER PLANT IN 1947 AND 1961. 1926 FEUDGE COLLECTION FROM "RIALTO, 1650 FT" AND 1933 WHEELER COLLECTION FROM "3 MI N OF RIALTO NEAR LYTLE CREEK, 1450 FT" ATTRIBUTED HERE. NEEDS FIELDWORK. INCLUDES FORMER OCC #15.

PLSS: T01N, R05W, Sec. 22 (S) 2/5 mile Area (acres): 280 Accuracy:

UTM: Zone-11 N3779414 E463378 Latitude/Longitude: 34.155 / -117.39729 Elevation (feet): 1,550

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

FEU26S0001 FEUDGE, J. - FEUDGE #1500 POM #129361 1926-10-28 RAV61S0003 RAVEN, P. - RAVEN #16677 RSA #151144, JEPS #30679, GH #414279 1961-09-17 ROO47S0012 ROOS, J. - ROOS #3608 UC #194270, UCR #18632 1947-05-11 ROO47S0013 ROOS, J. - ROOS #3747 RSA #44858, CLARK-A #1528-1960, #1528-5521, #1528-5522 1947-10-11 WHE33S0010 WHEELER, L. - WHEELER #2142 UCR #80206, RSA #93958, LA #203767, OBI #16030, POM #187458 1933-10-01 WHE33S0011 WHEELER, L. - WHEELER #2241 JEPS #4129, CAS #288227, DS #243642 & #300888, GH #414281, LA #203765, OBI #48590, UC

#574935 & #723803 1933-11-11



California Department of Fish and Wildlife



Map Index Number: 39255 **EO Index:** 34257

Key Quad:Devore (3411724)Element Code:PDBRA2G060Occurrence Number:23Occurrence Last Updated:1998-07-29

Scientific Name: Streptanthus bernardinus Common Name: Laguna Mountains jewelflower

Listing Status: Federal: None Rare Plant Rank: 4.3

State: None Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

Global: G3G4 Botanic Garden

General Habitat: Micro Habitat:

S3S4

State:

CHAPARRAL, LOWER MONTANE CONIFEROUS FOREST. CLAY OR DECOMPOSED GRANITE SOILS; SOMETIMES IN DISTURBED

AREAS SUCH AS STREAMSIDES OR ROADCUTS. 1440-2500 M.

Last Date Observed: 1991-06-27 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 1991-06-27

 Owner/Manager:
 USFS-SAN BERNARDINO NF

 Trend:
 Unknown

Presence: Presumed Extant

Location:

RADIO TOWER EAST OF SAN SEVANTE FLATS, WEST OF LYTLE CREEK, SAN GABRIEL MOUNTAINS.

Detailed Location:

CNDDB Element Ranks:

ALONG USFS ROAD 1N34D UP TO MICROWAVE TOWER. MAPPED WITHIN THE NE 1/4 SW 1/4 SECTION 34.

Ecological:

CHAPARRAL WITH ERIODICTYON TRICHOCALYX, CEANOTHUS LEUCODERMIS, RHAMNUS CALIFORNICA, QUERCUS CHRYSOLEPIS, AND Q. KELLOGGII. ON EXPOSED S AND E-FACING SLOPE ON SHALLOW, ROCKY SOILS.

Threats:

POTENTAL GRADING/CONSTRUCTION ALONG ROAD AND NEAR MICROWAVE TOWER.

General:

750 PLANTS OBSERVED IN 1991. PLANTS MOST NUMEROUS IN ARTIFICIAL OPENINGS IN CHAPARRAL CREATED BY ROAD CUT OR HEAVY MACHINERY.

 PLSS:
 T02N, R06W, Sec. 34, SW (S)
 Accuracy:
 80 meters
 Area (acres):
 0

 UTM:
 Zone-11 N3785962 E453903
 Latitude/Longitude:
 34.21368 / -117.50042
 Elevation (feet):
 5,400

County Summary: Quad Summary:

San Bernardino Devore (3411724), Cucamonga Peak (3411725)

Sources:

MIS91F0002 MISTRETTA, O. - FIELD SURVEY FORM FOR STREPTANTHUS BERNARDINUS 1991-06-27



California Department of Fish and Wildlife





Key Quad:Devore (3411724)Element Code:PDCAC0D053Occurrence Number:113Occurrence Last Updated:2018-05-07

Scientific Name: Opuntia basilaris var. brachyclada Common Name: short-joint beavertail

Listing Status: Federal: None Rare Plant Rank: 1B.2

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G5T3 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden

USFS_S-Sensitive

General Habitat: Micro Habitat:

S3

State:

CHAPARRAL, JOSHUA TREE WOODLAND, MOJAVEAN DESERT SCRUB, SANDY SOIL OR COARSE, GRANITIC LOAM. 425-2015 M.

PINYON AND JUNIPER WOODLAND.

Last Date Observed: 1995-07-XX Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 1995-07-XX

 Owner/Manager:
 UNKNOWN

 Trend:
 Unknown

Presence: Presumed Extant

Location:

JUST S OF SCOTLAND; NEAR THE CONFLUENCE OF THE MIDDLE FORK LYTLE CREEK WITH LYTLE CREEK, S OF THE TOWN OF LYTLE CREEK.

Detailed Location:

WEST SIDE OF LYTLE CREEK RD. MAPPED BY CNDDB ACCORDING TO 2008 USFS DIGITAL DATA, IN THE SE 1/4 OF THE SW 1/4 OF SECTION 22.

Ecological:

Threats:

General:

UNKNOWN NUMBER OF PLANTS OBSERVED IN 1995.

PLSS: T02N, R06W, Sec. 22, SW (S) **Accuracy:** 80 meters **Area (acres):** 0

UTM: Zone-11 N3788881 E454015 Latitude/Longitude: 34.24001 / -117.49935 Elevation (feet): 3,000

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

USF08D0001 U.S. FOREST SERVICE - SAN BERNARDINO NF - DIGITAL DATA FOR THREATENED, ENDANGERED, AND SENSITIVE PLANTS ON

THE SAN BERNARDINO NATIONAL FOREST 2008-XX-XX

U.S. FOREST SERVICE-SAN BERNARDINO NATIONAL FOREST - 2016 NRIS BOTANY DATA FOR THE SAN BERNARDINO

NATIONAL FOREST 2016-XX-XX



California Department of Fish and Wildlife



Micro Habitat:

Map Index Number: 68464 EO Index: 1255

Key Quad:San Bernardino South (3411713)Element Code:PDMAL0Q0C0Occurrence Number:2Occurrence Last Updated:2017-03-02

Scientific Name: Malacothamnus parishii Common Name: Parish's bush-mallow

Listing Status: Federal: None Rare Plant Rank: 1A

State: None Other Lists:

State: SX

GXQ

Global:

CHAPARRAL, COASTAL SAGE SCRUB. IN A WASH. 305-455 M.

Last Date Observed: 1895-07-20 Occurrence Type: Natural/Native occurrence

Last Survey Date:1895-07-20Occurrence Rank:NoneOwner/Manager:UNKNOWNTrend:Unknown

Presence: Possibly Extirpated

VICINITY OF SAN BERNARDINO.

CNDDB Element Ranks:

General Habitat:

Detailed Location:

EXACT LOCATION UNKNOWN, MAPPED BY CNDDB IN THE GENERAL VICINITY OF SAN BERNARDINO. ELEVATION RANGE GIVEN AS 1000-1500 FT

Ecological: Threats:

Location:

THE VICINITY OF SAN BERNARDINO HAS BEEN HEAVILY URBANIZED; POSSIBLY EXTIRPATED.

General:

TYPE LOCALITY. ONLY SOURCE OF INFORMATION FOR THIS SITE IS AN 1895 COLLECTION BY PARISH. THIS IS THE ONLY KNOWN OCCURRENCE FOR THIS TAXON.

 PLSS:
 T01S, R04W, Sec. 04 (S)
 Accuracy:
 5 miles
 Area (acres):
 0

 UTM:
 Zone-11 N3775328 E472422
 Latitude/Longitude:
 34.11843 / -117.29904
 Elevation (feet):
 1,250

County Summary: Quad Summary:

San Bernardino Redlands (3411712), San Bernardino South (3411713), Fontana (3411714), Harrison Mtn. (3411722),

San Bernardino North (3411723), Devore (3411724)

Sources:

PAR95S0002 PARISH, S. - PARISH #3804 CAS #52756, UC #18789, GH #420468 1895-07-20



California Department of Fish and Wildlife



Map Index Number: 03260 **EO Index:** 10155

Key Quad:Devore (3411724)Element Code:PDPGN040J2Occurrence Number:1Occurrence Last Updated:2014-03-11

Scientific Name: Chorizanthe parryi var. parryi Common Name: Parry's spineflower

Listing Status: Federal: None Rare Plant Rank: 1B.1

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G3T2 SB_CalBG/RSABG-California/Rancho Santa Ana

Botanic Garden USFS_S-Sensitive

General Habitat: Micro Habitat:

S2

COASTAL SCRUB, CHAPARRAL, CISMONTANE WOODLAND, VALLEY DRY SLOPES AND FLATS; SOMETIMES AT INTERFACE OF 2

AND FOOTHILL GRASSLAND. VEGETATION TYPES, SUCH AS CHAPARRAL AND OAK WOODLAND.

DRY, SANDY SOILS. 90-1220 M.

Last Date Observed: 2011-05-07 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2011-05-07

 Owner/Manager:
 PVT, UNKNOWN

 Trend:
 Unknown

Presence: Presumed Extant

Location:

CAJON WASH, SOUTH OF THE JUNCTION OF I-15 AND I-215, DEVORE.

State:

Detailed Location:

EAST OF CAJON CREEK BEHIND CDF FIRE STATION. 2 POLYGONS MAPPED ACCORDING TO 2010 KIPPER COORDINATES AND 2011 RIEFNER COORDINATES.

Ecological:

INTERMEDIATE TO MATURE RIVERSIDEAN ALLUVIAL SCRUB WITHIN SANDY SOILS AMONGST CAMISSONIA BISTORTA, OENOTHERA ELATA, CHORIZANTHE CORIACEA, AND ERIODICTYON TRICHOCALYX. SANDY FLOODPLAIN SOILS IN OPEN SCRUB.

Threats:

THIS SITE IS PROPOSED FOR DEVELOPMENT.

General:

APPROXIMATELY 20 PLANTS SEEN IN SOUTHEASTERN POLYGON IN 2010. PLANTS NOTED AS "WIDESPREAD AND COMMON" IN NORTHWESTERN POLYGON IN 2011. A 1979 KRANTZ COLLECTION AND A 2006 SALVATO COLLECTION ARE ALSO ATTRIBUTED HERE.

 PLSS:
 T02N, R05W, Sec. 33, NE (S)
 Accuracy:
 specific area
 Area (acres):
 10

 UTM:
 Zone-11 N3786502 E462774
 Latitude/Longitude:
 34.21891 / -117.40414
 Elevation (feet):
 2,100

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

KIP10F0001 KIPPER, J. (ULTRASYSTEMS) - FIELD SURVEY FORM FOR CHORIZANTHE PARRYI VAR. PARRYI 2010-04-27

KRA79S0052 KRANTZ, T. & G. KRANTZ - KRANTZ SN UCR #16931 1979-04-30

RIE11S0006 RIEFNER, R. - RIEFNER #11-45 CAS #1127632, CAS-BOT-BC #226911, RSA #790112, UCR #229280, SD #239848, ARIZ #412800,

SEINET #3828324 2011-05-07

SAL06S0001 SALVATO, T. & A. SANDERS - SALVATO #1476 UCR #188962 2006-05-23



California Department of Fish and Wildlife



42076 EO Index: 42076 Map Index Number:

PDPGN040J2 Key Quad: Devore (3411724) **Element Code:** 2008-10-20 **Occurrence Number:** Occurrence Last Updated:

Scientific Name: Chorizanthe parryi var. parryi Common Name: Parry's spineflower

Listing Status: Federal: None Rare Plant Rank:

> State: None Other Lists: BLM_S-Sensitive

SB_CalBG/RSABG-California/Rancho Santa Ana **CNDDB Element Ranks:** Global: G3T2

Botanic Garden USFS_S-Sensitive

General Habitat: Micro Habitat:

S2

COASTAL SCRUB, CHAPARRAL, CISMONTANE WOODLAND, VALLEY DRY SLOPES AND FLATS; SOMETIMES AT INTERFACE OF 2

State:

AND FOOTHILL GRASSLAND. VEGETATION TYPES, SUCH AS CHAPARRAL AND OAK WOODLAND. DRY, SANDY SOILS. 90-1220 M.

Last Date Observed: 1994-05-13 Occurrence Type: Natural/Native occurrence

Unknown **Last Survey Date:** 1994-05-13 Occurrence Rank: PVT Owner/Manager: Trend: Decreasing

Presence: Presumed Extant

Location:

CAJON WASH, ABOUT 0.45 MILE SSE OF KENDALL AVE AT JUNCTION WITH CAJON BLVD, EAST OF GLEN HELEN REGIONAL PARK.

Detailed Location:

MAPPED BY CNDDB AS 2 POLYGONS ACCORDING TO A 1994 MALLORY ET AL. MAP.

Ecological:

MATURE ALLUVIAL FAN SAGE SCRUB WITH ERIODICTYON TRICHOCALYX, LOTUS SCOPARIUS, TOXICODENDRON DIVERSILOBUM AND OTHER SHRUBS WITH LASTARRIAEA CORIACEA, BROMUS MADRITENSIS RUBENS, ERODIUM CICUTARIUM, CRYPTANTHA INTERMEDIA, AND PHACELIA.

Threats:

SAND GRAVEL MINING NEARBY. THE NW PORTION OF THE SITE APPEARS TO HAVE BEEN DEVELOPED BASED ON 2008 AERIAL IMAGERY.

General:

10,000+ PLANTS OBSERVED IN 1994.

PLSS: T01N, R05W, Sec. 02, SW (S) Accuracy: specific area Area (acres): 62 UTM: Zone-11 N3784062 E465084 Latitude/Longitude: 34.19698 / -117.37896 Elevation (feet): 1,400

County Summary: Quad Summary:

San Bernardino San Bernardino North (3411723), Devore (3411724)

Sources:

MALLORY, J. ET AL. - FIELD SURVEY FORM FOR CHORIZANTHE PARRYI VAR. PARRYI 1994-05-13 MAL94F0002

MAL94S0002 MALLORY, J. & I. ANDERSON - MALLORY #6409-05 RSA #572924 1994-05-13



California Department of Fish and Wildlife



Map Index Number: 47453 **EO Index:** 47453

Key Quad:Devore (3411724)Element Code:PDPGN040J2Occurrence Number:40Occurrence Last Updated:2018-10-25

Scientific Name: Chorizanthe parryi var. parryi Common Name: Parry's spineflower

Listing Status: Federal: None Rare Plant Rank: 1B.1

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G3T2 SB_CalBG/RSABG-California/Rancho Santa Ana

Botanic Garden USFS_S-Sensitive

General Habitat: Micro Habitat:

S2

State:

COASTAL SCRUB, CHAPARRAL, CISMONTANE WOODLAND, VALLEY DRY SLOPES AND FLATS; SOMETIMES AT INTERFACE OF 2

AND FOOTHILL GRASSLAND. VEGETATION TYPES, SUCH AS CHAPARRAL AND OAK WOODLAND.

DRY, SANDY SOILS. 90-1220 M.

Last Date Observed: 2012-05-17 Occurrence Type: Natural/Native occurrence

Last Survey Date: 2012-05-17 Occurrence Rank: Good

Owner/Manager: SBD FLOOD CONTROL, PVT Trend: Unknown

Presence: Presumed Extant

Location:

VICINITY OF LYTLE CREEK WASH, SIERRA AVE, AND RIVERSIDE AVE; NORTH OF FONTANA AND SOUTHEAST OF HIGHWAY 15.

Detailed Location:

SEVERAL POLYGONS MAPPED ACCORDING TO 2008 USFS DIGITAL DATA, 2010 O'FARRELL MAP, 2010 LEATHERMAN MAP, AND 2012 PARETI COORDINATES.

Ecological:

WIDELY SCATTERED PATCHES IN MATURE CHAPARRAL ON ALLUVIAL FLOODPLAIN. DOMINATED BY ADENOSTOMA FASCICULATUM WITH AMSINCKIA TESSELLATA, ARTEMISIA CALIFORNICA, AVENA BARBATA, BROMUS DIANDRUS, B. HORDEACEUS, B. RUBENS, B. TECTORUM, ETC.

Threats

LOTS OF TRASH AND HOUSING NEARBY IN 2005. UTILITY IMPROVEMENTS, COLLECTION, ORVS, NON-NATIVES, MOWING, AND FIRE.

General:

NE POLY: COMMON IN WIDELY SCATTERED PATCHES IN 1999, SEEN IN 2003-2007, & 2010. 2ND NE-MOST POLYGON: 5000+ PLANTS IN 2005. ~15,750 PLANTS IN MOST OF REMAINING POLYGONS IN 2010. 54 PLANTS IN 2 S-MOST POLYGONS IN 2012.

 PLSS:
 T01N, R05W, Sec. 17 (S)
 Accuracy:
 specific area
 Area (acres):
 112

 UTM:
 Zone-11 N3781277 E460111
 Latitude/Longitude:
 34.17169 / -117.43280
 Elevation (feet):
 1,800

County Summary: Quad Summary:

San Bernardino Devore (3411724)



California Department of Fish and Wildlife



California Natural Diversity Database

Sources:	
FRA05S0004	FRAGA, N. & L. GROSS - FRAGA #1539 UCR #165223, RSA #707461, CHSC #10700 2005-04-18
LEA10F0002	LEATHERMAN, S. (BONTERRA CONSULTING) - FIELD SURVEY FORM FOR CHORIZANTHE PARRYI VAR. PARRYI 2010-04-15
LEA10S0001	LEATHERMAN, S LEATHERMAN #2010-15 RSA #769559 2010-03-31
OFA04R0001	O'FARRELL, M.J. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2003. 2004-02-XX
OFA05R0001	O'FARRELL, M.J. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2004. 2005-01-XX
OFA06R0001	O'FARRELL, M.J. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2005. 2006-08-XX
OFA07R0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2006 2007-02-XX
OFA08R0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2007 2008-01-XX
OFA10U0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - EMAIL FROM M. O'FARRELL REGARDING SBKR TRAPPING AT LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, FROM 2003 TO 2007. 2010-02-03
OFA11R0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2010 2011-03-XX
PAR12F0012	PARETI, J. (BONTERRA CONSULTING) - FIELD SURVEY FORM FOR CHORIZANTHE PARRYI VAR. PARRYI 2012-05-17
RUD12S0002	RUDALEVIGE, A. & J. PARETI - RUDALEVIGE #002 UCR #275230 2012-04-19
USF08D0001	U.S. FOREST SERVICE - SAN BERNARDINO NF - DIGITAL DATA FOR THREATENED, ENDANGERED, AND SENSITIVE PLANTS ON THE SAN BERNARDINO NATIONAL FOREST 2008-XX-XX
WHI99F0007	WHITE, S FIELD SURVEY FORM FOR CHORIZANTHE PARRYI VAR. PARRYI 1999-05-26



California Department of Fish and Wildlife





Key Quad: Devore (3411724) **Element Code:** PDPGN040J2 **Occurrence Number:** Occurrence Last Updated: 2008-10-17

Scientific Name: Chorizanthe parryi var. parryi Common Name: Parry's spineflower

Listing Status: Federal: None Rare Plant Rank:

> State: None Other Lists: BLM_S-Sensitive

SB_CalBG/RSABG-California/Rancho Santa Ana **CNDDB Element Ranks:** Global: G3T2

Botanic Garden USFS_S-Sensitive

General Habitat: Micro Habitat:

COASTAL SCRUB, CHAPARRAL, CISMONTANE WOODLAND, VALLEY

S2

AND FOOTHILL GRASSLAND.

State:

DRY SLOPES AND FLATS; SOMETIMES AT INTERFACE OF 2 VEGETATION TYPES, SUCH AS CHAPARRAL AND OAK WOODLAND. DRY, SANDY SOILS. 90-1220 M.

Last Date Observed: 1999-05-26 Occurrence Type: Natural/Native occurrence

Last Survey Date: 1999-05-26 Occurrence Rank: Unknown Owner/Manager: **UNKNOWN** Trend: Unknown

Presence: Presumed Extant

Location:

LYTLE CREEK FLOOD PLAIN, CA. 0.6 MILE SSE OF VERDEMONT RANCH, 5 MILES SOUTH OF DEVORE.

Detailed Location:

MAPPED BY CNDDB IN THE VICINITY OF THE SHERIFF ACADEMY (ACCORDING TO A 1998 PROVANCE & RICHMEIER COLLECTION) AND THE LEVEE AREA ON THE NE BANK OF LYTLE CREEK (ACCORDING TO A 1999 WHITE COLLECTION).

OPEN PLACES IN CHAPARRAL. ASSOCIATES INCLUDE PHACELIA CICUTARIA, CROTON CALIFORNICA, CALOCHORTUS SPLENDENS, PENSTEMON SPECTABILIS, GUTIERREZIA CALIFORNICA, SOLANUM XANTI, HELIANTHEMUM SCOPARIUM, CHORIZANTHE STATICOIDES, AND C. CORIACEA.

Threats:

General:

SITE BASED ON A 1998 COLLECTION AND A 1999 COLLECTION; MENTIONED AS "LOCALLY COMMON IN 1 VERY SMALL SANDY WASH" IN 1998 & "COMMON (PATCHY)" IN 1999. NEEDS FIELDWORK.

PLSS: T01N, R05W, Sec. 15 (S) Accuracy: 2/5 mile Area (acres): 0 UTM: Zone-11 N3781858 E463581 Latitude/Longitude: Elevation (feet): 34.17706 / -117.39517 1,725

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

PROVANCE, M. & R. RICHMEIER - PROVANCE #604 RSA #653160, UCR #113490, CAS #999837, CAS-BOT-BC #252806 1998-06-03 PRO98S0006

WHITE, S. - WHITE #7426 RSA #653731 1999-05-26 WHI99S0004



California Department of Fish and Wildlife



Map Index Number: 72606 **EO Index:** 73496

Key Quad:Devore (3411724)Element Code:PDPGN040J2Occurrence Number:91Occurrence Last Updated:2008-10-20

Scientific Name: Chorizanthe parryi var. parryi Common Name: Parry's spineflower

Listing Status: Federal: None Rare Plant Rank: 1B.

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G3T2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden

USFS_S-Sensitive

DRY, SANDY SOILS. 90-1220 M.

VEGETATION TYPES, SUCH AS CHAPARRAL AND OAK WOODLAND.

General Habitat: Micro Habitat:

S2

COASTAL SCRUB, CHAPARRAL, CISMONTANE WOODLAND, VALLEY DRY SLOPES AND FLATS; SOMETIMES AT INTERFACE OF 2

AND FOOTHILL GRASSLAND.

State:

 Last Date Observed:
 2005-04-27

 Cocurrence Type:
 Natural/Native occurrence

 Last Survey Date:
 2005-04-27

 Occurrence Rank:
 Unknown

 Last Survey Date:
 2005-04-27

 Owner/Manager:
 UNKNOWN

 Trend:
 Unknown

Presence: Presumed Extant

Location:

JUST NORTH OF NEALEYS CORNER AT THE INTERSECTION OF GLEN HELEN PARKWAY AND LYTLE CREEK RD, SW OF DEVORE.

Detailed Location:

MAPPED ACCORDING TO DIGITAL DATA SUBMITTED BY FRAGA IN 2005.

Ecological:

DISTURBED ALLUVIAL BENCH WITH SCATTERED JUNIPERS. ASSOCIATED WITH ADENOSTOMA FASCICULATUM, AMBROSIA ACANTHICARA, ARTEMISIA CALIFORNICA, AVENA FATUA, BROMUS DIANDRUS, B. RUBENS, CALYSTEGIA MACROSTEGIA, CAMISSONIA BISORTA, C. HIRTELLA, ETC.

Threats:

LOTS OF TRASH DUMPING, ADJACENT TO ROAD AND WELL.

General:

UNKNOWN NUMBER SEEN IN 1994. APPROXIMATELY 500 GENETS SEEN IN 2005.

 PLSS:
 T01N, R05W, Sec. 07, NE (S)
 Accuracy:
 specific area
 Area (acres):
 15

 UTM:
 Zone-11 N3783168 E459769
 Latitude/Longitude:
 34.18872 / -117.43661
 Elevation (feet):
 1,800

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

BAL94S0001 BALLMER, G. - BALLMER SN UCR #90245, RSA #645622, SD #225063 1994-05-08

FRA05D0001 FRAGA, N. - DIGITAL DATA TO ACCOMPANY SOURCES FRA05U0002 & FRA05U0003 2005-08-25

FRA05S0005 FRAGA, N. & L. GROSS - FRAGA #1546 UCR #164917 2005-04-27 JON94S0002 JONES, C. & A. DICKENSON - JONES SN RSA #571019 1994-06-20



California Department of Fish and Wildlife

California Natural Diversity Database

Map Index Number: 91699 **EO Index:** 92773

Key Quad:Devore (3411724)Element Code:PDPGN040J2Occurrence Number:103Occurrence Last Updated:2014-02-27

Scientific Name: Chorizanthe parryi var. parryi Common Name: Parry's spineflower

Listing Status: Federal: None Rare Plant Rank: 1B.1

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G3T2 SB_CalBG/RSABG-California/Rancho Santa Ana

Botanic Garden USFS_S-Sensitive

General Habitat: Micro Habitat:

S2

State:

COASTAL SCRUB, CHAPARRAL, CISMONTANE WOODLAND, VALLEY DRY SLOPES AND FLATS; SOMETIMES AT INTERFACE OF 2

AND FOOTHILL GRASSLAND. VEGETATION TYPES, SUCH AS CHAPARRAL AND OAK WOODLAND.

DRY, SANDY SOILS. 90-1220 M.

Last Date Observed: 2012-05-17 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2012-05-17

 Owner/Manager:
 PVT-SCE

 Trend:
 Unknown

Presence: Presumed Extant

Location:

NORTH SIDE OF W CASMALIA ST, APPROXIMATELY 0.15 MILE EAST OF INTERSECTION WITH ALDER AVE, NORTH OF HWY 210.

Detailed Location:

MAPPED IN THE SW 1/4 OF THE SW 1/4 OF SECTION 28 ACCORDING TO A 2010 LEATHERMAN MAP.

Ecological:

ROCKY OR COBBLE TYPE SOILS. ASSOCIATED WITH CROTON CALIFORNICA, CAMISSONIA BISTORTA, ADENOSTOMA FASCICULATUM, LOTUS SCOPARIUS, STYLOCLINE GNAPHALOIDES, LASTARRIAEA CORIACEA, ERODIUM BOTRYS, BROMUS DIANDRUS, VULPIA MYUROS, ETC.

Threats:

UTILITY IMPROVEMENT PROJECTS, PLANT COLLECTION, ORV ACTIVITY, NON-NATIVES, MOWING OF VEGETATION FOR MAINTENANCE, FIRE.

General:

47 PLANTS OBSERVED IN 2010. 8 PLANTS OBSERVED IN 2012.

PLSS: T01N, R05W, Sec. 28, SW (S) Accuracy: specific area Area (acres): 1

UTM: Zone-11 N3777559 E461653 **Latitude/Longitude**: 34.13821 / -117.41591 **Elevation (feet)**: 1,520

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

LEA10F0002 LEATHERMAN, S. (BONTERRA CONSULTING) - FIELD SURVEY FORM FOR CHORIZANTHE PARRYI VAR. PARRYI 2010-04-15

PAR12F0012 PARETI, J. (BONTERRA CONSULTING) - FIELD SURVEY FORM FOR CHORIZANTHE PARRYI VAR. PARRYI 2012-05-17



California Department of Fish and Wildlife



91727 EO Index: 92806 Map Index Number:

Key Quad: Devore (3411724) **Element Code:** PDPGN040J2 2014-03-04 **Occurrence Number:** 125 Occurrence Last Updated:

Scientific Name: Chorizanthe parryi var. parryi Common Name: Parry's spineflower

Rare Plant Rank: **Listing Status:** Federal: None

> State: None Other Lists: BLM_S-Sensitive

SB_CalBG/RSABG-California/Rancho Santa Ana **CNDDB Element Ranks:** Global: G3T2

Botanic Garden USFS_S-Sensitive

DRY, SANDY SOILS. 90-1220 M.

VEGETATION TYPES, SUCH AS CHAPARRAL AND OAK WOODLAND.

General Habitat: Micro Habitat:

S2

COASTAL SCRUB, CHAPARRAL, CISMONTANE WOODLAND, VALLEY DRY SLOPES AND FLATS; SOMETIMES AT INTERFACE OF 2

AND FOOTHILL GRASSLAND.

State:

Last Date Observed: 2012-05-21 Occurrence Type:

Natural/Native occurrence

Occurrence Rank: **Last Survey Date:** 2012-05-21 Unknown Trend: Owner/Manager: **UNKNOWN** Unknown

Presence: Presumed Extant

Location:

ALLUVIAL FAN BELOW LYTLE CREEK, NORTHEAST OF RIVERSIDE AVE, SOUTHEAST OF I-15.

Detailed Location:

MAPPED IN THE NW 1/4 OF THE SE 1/4 OF SECTION 16 ACCORDING TO 2012 SANDERS COORDINATES.

Ecological:

IN OPEN SANDY PATCH. ALLUVIAL SLOPE, SANDY AND STONY, SCRUB WITH LOTUS SCOPARIUS, ERIOGONUM FASCICULATUM, PECTOCARYA LINEARIS, FESTUCA MYUROS, ERIODICTYON TRICHOCALYX, STIPA CORONATA, S. SPECIOSA, SALVIA COLUMBARIAE, S. MELLIFERA, ETC.

Threats:

PARTIALLY DISTURBED BY GRAVEL MINING.

General:

SITE IS BASED ON A 2012 COLLECTION BY SANDERS.

PLSS: T01N, R05W, Sec. 16, SE (S) Accuracy: 80 meters Area (acres): 0 Zone-11 N3781068 E462287 Latitude/Longitude: 34.16988 / -117.40918 UTM: Elevation (feet): 1,750

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

SANDERS, A. - SANDERS #40179 UCR #235069 2012-05-21 SAN12S0040



California Department of Fish and Wildlife



Map Index Number: 91729 **EO Index:** 92808

Key Quad:Devore (3411724)Element Code:PDPGN040J2Occurrence Number:126Occurrence Last Updated:2014-03-04

Scientific Name: Chorizanthe parryi var. parryi Common Name: Parry's spineflower

Listing Status: Federal: None Rare Plant Rank: 1B.1

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G3T2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden

USFS_S-Sensitive

VEGETATION TYPES, SUCH AS CHAPARRAL AND OAK WOODLAND.

General Habitat: Micro Habitat:

COASTAL SCRUB, CHAPARRAL, CISMONTANE WOODLAND, VALLEY DRY SLOPES AND FLATS; SOMETIMES AT INTERFACE OF 2

S2

AND FOOTHILL GRASSLAND.

State:

DRY, SANDY SOILS. 90-1220 M.

Last Date Observed:2012-05-22Occurrence Type:Natural/Native occurrence

 Last Survey Date:
 2012-05-22

 Owner/Manager:
 UNKNOWN

 Trend:
 Unknown

Presence: Presumed Extant

Location:

CAJON PASS AREA NEAR CONFLUENCE OF CAJON AND LYTLE CREEK WASHES, NORTH AND NORTHWEST OF EL RANCHO VERDE COUNTRY CLUB.

Detailed Location:

2 POLYGONS MAPPED BY CNDDB. EASTERN POLYGON IS SPECIFIC, BASED ON 2 SETS OF 2012 COORDINATES FROM SANDERS. WESTERN POLYGON IS NON-SPECIFIC, BASED ON A 2009 WOOD COLLECTION FROM "~0.5 MI E OF POWERHOUSE, SECTIONS 22 & 23."

Ecological:

DRY WASH, ALLUVIAL SLOPE, SANDY AND STONY SOIL IN OPEN SCRUB. ASSOCIATED WITH CERCOCARPUS BETULOIDES, YUCCA WHIPPLEI, LOTUS SCOPARIUS, ERIOGONUM FASCICULATUM, FESTUCA MYUROS, ERIODICTYON TRICHOCALYX, STIPA CORONATA, S. SPECIOSA, ETC.

Threats:

General:

WESTERN POLYGON BASED ON A 2009 WOOD COLLECTION, PLANTS NOTED AS "UNCOMMON." EASTERN POLYGON BASED ON 2012 SANDERS COLLECTIONS, PLANTS NOTED AS "SCATTERED."

 PLSS:
 T01N, R05W, Sec. 23, SW (S)
 Accuracy:
 non-specific area
 Area (acres):
 77

 UTM:
 Zone-11 N3779333 E464673
 Latitude/Longitude:
 34.15432 / -117.38322
 Elevation (feet):
 1,500

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

SAN12S0041 SANDERS, A. - SANDERS #40188 UCR #235061 2012-05-21 SAN12S0042 SANDERS, A. - SANDERS #40193 UCR #240059 2012-05-22 WOOD, J. & B. WOOD - WOOD #816 RSA #752416 2009-05-31



California Department of Fish and Wildlife



Map Index Number: 79243 **EO Index:** 56642

Key Quad:Devore (3411724)Element Code:PDPGN040Z1Occurrence Number:13Occurrence Last Updated:2010-06-30

Scientific Name: Chorizanthe xanti var. leucotheca Common Name: white-bracted spineflower

Listing Status: Federal: None Rare Plant Rank: 1B.2

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G4T3 SB_CalBG/RSABG-California/Rancho Santa Ana

Botanic Garden

SB_USDA-US Dept of Agriculture

USFS_S-Sensitive

General Habitat: Micro Habitat:

S3

MOJAVEAN DESERT SCRUB, PINYON AND JUNIPER WOODLAND, SANDY OR GRAVELLY PLACES. 365-1830 M.

COASTAL SCRUB (ALLUVIAL FANS).

State:

Last Date Observed: 1979-04-30 Occurrence Type: Natural/Native occurrence

Last Survey Date:1979-04-30Occurrence Rank:UnknownOwner/Manager:UNKNOWNTrend:Unknown

Presence: Presumed Extant

Location:

CAJON PASS, DEVORE, SOUTH OF JUNCTION OF FREEWAYS 15 AND 15E (NOW I-215), EAST OF CAJON CREEK, WEST OF CAJON BLVD.

Detailed Location:

BEHIND THE CDF FIRE STATION.

Ecological:

ASSOCIATED WITH CHORIZANTHE CORIACEA AND CHORIZANTHE PROCUMBENS, AMONGST OLD STAND OF CERCOCARPUS BETULOIDES, YUCCA WHIPPLEI, ETC. FREE OF ANNUAL GRASSES.

Threats:

General:

ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1979 COLLECTION BY KRANTZ.

PLSS: T02N, R05W, Sec. 33, NE (S) **Accuracy:** 1/5 mile **Area (acres):** 0

UTM: Zone-11 N3786552 E462624 **Latitude/Longitude**: 34.21935 / -117.40577 **Elevation (feet)**: 2,100

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

KRA79S0045 KRANTZ, T. - KRANTZ SN UCR #16932 1979-04-30

Commercial Version -- Dated April, 2 2021 -- Biogeographic Data Branch Report Printed on Thursday, April 08, 2021



California Department of Fish and Wildlife



Map Index Number: 79257 **EO Index:** 56643

Key Quad:Devore (3411724)Element Code:PDPGN040Z1Occurrence Number:14Occurrence Last Updated:2010-07-01

Scientific Name: Chorizanthe xanti var. leucotheca Common Name: white-bracted spineflower

Listing Status: Federal: None Rare Plant Rank: 1B.2

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G4T3 SB_CalBG/RSABG-California/Rancho Santa Ana

Botanic Garden

SB_USDA-US Dept of Agriculture

USFS_S-Sensitive

General Habitat: Micro Habitat:

MOJAVEAN DESERT SCRUB, PINYON AND JUNIPER WOODLAND, SANDY OR GRAVELLY PLACES. 365-1830 M.

S3

COASTAL SCRUB (ALLUVIAL FANS).

Last Date Observed: 2005-05-24 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2005-05-24
 Occurrence Rank:
 Unknown

 Owner/Manager:
 USFS-SAN BERNARDINO NF
 Trend:
 Unknown

Presence: Presumed Extant

Location:

LYTLE CREEK ROAD, ABOUT 0.4 MILE EAST OF LYTLE CREEK RANGER STATION, NW OF RIALTO.

Detailed Location:

APPROXIMATELY 200 FEET SOUTH OF THE ROAD.

State:

Ecological:

RAISED BENCH OF ALLUVIAL WASH. ALLUVIAL CHAPARRAL WITH AMBROSIA ACANTHICARPA, ARTEMISIA DOUGLASIANA, AVENA FATUA, BROMUS DIANDRUS, B. HORDEACEUS, CERCOCARPUS BETULOIDES, CHORIZANTHE STATICOIDES, DICENTRA CHRYSANTHA, ERIOGONUM FASCICULATUM.

Threats:

General:

MAIN SOURCE OF INFORMATION FOR OCCURRENCE IS 2005 COLLECTION BY FRAGA & MORGAN. 1920 PEIRSON COLLECTION FROM LYTLE CREEK AT 3500 FEET AND 1985 HENRICKSON COLLECTION FROM LYTLE CREEK WASH ABOUT 2-4 MILES NORTH OF I-15 ALSO ATTRIBUTED HERE

 PLSS:
 T02N, R06W, Sec. 26, NE (S)
 Accuracy:
 1/10 mile
 Area (acres):
 0

 UTM:
 Zone-11 N3787975 E456410
 Latitude/Longitude:
 34.23194 / -117.47329
 Elevation (feet):
 2,700

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

FRA05S0017 FRAGA, N. & T. MORGAN - FRAGA #1566 UCR #164838 2005-05-24

FRA05U0002 FRAGA, N. - 2004-2005 SURVEYS OF THREATENED, ENDANGERED, FOREST SENSITIVE, AND WATCHLIST PLANTS SPECIES

(TESPW) IN THE AREAS BURNED BY THE GRAND PRIX AND OLD FIRE OF 2003 2005-08-25

HENRICKSON, J. - HENRICKSON #20231 RSA #657008, UCR #153619 1985-05-11

PEI20S0009 PEIRSON, F. - PEIRSON #1772 RSA #65278, CAS #178403, CAS-BOT-BC #248058 1920-05-18



California Department of Fish and Wildlife



Map Index Number: B2224 EO Index: 114148

Key Quad:Devore (3411724)Element Code:PDPGN040Z1Occurrence Number:61Occurrence Last Updated:2019-02-05

Scientific Name: Chorizanthe xanti var. leucotheca Common Name: white-bracted spineflower

Listing Status: Federal: None Rare Plant Rank: 1B.2

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G4T3 SB_CalBG/RSABG-California/Rancho Santa Ana

Botanic Garden

Trend:

SB_USDA-US Dept of Agriculture

USFS_S-Sensitive

Unknown

General Habitat: Micro Habitat:

S3

MOJAVEAN DESERT SCRUB, PINYON AND JUNIPER WOODLAND, SANDY OR GRAVELLY PLACES. 365-1830 M.

COASTAL SCRUB (ALLUVIAL FANS).

Last Date Observed: 2010-05-25 Occurrence Type: Natural/Native occurrence

Last Survey Date:2010-05-25Occurrence Rank:Unknown

Owner/Manager: USFS-SAN BERNARDINO NF

State:

Presence: Presumed Extant

LYTLE CREEK, JUST SW OF HITCHING RANCH.

Detailed Location:

MAPPED ACCORDING TO VEGETATION SURVEY COORDINATES.

Ecological:

ASSOCIATED WITH ERIODICTYON TRICHOCALYX, LEPIDOSPARTUM SQUAMATUM, CHAENACTIS GLABRIUSCULA, ERIOGONUM FASCICULATUM, VULPIA MYUROS, BROMUS MADRITENSIS SSP. RUBENS, CAMISSONIA BISTORTA, YUCCA WHIPPLEI, AVENA BARBATA, CRYPTANTHA, ETC.

Threats: General:

Location:

LESS THAN 1% COVER OF CHORIZANTHE OBSERVED DURING 2010 VEGETATION SURVEYS.

UTM: Zone-11 N3787371 E456954 **Latitude/Longitude**: 34.22652 / -117.46737 **Elevation (feet)**: 2,560

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

VEG16U0001 VEGETATION CLASSIFICATION AND MAPPING PROGRAM (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - DATABASE OF

PLANT SPECIES OBSERVED DURING VEGETATION SURVEYS, 1984-2016 2016-XX-XX



California Department of Fish and Wildlife



Map Index Number: B2225 EO Index: 114149

Key Quad:Devore (3411724)Element Code:PDPGN040Z1Occurrence Number:62Occurrence Last Updated:2019-02-05

Scientific Name: Chorizanthe xanti var. leucotheca Common Name: white-bracted spineflower

Listing Status: Federal: None Rare Plant Rank: 1B.2

State: None Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: Global: G4T3 SB_CalBG/RSABG-California/Rancho Santa Ana

Botanic Garden

SB_USDA-US Dept of Agriculture

USFS_S-Sensitive

General Habitat: Micro Habitat:

S3

MOJAVEAN DESERT SCRUB, PINYON AND JUNIPER WOODLAND, SANDY OR GRAVELLY PLACES. 365-1830 M.

COASTAL SCRUB (ALLUVIAL FANS).

State:

Last Date Observed: 2010-05-18 Occurrence Type: Natural/Native occurrence

Last Survey Date:2010-05-18Occurrence Rank:UnknownOwner/Manager:USFS-SAN BERNARDINO NFTrend:Unknown

Presence: Presumed Extant

Location:

CAJON WASH; JUST SW OF CAJON BLVD NEAR LOCATION OF HIGH VOLTAGE POWERLINE CROSSING ROAD, KEENBROOK.

Detailed Location:

MAPPED ACCORDING TO 2010 WOOD COORDINATES; COORDINATES PRESUMABLY FROM COLLECTION LABEL. IN THE SE 1/4 OF THE NW 1/4 OF SECTION 19.

Ecological:

MATURE ALLUVIAL BENCH WITH CYLINDROPUNTIA PARRYI, SALVIA APIANA, CERCOCARPUS BETULOIDES, AND ADENOSTOMA FASCICULATUM.

Threats:

General:

ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 2010 WOOD COLLECTION; MENTIONED AS "UNCOMMON" IN 2010.

 PLSS:
 T02N, R05W, Sec. 19, NW (S)
 Accuracy:
 80 meters
 Area (acres):
 5

 UTM:
 Zone-11 N3789596 E458794
 Latitude/Longitude:
 34.24666 / -117.4475
 Elevation (feet):
 2,390

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

WOO10S0091 WOOD, J. - WOOD #1835 RSA #0014618 2010-05-18



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife



71693 EO Index: 21152 Map Index Number:

PDPGN0V010 Key Quad: Devore (3411724) **Element Code:** 3 **Occurrence Number:** Occurrence Last Updated: 2016-03-09

Scientific Name: Dodecahema leptoceras Common Name: slender-horned spineflower

Listing Status: Federal: Endangered Rare Plant Rank:

State: Endangered Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

Botanic Garden

General Habitat: Micro Habitat:

S1

CHAPARRAL, CISMONTANE WOODLAND, COASTAL SCRUB (ALLUVIAL FLOOD DEPOSITED TERRACES AND WASHES; ASSOCIATES INCLUDE FAN SAGE SCRUB). ENCELIA, DALEA, LEPIDOSPARTUM, ETC. SANDY SOILS. 200-765 M.

Last Date Observed: 1984-04-XX Occurrence Type: Natural/Native occurrence

2005-04-27 **Last Survey Date:** Occurrence Rank: None

PVT Owner/Manager: Trend: Decreasing

Presence: Possibly Extirpated

CAJON CREEK WASH, BEHIND FIRE STATION, AT DEVORE.

Global: State:

Detailed Location:

MAPPED ACCORDING TO A 1984 KRANTZ MAP AND A 1979 DERBY MAP, OTHER AREAS OF THIS WASH HAVE BEEN SEARCHED BUT NO D. LEPTOCERAS WAS FOUND (1979).

Ecological:

Location:

FOUND ON OLD WASH TERRACES. OCCURS WITH LARGE SPECIMENS OF CERCOCARPUS BETULOIDES, ERIODICTYON TRICHOCALYX, ARTEMISIA CALIFORNICA, YUCCA WHIPPLEI, CHORIZANTHE CORIACEA, C. LEPTOTHECA, & C. STATICOIDES.

SURROUNDING AREA DISTURBED BY FLOOD CONTROL. COTTONTAIL BROWSING, EXOTICS, CAMPGROUND EXPANSION, ORVS THREATEN AS WELL.

General:

Threats:

<100 PLANTS IN 1979 RESTRICTED TO <1 ACRE OF OCCUPIED HABITAT. <10,000 IN 1982. A POCKET OF <10 PLANTS FOUND ON W SIDE OF WASH IN 1984. NOT SEEN IN 1986-1988, POSSIBLY DUE TO DROUGHT. NO PLANTS IN 2005. APPROPRIATE HABITAT MAY STILL EXIST.

PLSS: T02N, R05W, Sec. 33, NE (S) 16 Accuracy: specific area Area (acres): UTM: Zone-11 N3786663 E462652 Latitude/Longitude: 34.22035 / -117.40547 Elevation (feet): 2,040

Quad Summary: County Summary:

San Bernardino Devore (3411724)



California Department of Fish and Wildlife



California Natural Diversity Database

Sources:	
BIO84R0001	BIO-TECH - REPORT: A REVIEW OF THE ENDANGERMENT STATUS OF DODECAHEMA LEPTOCERAS & ERIASTRUM DENSIFOLIUM SSP. SANCTORUM. 1984-05-15
COX83U0001	COX, R THE NATURE CONSERVANCY ELEMENT PRESERVATION PLAN. 1983-XX-XX
DER79U0001	DERBY, J LETTER FROM J. DERBY TO C. BELL REGARDING DEVORE SITE, WITH MAP. 1979-05-15
FRA05U0002	FRAGA, N 2004-2005 SURVEYS OF THREATENED, ENDANGERED, FOREST SENSITIVE, AND WATCHLIST PLANTS SPECIES (TESPW) IN THE AREAS BURNED BY THE GRAND PRIX AND OLD FIRE OF 2003 2005-08-25
KAY82F0001	KAY, B FIELD SURVEY FORM FOR DODECAHEMA LEPTOCERAS 1982-05-04
KRA79S0018	KRANTZ, T KRANTZ SN UCR #24614 1979-04-30
KRA79U0010	KRANTZ, T STATUS REPORT FOR DODECAHEMA LEPTOCERAS 1979-05-06
KRA83U0005	KRANTZ, T RECORD OF PHONE CONVERSATION CONCERNING SEVERAL SITES (OCCURRENCES 1, 2, 3, 6) 1983-10-24
KRA84R0001	KRANTZ, T REVIEW OF ENDANGERED STATUS FOR DODECAHEMA LEPTOCERAS & ERIASTRUM DENSIFOLIUM SANCTORUM. 1984-05-15
KRA88F0001	KRANTZ, T FIELD SURVEY FORM FOR DODECAHEMA LEPTOCERAS 1988-05-02
NEE89U0001	NEEL, M MEETING NOTES FROM 5/3/89 MEETING REGARDING DODECAHEMA LEPTOCERAS. 1989-06-20



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife



10171 EO Index:

Key Quad: Devore (3411724) **Element Code:** PDPGN0V010 **Occurrence Number:** 18 Occurrence Last Updated: 2016-03-09

Scientific Name: Dodecahema leptoceras Common Name: slender-horned spineflower

Listing Status: Federal: Endangered Rare Plant Rank:

> State: Endangered Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

Botanic Garden

General Habitat: Micro Habitat:

S1

CHAPARRAL, CISMONTANE WOODLAND, COASTAL SCRUB (ALLUVIAL

FLOOD DEPOSITED TERRACES AND WASHES; ASSOCIATES INCLUDE FAN SAGE SCRUB). ENCELIA, DALEA, LEPIDOSPARTUM, ETC. SANDY SOILS. 200-765 M.

Last Date Observed: 1984-04-XX Occurrence Type: Natural/Native occurrence

Last Survey Date: 2005-04-27 Occurrence Rank: None Owner/Manager: SBD COUNTY Trend: Decreasing

Presence: Possibly Extirpated

03247

Global: State:

Location:

CAJON PASS; CAJON CANYON NEAR DEVORE, NORTH OF EXISTING GLEN HELEN CAMPGROUND AREA.

Detailed Location:

WEST SIDE OF WASH, SOUTH OF JUNCTION OF I-15 AND 1-15 EAST.

Ecological:

ON GRAVELLY BENCH AMONG CERCOCARPUS BETULOIDES AND YUCCA WHIPPLEI. SITE IS FREE OF ANNUAL GRASSES ASSOCIATED WITH CHORIZANTHE CORIACEA AND C. PROCUMBENS.

COMPETITION FROM INTRODUCED PLANTS AND ALTERATION OF THE NATURAL WATER FLOWS ARE THREATENING.

General:

10 PLANTS SEEN IN 1984. BY THE 1987 NEEL REPORT THIS OCCURRENCE MAY HAVE DISAPPEARED; IT HAD BEEN DECLINING FOR SEVERAL YEARS. NO PLANTS SEEN IN 2005.

PLSS: T02N, R05W, Sec. 33 (S) Accuracy: 80 meters Area (acres): O

UTM: Zone-11 N3786133 E462279 Latitude/Longitude: 34.21556 / -117.40949 Elevation (feet): 2,040

Quad Summary: County Summary:

San Bernardino Devore (3411724)

Sources:

FRA05U0002 FRAGA, N. - 2004-2005 SURVEYS OF THREATENED, ENDANGERED, FOREST SENSITIVE, AND WATCHLIST PLANTS SPECIES

(TESPW) IN THE AREAS BURNED BY THE GRAND PRIX AND OLD FIRE OF 2003 2005-08-25

KRA84R0001 KRANTZ, T. - REVIEW OF ENDANGERED STATUS FOR DODECAHEMA LEPTOCERAS & ERIASTRUM DENSIFOLIUM SANCTORUM.

1984-05-15

NEE87R0001 NEEL, M. - REPORT: SURVEYS FOR ERIASTRUM DENSIFOLIUM SSP. SANCTORUM & CENTROSTEGIA (DODECAHEMA)

LEPTOCERAS ON THE SAN BERNARDINO NF. 1987-09-30



California Department of Fish and Wildlife





Key Quad:Devore (3411724)Element Code:PDPGN0V010Occurrence Number:35Occurrence Last Updated:2008-07-15

Scientific Name: Dodecahema leptoceras Common Name: slender-horned spineflower

Listing Status: Federal: Endangered Rare Plant Rank: 1B.1

State: Endangered Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

Botanic Garden

General Habitat: Micro Habitat:

S1

CHAPARRAL, CISMONTANE WOODLAND, COASTAL SCRUB (ALLUVIAL FLOOD DEPOSITED TERRACES AND WASHES; ASSOCIATES INCLUDE

FAN SAGE SCRUB). ENCELIA, DALEA, LEPIDOSPARTUM, ETC. SANDY SOILS. 200-765 M.

Last Date Observed: 1994-06-20 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2005-04-27
 Occurrence Rank:
 Unknown

 Owner/Manager:
 FLOOD CONTROL DISTRICT
 Trend:
 Decreasing

Presence: Presumed Extant

Global: State

Location:

LYTLE CREEK, 0.25 MILE EAST OF NEALEYS CORNER, SAN BERNARDINO MOUNTAINS REGION.

Detailed Location:

CNDDB Element Ranks:

MAPPED ACCORDING TO THE DIRECTIONS ON A 1994 JONES & DICKERSON COLLECTION APPROX 300 FT N OF DEVORE RD AND 150 FT E OF WELL.

Ecological:

ON ALLUVIAL BENCH FAN SCRUB, THROUGHOUT LYTLE CREEK; ASSOC WITH JUNIPERUS CALIFORNICA, ERIOGONUM FASCICULATUM, ERIODICTYON TRICHOCALYX, CHORIZANTHE STATICOIDES, LASTARRIAEA CORIACEA, SALVIA COLUMBARIAE, SCHISMUS BARBATUS.

Threats:

General:

2 SMALL POPS OF <100 PLANTS IN 1993. 92 PLANTS IN A 10 X 20 FT AREA NEAR JUNIPER REPORTED IN 1994; TWO OTHER POPS ARE LOCATED NEARBY (EXACT LOCATION OF THESE POPS UNK TO CNDDB). NO PLANTS SEEN IN 2005 (POSS DUE TO HEAVY RAINFALL IN 2004).

PLSS: T01N, R05W, Sec. 07 (S) **Accuracy:** 80 meters **Area (acres):** 0

UTM: Zone-11 N3783211 E459765 Latitude/Longitude: 34.18911 / -117.43664 Elevation (feet): 2,100

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

FRA05U0002 FRAGA, N. - 2004-2005 SURVEYS OF THREATENED, ENDANGERED, FOREST SENSITIVE, AND WATCHLIST PLANTS SPECIES

(TESPW) IN THE AREAS BURNED BY THE GRAND PRIX AND OLD FIRE OF 2003 2005-08-25

JON94S0001 JONES, C. & A. DICKERSON - JONES SN RSA #571020 1994-06-20

MOR93U0004 MOREY, S. - RECOVERY WORKSHOP SUMMARY. 1993-12-20



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife



EO Index: 72596

Key Quad: Devore (3411724) **Element Code:** PDPGN0V010 **Occurrence Number:** 39 Occurrence Last Updated: 2016-03-11

Scientific Name: Dodecahema leptoceras Common Name: slender-horned spineflower

Listing Status: Federal: Endangered Rare Plant Rank:

> State: Endangered Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

Botanic Garden

General Habitat: Micro Habitat:

CHAPARRAL, CISMONTANE WOODLAND, COASTAL SCRUB (ALLUVIAL FLOOD DEPOSITED TERRACES AND WASHES; ASSOCIATES INCLUDE ENCELIA, DALEA, LEPIDOSPARTUM, ETC. SANDY SOILS. 200-765 M.

USFS-SAN BERNARDINO NF

S1

FAN SAGE SCRUB).

Global: State:

Last Date Observed: 2013-04-26 Occurrence Type: Natural/Native occurrence

Last Survey Date: 2013-04-26 Occurrence Rank: Unknown

Presence: Presumed Extant

71698

Location:

CAJON CANYON, JUST NORTH OF RUDDELL HILL.

Detailed Location:

MAPPED AS 2 POLYGONS ACCORDING TO 2005 FRAGA DIGITAL DATA AND 2013 KEELAN COORDINATES.

Ecological:

Owner/Manager:

OLD ALLUVIAL BENCH WITH LARGE CERCOCARPUS BETULOIDES. ASSOCIATES INCL PRUNUS ILICIFOLIA, OPUNTIA PARRYI, SALVIA APIANA, S. COLUMBARIAE, ERIOGONUM FASCICULATUM, E. GRACILE, ERIODICTYON TRICHOCALYX, PHACELIA DISTANS, LOTUS SCOPARIUS, ETC.

Trend:

Unknown

HEAVY AVENA INFESTATION, ADJACENT TO RR TRACKS AND CAJON BLVD.

General:

5000 PLANTS IN 2005. "LOCALLY COMMON" IN 2010. UNKNOWN NUMBER IN 2013. A 1950 ROOS COLLECTION FROM "CAJON CYN, 1 MILE BELOW 'BLUE CUT'" IS ALSO ATTRIBUTED TO THIS SITE.

PLSS: T02N, R05W, Sec. 19, NW (S) Accuracy: specific area Area (acres): 5

UTM: Zone-11 N3789592 E458784 Latitude/Longitude: 34.24662 / -117.44761 Elevation (feet): 2,400

Quad Summary: County Summary:

San Bernardino Devore (3411724)

Sources:

FRA05D0001 FRAGA, N. - DIGITAL DATA TO ACCOMPANY SOURCES FRA05U0002 & FRA05U0003 2005-08-25

FRA05S0033 FRAGA, N. & L. GROSS - FRAGA #1580 UCR #164835 2005-06-02

FWS07D0001 U.S. FISH AND WILDLIFE SERVICE-CARLSBAD - USFWS CARLSBAD SPECIAL STATUS SPECIES DATABASE, AUGUST 2007

VERSION 2007-08-09

GRO05S0004 GROSS, L. - GROSS #2259 RSA #705985 2005-05-12

KEELAN, B. - EXPORT OF DATA FROM BRIAN KEELAN'S PLANT DATABASE 2013-07-26 KEE13U0001

ROOS, J.C. - ROOS #4822 UCR #24251, RSA #52806 & #659185, CAS #909698, CAS-BOT-BC #412638, CLARK-A #1528-3601, UCSB RO050S0011

#38055 1950-06-03

WOO10S0077 WOOD, J. - WOOD #1836 RSA #768433 2010-05-18



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife





Key Quad:San Bernardino North (3411723)Element Code:PDPLM03035Occurrence Number:4Occurrence Last Updated:2019-02-04

Scientific Name: Eriastrum densifolium ssp. sanctorum Common Name: Santa Ana River woollystar

Listing Status: Federal: Endangered Rare Plant Rank: 1B.1

State: Endangered Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

G4T1 Botanic Garden

General Habitat: Micro Habitat:

S1

Global:

State:

COASTAL SCRUB, CHAPARRAL. IN SANDY SOILS ON RIVER FLOODPLAINS OR TERRACED FLUVIAL

DEPOSITS. 180-705 M.

Last Date Observed: 2017-05-04 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2017-05-04
 Occurrence Rank:
 Excellent

 Owner/Manager:
 SBD COUNTY FLOOD CONTROL DIST
 Trend:
 Unknown

Presence: Presumed Extant

Location:

CAJON WASH; UPSTREAM FROM CONFLUENCE WITH LYTLE CREEK AND SOUTH OF INSTITUTION ROAD.

Detailed Location:

MAPPED ACCORDING TO A 2008 WHITE & WOOD MAP. FRAGA DID NOT SEE ANY PLANTS IN GENERAL VICINITY IN 2005; MAY HAVE BEEN SEARCHING IN VICINITY OF OLD EO #4 WHICH WAS MAPPED FURTHER TO EAST.

Ecological:

MOST ABUNDANT ON BENCHES SUBJECT TO RECENT FLOW; ALSO OCCURRED IN LOWER DENSITIES WITHIN SOME OF THE LARGER SCOURED CHANNELS AND OLDEST BENCHES WITH THE GREATEST VEGETATIVE COVER. ASSOCIATES INCLUDE LEPIDOSPARTUM SQUAMATUM, OPUNTIA, ETC.

Threats:

OHVS, WEEDS, MINING, AND PEDESTRIAN TRAFFIC ARE THREATS. THIS AREA CONTAINS KNOWN HYBRIDS.

General:

5,325 PLANTS SEEN IN 2008 BETWEEN EO #4 & EO #33; MAY BE CONTINUOUS WITH EO #33, NEEDS FIELDWORK. 11,880 PLANTS OBSERVED IN 2013; SITE BEING EVALUATED FOR MITIGATION BANK VALUE. 6790 PLANTS OBSERVED IN 2017.

 PLSS:
 T01N, R05W, Sec. 14 (S)
 Accuracy:
 specific area
 Area (acres):
 264

 UTM:
 Zone-11 N3780955 E465677
 Latitude/Longitude:
 34.16898 / -117.37239
 Elevation (feet):
 1,500

County Summary: Quad Summary:

San Bernardino North (3411723), Devore (3411724)

Sources:

BOY83U0001 BOYD, S. - PERSONAL COMMUNICATION ON BACK OF FIELD SURVEY FORM ABOUT AN HERBARIUM COLLECTION. 1983-XX-XX

DICUS, M. & J. DICUS - FIELD SURVEY FORM FOR ERIASTRUM DENSIFOLIUM SSP. SANCTORUM 2013-06-13

EVE52S0002 EVERETT, P. ET AL. - EVERETT #17265 RSA #78788 & #0119702 1952-07-01

FRA05U0002 FRAGA, N. - 2004-2005 SURVEYS OF THREATENED, ENDANGERED, FOREST SENSITIVE, AND WATCHLIST PLANTS SPECIES

(TESPW) IN THE AREAS BURNED BY THE GRAND PRIX AND OLD FIRE OF 2003 2005-08-25

LAN17F0010 LANCASTER, C. - FIELD SURVEY FORM FOR ERIASTRUM DENSIFOLIUM SSP. SANCTORUM 2017-05-04

LAN17F0011 LANCASTER, C. - FIELD SURVEY FORM FOR ERIASTRUM DENSIFOLIUM SSP. SANCTORUM 2017-05-04

WHI08F0007 WHITE, S. & J. WOOD (SCOTT WHITE BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR ERIASTRUM DENSIFOLIUM SSP.

SANCTORUM 2008-08-07

WOO08S0002 WOOD, J. & S. WHITE - WOOD #109 RSA #737447 2008-08-07



California Department of Fish and Wildlife



03273 EO Index: 18407 **Map Index Number:**

Devore (3411724) PDPLM03035 Key Quad: **Element Code: Occurrence Number:** 15 Occurrence Last Updated: 1992-01-10

Scientific Name: Eriastrum densifolium ssp. sanctorum Common Name: Santa Ana River woollystar

Listing Status: Federal: Endangered Rare Plant Rank:

> State: Endangered Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

Botanic Garden

General Habitat: Micro Habitat:

G4T1

S1

Global:

State:

COASTAL SCRUB, CHAPARRAL. IN SANDY SOILS ON RIVER FLOODPLAINS OR TERRACED FLUVIAL

DEPOSITS. 180-705 M.

Last Date Observed: XXXX-XX-XX Occurrence Type: Natural/Native occurrence

Last Survey Date: 1985-05-02 Occurrence Rank: None Owner/Manager: **UNKNOWN** Trend: Unknown

Extirpated Presence:

Location:

CNDDB Element Ranks:

VICINITY OF DEVORE.

Detailed Location:

Ecological:

Threats: General:

FEWER THAN 50 PLANTS SEEN 'RECENTLY', BUT POPULATION ENTIRELY DISKED ON 5/2/85.

PLSS: T02N, R05W, Sec. 34 (S) Accuracy: 2/5 mile Area (acres): 0

UTM: Zone-11 N3786703 E463479 Latitude/Longitude: 34.22075 / -117.39649 Elevation (feet): 2,000

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

KRA85R0001 KRANTZ, T. - RARE PLANT SURVEY - SANTA ANA RIVER WASH. BIO-TECH ENVIRONMENTAL PLANNING CONSULTANTS. 1985-04-

XX



California Department of Fish and Wildlife





Key Quad:Devore (3411724)Element Code:PDPLM03035Occurrence Number:33Occurrence Last Updated:2019-02-04

Scientific Name: Eriastrum densifolium ssp. sanctorum Common Name: Santa Ana River woollystar

Listing Status: Federal: Endangered Rare Plant Rank: 1B.1

State: Endangered Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

Botanic Garden

General Habitat: Micro Habitat:

G4T1

S1

Global:

State:

COASTAL SCRUB, CHAPARRAL. IN SANDY SOILS ON RIVER FLOODPLAINS OR TERRACED FLUVIAL

DEPOSITS. 180-705 M.

Last Date Observed: 2017-05-03 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2017-05-03
 Occurrence Rank:
 Excellent

 Owner/Manager:
 SBD COUNTY FLOOD CONTROL DIST
 Trend:
 Unknown

Presence: Presumed Extant

Location:

CNDDB Element Ranks:

CAJON WASH; UPSTREAM FROM CONFLUENCE WITH LYTLE CREEK AND MOSTLY NORTH OF INSTITUTION RD.

Detailed Location:

MAPPED BY CNDDB ACCORDING TO A 2008 WHITE & WOOD MAP (NORTH OF INSTITUTION ROAD) AND 2017 RAMIREZ COORDINATES (SOUTH OF INSTITUTION ROAD WITH CAJON WASH).

Ecological:

MOST ABUNDANT ON BENCHES SUBJECT TO RECENT FLOW; ALSO OCCURRED IN LOWER DENSITIES WITHIN SOME OF THE LARGER SCOURED CHANNELS AND OLDEST BENCHES WITH THE GREATEST VEGETATIVE COVER. ASSOCIATES INCLUDE LEPIDOSPARTUM SQUAMATUM, OPUNTIA, ETC.

Threats:

OHVS, WEEDS, MINING, AND PEDESTRIAN TRAFFIC THREATEN. KNOWN HYBRIDS OCCUR IN THE AREA.

General:

5,325 PLANTS SEEN IN 2008 BETWEEN EO #4 & 33. THIS OCCURRENCE MAY BE CONTINUOUS WITH EO #4; NEEDS FIELDWORK. 8,864 PLANTS OBSERVED IN 2013; SITE BEING EVALUATED FOR MITIGATION BANK VALUE. 2,410 PLANTS SEEN IN 2017.

 PLSS:
 T01N, R05W, Sec. 11 (S)
 Accuracy:
 specific area
 Area (acres):
 164

 UTM:
 Zone-11 N3782673 E465098
 Latitude/Longitude:
 34.18445 / -117.37876
 Elevation (feet):
 1,700

County Summary: Quad Summary:

San Bernardino North (3411723), Devore (3411724)

WOOD, J. & S. WHITE - WOOD #100 RSA #737039 2008-08-05

Sources:

WOO08S0001

DICUS, M. & J. DICUS - FIELD SURVEY FORM FOR ERIASTRUM DENSIFOLIUM SSP. SANCTORUM 2013-06-13

LAN17F0008 LANCASTER, C. - FIELD SURVEY FORM FOR ERIASTRUM DENSIFOLIUM SSP. SANCTORUM 2017-05-03

LAN17F0009 LANCASTER, C. - FIELD SURVEY FORM FOR ERIASTRUM DENSIFOLIUM SSP. SANCTORUM 2017-05-03

RAM17U0001 RAMIREZ, R. - OBSERVATION RECORD FOR ERIASTRUM DENSIFOLIUM SSP. SANCTORUM, CALFLORA ID: MG35448 2017-02-18

WHI08F0007 WHITE, S. & J. WOOD (SCOTT WHITE BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR ERIASTRUM DENSIFOLIUM SSP. SANCTORUM 2008-08-07

Commercial Version -- Dated April, 2 2021 -- Biogeographic Data Branch

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California Department of Fish and Wildlife



96407 EO Index: 97567 **Map Index Number:**

PDPLM03035 Key Quad: Devore (3411724) **Element Code: Occurrence Number:** 41 Occurrence Last Updated: 2015-06-18

Scientific Name: Eriastrum densifolium ssp. sanctorum Common Name: Santa Ana River woollystar

Listing Status: Federal: Endangered Rare Plant Rank:

> State: Endangered Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

Botanic Garden

General Habitat: Micro Habitat:

G4T1

S1

Global:

State:

COASTAL SCRUB, CHAPARRAL. IN SANDY SOILS ON RIVER FLOODPLAINS OR TERRACED FLUVIAL

DEPOSITS. 180-705 M.

Last Date Observed: 2014-01-21 Occurrence Type: Natural/Native occurrence

Last Survey Date: 2014-01-21 Occurrence Rank: Fair Owner/Manager: **PVT** Trend: Unknown

Presumed Extant Presence:

Location:

W SIDE OF LYTLE CRK NEAR WATER TANK N OF N SYCAMORE AVE, ABOUT 0.6 AIR MI WNW OF EL RANCH VERDE COUNTRY CLUB, N RIALTO.

Detailed Location:

CNDDB Element Ranks:

MAPPED BY CNDDB ACCORDING TO A 2014 BOSHART COORDINATES AND MAP, IN THE SE 1/4 OF THE SE 1/4 OF SECTION 22.

Ecological:

Threats:

OFF-ROAD VEHICLES.

General:

1 PLANT OBSERVED IN 2013 AND 2014.

PLSS: T01N, R05W, Sec. 22, SE (S) Accuracy: 80 meters Area (acres): 0 Zone-11 N3779201 E464463 UTM:

Latitude/Longitude: Elevation (feet): 34.15312 / -117.38549 1,480

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

BOSHART, L. - FIELD SURVEY FORM FOR ERIASTRUM DENSIFOLIUM SSP. SANCTORUM 2014-01-21 BOS14F0001



California Department of Fish and Wildlife



Map Index Number: 54941 **EO Index:** 54941

Key Quad:Cucamonga Peak (3411725)Element Code:PDROS0W045Occurrence Number:19Occurrence Last Updated:2016-01-19

Scientific Name: Horkelia cuneata var. puberula Common Name: mesa horkelia

Listing Status: Federal: None Rare Plant Rank: 1B.1

State: None Other Lists: USFS_S-Sensitive

CNDDB Element Ranks: Global: G4T1

State: S1

General Habitat: Micro Habitat:

CHAPARRAL, CISMONTANE WOODLAND, COASTAL SCRUB. SANDY OR GRAVELLY SITES. 15-1645 M.

Last Date Observed: 1995-05-10 Occurrence Type: Natural/Native occurrence

Last Survey Date:1995-05-10Occurrence Rank:UnknownOwner/Manager:UNKNOWNTrend:Decreasing

Presence: Presumed Extant

Location:

HIGHLAND AVE 0.5 MILE WEST OF I-15, SAN BERNARDINO VALLEY.

Detailed Location:

MAPPED AS BEST GUESS BY CNDDB, AT HIGHLAND AVE 0.5 MILE WEST OF INTERSTATE 15, IN THE VICINITY OF EAST ETIWANDA CREEK. NEAR THE COMMON CORNER OF SECTIONS 27, 28, 33, & 34.

Ecological:

IN REMNANT ALLUVIAL SCRUB/CHAPARRAL.

Threats:

DEVELOPMENT, HIGHWAY CONSTRUCTION. HALF OF SITE WAS BULLDOZED IN 1995 3 DAYS AFTER COLLECTION WAS MADE.

General:

"UNCOMMON" IN 1995. PER S. WHITE COMMUNICATION TO D. TIBOR (2001), THIS SITE IS NEAR THE NEW 210 FREEWAY, NOW UNDER CONSTRUCTION, AND THE CITY OF RANCHO CUCAMONGA IS DEVELOPING LAND ON THE ALLUVIAL FAN IN THE AREA.

 PLSS:
 T01N, R06W, Sec. 28 (S)
 Accuracy:
 2/5 mile
 Area (acres):
 280

 UTM:
 Zone-11 N3777355 E453331
 Latitude/Longitude:
 34.13603 / -117.50617
 Elevation (feet):
 1,400

County Summary: Quad Summary:

San Bernardino Devore (3411724), Cucamonga Peak (3411725)

Sources:

BAL95S0001 BALLMER, G. & K. STOCKWELL - BALLMER SN RSA #643561, UCR #86708 (ALSO CITED IN WHI01U0002) 1995-05-07

STO95S0004 STOCKWELL, K. - STOCKWELL SN HSC #93440, RSA #581925 & #643562, SD #233931, UCR #86707 (ALSO CITED IN WHI01U0002)

1995-05-10

WHI01U0002 WHITE, S. - LETTER TO D. TIBOR REGARDING COLLECTION AND LOCATION INFORMATION ON HORKELIA CUNEATA SSP.

PUBERULA. 2001-08-30



California Department of Fish and Wildlife



Micro Habitat:



Key Quad:San Bernardino North (3411723)Element Code:PDSOL0G0D0Occurrence Number:4Occurrence Last Updated:2012-02-08

Scientific Name: Lycium parishii Common Name: Parish's desert-thorn

Listing Status: Federal: None Rare Plant Rank: 2B.3

State: None Other Lists:

State: S1

COASTAL SCRUB, SONORAN DESERT SCRUB. -3-570 M.

G4

Global:

Last Date Observed: 1885-04-XX Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 1885-04-XX
 Occurrence Rank:
 None

 Owner/Manager:
 UNKNOWN
 Trend:
 Unknown

Presence: Extirpated

CNDDB Element Ranks:

General Habitat:

Location:

MESAS NORTH OF SAN BERNARDINO.

Detailed Location:

EXACT LOCATION NOT KNOWN. MAPPED IN THE GENERAL VICINITY OF THE BENCHES AND FOOTHILLS NORTH OF SAN BERNARDINO.

Ecological:

Threats:

General:

OCCURRENCE KNOWN FROM 1881 AND 1885 COLLECTIONS BY PARISH & PARISH. SANDERS REPORTS THAT THE SAN BERNARDINO POPULATIONS OF LYCIUM PARISHII ARE ALMOST CERTAINLY EXTIRPATED (1993).

PLSS: T01N, R04W, Sec. 07 (S) Accuracy: 5 miles Area (acres): 0

UTM: Zone-11 N3782133 E468094 **Latitude/Longitude**: 34.17968 / -117.34622 **Elevation (feet)**:

County Summary: Quad Summary:

San Bernardino South (3411713), Fontana (3411714), San Bernardino North (3411723), Devore

(3411724), Silverwood Lake (3411733)

Sources:

PAR81S0022 PARISH, S. & W. PARISH - PARISH #795 NY #138742, GH #77152, A #77153 1881-04-01 PAR85S0009 PARISH, S. - PARISH #795 CAS, UC #103854 & #192456, DS #120845 1885-XX-XX

SAN93U0004 SANDERS, A. - COMMENTS FOR CNPS INVENTORY 5 1993-10-XX



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife



76820 **EO Index**: 1247

Key Quad:Devore (3411724)Element Code:PMLIL0D150Occurrence Number:20Occurrence Last Updated:2009-10-01

Scientific Name: Calochortus plummerae Common Name: Plummer's mariposa-lily

Listing Status: Federal: None Rare Plant Rank: 4.2

State: None Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

Global: G4 Botanic Garden

State: S4

General Habitat: Micro Habitat:

COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. OCCURS ON ROCKY AND SANDY SITES, USUALLY OF GRANITIC OR ALLUVIAL MATERIAL. CAN BE VERY COMMON AFTER FIRE. 60-2500 M.

Last Date Observed: 2009-05-30 Occurrence Type: Natural/Native occurrence

Last Survey Date:2009-05-30Occurrence Rank:UnknownOwner/Manager:UNKNOWNTrend:Unknown

Presence: Presumed Extant

Location:

ALONG LYTLE CREEK WASH, 0.4 AIR MILE NNW OF THE CLUBHOUSE AT EL RANCHO VERDE COUNTRY CLUB, RIALTO.

Detailed Location:

Ecological:

RIVERSIDIAN ALLUVIAL FAN SAGE SCRUB DOMINATED BY JUNIPERUS CALIFORNICA AND CERCOCARPUS BETULOIDES.

Threats:

THREATENED BY ORV ACTIVITY.

General:

UNKNOWN NUMBER OF PLANTS OBSERVED IN 2009.

PLSS: T01N, R05W, Sec. 23, SW (S) **Accuracy:** 1/10 mile **Area (acres):** 0

UTM: Zone-11 N3779478 E465065 **Latitude/Longitude:** 34.15564 / -117.37898 **Elevation (feet):** 1,480

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

ULR09F0002 ULRICH, B. (SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS) - FIELD SURVEY FORM FOR CAMPYLORHYNCUS

BRUNNEICAPILLUS, WITH CALOCHORTUS PLUMMERAE OBSERVED NEARBY 2009-05-30

WOG38S0003 WOGLUM, R. - WOGLUM #2171 RSA #377427 1938-06-21



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife



EO Index: 1249

Key Quad:Devore (3411724)Element Code:PMLIL0D150Occurrence Number:21Occurrence Last Updated:2009-10-13

Scientific Name: Calochortus plummerae Common Name: Plummer's mariposa-lily

Listing Status: Federal: None Rare Plant Rank: 4.2

State: None Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

Global: G4 Botanic Garden

General Habitat: Micro Habitat:

S4

COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. OCCURS ON ROCKY AND SANDY SITES, USUALLY OF GRANITIC OR ALLUVIAL MATERIAL. CAN BE VERY COMMON AFTER FIRE. 60-2500 M.

Last Date Observed: 1990-05-24 Occurrence Type: Natural/Native occurrence

Last Survey Date:2004-06-30Occurrence Rank:UnknownOwner/Manager:UNKNOWNTrend:Unknown

Presence: Presumed Extant

CAJON WASH; 0.25 MILE NORTH OF INSTITUTION ROAD.

26659

State:

Detailed Location:

EXACT LOCATION SOMEWHAT UNCERTAIN. MAPPED BY CNDDB NON-SPECIFICALLY 1/4 MILE NNW OF INSTITUTION ROAD AS A STRIP WHICH PARALLELS THE ROAD; THIS IS QUITE ARTIFICAL; NEEDS FIELDWORK.

Ecological:

Location:

RIVERSIDIAN ALLUVIAL FAN SAGE SCRUB WITH CERCOCARPUS BETULOIDES, ERIOGONUM FASCICULATUM, OPUNTIA LITTORALIS, AND MANY WEEDY SPECIES.

Threats:

General:

ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1990 COLLECTION BY WHITE AND MONTIJO. NO PLANTS COULD BE RELOCATED IN A 2004 SURVEY.

 PLSS:
 T01N, R05W (S)
 Accuracy:
 non-specific area
 Area (acres):
 98

 UTM:
 Zone-11 N3782796 E465311
 Latitude/Longitude:
 34.18557 / -117.37645
 Elevation (feet):
 1,650

County Summary: Quad Summary:

San Bernardino San Bernardino North (3411723), Devore (3411724)

Sources:

FRA05U0002 FRAGA, N. - 2004-2005 SURVEYS OF THREATENED, ENDANGERED, FOREST SENSITIVE, AND WATCHLIST PLANTS SPECIES

(TESPW) IN THE AREAS BURNED BY THE GRAND PRIX AND OLD FIRE OF 2003 2005-08-25

SAN92U0005 SANDERS, A. - CALOCHORTUS PLUMMERAE LOCATIONS DOCUMENTED BY SPECIMENS IN THE UCR HERBARIUM 1992-06-XX

WHI90S0002 WHITE, S. & R. MONTIJO - WHITE SN UCR #62386 1990-05-24



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database

1246

Map Index Number: 26657 EO Index:

Key Quad:Devore (3411724)Element Code:PMLIL0D150Occurrence Number:22Occurrence Last Updated:1995-12-20

Scientific Name: Calochortus plummerae Common Name: Plummer's mariposa-lily

Listing Status: Federal: None Rare Plant Rank: 4.2

State: None Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

Global: G4 Botanic Garden

General Habitat: Micro Habitat:

S4

COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. OCCURS ON ROCKY AND SANDY SITES, USUALLY OF GRANITIC OR ALLUVIAL MATERIAL. CAN BE VERY COMMON AFTER FIRE. 60-2500 M.

Last Date Observed: 1971-07-07 Occurrence Type: Natural/Native occurrence

Last Survey Date: 1971-07-07 Occurrence Rank: Unknown

Owner/Manager: USFS-SAN BERNARDINO NF Trend: Unknown

Presence: Presumed Extant

GRAPEVINE SPRING, SAN GABRIEL MOUNTAINS.

Detailed Location:

Ecological:
Threats:

State:

General:ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1971 COLLECTION BY THORNE ET AL.

PLSS: T01N, R06W, Sec. 02, NW (S) **Accuracy**: 1/5 mile **Area (acres)**: 0

UTM: Zone-11 N3784550 E455765 **Latitude/Longitude:** 34.20103 / -117.48013 **Elevation (feet):** 4,300

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

Location:

THO71S0003 THORNE, R. ET AL. - THORNE #40872 RSA #225937 1971-07-07



California Department of Fish and Wildlife



Map Index Number: 26658 **EO Index:** 1245

Key Quad:Devore (3411724)Element Code:PMLIL0D150Occurrence Number:23Occurrence Last Updated:2009-12-03

Scientific Name: Calochortus plummerae Common Name: Plummer's mariposa-lily

Listing Status: Federal: None Rare Plant Rank: 4.2

State: None Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

Global: G4 Botanic Garden

General Habitat: Micro Habitat:

S4

State:

COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. OCCURS ON ROCKY AND SANDY SITES, USUALLY OF GRANITIC OR ALLUVIAL MATERIAL. CAN BE VERY COMMON AFTER FIRE. 60-2500 M.

Last Date Observed: 2004-06-30 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2004-06-30

 Owner/Manager:
 USFS-SAN BERNARDINO NF

 Trend:
 Unknown

Presence: Presumed Extant

ALONG BIG TREE TRUCK RD (USFS ROAD 1N34) AT SUMMIT OF RIDGELINE BETWEEN GRAPEVINE CANYON & DUNCAN CANYON, NW OF

RIALTO.

Detailed Location:

CNDDB Element Ranks:

Ecological:

Location:

ROCKY SLOPES IN CHAPARRAL BY ROADCUT. ASSOCIATES INCLUDE: MIMULUS AURANTIACUS, GALIUM ANGUSTIFOLIUM, SISYMBRIUM ALTISIMUM, AVENA BARBATA, ERIOGONUM FASCICULATUM, ERIOPHYLLUM CONFERTIFOLIUM, ETC. OPEN, ARID, ROCKY SITE.

Threats:

NEAR ROADCUT.

General:

177 PLANTS OBSERVED IN 2004.

PLSS: T01N, R06W, Sec. 12, NW (S) Accuracy: specific area Area (acres): 1

UTM: Zone-11 N3783538 E456947 **Latitude/Longitude:** 34.19195 / -117.46725 **Elevation (feet):** 3,700

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

FRA04F0006 FRAGA, N. ET AL. - FIELD SURVEY FORM FOR CALOCHORTUS PLUMMERAE 2004-06-30

FRA04S0004 FRAGA, N. ET AL. - FRAGA #1292 UCR #147599, RSA #701247 2004-06-30

THO71S0004 THORNE, R. ET AL. - THORNE #40866 RSA #225801 1971-07-07

USF08D0001 U.S. FOREST SERVICE - SAN BERNARDINO NF - DIGITAL DATA FOR THREATENED, ENDANGERED, AND SENSITIVE PLANTS ON

THE SAN BERNARDINO NATIONAL FOREST 2008-XX-XX



California Department of Fish and Wildlife



Map Index Number: 47932 **EO Index:** 47932

Key Quad:Devore (3411724)Element Code:PMLIL0D150Occurrence Number:62Occurrence Last Updated:2002-05-20

Scientific Name: Calochortus plummerae Common Name: Plummer's mariposa-lily

Listing Status: Federal: None Rare Plant Rank: 4.2

State: None Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

Global: G4 Botanic Garden

General Habitat: Micro Habitat:

S4

State:

COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. OCCURS ON ROCKY AND SANDY SITES, USUALLY OF GRANITIC OR ALLUVIAL MATERIAL. CAN BE VERY COMMON AFTER FIRE. 60-2500 M.

Last Date Observed: 2001-06-11 Occurrence Type: Natural/Native occurrence

Last Survey Date:2001-06-11Occurrence Rank:FairOwner/Manager:PVTTrend:Unknown

Presence: Presumed Extant

Location:

SOUTHWEST OF DEVORE, 1.1 AIR MILES JUST NNE OF JUNCTION HWY 30 AND I-15, NORTHEAST OF GILFILLAN AIRPORT, EAST OF RIALTO.

Detailed Location:

CNDDB Element Ranks:

ALONG DIRT ROADS EAST OF DIVERSION DIKE. TWO COLONIES MAPPED WITHIN THE NE 1/4 OF THE SE 1/4 OF SECTION 22.

Ecological:

IN RIVERSIDIAN SAGE SCRUB/ALLUVIAL SCRUB, ROCKY SUBSTRATE. FOUND WITH ARTEMISIA CALIFORNICA, SALVIA MELLIFERA, RHUS TRILOBATA, TOXICODENDRON DIVERSILOBUM, LOTUS SCOPARIUS, PRUNUS ILICIFOLIA, AND DELPHINIUM CARDINALIS.

Threats

SURROUNDING AREAS DEVELOPED. SITE IS TO BE ANNEXED BY COUNTY INTO "OPEN SPACE."

General:

5 PLANTS OBSERVED IN 2001.

 PLSS:
 T01N, R06W, Sec. 22, SE (S)
 Accuracy:
 specific area
 Area (acres):
 3

 UTM:
 Zone-11 N3779810 E454691
 Latitude/Longitude:
 34.15824 / -117.49154
 Elevation (feet):
 1,600

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

WOL01F0001 WOLF, A. - FIELD SURVEY FORM FOR CALOCHORTUS PLUMMERAE 2001-06-11



Occurrence Report

California Department of Fish and Wildlife



EO Index: 61044

Key Quad:Devore (3411724)Element Code:PMLIL0D150Occurrence Number:98Occurrence Last Updated:2009-11-17

Scientific Name: Calochortus plummerae Common Name: Plummer's mariposa-lily

Listing Status: Federal: None Rare Plant Rank: 4.2

State: None Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

CNDDB Element Ranks: Global: G4

State: S4

61008

General Habitat: Micro Habitat:

COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. OCCURS ON ROCKY AND SANDY SITES, USUALLY OF GRANITIC OR ALLUVIAL MATERIAL. CAN BE VERY COMMON AFTER FIRE. 60-2500 M.

Last Date Observed: 2004-XX-XX Occurrence Type: Natural/Native occurrence

Last Survey Date: 2004-XX-XX Occurrence Rank: Unknown
Owner/Manager: USES-SAN BERNARDINO NE Trend: Unknown

Owner/Manager: USFS-SAN BERNARDINO NF Trend:

Presence: Presumed Extant

EASTERN SLOPE OF SAN SEVAINE CANYON, NORTH OF THE NORTHERNMOST PORTION OF FOXBOROUGH DRIVE, FONTANA.

Detailed Location:

MAPPED IN THE SW 1/4 OF THE SW 1/4 SECTION 11.

Ecological:

Location:

COASTAL SAGE SCRUB WITH SALVIA MELLIFERA, SALVIA APIANA, ERIOGONUM FASCICULATUM, ARTEMISIA CALIFORNICA, ADENOSTOMA FASCICULATUM, BRASSICA GENICULATA, ETC.

Threats:

General:

MAPPED BASED ON USFS SHAPEFILE WHICH PROVIDES LOCATION, SPECIES, AND "OLD FIRE BAER, 1 YEAR OUT SURVEYS." 1993 COLLECTION FROM "2 MI NW OF LYTLE CREEK RD ON DIRT FRONTAGE ROAD, DUNN CANYON RD & LYTLE CREEK JUNCTION" ALSO ATTRIBUTED HERE.

 PLSS:
 T01N, R06W, Sec. 11, SW (S)
 Accuracy:
 80 meters
 Area (acres):
 0

 UTM:
 Zone-11 N3782197 E455120
 Latitude/Longitude:
 34.17978 / -117.48700
 Elevation (feet):
 2,400

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

SWI93S0001 SWINNEY, R. - SWINNEY #2259 UCR #92473 1993-06-18

USF08D0001 U.S. FOREST SERVICE - SAN BERNARDINO NF - DIGITAL DATA FOR THREATENED, ENDANGERED, AND SENSITIVE PLANTS ON

THE SAN BERNARDINO NATIONAL FOREST 2008-XX-XX



Occurrence Report

California Department of Fish and Wildlife



EO Index: 78213

Key Quad:Devore (3411724)Element Code:PMLIL0D150Occurrence Number:131Occurrence Last Updated:2009-11-17

Scientific Name: Calochortus plummerae Common Name: Plummer's mariposa-lily

Listing Status: Federal: None Rare Plant Rank: 4.2

State: None Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

CNDDB Element Ranks: Global: G4

State: S4

77300

General Habitat: Micro Habitat:

COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. OCCURS ON ROCKY AND SANDY SITES, USUALLY OF GRANITIC OR ALLUVIAL MATERIAL. CAN BE VERY COMMON AFTER FIRE. 60-2500 M.

Last Date Observed: 1995-06-17 Occurrence Type: Natural/Native occurrence

Last Survey Date: 1995-06-17 Occurrence Rank: Unknown

Owner/Manager: USFS-SAN BERNARDINO NF Trend: Unknown

Presence: Presumed Extant

Location:

3.2 MILES SE OF LYTLE CREEK ROAD AND APPLEWHITE ROAD JUNCTION ON USFS ROAD 3N31, LOWER LYTLE CREEK DIVIDE.

Detailed Location:

220 METERS EAST OF THE ROAD. IN THE NW 1/4 OF THE SE 1/4 OF SECTION 24.

Ecological:

CHAPARRAL AND COASTAL SAGE SCRUB WITH ADENOSTOMA FASCICULATUM AND QUERCUS BERBERIDIFOLIA. BURN AREA OF SUMMER 1994, SOUTHERN EDGE OF BURN.

Threats:

General:

ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1995 COLLECTION BY SWINNEY, BUT SWINNEY DESCRIBED THIS PLANT AS ABUNDANT AT THE SITE AT THAT TIME.

 UTM:
 Zone-11 N3789149 E457670
 Latitude/Longitude:
 34.24258 / -117.45967
 Elevation (feet):
 3,400

 County Summary:
 Quad Summary:

San Bernardino Devore (3411724)

Sources:

SWI95S0005 SWINNEY, R. - SWINNEY #3850 RSA #665940, UCR #180625 1995-06-17



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife





EO Index:

Key Quad: Devore (3411724) **Element Code:** PMLIL0D150 2009-11-17 **Occurrence Number:** 132 Occurrence Last Updated:

Scientific Name: Calochortus plummerae Common Name: Plummer's mariposa-lily

Listing Status: Federal: None Rare Plant Rank:

> State: None Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

78216

Botanic Garden Global: G4

General Habitat: Micro Habitat:

S4

COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, OCCURS ON ROCKY AND SANDY SITES, USUALLY OF GRANITIC OR CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. ALLUVIAL MATERIAL. CAN BE VERY COMMON AFTER FIRE. 60-2500 M.

Last Date Observed: 2004-XX-XX Occurrence Type: Natural/Native occurrence

Last Survey Date: 2004-XX-XX Occurrence Rank: Unknown Owner/Manager: USFS-SAN BERNARDINO NF Trend: Unknown

Presence: Presumed Extant

RIDGELINE NORTH OF MILLER NARROWS, NORTH OF LYTLE CREEK, ROUGHLY A MILE DOWNSTREAM FROM CONFLUENCES OF ALL THREE FORKS.

Detailed Location:

IN THE NW 1/4 OF THE NW 1/4 OF SECTION 26.

77303

State:

Ecological:

Threats: General:

Location:

ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A US FOREST SERVICE SHAPEFILE WHICH PROVIDES LOCATION, SPECIES, AND "OLD FIRE BAER, 1 YEAR OUT SURVEYS." OLD FIRE BURNED IN FALL 2003; PRESUMABLY OBSERVATION WAS MADE IN 2004.

PLSS: T02N, R06W, Sec. 26, NW (S) Accuracy: 80 meters Area (acres):

Latitude/Longitude: Elevation (feet): UTM: Zone-11 N3788273 E455176 34.23458 / -117.48671 3,100

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

USF08D0001 U.S. FOREST SERVICE - SAN BERNARDINO NF - DIGITAL DATA FOR THREATENED, ENDANGERED, AND SENSITIVE PLANTS ON

THE SAN BERNARDINO NATIONAL FOREST 2008-XX-XX

0



CNDDB Element Ranks:

General Habitat:

Occurrence Report

California Department of Fish and Wildlife



EO Index: 78218

Key Quad:Devore (3411724)Element Code:PMLIL0D150Occurrence Number:133Occurrence Last Updated:2009-11-17

Scientific Name: Calochortus plummerae Common Name: Plummer's mariposa-lily

Listing Status: Federal: None Rare Plant Rank: 4.2

State: None Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

Micro Habitat:

Global: G4 Botanic Garden

State: S4

COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, OCCURS ON ROCKY AND SANDY SITES, USUALLY OF GRANITIC OR

CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. ALLUVIAL MATERIAL. CAN BE VERY COMMON AFTER FIRE. 60-2500 M.

Last Date Observed: 2009-06-17 Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2009-06-17

 Owner/Manager:
 UNKNOWN

 Trend:
 Unknown

Presence: Presumed Extant

77306

Location:

BETWEEN CAJON WASH AND GLEN HELEN REGIONAL PARK CAMPGROUND, 0.5 MILE SOUTH OF JUNCTION OF I-15 & I-215.

Detailed Location:

0.1 MILE EAST OF INTERSTATE-15.

Ecological:

INTERMEDIATE ALLUVIAL FAN SAGE SCRUB ON A TERRACE. SANDY, GRAVELLY SOIL. ASSOCIATED WITH YERBA SANTA AND WESTERN SYCAMORE.

Threats:

THREATENED BY DEVELOPMENT AND ORVS. VISIBLE DISTURBANCES INCLUDE TRASH, FIRE, OFF ROAD VEHICLE USE.

General:

1 PLANT OBSERVED IN 2009.

UTM: Zone-11 N3786303 E462293 **Latitude/Longitude:** 34.21710 / -117.40934 **Elevation (feet):** 2,020

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

KIP09F0002 KIPPER, J. (ULTRASYSTEMS) - FIELD SURVEY FORM FOR CALOCHORTUS PLUMMERAE 2009-06-17



Occurrence Report

California Department of Fish and Wildlife



77310 **EO Index**: 78221

Key Quad:Devore (3411724)Element Code:PMLIL0D150Occurrence Number:134Occurrence Last Updated:2009-11-17

Scientific Name: Calochortus plummerae Common Name: Plummer's mariposa-lily

Listing Status: Federal: None Rare Plant Rank: 4.2

State: None Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

CNDDB Element Ranks: Global: G4

State: S4

General Habitat: Micro Habitat:

COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. OCCURS ON ROCKY AND SANDY SITES, USUALLY OF GRANITIC OR ALLUVIAL MATERIAL. CAN BE VERY COMMON AFTER FIRE. 60-2500 M.

Last Date Observed: 2004-XX-XX Occurrence Type: Natural/Native occurrence

 Last Survey Date:
 2004-XX-XX

 Owner/Manager:
 USFS-SAN BERNARDINO NF

 Trend:
 Unknown

Presence: Presumed Extant

Location:

1.2 AIR MILES SSW OF THE JUNCTION OF I-15 AND I-215, NE OF SYCAMORE CANYON, SW OF DEVORE.

Detailed Location:

IN THE SE 1/4 OF THE SE 1/4 OF SECTION 32, NORTH OF USFS ROAD 3N31.

Ecological:

Threats:

General:

ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A US FOREST SERVICE SHAPEFILE WHICH PROVIDES LOCATION, SPECIES, AND "OLD FIRE BAER, 1 YEAR OUT SURVEYS." OLD FIRE BURNED IN FALL 2003; PRESUMABLY OBSERVATION WAS MADE IN 2004.

PLSS: T02N, R05W, Sec. 32, SE (S) **Accuracy**: 80 meters **Area (acres)**: 0

UTM: Zone-11 N3785500 E461312 Latitude/Longitude: 34.20982 / -117.41996 Elevation (feet): 2,300

County Summary:Quad Summary:San BernardinoDevore (3411724)

San Bernardino

Sources:

USF08D0001 U.S. FOREST SERVICE - SAN BERNARDINO NF - DIGITAL DATA FOR THREATENED, ENDANGERED, AND SENSITIVE PLANTS ON

THE SAN BERNARDINO NATIONAL FOREST 2008-XX-XX



CNDDB Element Ranks:

Occurrence Report

California Department of Fish and Wildlife



EO Index:

Key Quad: Devore (3411724) **Element Code:** PMLIL0D150 2009-11-17 **Occurrence Number:** 135 Occurrence Last Updated:

Scientific Name: Calochortus plummerae Plummer's mariposa-lily Common Name:

Rare Plant Rank: **Listing Status:** Federal: None

> State: None Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

Global: G4

Micro Habitat: **General Habitat:**

S4

COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, OCCURS ON ROCKY AND SANDY SITES, USUALLY OF GRANITIC OR CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. ALLUVIAL MATERIAL. CAN BE VERY COMMON AFTER FIRE. 60-2500 M.

Last Date Observed: 2004-XX-XX Occurrence Type: Natural/Native occurrence

Last Survey Date: 2004-XX-XX Occurrence Rank: Unknown Owner/Manager: USFS-SAN BERNARDINO NF Trend: Unknown

Presumed Extant Presence:

77312

State:

ALONG BIG TREE TRUCK ROAD (USFS ROAD 1N34), 2.1 ROAD MILES WEST OF LYTLE CREEK ROAD, NW OF RIALTO.

Detailed Location: WHERE THE ROAD CROSSES THE CENTER OF THE SECTION LINE WHICH SEPARATES SECTIONS 1 AND 12.

Ecological:

Location:

Threats: General:

ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A US FOREST SERVICE SHAPEFILE WHICH PROVIDES LOCATION, SPECIES, AND OLD FIRE BAER, 1 YEAR OUT SURVEYS." OLD FIRE BURNED IN FALL 2003; PRESUMABLY OBSERVATION WAS MADE IN 2004.

PLSS: T01N, R06W, Sec. 12, NE (S) Area (acres): 0 Accuracy: 80 meters

Zone-11 N3783742 E457446 Latitude/Longitude: 34.19381 / -117.46184 Elevation (feet): 3,100

County Summary: Quad Summary: San Bernardino Devore (3411724)

Sources:

USF08D0001 U.S. FOREST SERVICE - SAN BERNARDINO NF - DIGITAL DATA FOR THREATENED, ENDANGERED, AND SENSITIVE PLANTS ON THE SAN BERNARDINO NATIONAL FOREST 2008-XX-XX

Commercial Version -- Dated April, 2 2021 -- Biogeographic Data Branch

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78225

Botanic Garden



California Department of Fish and Wildlife



77313 EO Index: 78226 Map Index Number:

Key Quad: Devore (3411724) **Element Code:** PMLIL0D150 2010-04-26 **Occurrence Number:** 136 Occurrence Last Updated:

Scientific Name: Calochortus plummerae Plummer's mariposa-lily Common Name:

Rare Plant Rank: **Listing Status:** Federal: None

> State: None Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

Botanic Garden Global: G4

Micro Habitat: **General Habitat:**

S4

State:

COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, OCCURS ON ROCKY AND SANDY SITES, USUALLY OF GRANITIC OR CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. ALLUVIAL MATERIAL. CAN BE VERY COMMON AFTER FIRE. 60-2500 M.

Last Date Observed: 2004-XX-XX Occurrence Type: Natural/Native occurrence

Last Survey Date: 2004-XX-XX Occurrence Rank: Unknown Owner/Manager: USFS-SAN BERNARDINO NF Trend: Unknown

Presumed Extant Presence:

Location:

RIDGETOP NORTH OF DUNCAN CANYON, WEST OF NEALEYS CORNER AT THE MOUTH OF LYTLE CREEK CANYON, NW OF RIALTO.

Detailed Location:

CNDDB Element Ranks:

ON RIDGETOP JUST EAST OF THE CENTER OF THE NE 1/4 OF SECTION 12.

Ecological:

Threats:

General:

ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A US FOREST SERVICE SHAPEFILE WHICH PROVIDES LOCATION, SPECIES, AND OLD FIRE BAER, 1 YEAR OUT SURVEYS." OLD FIRE BURNED IN FALL 2003; PRESUMABLY OBSERVATION WAS MADE IN 2004.

PLSS: T01N, R06W, Sec. 12, NE (S) Area (acres): 0 Accuracy: 80 meters

Zone-11 N3783274 E457859 Latitude/Longitude: 34.18960 / -117.45733 Elevation (feet): 3,100

County Summary: Quad Summary: San Bernardino Devore (3411724)

Sources:

USF08D0001 U.S. FOREST SERVICE - SAN BERNARDINO NF - DIGITAL DATA FOR THREATENED, ENDANGERED, AND SENSITIVE PLANTS ON

THE SAN BERNARDINO NATIONAL FOREST 2008-XX-XX



Occurrence Report

California Department of Fish and Wildlife



EO Index: 78242

Key Quad:Devore (3411724)Element Code:PMLIL0D150Occurrence Number:137Occurrence Last Updated:2009-11-17

Scientific Name: Calochortus plummerae Common Name: Plummer's mariposa-lily

Listing Status: Federal: None Rare Plant Rank: 4.2

State: None Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

CNDDB Element Ranks: Global: G4

State: S4

77333

General Habitat: Micro Habitat:

COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. OCCURS ON ROCKY AND SANDY SITES, USUALLY OF GRANITIC OR ALLUVIAL MATERIAL. CAN BE VERY COMMON AFTER FIRE. 60-2500 M.

Last Date Observed: 2006-09-XX Occurrence Type: Natural/Native occurrence

Last Survey Date:2006-09-XXOccurrence Rank:UnknownOwner/Manager:UNKNOWNTrend:Unknown

Presence: Presumed Extant

Location:

SOUTHERN TRACT OF THE LYTLE CREEK SAN BERNARDINO KANGAROO RAT CONSERVATION AREA, RIALTO.

Detailed Location:

WITHIN SOUTHERN TRACT, SUBUNIT 1. EXACT LOCATION OF SUBUNIT 1 UNKNOWN. MAPPED BY CNDDB AS BEST AS POSSIBLE BASED ON AERIAL IMAGERY FROM THE SAME PERIOD OF TIME AS THE OBSERVATIONS.

Ecological:

ASSOCIATED WITH VULPIA MYUROS, HYPOCHAERIS, CRYPTANTHA, ERODIUM CICUTARIUM, AND LOTUS SUBPINNATUS.

Threats:

General:

CALOCHORTUS PLUMMERAE WAS ESTIMATED TO COMPRISE 0.1% OF THE COVER OF THIS PLOT DURING A VEGETATION ASSESSMENT IN APRIL AND SEPTEMBER 2006.

County Summary:Quad Summary:San BernardinoDevore (3411724)

Sources:

OFA07R0001 O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL

ANNUAL REPORT FOR 2006 2007-02-XX



CNDDB Element Ranks:

General Habitat:

Occurrence Report

California Department of Fish and Wildlife



EO Index: 78247

Key Quad:Devore (3411724)Element Code:PMLIL0D150Occurrence Number:138Occurrence Last Updated:2009-11-17

Scientific Name: Calochortus plummerae Common Name: Plummer's mariposa-lily

Listing Status: Federal: None Rare Plant Rank: 4.2

State: None Other Lists: SB_CalBG/RSABG-California/Rancho Santa Ana

Micro Habitat:

Global: G4 Botanic Garden

State: S4

COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. OCCURS ON ROCKY AND SANDY SITES, USUALLY OF GRANITIC OR ALLUVIAL MATERIAL. CAN BE VERY COMMON AFTER FIRE. 60-2500 M.

Last Date Observed: 2001-05-13 Occurrence Type: Natural/Native occurrence

Last Survey Date:2001-05-13Occurrence Rank:UnknownOwner/Manager:UNKNOWNTrend:Unknown

Presence: Presumed Extant

Location:

77334

SOUTH OF VERDEMONT RANCH AND WEST OF GLEN HELEN SHERIFFS FACILITY, LYTLE CREEK WASH.

Detailed Location:

DISTURBED ALLUVIAL SHRUBLAND. 1650-1750 FT ELEVATION.

Threats:

General:

Ecological:

ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 2001 COLLECTION BY WHITE.

PLSS: T01N, R05W, Sec. 15 (S) **Accuracy**: 2/5 mile **Area (acres)**: 0

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

WHI01S0006 WHITE, S. - WHITE #8592 RSA #674736 2001-05-13



Occurrence Report

California Department of Fish and Wildlife





Key Quad: Devore (3411724) **Element Code:** PMLIL1A0J0 **Occurrence Number: Occurrence Last Updated:** 2012-02-27 37

Scientific Name: Lilium parryi Common Name: lemon lily

Federal: Rare Plant Rank: **Listing Status:** None 1B.2

> State: None Other Lists: SB CalBG/RSABG-California/Rancho Santa Ana

Botanic Garden **CNDDB Element Ranks:** Global: G3 USFS_S-Sensitive

S3

General Habitat: Micro Habitat:

LOWER MONTANE CONIFEROUS FOREST, MEADOWS AND SEEPS, WET, MOUNTAINOUS TERRAIN; GENERALLY IN FORESTED AREAS; RIPARIAN FOREST, UPPER MONTANE CONIFEROUS FOREST. ON SHADY EDGES OF STREAMS, IN OPEN BOGGY MEADOWS &

SEEPS. 625-2930 M.

Last Date Observed: 1993-XX-XX Occurrence Type: Natural/Native occurrence

Last Survey Date: 2004-06-30 Occurrence Rank: Unknown **USFS-SAN BERNARDINO NF** Trend: Unknown Owner/Manager:

Presence: Presumed Extant

35454

State:

SAN SEVAINE COW CAMP, SOUTHEAST BASE OF THE SAN GABRIEL MOUNTAINS.

Detailed Location:

Ecological:

Location:

General:

SPRINGY HILLSIDE ABOVE GRASSY FLAT.

Threats:

OBSERVED NEAR SAN SEVAINE COW CAMP BY THORNE IN 1971. 2 PLANTS OBSERVED HERE IN 1993 BY ELAM. SITE VISITED AND SEARCHED

IN 2004, NO PLANTS FOUND.

PLSS: T01N, R06W, Sec. 02, NW (S) Accuracy: 1/5 mile Area (acres): 0

Elevation (feet): UTM: Zone-11 N3784691 E455092 Latitude/Longitude: 34.20227 / -117.48744 4,700

County Summary: Quad Summary:

San Bernardino Devore (3411724)

Sources:

ELA94R0001 ELAM, D. - "GENETIC VARIATION AND REPRODUCTIVE OUTPUT IN PLANT POPULATIONS: EFFECTS OF POPULATION SIZE AND

INCOMPATIBILITY" PHD DISSERTATION. LILIUM PARRYI, ERIODICTYON CAPITATUM 1994-12-XX

FRA04F0021 FRAGA, N. - FIELD SURVEY FORM FOR LILIUM PARRYI 2004-06-30

THO71S0008 THORNE, R. ET AL. - THORNE #40892 RSA #225939 1971-07-07



Appendix C Site Visit Photographs



Photo 1 - View facing northwest, looking proposed pipeline alignment along W Via Bello Drive.



Photo 2 - View facing northwest, looking the West Valley Water District reservoir at the western end of W Via Bello Drive.

Site Visit Photographs



Photo 3 - View facing east from N Linden Avenue, looking at the "open space" between N Linden Avenue and the RWFF.



Photo 4 - View facing east from N Linden Avenue, looking at the "open space" between N Linden Avenue and the RWFF.

Site Visit Photographs



Photo 5 - View facing east from N Linden Avenue, looking at the "open space" between N Linden Avenue and the RWFF.



Photo 6 - View facing northwest from N Riverside Avenue (looking at the sand and gravel mining operation [Cemex] and San Bernardino Kangaroo Rat critical habitat).



Photo 7 - View facing west, looking RWFF entrance off N Cedar Ave.



Photo 8 - View facing northwest from N Riverside Avenue (looking at the sand and gravel mining operation [Cemex] and San Bernardino Kangaroo Rat critical habitat).

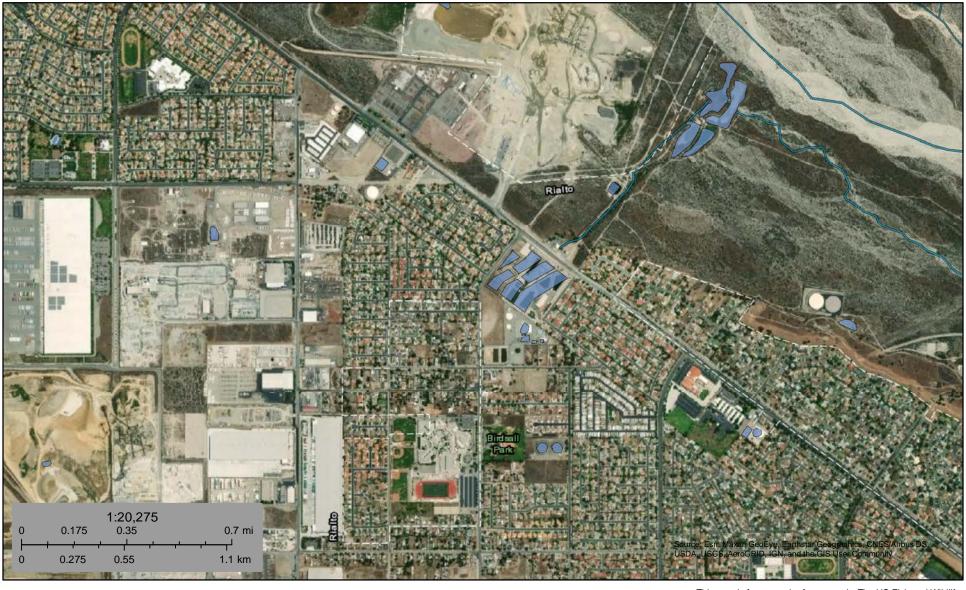


Appendix D NWI Wetlands Inventory

U.S. Fish and Wildlife Service

National Wetlands Inventory

NWI Map - Oliver P. Roemer Water Filtration



April 12, 2021

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

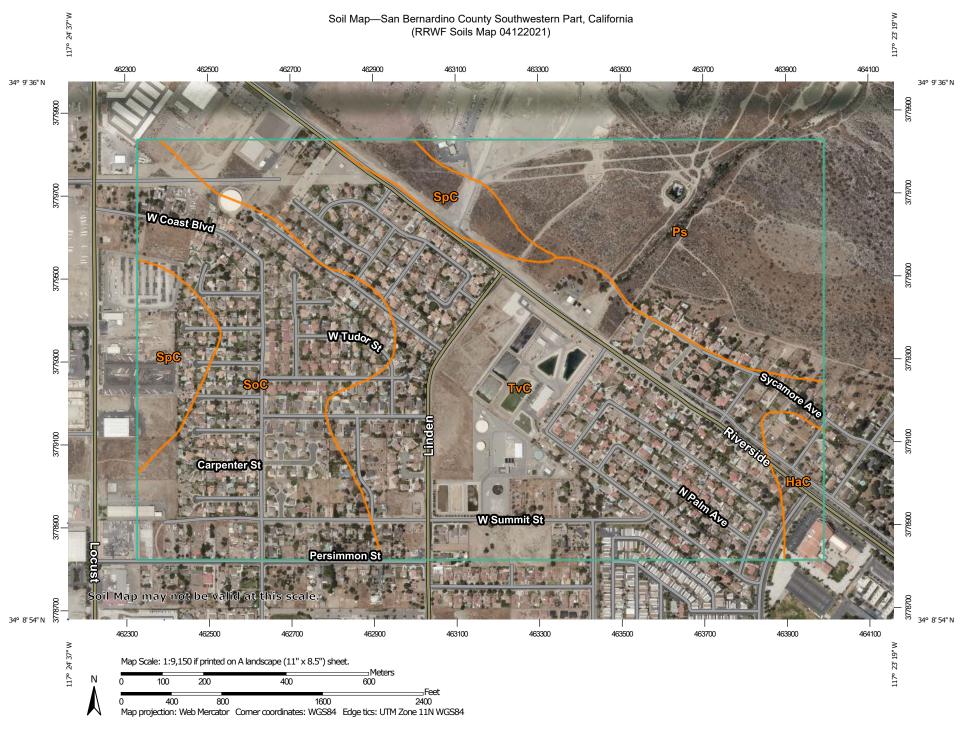
Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Appendix E NRCS Soils Map



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

Blowout



 \boxtimes

Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow

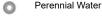
Marsh or swamp



Mine or Quarry



Miscellaneous Water



Rock Outcrop



Saline Spot



camio opo



Sandy Spot
Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot

8

Spoil Area



Stony Spot



Very Stony Spot



Wet Spot Other



Special Line Features

,

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San Bernardino County Southwestern Part, California

Survey Area Data: Version 12, May 27, 2020

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Apr 1, 2018—Jul 8, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
НаС	Hanford coarse sandy loam, 2 to 9 percent slopes	10.0	2.4%
Ps	Psamments, Fluvents and Frequently flooded soils	85.9	20.5%
SoC	Soboba gravelly loamy sand, 0 to 9 percent slopes	99.1	23.7%
SpC	Soboba stony loamy sand, 2 to 9 percent slopes	29.5	7.1%
TvC	Tujunga gravelly loamy sand, 0 to 9 percent slopes	193.8	46.3%
Totals for Area of Interest		418.4	100.0%