

# **DRAFT**

## **COMPREHENSIVE MITIGATION IMPLEMENTATION PLAN for the NEWHALL RANCH – RESOURCE MANAGEMENT AND DEVELOPMENT PLAN AND SPINEFLOWER CONSERVATION PLAN STUDY AREA**

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## **EXECUTIVE SUMMARY**

The Comprehensive Mitigation Implementation Plan (CMIP) for the Newhall Ranch Resource Management and Development Plan (RMDP) and Spineflower Conservation Plan (SCP) study area outlines the procedures for implementing the open space dedication and restoration mitigation required by the RMDP, the associated environmental impact statement/environmental impact report (EIS/EIR), and those measures that should be applied to the Entrada South and Valencia Commerce Center (VCC) planning areas. The CMIP briefly describes the context and process for mitigation implementation; however, the primary purpose of the CMIP is to provide a road map of “rough-step” implementation of planned RMDP activities and SCP study area development projects (Entrada South and VCC), implementation in terms of impacts and mitigation. The rough-step analysis, defined below, is presented in a series of tables and exhibits that show how the planned activities relate to significant biological impacts and associated preservation and restoration measures. The intent of the CMIP is to establish a feasible step-wise procedure for implementing preservation- and restoration-related mitigation measures as set forth in the Specific Plan EIR and RMDP/SCP EIS/EIR (with the exception of spineflower-specific mitigation measures) within the project study area. Spineflower-specific activities are governed by the SCP and requirements of the SFVS Incidental Take Permit. Mitigation related to individual oak trees is addressed in the Oak Resource Management Plan.

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# Comprehensive Mitigation Implementation Plan

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### 1 INTRODUCTION

On December 3, 2010, the California Department of Fish and Game (CDFG) – now the Department of Fish and Wildlife (CDFW) – approved the Newhall Ranch Spineflower Conservation Plan (SCP). The SCP establishes a system of managed preserves that will maximize the long-term persistence of the state-listed endangered San Fernando Valley spineflower (*Chorizanthe parryi* var. *fernandina*) (spineflower) within the Specific Plan area, Valencia Commerce Center (VCC) planning area, and Entrada South planning area. CDFW required the SCP as a condition of issuing Newhall an Incidental Take Permit (ITP) for spineflower. On August 31, 2011, the Army Corps of Engineers (ACOE) approved the Newhall Ranch Resource Management and Development Plan (RMDP), - a conservation, mitigation, and permitting plan for the long-term management of sensitive biological resources within the 11,999-acre Newhall Ranch Specific Plan area (Specific Plan area) located in northern Los Angeles County (Figure 1 (see Appendix A for figures and tables))<sup>1</sup>.

Together, the RMDP and SCP form a complementary project, the boundaries of which extend beyond the Specific Plan area and include VCC, most portions of Entrada South, and some off-site improvement areas. Because the RMDP and SCP approvals would facilitate development of the Specific Plan, VCC, and Entrada South, the Corps and CDFW elected to prepare a comprehensive EIS/EIR.<sup>2</sup> This document analyzed (1) the direct environmental impacts of the RMDP's infrastructure/facilities (bank stabilization, roads, bridges, etc.); (2) the direct impacts of the SCP/ITP for spineflower; (3) the indirect impacts from those residential, commercial, and non-residential projects that would be facilitated by the RMDP/SCP project (i.e., Specific Plan, VCC, and Entrada South); and (4) the secondary impacts that could occur outside the development footprints of such facilitated projects.

This Comprehensive Mitigation Implementation Plan (CMIP) describes the process by which impacts to biological resources will be mitigated consistent with the requirements set forth in the Specific Plan EIR, and the RMDP/SCP EIS/EIR. Note, however, that the CMIP does not address

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<sup>1</sup> The Specific Plan was approved by Los Angeles County in May 2003 (County of Los Angeles 2003), and subsequent development plans; subdivision maps; and federal and state permitting, consultations, and agreements will be required to implement build-out of the Specific Plan area, which is projected to occur over the next 20 to 25 years.

<sup>2</sup> The EIR portion of the EIS/EIR and Newhall Ranch RMDP/SCP project was approved by the CDFG on December 3, 2010. The CDFG also approved the spineflower ITP covering Newhall's landholdings, including the Homestead South site (ACOE and CDFG 2010). For its part, the ACOE approved the EIS portion of the EIS/EIR and the RMDP/SCP project, pursuant to a Record of Decision (ROD) for the Least Environmentally Damaging Practical Alternative (LEDPA) and other supporting documents, in January 2011. The ROD was signed in August 2011.

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mitigation of impacts to San Fernando Valley spineflower, as that is covered in the SCP itself. Mitigation related to individual oak trees is addressed in the Oak Resource Management Plan.

For purposes of the CMIP, the study area (14,600 acres) includes the following tract maps: Mission Village, Landmark Village, Homestead South, Potrero Village, Homestead North, Entrada South, and VCC, as well as three areas outside tract map boundaries: High Country Special Management Area (SMA), Salt Creek SMA, and the Water Reclamation Plant (WRP)–Utility Corridor (Figure 2). The land use designations within the study area include residential, industrial, mixed-use, parks and recreation, public facilities, preserved area, SMA/Significant Ecological Area (SEA), and natural Open Area. The RMDP identifies various master-planned communities and regional infrastructure related to the development of these land uses (e.g., bridges, drainage improvements, viewing platforms, debris and water quality basins) and evaluates how resources will be managed while this infrastructure is being developed. Specifically, resources will be managed through a design development process that seeks to avoid and minimize impacts, and through mitigation measures that offset unavoidable significant impacts, both during and after construction of project components.

As indicated above, the study area, includes sensitive biological areas of the Santa Clara River Special Management Area/Significant Ecological Area (SMA/SEA), High Country SMA/SEA, Open Area, and oak resources; and the Salt Creek area, which is a conservation area that occurs outside the Specific Plan area boundary. Within the tract map boundaries open space in the study area is protected in the form of seven Spineflower Preserves, the San Martinez Grande Adaptive Management Area, the Mariposa Lily Reserve, natural open space land use designation, and the Santa Clara River SMA/SEA. The total Open Area protected within the tract map boundaries totals 3,770 acres. Outside the tract maps, open space is protected by the High Country SMA/SEA (4,167 acres) and the Salt Creek area (1,518 acres). The total Open Area protected within the study area is 9,417 acres (Figure 3).

The CMIP is organized to outline the implementation of mitigation measures related to the preservation and restoration of land within the RMDP/SCP study area. Section 2 describes the objectives of the permits requested by the applicant and the general process required to comply with the permit conditions. Section 3 describes the general environmental conditions and resources of the RMDP/SCP study area, summarizes the project impacts to sensitive resources, and summarizes the avoidance and preserve dedication/restoration-related mitigation measures. Section 4 discusses the implementation process of the mitigation measures following development approval. Section 5 addresses the phasing of development and the schedule for submittal of tentative maps and any related mitigation. Section 6 identifies the conceptual locations and acreage for geographically located mitigation areas.

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## Newhall Ranch Project Development Phasing

Phase	Village	Anticipated Time Frame <sup>(1)(2)</sup>
1	Landmark Village	3-5 years
2	Mission Village	3-5 years
3	WRP / Utility Corridor	3-5 years
4	Homestead Village South	3-5 years
5	Homestead Village North	5-10 years
6	Potrero Village	10-15 years
7	Entrada South	3-5 years
8	VCC	5-10 years

(1) Time frames indicate the approximate time frame for development to commence.

(2) Any given area could take from 3 to 5 years to complete.

## 1.1 RMDP Project Description

The RMDP will facilitate the development of approximately 19,517 residential units, 5.45 million square feet of commercial uses and public facilities such as parks, schools and libraries on approximately 2,570 acres. Of the 13,651 acres within the RMDP project property, approximately 5,084 acres will be graded, with approximately 2,356 acres related to residential and commercial development; approximately 235 acres related to public facilities; approximately 552 acres related to roads and other infrastructure such as electrical substations; and the remaining 1,975 acres restored as manufactured open space (stabilized slopes revegetated with native vegetation) and recreational areas. This restored manufactured open space consists of approximately 700 acres of contoured slopes that will be planted with native vegetation, approximately 110 acres of utility corridor with restricted native vegetation (native shrub and grasses), approximately 200 acres of golf course (recreational planning unit overlay of approved residential planning areas in Potrero Canyon), 90 acres of parks and recreational areas, and approximately 875 acres of parkways and other landscaped areas. The remaining 8,566 acres will be preserved as natural open space, for a total of approximately 10,528 acres of open space. The grading of the RMDP site will take place in a balanced cut-and-fill process.

## 1.2 Village Level Project Descriptions

### 1.2.1 Mission Village

The Mission Village, as approved by the Los Angeles County Board of Supervisors as outlined above, encompasses approximately 1,260-acres located in the northeast corner of the NRSP area, south of the Santa Clara River and SR-126 and west of Interstate 5 (Mission Village Project). Development proposed for the Mission Village Project includes a mix of housing types; mixed-use, office, and commercial facilities; open space and recreation areas; and infrastructure uses

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(e.g., parks, a fire station, library, school, utilities, roads, etc.). The Mission Village Project also includes regional access improvements, including the construction of the Commerce Center Drive Bridge, which will connect the existing northern terminus of Commerce Center Drive at SR-126 with the proposed southern extension of Commerce Center Drive onto the Mission Village Project. Residential development will occupy approximately 389 acres of the Mission Village Project, while mixed use and commercial uses will occupy approximately an additional 57 acres. School, park, recreation and other public service uses will occupy approximately 56 acres, and utility and road facilities will occupy approximately 164 acres. In total, proposed development will involve grading of approximately 666 acres, or approximately 49 percent, of the Mission Village Project.

### **1.2.2 Landmark Village**

The Landmark Village portion of the RMDP, as approved by the Los Angeles County Board of Supervisors as outlined above, will be developed on approximately 294 acres located in the central portion of the NRSP area, west of the confluence of Castaic Creek with the Santa Clara River, north of the River and south of SR-126 (Landmark Village Project), all of which will be graded. Development proposed for the Landmark Village Project tract map site includes a mix of housing types; mixed-use/commercial facilities; open space and recreation facilities; and infrastructure uses (e.g., parks, a fire station, elementary school, utilities, roads, etc.). Residential development will occupy approximately 129 acres of the Landmark Village Project site, while mixed use/commercial uses will occupy approximately 35 acres. Schools, park, open space, recreation and public service uses will occupy approximately 75 acres, and roads and a park and ride facility will occupy approximately 55 acres.

### **1.2.3 Utility Corridor/WRP Outfall/SR 126 Bridge Widening**

The RDMP includes the development of utility service systems to serve urban development on the NRSP area. Utility systems that will result in permanent and temporary impacts to waters of the United States include a utility corridor, the treated wastewater outfall of the Newhall Ranch WRP, and widened bridges and culverts located along Highway 126 (“SR-126”) adjacent to the Project site.

### **WRP**

Los Angeles County approved the NRSP, and, as an individual project, the WRP development. The Regional Board adopted Waste Discharge Requirements for the Newhall Ranch Sanitation District (Order No. R4-2007-0046) effective October 27, 2007. The development of the WRP

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includes buried soil cement flood protection along the Santa Clara River and involves filling of two on-site minor tributary drainages as further described below.

### **Utility Corridor**

The Los Angeles County approved subdivision maps for both the Landmark Village and Mission Village tracts, described above, including the primary electrical, sewer, water, gas and communication lines serving the NRSP area that will be installed in a utility corridor generally located parallel to the south side of SR-126 and north of the Santa Clara River. The corridor will extend approximately three miles between Castaic Creek to the east and the WRP to the west, and will be approximately 100 feet wide. The corridor will cross several tributaries to the Santa Clara River, including (from east to west) Castaic Creek, Chiquito Canyon, Mid-Martinez Canyon, San Martinez Canyon, and Off-Haul Canyon. Trenching or where necessary, directional boring, will be used to install utility lines across the tributaries, and a 30 to 50-foot wide construction corridor will be required. Utility lines across watercourses will be located below scour depth and weighted or cemented in place, where appropriate, or co-located with bed stabilization features that provide scour protection. Following completion of construction activities, temporary impact areas will be restored to channel grade and re-vegetated with native riparian and upland species as appropriate. Permanent access for the maintenance of utilities will be provided outside the limits of the streambed and associated habitats.

### **1.2.4 Homestead South Village**

The tentative tract map for the Homestead South Village portion of the Newhall Ranch master planned community has not been submitted to Los Angeles County for subdivision approval, and therefore detailed land use planning is not available for this planning area nor has the project-level EIR for the Homestead South Village been completed. Under the RMDP, a land use plan consistent with the NRSP was used in the impacts analysis. Under the RMDP, Homestead South Village will be developed on approximately 1,635 acres located in the central portion of the NRSP site. The Homestead South Village Project site is generally located south of the Santa Clara River, west of the Mission Village Project site and north of the Potrero Village site. A small portion of the Homestead South Village Project site will be located north of the River and south of SR-126. Development proposed for the Homestead South Village includes a mix of housing types; mixed-use/commercial facilities; open space and recreation facilities; and infrastructure uses (e.g., parks, high school and elementary school, utilities, roads, etc.). Residential development will occupy approximately 487 acres of the Homestead South Village Project site. School, park, open space, recreation and public service uses will occupy approximately 1,238 acres, and roads will occupy approximately 90 acres.

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### **1.2.5 Potrero Village**

The tentative tract map for the Potrero Village portion of the NRMDP has not been submitted to Los Angeles County for subdivision approval, and therefore detailed land use planning is not available for this planning area nor has the project-level EIR for Potrero been completed. Under the RMDP, a land use plan consistent with the NRSP was used in the impacts analysis. The Potrero Village portion of the Newhall Ranch master planned community will be developed on 3,000 acres located south of SR-126 and north of the High Country open space area that is to be established on the NRSP area. Development proposed for the Potrero Village Project includes a mix of housing types; mixed-use/commercial facilities; open space and golf and recreation facilities; elementary school; visitor service center in the High Country; and infrastructure uses (e.g., parks, utilities, roads, etc.). Residential development will occupy approximately 900 acres of the Potrero Village Project site, while commercial uses will occupy approximately 38 acres. School, park, open space, recreation and public service uses will occupy approximately 1,550 acres, and roads will occupy approximately 104 acres.

### **1.2.6 Homestead North Village**

The tentative tract map for the Homestead North Village portion of the RMDP has not been submitted to Los Angeles County for subdivision approval, and therefore detailed land use planning is not available for this planning area nor has the project-level EIR for Homestead North Village been completed. Under the RMDP, a land use plan consistent with the NRSP was used in the impacts analysis. The Homestead North Village portion of the RMDP will be developed on approximately 1,600 acres located in the northwestern portion of the NRSP area. The Homestead North Village site is generally located north of SR-126 and west of the Landmark Village Project site. Development proposed for the Homestead North Village Project includes a mix of housing types; mixed-use/commercial facilities; open space and recreation facilities; and infrastructure uses (e.g., parks, utilities, roads, etc.). Residential development will occupy approximately 295 acres of the Homestead North Village Project site, while mixed use/commercial uses will occupy approximately 77 acres. Park, open space, recreation and public service uses will occupy approximately 1,153 acres, and roads will occupy approximately 75 acres.

### **Entrada South**

The Entrada South planning area consists of approximately 392 acres. The applicant is seeking approval from Los Angeles County for planned residential and nonresidential development within the Entrada South planning area. The applicant has submitted to Los Angeles County Entrada South development applications, which cover the portion of the Entrada South planning area facilitated by the SCP. As of this writing, the County has not yet issued an NOP of an EIR

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or released an EIR for Entrada South. The proposed project consists of open space as well as residential, commercial, and public facility uses.

### **Valencia Commerce Center**

The VCC planning area consists of approximately 333 acres. This planning area is the remaining undeveloped portion of the VCC commercial/industrial complex currently under development by the applicant. VCC was the subject of an EIR certified by Los Angeles County in April 1990 (County of Los Angeles. 1990). The applicant has recently submitted to Los Angeles County the last tentative parcel map (Tentative Parcel Map No. 18108) needed to complete build-out of the remaining portion of the VCC planning area. The County will require preparation of a subsequent EIR in conjunction with the parcel map and related project approvals; however, the County has not yet issued a Notice of Preparation (NOP) of the subsequent EIR or released the subsequent EIR for the remaining portion of the VCC planning area.

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## **2 REGULATORY FRAMEWORK AND PERMITTING PROCESS**

The RMDP will be implemented in the unincorporated County of Los Angeles (County). For that reason, the County is reviewing the RMDP for consistency with its plans and policies, including the Newhall Ranch Specific Plan's Resource Management Plan (RMP) (Section 2.6 of the Specific Plan), which the County approved on May 27, 2003, when it adopted the Specific Plan and its attendant EIR (County of Los Angeles 2003).

The RMP sets forth mitigation and management standards for sensitive biological resources located within the boundary of the approved Specific Plan. The RMP also establishes standards governing public access, recreational use, management, and ownership of the Newhall Ranch River Corridor SMA, the High Country SMA, and the Open Area portions of the Specific Plan area.<sup>3</sup> Under the RMP, the Salt Creek area, adjacent to the westerly boundary of the Specific Plan site, is also to be managed in conjunction with, and in the same manner as, the High Country SMA.

In 2010, the Corps and CDFG<sup>4</sup> approved the EIS/EIR for the RMDP/SCP project (Corps and CDFG 2010; Figure 3). The RMDP/SCP project consists of two components. The first is the RMDP, which is a conservation, mitigation, and permitting plan for sensitive biological resources within the RMDP project area. Newhall relied on the RMDP to obtain federal and state permits for implementing the infrastructure and facilities required to build out the approved Specific Plan. Those facilities included the Magic Mountain Parkway extension through the Specific Plan area and Entrada South to Interstate 5 (I-5). The RMDP directs both resource management and development within the RMDP area, as shown on Figure 2.0-3 of the EIS/EIR. The second component is the SCP, which is a conservation and management plan to permanently protect the San Fernando Valley spineflower, a federal candidate and state-listed endangered species, through an actively managed system of preserves. The SCP addresses known spineflower populations located within the Specific Plan area, and at study areas located at VCC and Entrada South.

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<sup>3</sup> The River Corridor SMA and the High Country SMA retain their local County designation as SEAs under the approved Specific Plan. The River Corridor SMA is now referred to as the Santa Clara River SMA/SEA; the High Country SMA/SEA name is still consistent.

The California Department of Fish and Game (CDFG) was officially renamed the California Department of Fish and Wildlife (CDFW) as of January 1, 2013. Where references are made in this document to the department for background information, documents, permits, consultations, etc. prior to January 1, 2013, the title CDFG is used and after January 1, 2013, CDFW is used.

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The RMDP is one of the detailed implementation plans contemplated by the previously approved RMP. The RMP was prepared at a conceptual level of detail only, and acknowledged that future conservation, mitigation, and permitting activities within the Specific Plan area would be subject to federal and state permits, consultations, and agreements, which would be implemented through more detailed planning. The RMDP will guide future resource conservation, mitigation, and permitting for the long-term management of sensitive biological resources in conjunction with the infrastructure improvements and facilities approved under the Specific Plan. This CMIP outlines the implementation of the RMDP, building further upon the RMP.

Because the infrastructure components of the RMDP would facilitate development of the Specific Plan and Entrada South (i.e., Magic Mountain Parkway extension), and because such development would result in impacts to the spineflower, thus necessitating an ITP and SCP, the Corps and CDFW elected to prepare a comprehensive EIS/EIR. This document analyzed: (1) the direct environmental impacts of the RMDP's infrastructure/facilities (bank stabilization, roads, bridges, etc.); (2) the direct impacts of the SCP/ITP for spineflower; (3) the indirect impacts from those residential, commercial, and non-residential projects that would be facilitated by the RMDP/SCP project (i.e., Specific Plan, Entrada South, and VCC); and (4) the secondary impacts that could occur outside the development footprints of such facilitated projects. Thus, Entrada South and VCC were among the projects whose impacts were evaluated in the EIS/EIR.

As part of the RMDP/SCP project, Newhall requested and obtained from CDFG ITPs for spineflower and three other state-listed species: western yellow-billed cuckoo (*Coccyzus americanus occidentalis*), southwestern willow flycatcher (*Empidonax traillii extimus*), and least Bell's vireo (*Vireo bellii pusillus*) (i.e., "Covered Species"). Newhall and the CDFG also approved a Master Streambed Alteration Agreement (MSAA) for project-related changes to the Santa Clara River and its tributaries. In addition, Newhall obtained from the Corps a Clean Water Act Section 404(b)(1) permit, following review and approval of its Least Environmentally Damaging Practical Alternative (LEDPA).

The LEDPA process resulted in a Final Newhall Ranch Project LEDPA that was a modified version of the Draft LEDPA described in the Final RMDP/SCP EIS/EIR (Carpenter 2011). The Final LEDPA avoids an additional 18.4 acres of waters of the U.S. compared to the Draft LEDPA, primarily by reconfiguring development in Potrero Canyon and relocating development in San Martinez Grande Canyon (thus allowing bank stabilization to occur entirely in upland areas).

The LEDPA also reflects input from CDFW that provides increased spineflower preserve acreage by adding two new spineflower preserves—the Magic Mountain and Spring preserves. Finally, the LEDPA provides for larger riparian corridors within five major tributaries: lower Potrero Canyon (by eliminating Potrero Canyon Bridge); Long Canyon (new channel

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construction); and in Lion, San Martinez Grande, and Chiquito Canyons by incorporating limited channel grading to expand the drainages and adjacent riparian areas and realign their banks. Of the total 660 acres of waters of the U.S. present on the RMDP site, the LEDPA would avoid permanent or temporary impacts to approximately 87% (576.9 acres), compared to 85% avoidance for the Draft LEDPA. The Section 404 Individual Permit (IP) based on the LEDPA authorized fill of approximately 47.9 acres of the Corps-jurisdictional waters of the U.S. and temporary disturbance of 35.3 acres.

The Los Angeles Regional Water Quality Control Board (RWQCB) issued Waste Discharge Requirements (WDRs) in lieu of 401 Water Quality Certification for the Corps 404 Permit, mirroring the impacts approved by the Corps.

The MSAA and IP authorized the conversion to buried storm drain of Magic Mountain Canyon (6,111 linear feet), Unnamed Canyon 1 (4,647 linear feet), and Unnamed Canyon 2 (416 linear feet). The IP authorized the fill of 7.21 acres of Corps-jurisdictional non-wetland waters, and the MSAA authorized the fill of 7.38 acres of CDFW-jurisdictional streambed associated with the extension of Magic Mountain Parkway through the Entrada South project site. However, the MSAA did not cover jurisdictional impacts associated with the residential and commercial development portions of the Entrada South or VCC projects.

Due to the long-term nature of the RMDP, the Corps and CDFW will perform subsequent assessment of the project by evaluating “Subnotifications,” prepared and submitted by Newhall, which demonstrate individual project compliance with the RMDP/SCP and the mitigation measures discussed in this CMIP. The County will review individual tract maps and project-specific EIRs that will also further evaluate the project impacts and may adopt additional mitigation, if warranted. The CMIP will be a guiding document for the mitigation selection and implementation throughout the RMDP and SCP planning areas.

It is important to note that Newhall must demonstrate compliance with the RMDP/SCP, but need not propose mitigation that matches the measures presented in this CMIP in terms of acreage or location as impacts and associated conservation may change over the long-term implementation. The acreages and location of impacts and mitigation measures will be updated as appropriate in the future during project implementation; the CMIP is a conceptual rough-step analysis of that process. Please note that VCC and Entrada South developments are subject to further environmental review pursuant to CEQA with the County of Los Angeles and state and federal wetland regulatory programs which may result in resource impacts different than presented in the CMIP.

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### 3 EXISTING ENVIRONMENTAL SETTING, PROPOSED IMPACTS, AND MITIGATION MEASURES

#### 3.1 Existing Conditions

The RMDP/SCP study area includes both upland and riparian areas. The major upland plant communities include coastal scrub, undifferentiated chaparral, coast live oak and valley oak woodlands, and California annual grassland. However, the study area also contains smaller areas of valley oak/grass, mixed oak woodland and forest, chamise chaparral, California walnut woodland, and big sagebrush scrub. The Santa Clara River and associated tributaries support a variety of riparian plant communities, including southern cottonwood–willow riparian forest, southern willow scrub, southern coast live oak riparian forest, mulefat scrub, Mexican elderberry scrub, arrowweed scrub, giant reed, shrub tamarisk, herbaceous wetland, bulrush–cattail wetland, cismontane alkali marsh, coastal and valley freshwater marsh, and river wash. The study area also supports a wide variety of wildlife species, including special-status birds, reptiles, amphibians, mammals, and invertebrates.

There are two County SEAs within the boundary of the approved Specific Plan: (1) the High Country SMA/SEA, which consists of diverse coastal scrub, chaparral, California annual grassland, oak woodland, and riparian habitats that function as a wildlife corridor/linkage between the San Gabriel Mountains and the Santa Monica Mountains, and (2) the Santa Clara River SEA, which consists primarily of riparian and aquatic habitat within the Santa Clara River corridor and Castaic Creek. The Santa Clara River SEA supports the federally endangered and state fully protected unarmored threespine stickleback (*Gasterosteus aculeatus williamsoni*) and other listed and special-status species. Note also that the Santa Clara River SEA includes portions of the Grapevine Mesa Spineflower Preserve and Airport Mesa Spineflower Preserve (Figure 3).

The Specific Plan boundary also encompasses the Ventura County portion of the High Country known as the Salt Creek area, which, while not a formally designated SEA, is contiguous with, and supports similar vegetation communities as, the High Country SMA. The Salt Creek area also provides connectivity between the High Country SMA/SEA and the Santa Clara River SMA/SEA.<sup>5</sup>, and will be dedicated as "Open Space" and managed in the same way as the High Country SMA/SEA. The Open Area designation provides natural areas; however, some of the land is designated for public parks and trails.

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<sup>5</sup> The Open Area designation provides natural areas; however, some of the land is designated for public parks and trails.

# Comprehensive Mitigation Implementation Plan

## Newhall Ranch – Resource Management and Development Plan

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### 3.2 Impacts

The RMDP's infrastructure projects will cause *direct* impacts on biological resources including the permanent or temporary loss of vegetation communities, land covers, and wildlife; loss of or harm to special-status plant and wildlife species; and permanent or temporary loss of habitat for special-status species. In addition, the RMDP and SCP will cause *indirect* impacts as well by facilitating build-out of the Specific Plan, VCC, and Entrada South projects. These indirect impacts include the permanent loss of vegetation communities, land covers, mostly upland unique landscape features, and wildlife; loss of or harm to special-status plant and wildlife species; and permanent loss of habitat for special-status species. Finally, the RMDP and SCP will also result in *secondary* impacts. Secondary impacts are those reasonably foreseeable biological effects which, while caused by build-out of the Specific Plan, VCC, and Entrada South, nevertheless occur adjacent to development and/or off-site.

Table 1 in Appendix A, identifies those significant impacts on jurisdictional waters/drainages and sensitive biological resources that require either preservation or restoration within the project's open space. To reduce redundancy, Table 1 organizes species by mitigation measures they share in common rather than by guilds or taxonomic groups. For example, the mitigation measures for Allen's hummingbird (*Selasphorus sasin*), Costa's hummingbird (*Calypte costae*), and northern harrier (*Circus cyaneus*) are the same, so these three species are presented together in the table.

# **Comprehensive Mitigation Implementation Plan Newhall Ranch – Resource Management and Development Plan**

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## **4 IMPLEMENTATION PROCESS**

Within the Specific Plan area, five tentative maps will be submitted over a period of time: (1) Landmark Village (currently approved), (2) Mission Village (currently approved), (3) Homestead Village South (in process), (4) Homestead Village North (to be submitted in the future), and (5) Potrero Village (in process). In addition, tentative maps will be submitted for Entrada South (in process) and Valencia Commerce Center (to be submitted in the future). Newhall may propose numerous infrastructure components as part of its tentative map submittals or as individual projects. Likewise, Newhall may subdivide the tentative map areas into phases and submit them separately. However, this CMIP assumes that each of the seven tentative maps includes all infrastructure within those map areas and that each map will be submitted in the sequence listed above.

For each development, Newhall will submit a notification to the resource agencies and the County to demonstrate compliance with design criteria and mitigation measures. With regard to mitigation measures discussed in this CMIP (i.e., preservation- and restoration-related measures) the Subnotification will include a calculation of impacts, mitigation requirements, and proposed mitigation, as well as exhibits and planning documents illustrating how mitigation would be successfully implemented. These planning documents include habitat and/or species restoration plans; a short-term monitoring and maintenance program until habitat/species are established; land preservation exhibits with accompanying easement documents; and documents identifying the applicable management funding source.

Land preservation shall include the seven Spineflower Preserves, San Martinez Grande Adaptive Management Area (including Mariposa Lily Reserve), the Santa Clara River SMA/SEA, the High Country SMA/SEA, the Salt Creek area in Ventura County, and Open Area within tract boundaries. The total open space protected within the study area totals 9,417 acres. The dedications of these areas are as follows:

### **Spineflower Preserves**

The proposed Airport Mesa, Grapevine Mesa, Potrero, San Martinez Grande, Entrada, Magic Mountain, and Spring preserve areas would conserve spineflower locations at five out of the six known occurrences within Newhall Land property holdings in the project study area<sup>6</sup>. The seven preserve areas total approximately 226 acres and include approximately 76.1% of the cumulative area occupied by spineflower, as determined by surveys conducted from 2002 through 2007. A

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<sup>6</sup> The sixth occurrence of spineflower is within the VCC tract boundary. The SCP did not designate a preserve in this area.

## **Comprehensive Mitigation Implementation Plan Newhall Ranch – Resource Management and Development Plan**

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conservation area adjacent to the San Martinez Grande spineflower preserve has also been identified for adaptive management activities. Conservation Easements will be offered to CDFW prior to dedication of the land to Center for Natural Lands Management (CNLM).

Funding will be applied in accordance with the conditions required by the section 2081(b) ITP and MSAA. Newhall, will post short-term bonds (or other CDFW-approved financial assurance mechanisms) and fund endowments in perpetuity for the management, monitoring, and reporting measures described in *Sections 9.0, 10.0, and 11.0* of the SCP. Two bonds (or other CDFW-approved financial assurance mechanisms) will be posted: one for costs during construction and one-time start-up costs, and one for initial restoration activities. An endowment will be funded for long-term management, monitoring, and reporting costs to be expended in perpetuity.

### **Mariposa Lily Reserve**

Habitat replacement/enhancement for slender mariposa lily (*Calochortus clavatus* var. *gracilis*) will be at a ratio of 1:1 (acres restored/enhanced to acres impacted). In addition, a minimum of 133 acres of slender mariposa lily cumulative occupied area will be conserved in the RMDP and SCP project boundaries. At least 28 of the 133 acres will be conserved in the San Martinez Grande Canyon area, previously identified as mitigation for the Entrada South project.

### **Santa Clara River SMA/SEA (formerly referred to as the River Corridor SMA)**

- Upon final approval of the Specific Plan, the Special Management Area designation for the River Corridor SMA became effective. Newhall shall offer to the County a permanent, non-revocable conservation and public access easement shall be offered to the County and/or CDFW prior to completion of the Newhall Ranch Specific Plan buildout.
- The public access easements shall be dedicated in phases to the County upon completion of development of all land uses, utilities, roads, flood control improvements, bridges, trails, and other improvements necessary for implementation of the Specific Plan within the River Corridor SMA in each subdivision, allowing construction within or adjacent to the River Corridor SMA.
- Prior to the recordation of the River Corridor SMA Conservation and Public Access Easements, Newhall shall provide a plan to the County for the permanent ownership and management of the River Corridor SMA, including any necessary financing.
- The River Corridor SMA shall be transferred to the ownership of the CNLM or, if the CNLM is declared bankrupt or dissolved, ownership will transfer or revert to a joint powers authority consisting of the County (four members), the City of Santa Clarita (two members), and the Santa Monica Mountains Conservancy (two members).

# **Comprehensive Mitigation Implementation Plan Newhall Ranch – Resource Management and Development Plan**

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## **High Country SMA**

- Upon final approval of the Specific Plan, the Special Management Area designation for the High Country SMA became effective. A permanent, non-revocable conservation and public access easement shall be offered to the County, and a conservation and management easement offered to the CNLM.
- The High Country SMA shall be offered for dedication in permanent fee in three approximately equal phases of approximately 1,400 acres each as follows: (1) The first offer of dedication will take place with the issuance of the 2,000th residential building permit of Newhall Ranch. (2) The second offer of dedication will take place with the issuance of the 6,000th residential building permit of Newhall Ranch. (3) The remaining offer of dedication will be completed with the issuance of the 11,000th residential building permit of Newhall Ranch. and (4) The Specific Plan applicant shall provide a quarterly report to the Department of Public Works and Regional Planning that indicates the number of residential building permits issued in the Specific Plan area by subdivision map number.
- An appropriate type of service or assessment district shall be formed under the authority of the Los Angeles County Board of Supervisors for the collection of up to \$24 per single-family detached dwelling unit per year and \$15 per single-family attached dwelling unit per year, excluding any units designated as Low and Very Low affordable housing units pursuant to Section 3.10, Affordable Housing Program of the Specific Plan (County of Los Angeles 2003). This revenue will be assessed to the homeowner beginning with the occupancy of each dwelling unit and distributed to the joint powers authority for the purposes of recreation, maintenance, construction, conservation, and related activities within the High Country SMA. A JPA, the Newhall Ranch High Country Regional Conservation Authority (NRHCRCA), was formed in 2007.
- The High Country SMA shall be offered for dedication in permanent fee to a joint powers authority consisting of the County (four members), the City of Santa Clarita (two members), and the Santa Monica Mountains Conservancy (two members). The joint powers authority will have overall responsibility for recreation within and conservation of the High Country SMA.

## **Salt Creek Area**

- The 1,518-acre Salt Creek area shall be offered for dedication to the public pursuant to Condition 42 of the approved Specific Plan (County of Los Angeles 2003) using a “rough-step” land dedication approach.

## **Comprehensive Mitigation Implementation Plan Newhall Ranch – Resource Management and Development Plan**

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- Irrevocable offers of dedication will be provided to CDFW for identified impact offsets in accordance with Tables 2–11.
- The Salt Creek area will be managed in conjunction with the High Country SMA.

### **Open Area**

- At the time that final subdivision maps permitting construction are recorded, the Open Area within the map will be offered for dedication to a Natural Lands Management Organization (NLMO), such as the CNLM.
- Prior to the offer of dedication of Open Area to an NLMO, all necessary public access easements, as well as easements for infrastructure, shall be offered to the County and conservation easements or other restrictive covenants preserving conservation value of the areas to the benefit of CDFW.

# Comprehensive Mitigation Implementation Plan

## Newhall Ranch – Resource Management and Development Plan

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### 5 CONCEPTUAL MITIGATION IMPLEMENTATION

#### 5.1 Non-jurisdictional Resources

Tables 2 through 11 show the impacts to non-jurisdictional vegetation communities for each tract map and the WRP–Utility Corridor, as well as the mitigation ratios, required mitigation acreage, and proposed location of the corresponding mitigation acreage. Table 12 summarizes the permanent impacts and mitigation required by Project. Table 13 depicts the additional available mitigation within project open space. Figures 4 through 13 illustrate the location of the anticipated impacts on non-jurisdictional vegetation communities and proposed mitigation for each tract map. Figure 14 illustrates additional available mitigation within project open space. Figure 15 illustrates an overview of non-jurisdictional resources vegetation communities mitigation and remaining available mitigation within project open space.

Mitigation requirements are calculated based on ratios established in the RMDP/SCP. Resources that can be mitigated jointly are grouped together (e.g., California annual grassland, agriculture, and disturbed land are grouped).

Individual oak trees would be mitigated based on ratios in the County of Los Angeles Oak Tree Ordinance per the ORMP. Slender mariposa lilies would be mitigated with habitat replacement/enhancement at a 1:1 ratio (acres restored/enhanced to acres impacted). Individual undescribed everlasting (*Gnaphalium* sp. *nova*) would be planted and/or translocated at a minimum 1:1 ratio within suitable habitat at a site where no future construction-related disturbance will occur.

#### 5.2 Jurisdictional Streams, Waters, and Wetlands

Table 14 shows the RMDP impacts to jurisdictional wetland resources<sup>7</sup>. Table 15 shows the impacts to jurisdictional wetland resources for VCC and Entrada South. Table 16 shows the total impacts to wetland resources for RMDP, VCC, and Entrada South and associated required mitigation. Figures 16 through 25 illustrate the location of the planned wetland resources impacts and the quality of the jurisdictional resources for each tract map. Jurisdictional wetland resources are grouped according to habitat quality, which determines the mitigation ratio necessary to address any project-related impact those resources might sustain. Note that mitigation for wetland resource impacts involves both a creation component and a restoration/enhancement component. Specifically, all impacts to jurisdictional wetlands will require a minimum 1:1

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<sup>7</sup> The term “jurisdictional wetland resources” refers to the various habitats and vegetation communities located within riparian areas that meet the federal and/or state definition of wetlands, waters and streams.

## **Comprehensive Mitigation Implementation Plan Newhall Ranch – Resource Management and Development Plan**

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creation of new wetlands, plus additional requirements fulfilled through wetlands enhancement/restoration. Restoration mitigation ratios vary depending on (1) habitat quality and (2) when the restoration effort is completed in relation to commencement of project construction. If the restoration is completed 2 years or more prior to construction impact, the mitigation ratio is 1:1, regardless of the vegetation community affected or its habitat quality. However, if the restoration is completed *less* than 2 years in advance of impact, the mitigation must be implemented at a 1:1 to 2:1 ratio for low reach value communities; a 1:1 to 3:1 ratio for moderate reach value communities; and a 1:1 to 4:1 ratio for high reach value communities. Ratios are generally dependent upon the time it may require for restoration communities to function in a manner as those impacted, so that a predominately woody vegetation requires more time to become established, therefore requiring a higher ratio to offset the temporal loss of function. Other vegetation communities, such as riverwash, are essentially functioning in the same capacity as that which is impacted immediately upon creation, therefore justifying a 1:1 ratio.<sup>4</sup>

Temporary impacts to jurisdictional wetlands resources will be mitigated at a 1:1 ratio, generally in the same location as the resource impacted. In addition, due to the temporal loss associated with establishing replacement woodland communities as discussed above, temporary impacts to wetland communities where trees predominate in least Bell's vireo habitat areas along the river will be mitigated at a 2:1 ratio.

Within the Santa Clara River SMA/SEA, which is divided in this report by tract map, waters/wetlands mitigation is defined by type. Waters/wetlands mitigation within the Santa Clara River SMA/SEA is provided at like or greater habitat quality (i.e., medium-quality wetlands are mitigated by creation of medium- or high-quality wetlands). Waters/wetlands mitigation within the Open Area, at this point in time, can only be defined as channel or channel buffer. In general, channels are expected to support low- to high-quality waters/wetlands, whereas channel buffers are limited to medium-quality habitat (mainly big sagebrush scrub).

In total, the RMDP, VCC, and Entrada South projects would permanently disturb 89.77 acres of jurisdictional waters, wetlands and streambed and temporarily disturb 53.87 acres. Collectively, these impacts will require 222.46 acres of jurisdictional waters and wetlands creation, enhancement, and/or restoration, with a minimum creation of 89.77 acres (minimum creation ratio of 1:1). A total of 970.58 acres of post-project existing jurisdictional resources will be preserved.

To meet its mitigation requirements for impacts to jurisdictional resources, Newhall has identified locations for wetland creation, restoration, and enhancement. These are shown on Figure 26. Table 16 depicts the locations to implement mitigation for jurisdictional resources. Some of the wetland mitigation areas overlap with the RMDP preservation areas and thus represent opportunities for enhancement during mitigation implementation. The project would

## **Comprehensive Mitigation Implementation Plan Newhall Ranch – Resource Management and Development Plan**

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result in the creation of 327.11 acres of jurisdictional resources. A minimum creation of 89.77 acres is required. Thus, the project would create an excess of 293.91 acres of jurisdictional area on site, which would be capable of supporting riparian and wetland habitats. The project would also result in the enhancement of 712.91 acres along the Santa Clara River corridor through the conversion of non-native vegetated areas to native riparian habitats and exotic/invasive species removal and control. Approximately 94.10 acres would be restored along the Santa Clara River and tributaries, including restoration of temporary impact areas and reconstruction of portions of Chiquito Canyon, Lion Canyon, Long Canyon, Potrero Canyon, San Martinez Grande Canyon and the Santa Clara River.

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Newhall Ranch – Resource Management and Development Plan**

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## **6 SUBSTANTIAL CONFORMANCE**

The presentation of mitigation in this document is conceptual and programmatic and is based on some general assumptions that will require more specification in the future (e.g., tributary channel wetlands mitigation design). Likewise, much of the proposed mitigation is dependent on the implementation of RMDP infrastructure. The timing of this infrastructure construction in relation to the timing of impacts cannot be precisely defined at this time. Therefore, although this document presents impacts and mitigation in the sequence in which they are planned to occur, this sequence, and thus the proposed mitigation for each impact, may change during implementation. All proposed mitigation will be subject to review in accordance with the RMDP Subnotification procedures, which do not include conformance with this CMIP.

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Newhall Ranch – Resource Management and Development Plan**

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# Comprehensive Mitigation Implementation Plan Newhall Ranch – Resource Management and Development Plan

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## 7 LITERATURE CITED

- Carpenter, M. 2011. "Final Newhall Ranch Project Description." Attachment 3 to Letter from M. Carpenter (Newhall) to A. Allen. August 2011.
- Corps and CDFG (U.S. Army Corps of Engineers and California Department of Fish and Game). 2010. *Newhall Ranch Resource Management and Development Plan and Spineflower Conservation Plan Final Joint Environmental Impact Statement and Environmental Impact Report*. SCH. No. 2000011025. 7 vols. June 2010.
- County of Los Angeles. 2003. *Newhall Ranch Specific Plan*. Project No. 94087, SCH No. 95011015. 2 vols, May 27, 2003. Prepared by Forma for the County of Los Angeles Department of Regional Planning. Irvine, California: Forma.
- County of Los Angeles. 2003b. *Newhall Ranch Specific Plan Environmental Impact Report*.
- Dudek. 2007. *Draft Middle Canyon Spring Survey and Status Report. Prepared for Newhall Land and Farming*. Valencia, California: Dudek. August 2007.
- PWA (Philip Williams and Associates). 2008. Draft Memorandum: "Geomorphic Monitoring of Newhall Tributaries." October 20, 2008. San Francisco, California: PWA.

**Comprehensive Mitigation Implementation Plan  
Newhall Ranch – Resource Management and Development Plan**

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# **APPENDIX A**

*Figures and Tables*





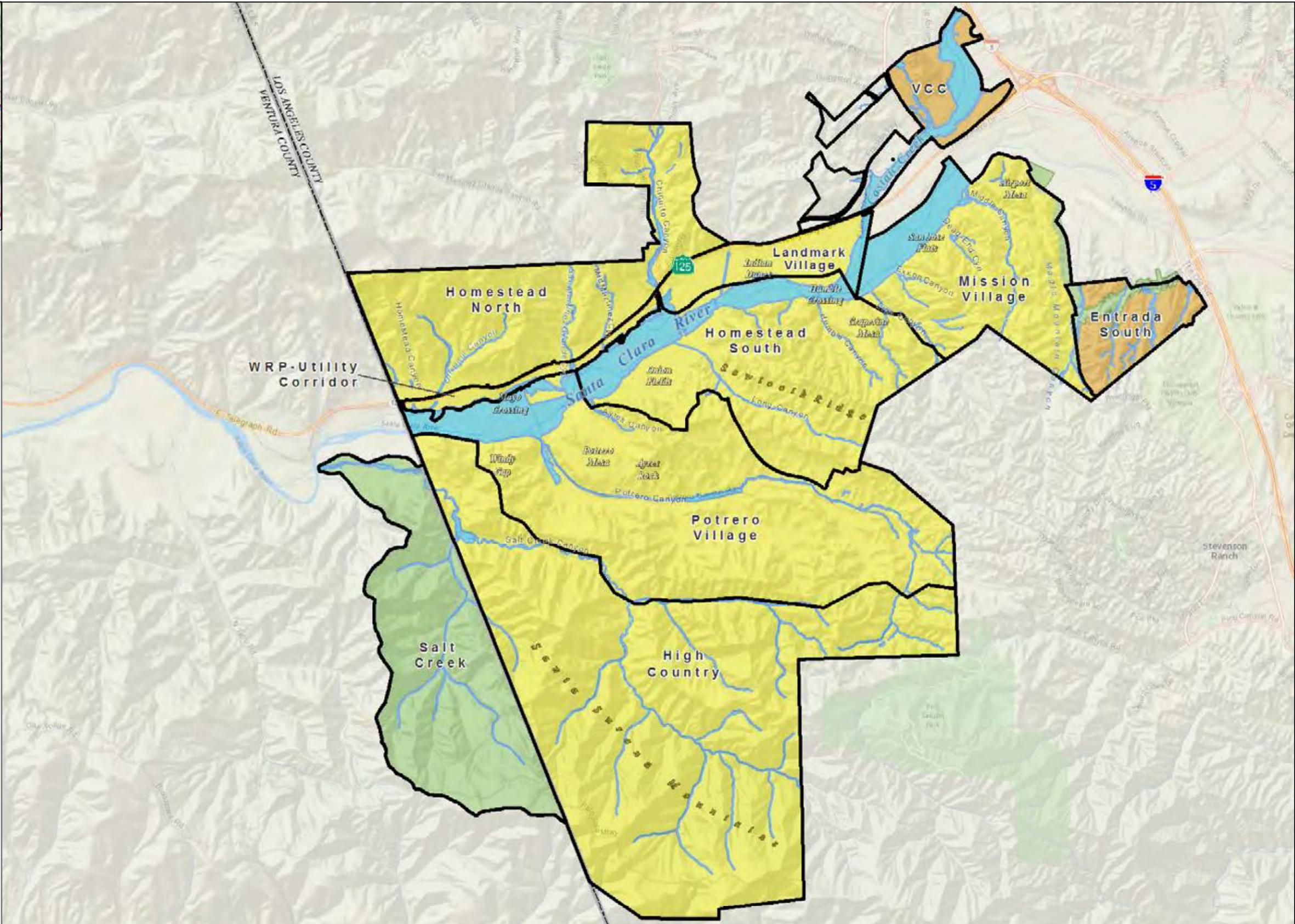
## APPENDIX A (Continued)

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- Village Boundary
- Newhall Ranch Specific Plan (NRSP)
- Area in addition to NRSP within RMDP
- Area in addition to NRSP and RMDP within SCP
- CDFW Jurisdictional Area



SOURCE: Bing Maps Aerial, Newhall Alternative 13 LEDPA Development Plan



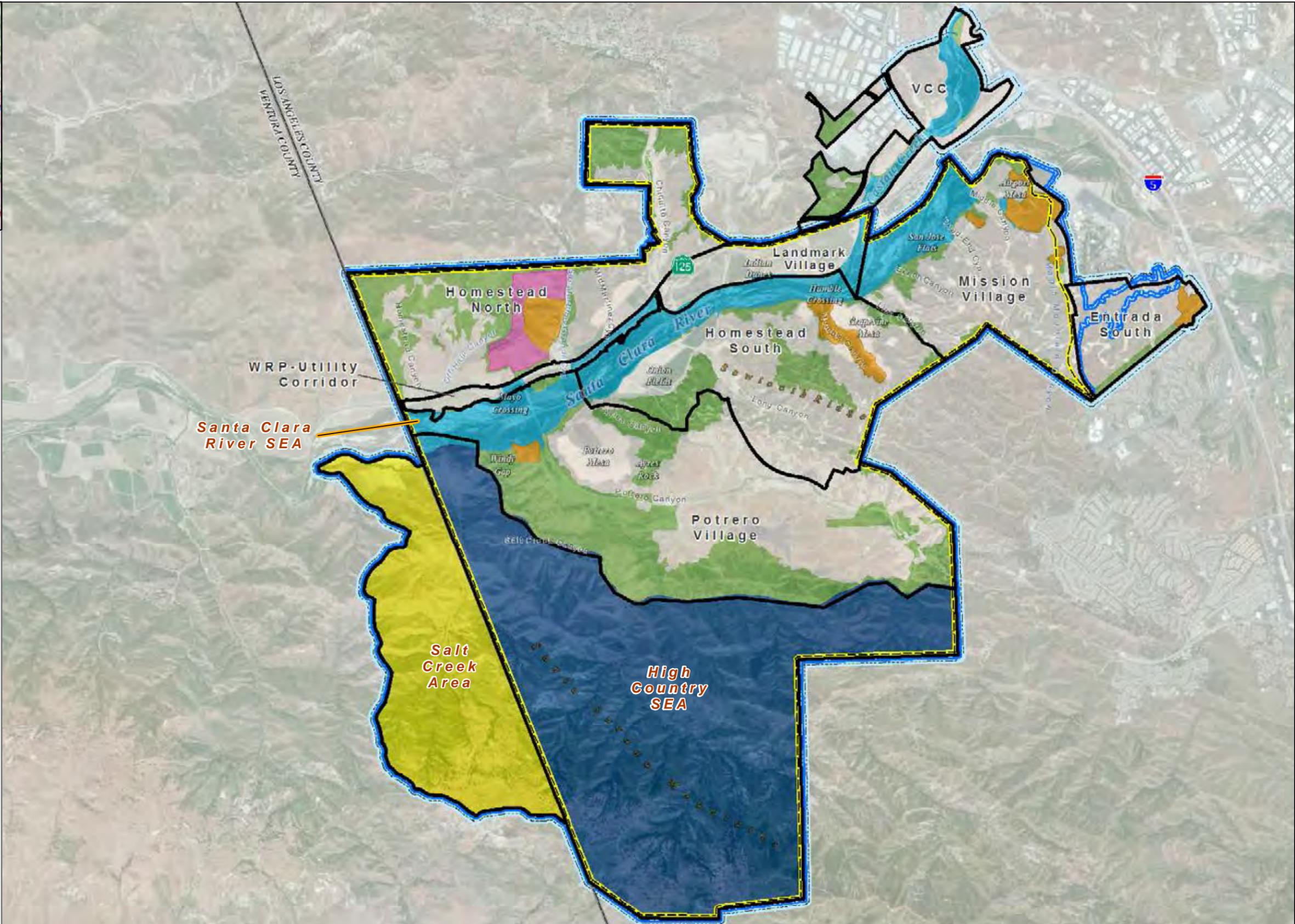
**FIGURE 2**  
Study Areas

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- Newhall Ranch Specific Plan (NRSP)
- Resource Mgmt Development Plan (RMDP)
- Spineflower Conservation Plan (SCP)
- Village Boundary
- Preserved Area
- Spineflower Preserve
- Mariposa Lily Reserve
- Open Area in Tract Maps
- Salt Creek Area
- Significant Ecological Area (SEA)
- Santa Clara River SEA
- Santa Susana Mountains/Semi Hills SEA



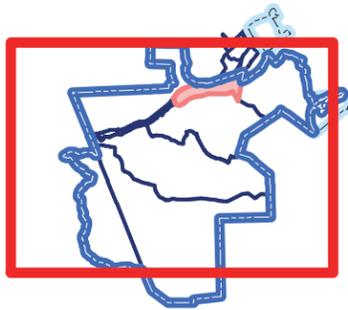
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SOURCE: Bing Maps Aerial, Newhall Alternative 13 LEDPA Development Plan

**FIGURE 3**  
Preservation Areas

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- RMDP Boundary
- SCP Boundary
- Village Boundary
- Development Impacts

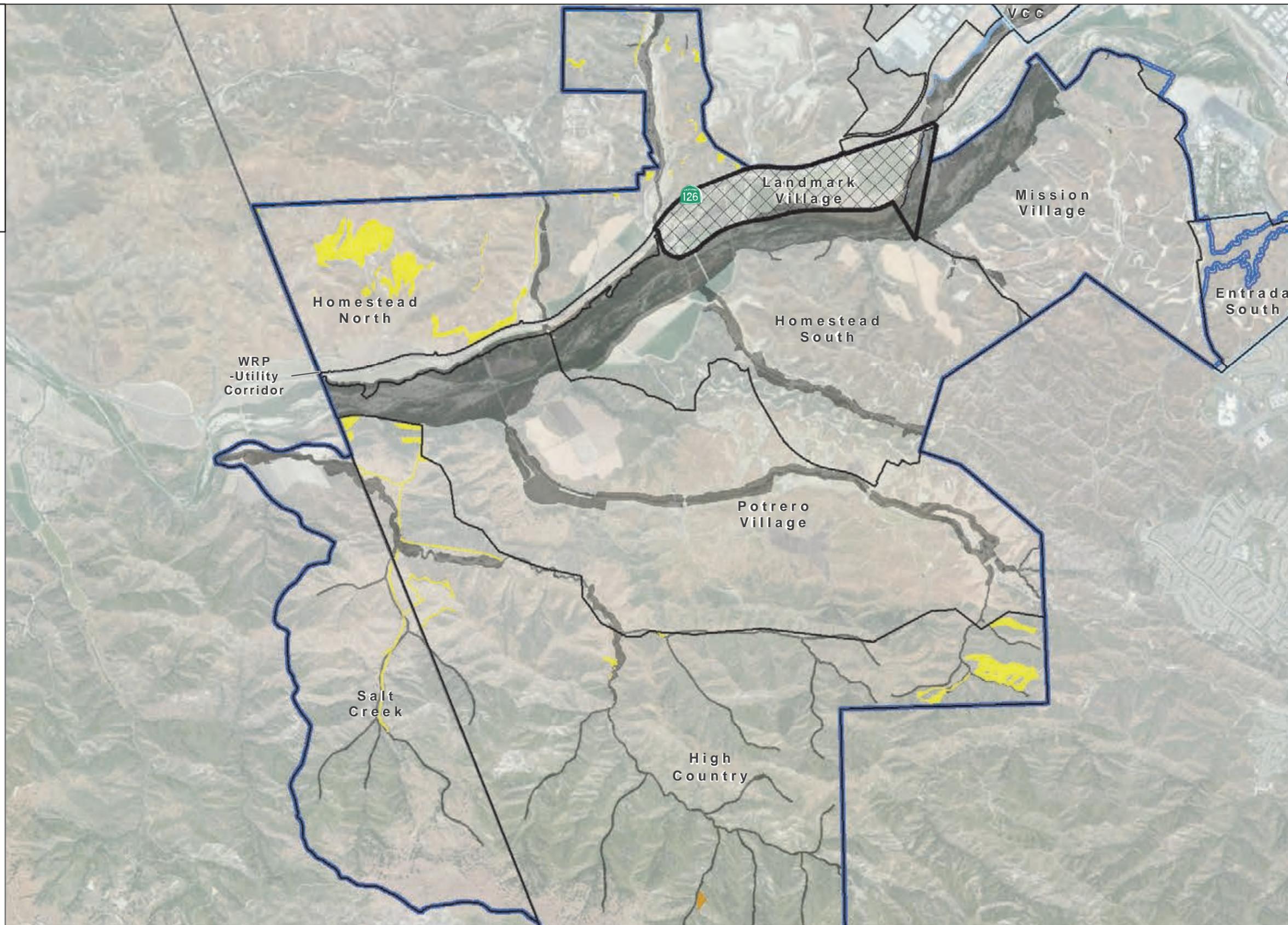
**Mitigation**

**Non-Jurisdictional Resources**

- CGL, AG, DL
- Coastal Scrub
- Non-Jurisdictional Riparian

**Jurisdictional Resources**

- Areas for Jurisdictional Mitigation



0 2,000 4,000 Feet

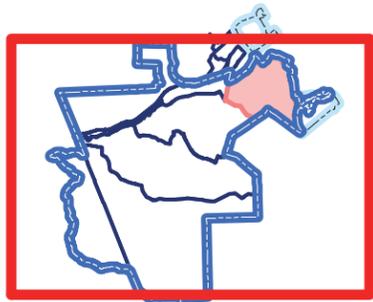
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**FIGURE 4**  
Landmark Village Non-Jurisdictional (Trustee) Resources Mitigation

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- RMDP Boundary
- SCP Boundary
- Village Boundary
- Development Impacts

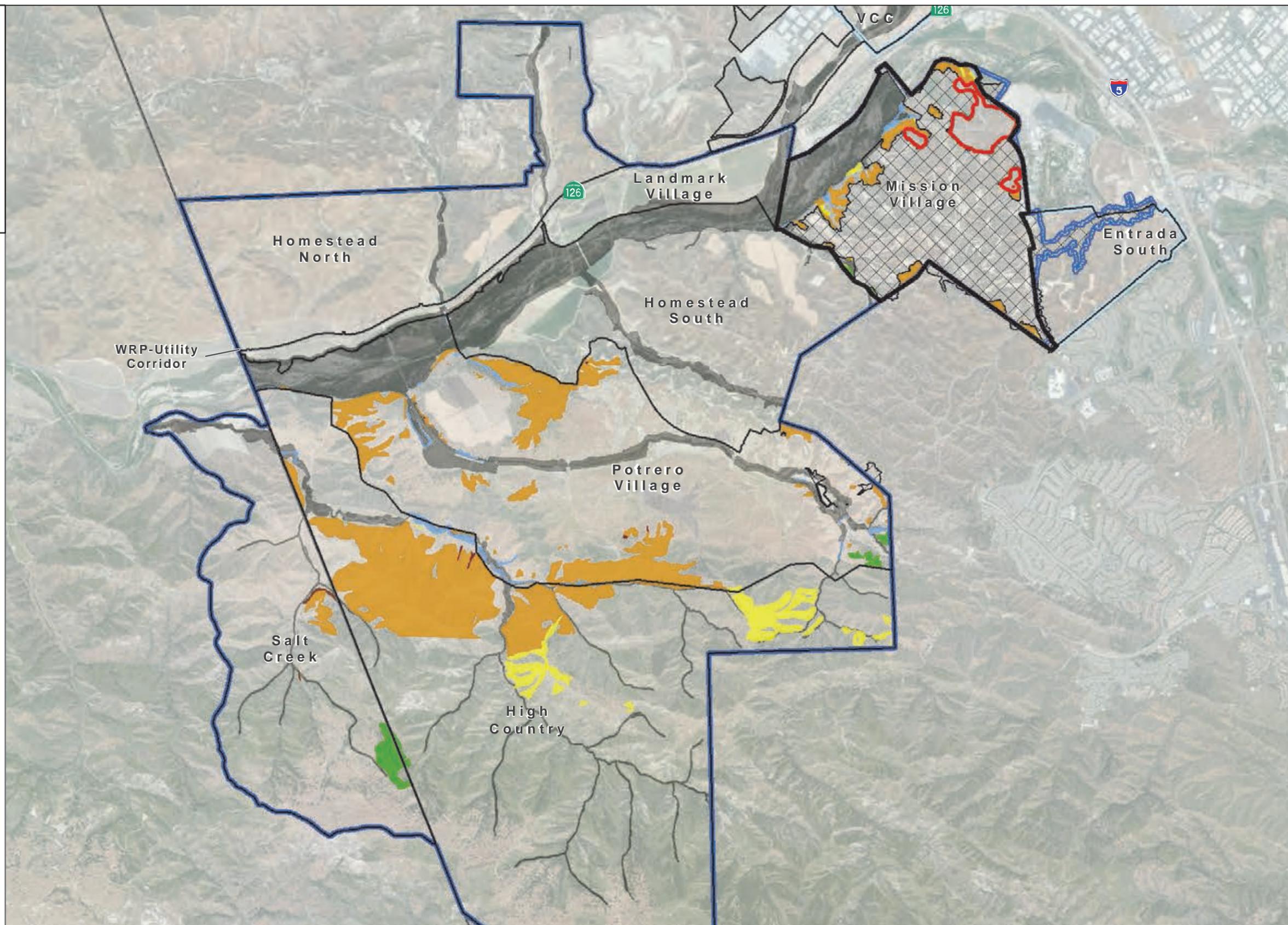
**Mitigation**

**Non-Jurisdictional Resources**

- CGL, AG, DL
- Chaparral
- Coastal Scrub
- Non-Jurisdictional Riparian
- Oak Woodland
- Other Woodland
- Spineflower Preserve

**Jurisdictional Resources**

- Areas for Jurisdictional Mitigation



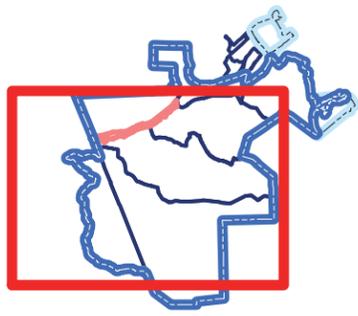
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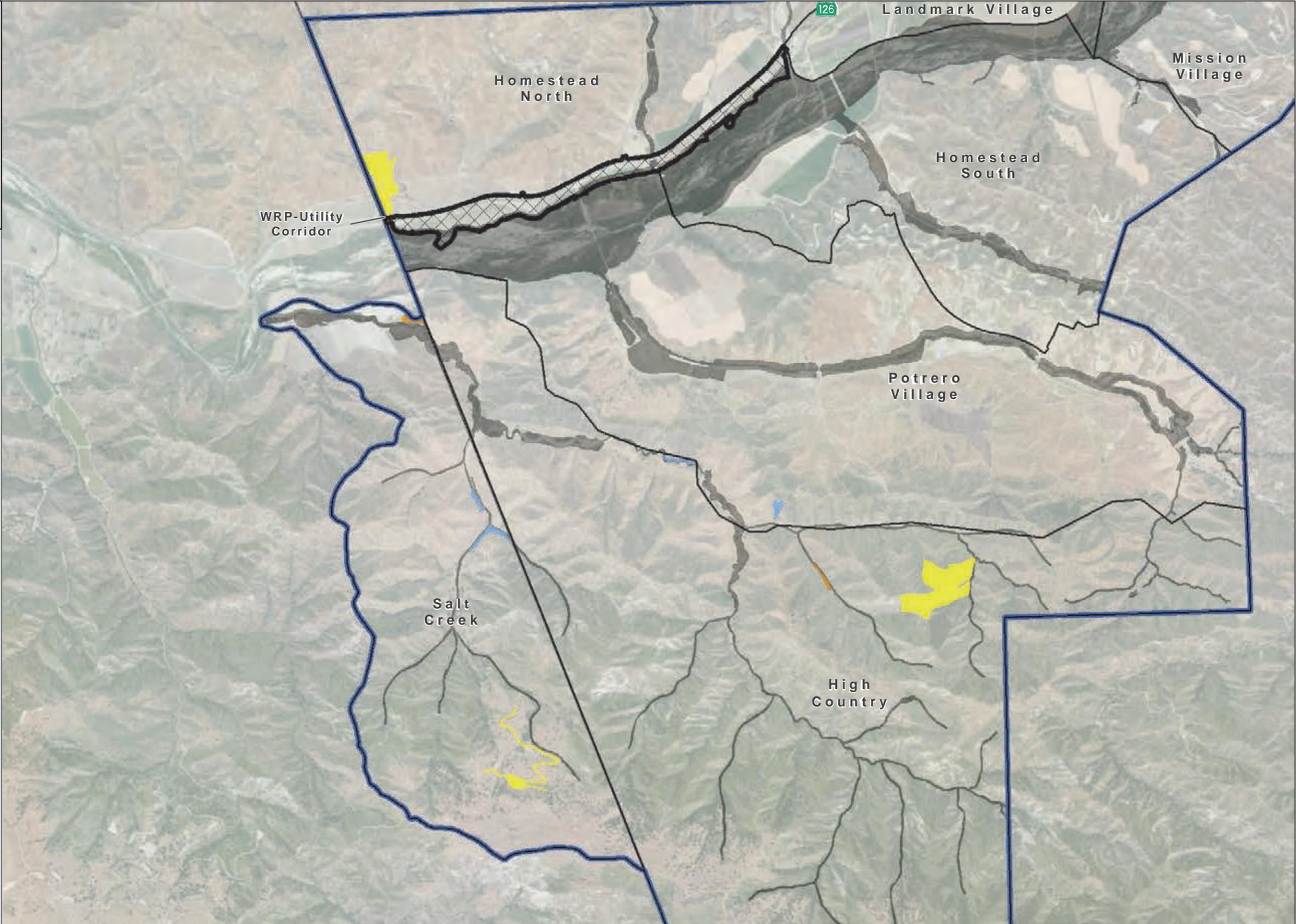
**FIGURE 5**  
Mission Village Non-Jurisdictional (Trustee) Resources Mitigation

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- RMDP Boundary
- SCP Boundary
- Village Boundary
- Development Impacts
- Mitigation**
- Non-Jurisdictional Resources**
- CGL, AG, DL
- Coastal Scrub
- Non-Jurisdictional Riparian
- Jurisdictional Resources**
- Areas for Jurisdictional Mitigation



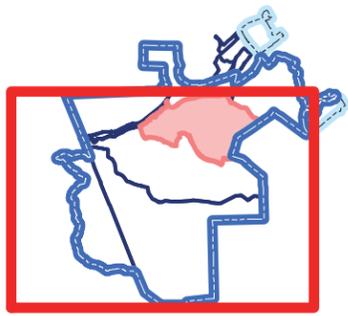
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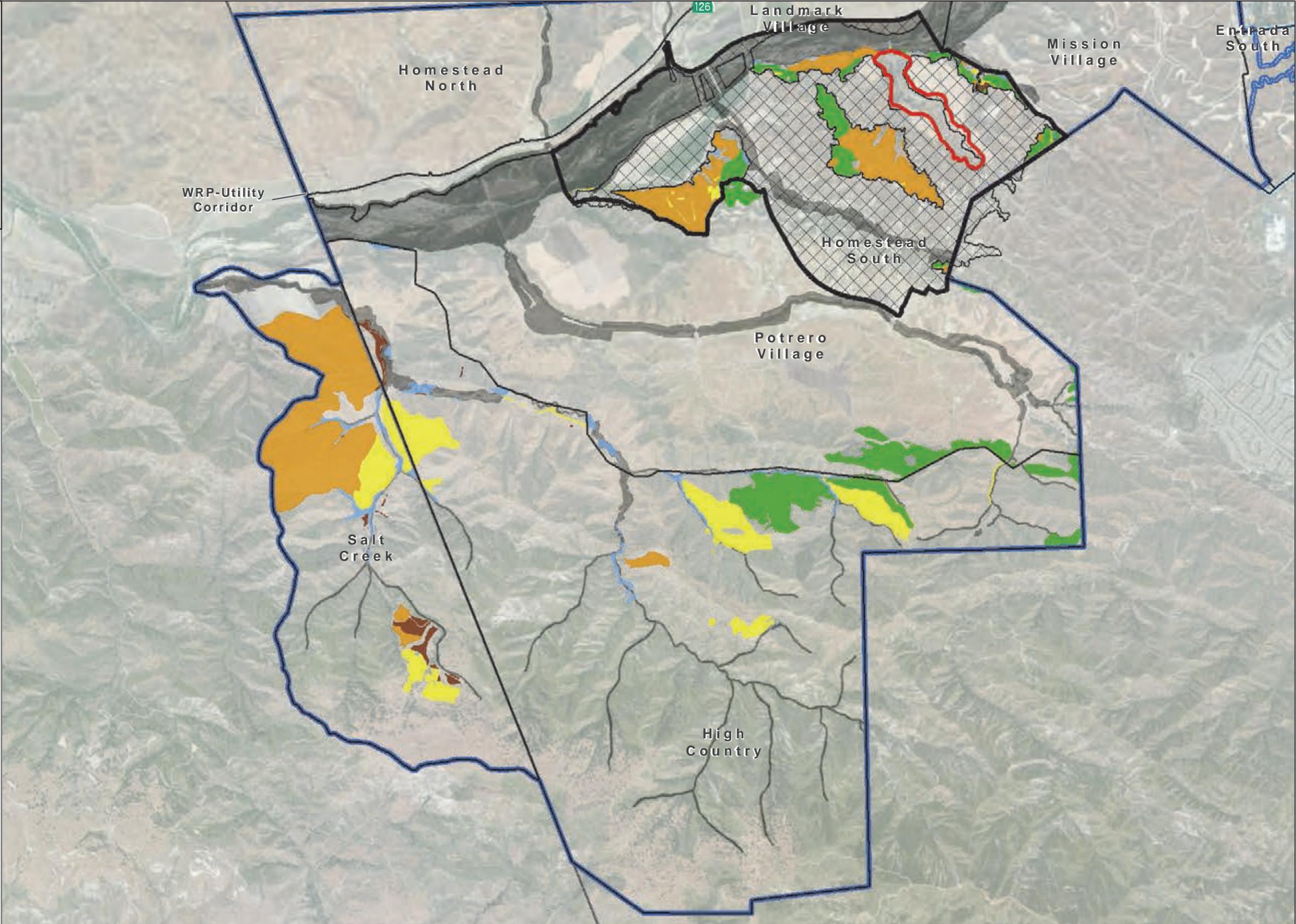
**FIGURE 6**  
WRP-Utility Corridor Non-Jurisdictional (Trustee) Resources Mitigation

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- RMDP Boundary
- SCP Boundary
- Village Boundary
- Development Impacts
- Mitigation**
- Non-Jurisdictional Resources**
- CGL, AG, DL
- Chaparral
- Coastal Scrub
- Non-Jurisdictional Riparian
- Oak Woodland
- Other Woodland
- Spineflower Preserve
- Jurisdictional Resources**
- Areas for Jurisdictional Mitigation



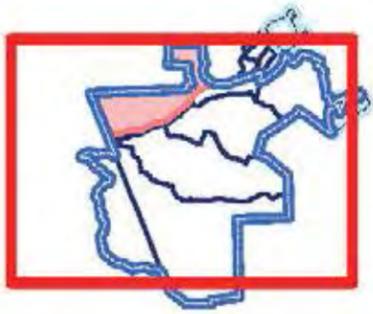
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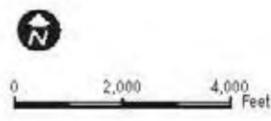
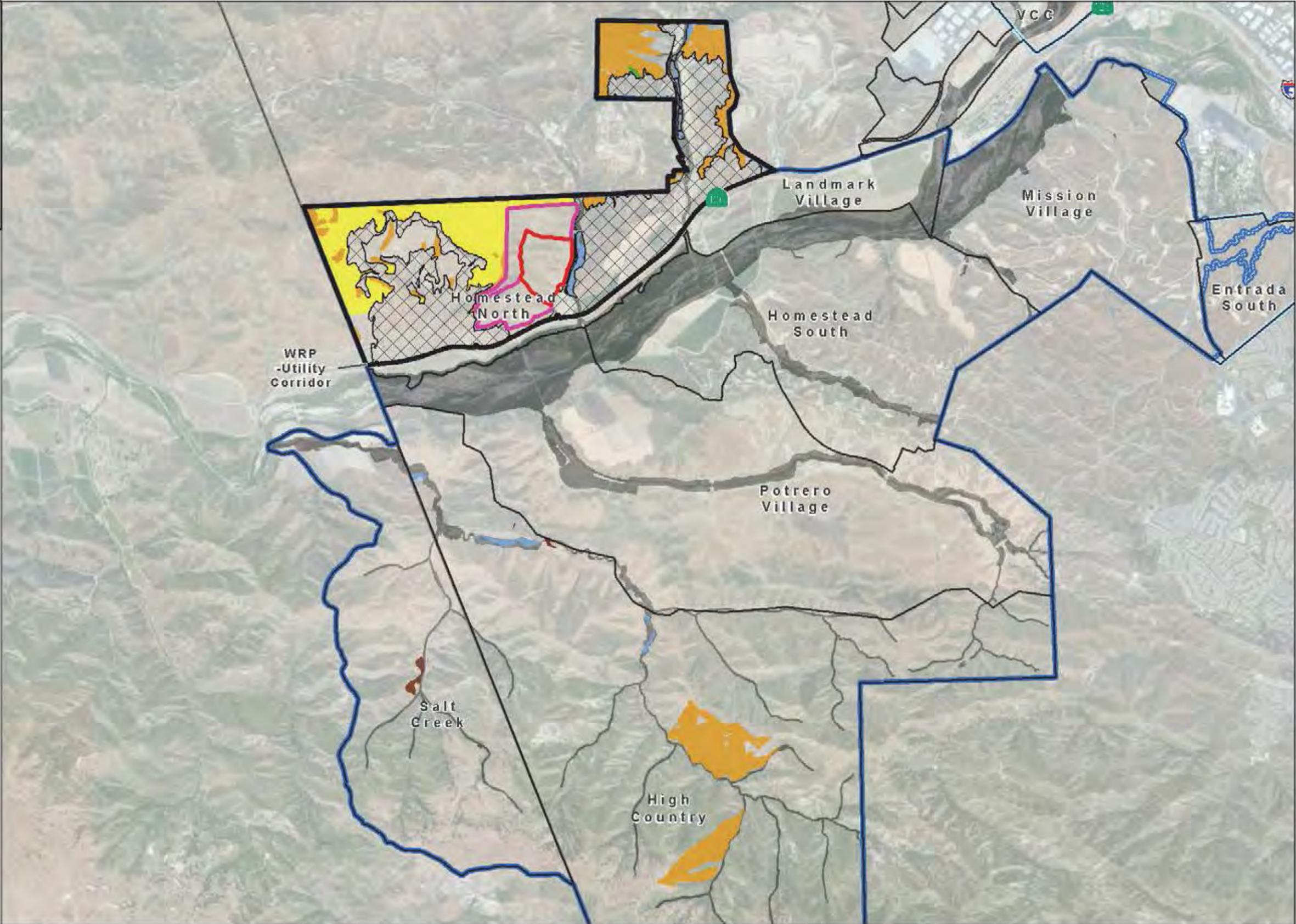
**FIGURE 7**  
Homestead South Non-Jurisdictional (Trustee) Resources Mitigation

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- RMDP Boundary
- SCP Boundary
- Village Boundary
- Development Impacts
- Mitigation**
- Non-Jurisdictional Resources**
- CGL, AG, DL
- Chaparral
- Coastal Scrub
- Non-Jurisdictional Riparian
- Oak Woodland
- Other Woodland
- Spineflower Preserve
- SMG Lily Reserve Area
- Jurisdictional Resources**
- Areas for Jurisdictional Mitigation



AERIAL SOURCE: ESRI ArcGIS Online World Imagery

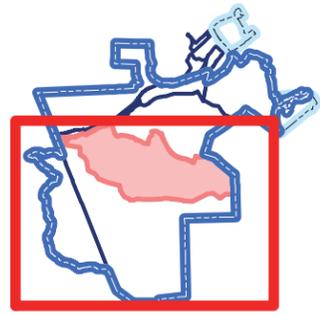


**FIGURE 8**  
Homestead North Non-Jurisdictional (Trustee) Resources Mitigation

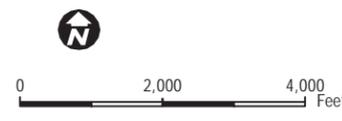
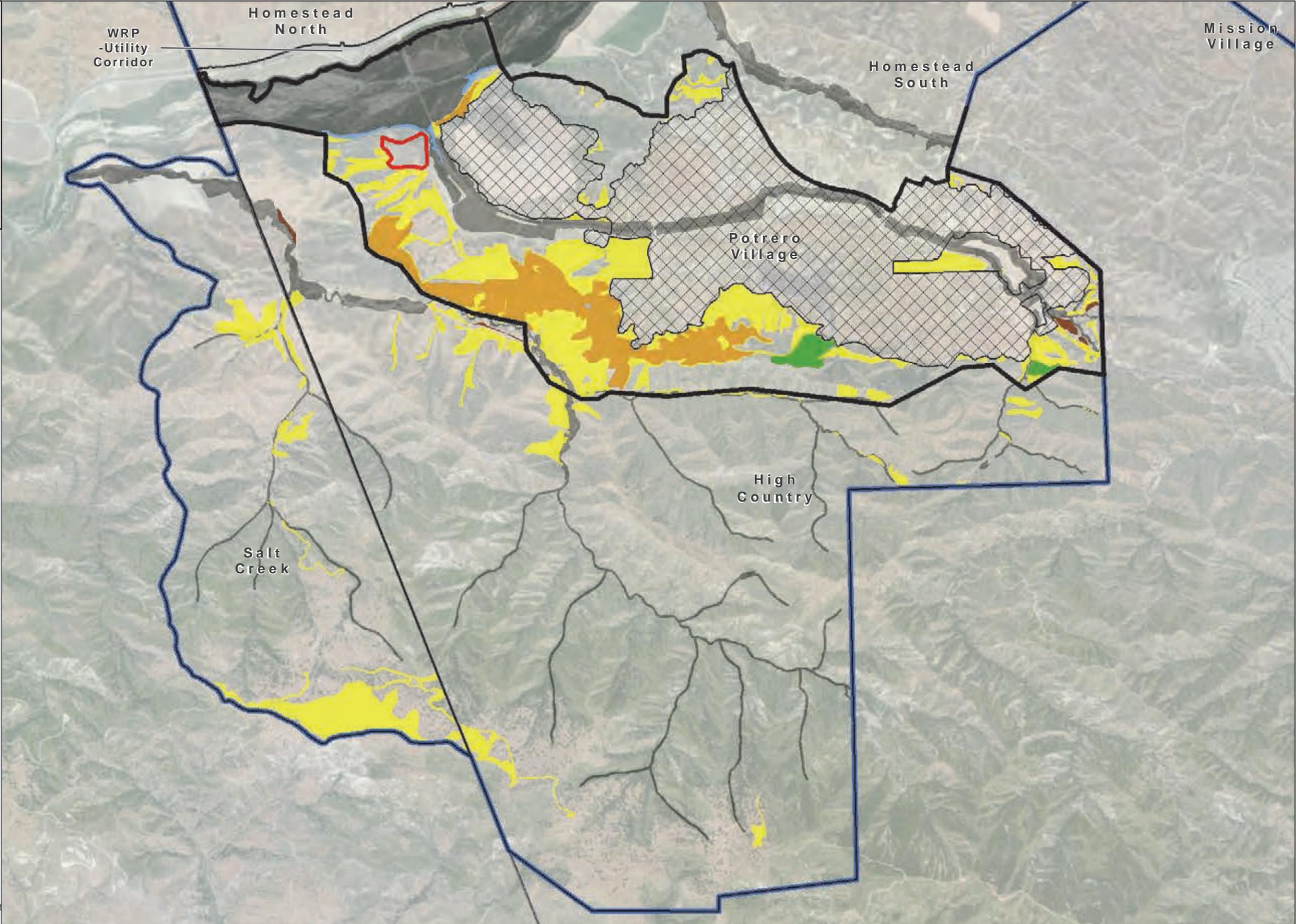
Comprehensive Mitigation Implementation Plan for Newhall Ranch

SOURCE: ESRI ArcGIS Online World Imagery; DATE: 10/20/2014; PROJECT: NEWHALL RANCH; FIGURE 8: HOMESTEAD NORTH NON-JURISDICTIONAL (TRUSTEE) RESOURCES MITIGATION

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- RMDP Boundary
- SCP Boundary
- Village Boundary
- Development Impacts
- Mitigation**
- Non-Jurisdictional Resources**
- CGL, AG, DL
- Chaparral
- Coastal Scrub
- Non-Jurisdictional Riparian
- Oak Woodland
- Other Woodland
- Spineflower Preserve
- Jurisdictional Resources**
- Areas for Jurisdictional Mitigation



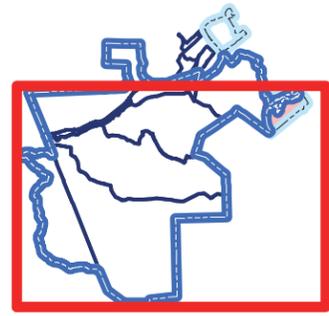
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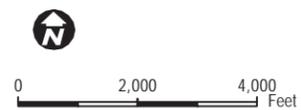
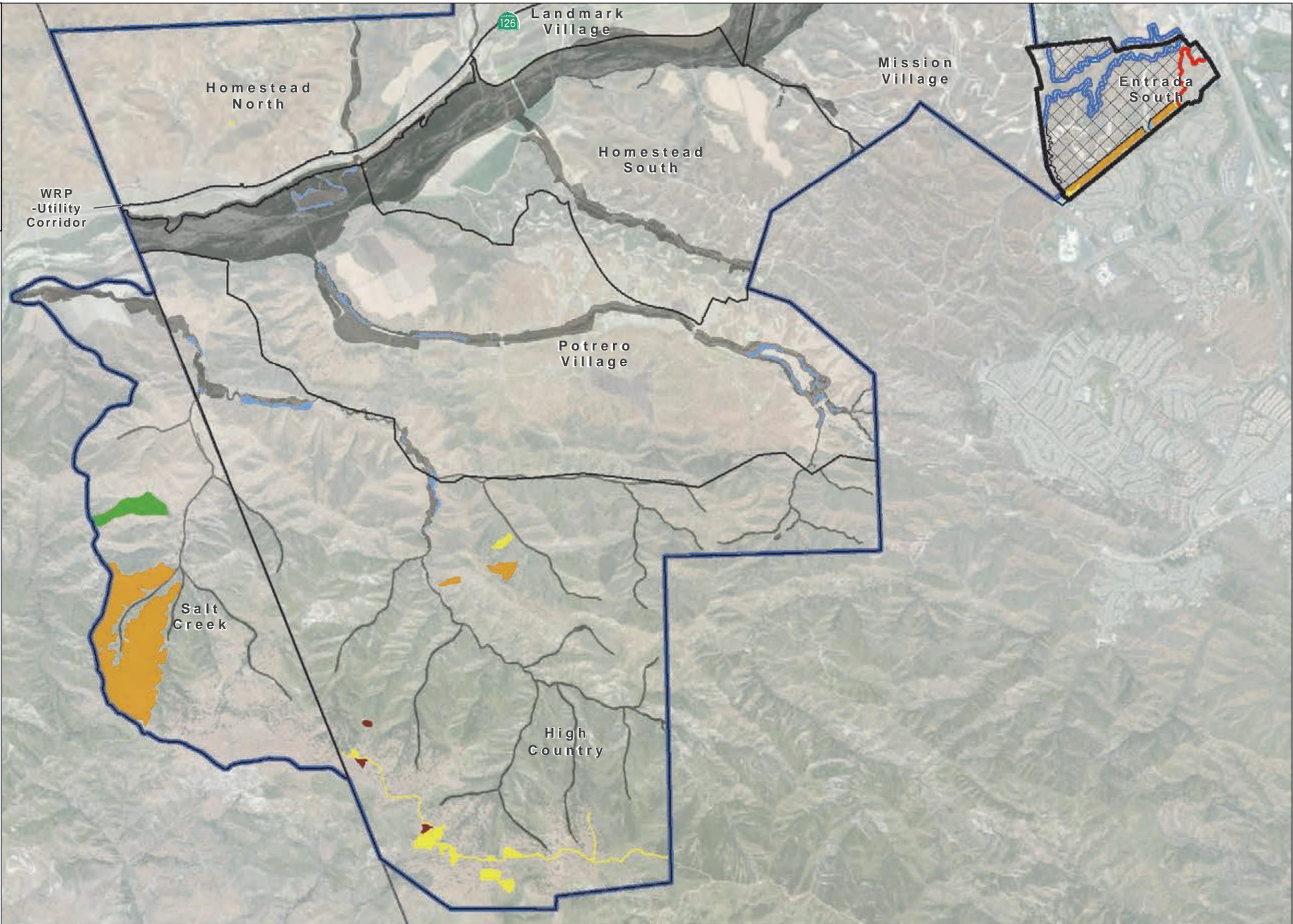
**FIGURE 9**  
Potrero Village Non-Jurisdictional (Trustee) Resources Mitigation

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- RMDP Boundary
- SCP Boundary
- Village Boundary
- Development Impacts
- Mitigation**
- Non-Jurisdictional Resources**
- CGL, AG, DL
- Chaparral
- Coastal Scrub
- Non-Jurisdictional Riparian
- Other Woodland
- Spineflower Preserve
- Jurisdictional Resources**
- Areas for Jurisdictional Mitigation



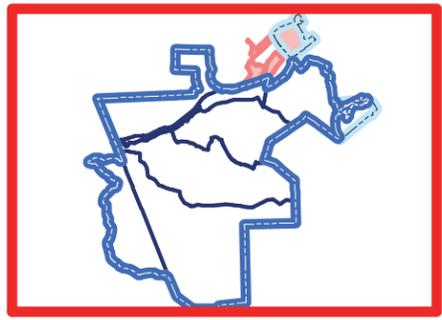
AERIAL SOURCE: ESRI ArcGIS Online World Imagery



**FIGURE 10**  
Entrada South Non-Jurisdictional (Trustee) Resources Mitigation

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- RMDP Boundary
- SCP Boundary
- Village Boundary
- Development Impacts

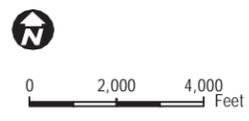
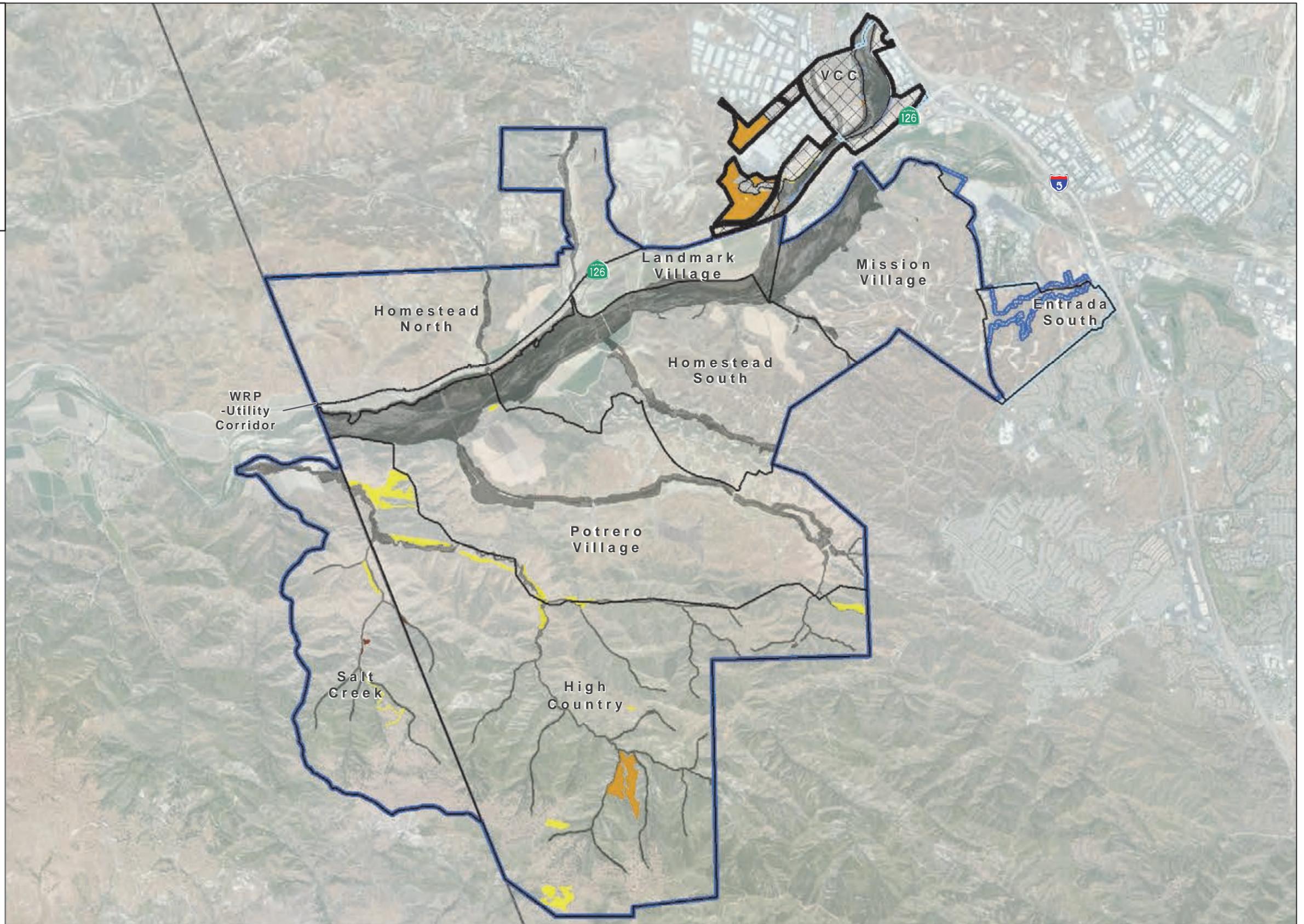
**Mitigation**

**Non-Jurisdictional Resources**

- CGL, AG, DL
- Chaparral
- Coastal Scrub
- Non-Jurisdictional Riparian
- Oak Woodland

**Jurisdictional Resources**

- Areas for Jurisdictional Mitigation



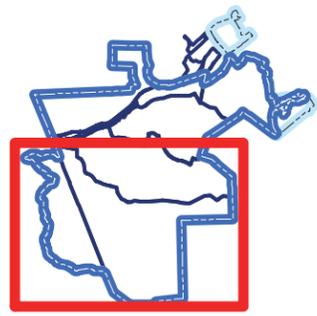
AERIAL SOURCE: ESRI ArcGIS Online World Imagery



**FIGURE 11**  
VCC Non-Jurisdictional (Trustee) Resources Mitigation

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-  RMDP Boundary
-  SCP Boundary
-  Village Boundary
-  Development Impacts

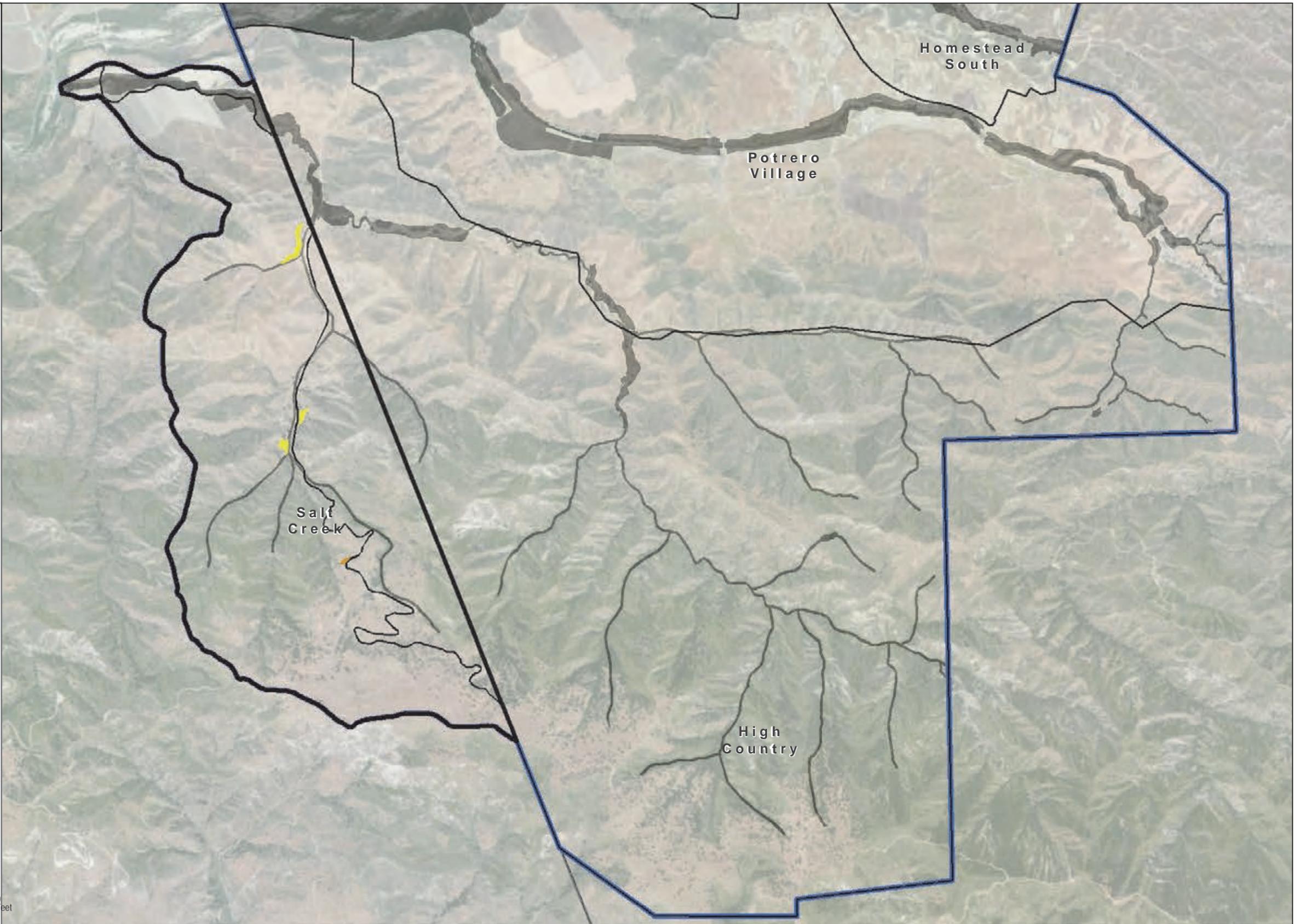
**Mitigation**

**Non-Jurisdictional Resources**

-  CGL, AG, DL
-  Coastal Scrub
-  Non-Jurisdictional Riparian

**Jurisdictional Resources**

-  Areas for Jurisdictional Mitigation



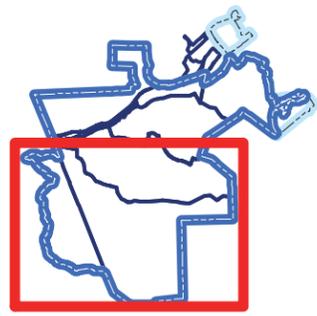
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AERIAL SOURCE: ESRI ArcGIS Online World Imagery

**FIGURE 12**  
Salt Creek Non-Jurisdictional (Trustee) Resources Mitigation

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-  RMDP Boundary
-  SCP Boundary
-  Village Boundary
-  Development Impacts

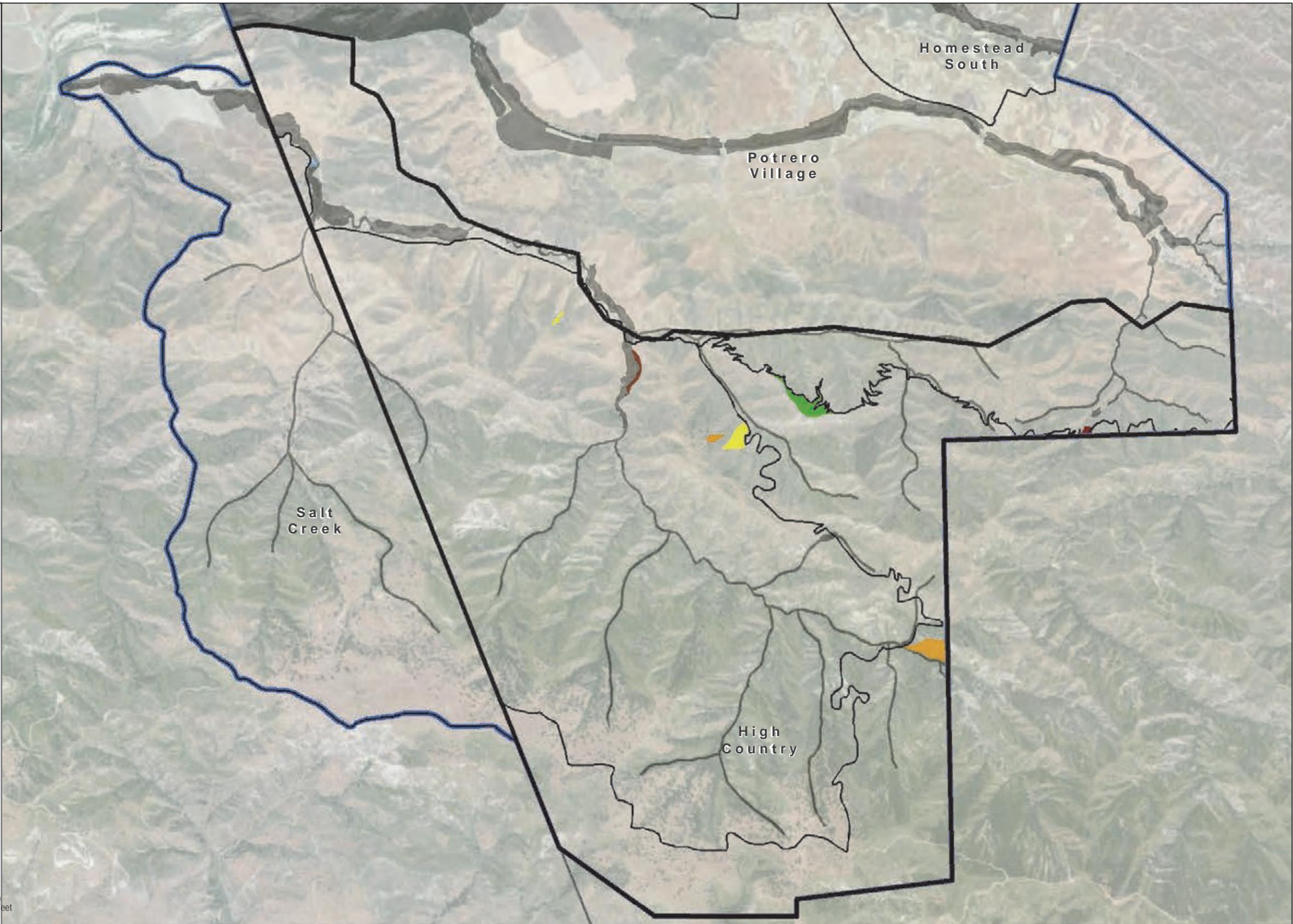
**Mitigation**

**Non-Jurisdictional Resources**

-  CGL, AG, DL
-  Chaparral
-  Coastal Scrub
-  Non-Jurisdictional Riparian
-  Oak Woodland
-  Other Woodland

**Jurisdictional Resources**

-  Areas for Jurisdictional Mitigation



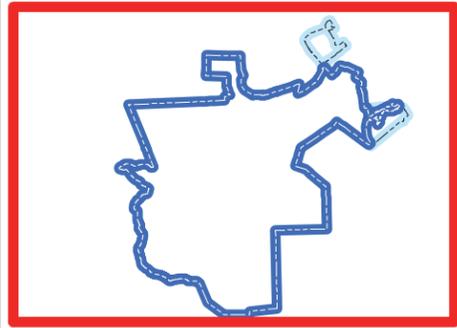
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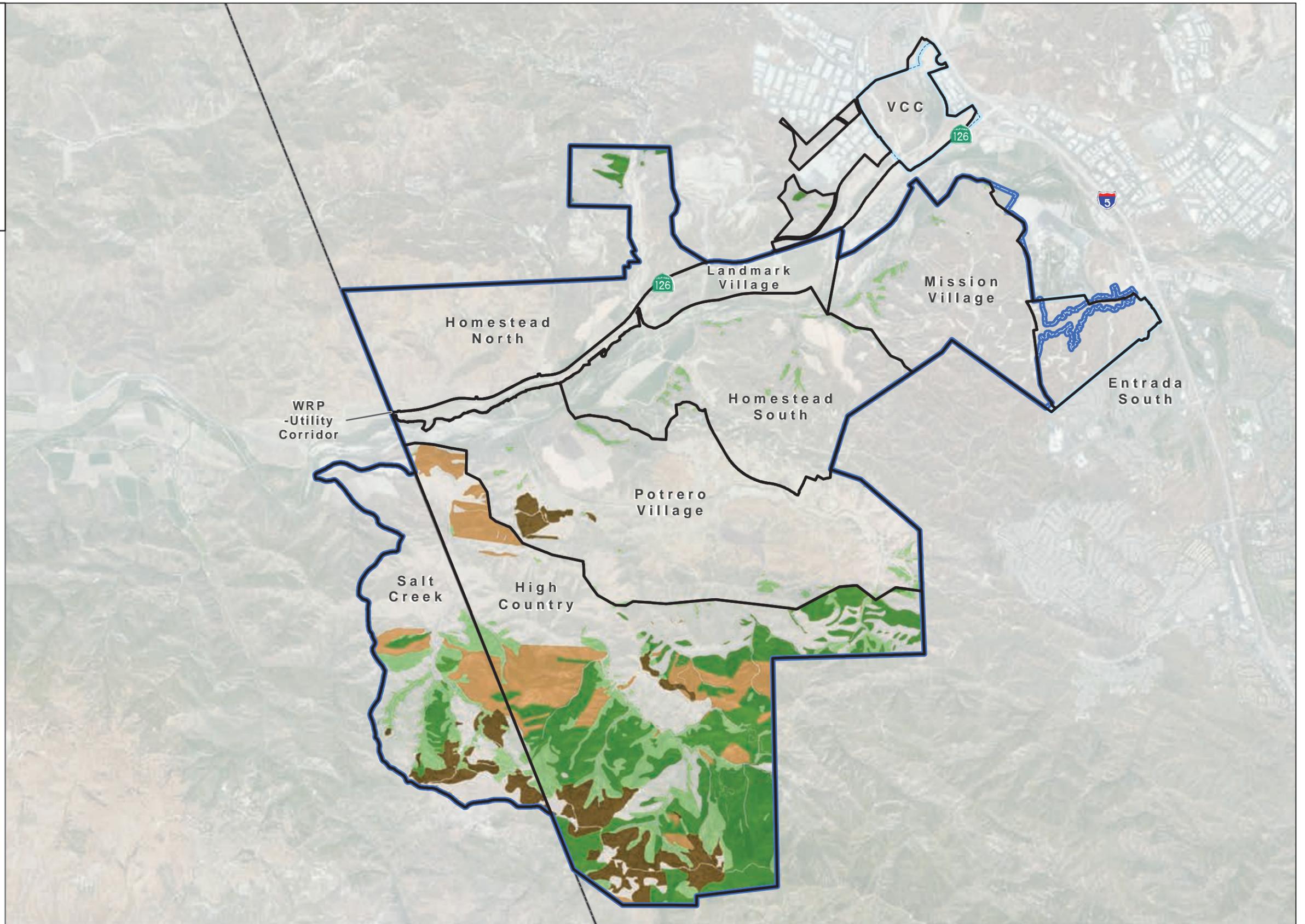
AERIAL SOURCE: ESRI ArcGIS Online World Imagery

**FIGURE 13**  
High Country Non-Jurisdictional (Trustee) Resources Mitigation

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-  RMDP Boundary
-  SCP Boundary
-  Village Boundary
- Remaining Available Non-Jurisdictional Resources**
-  Chaparral
-  Coastal Scrub
-  Oak Woodland
-  Other Woodland



SOURCE: ESRI ArcGIS Online World Imagery Basemap

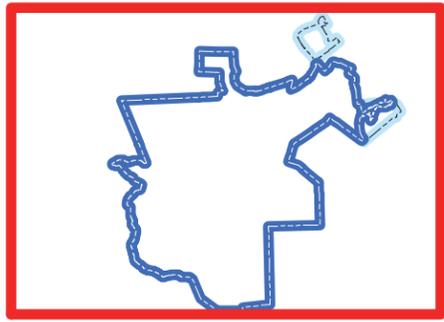


**FIGURE 14**  
Remaining Available Non-Jurisdictional Resources

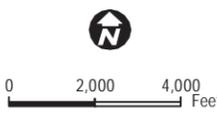
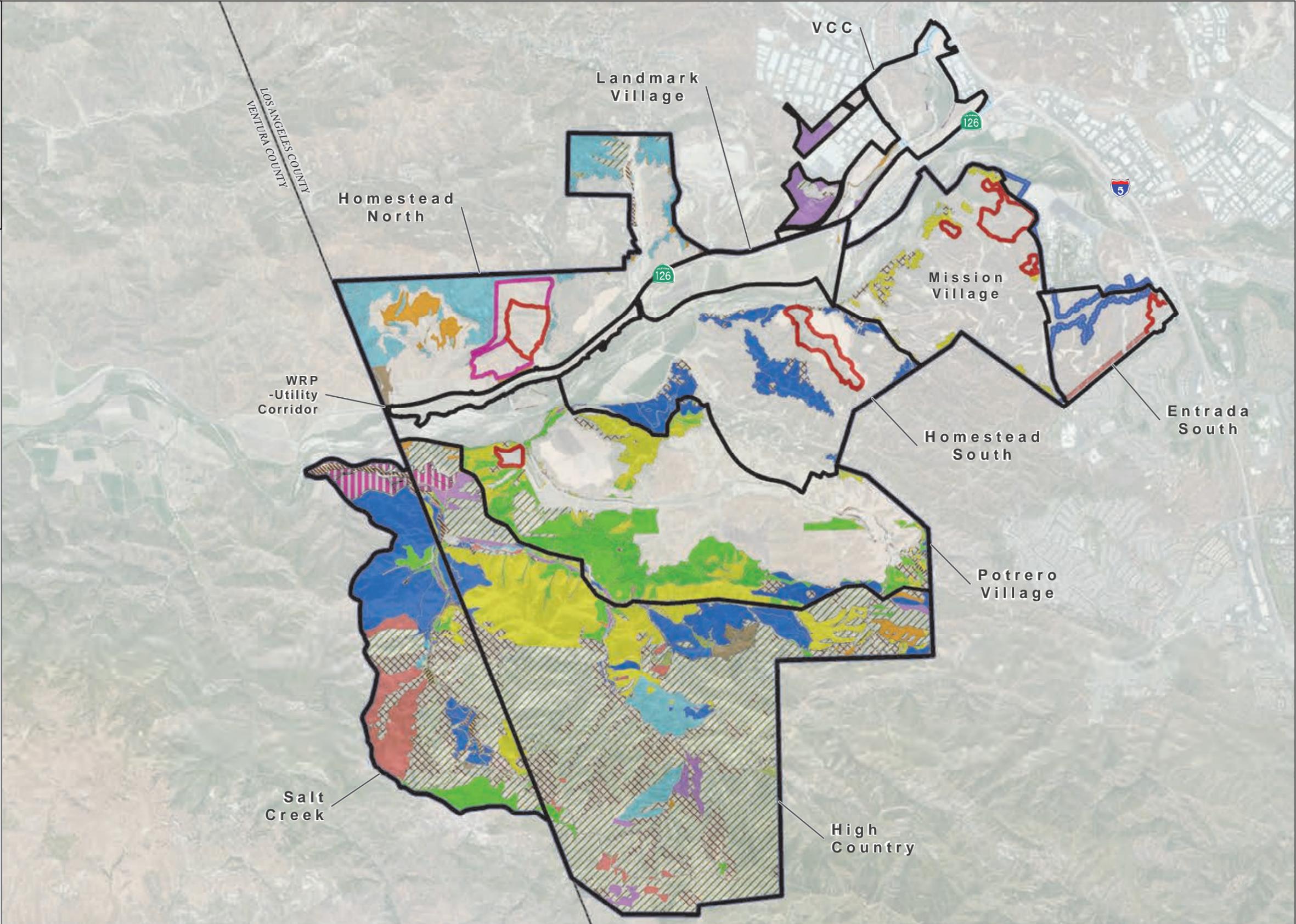
Comprehensive Mitigation Implementation Plan for Newhall Ranch

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- RMDP Boundary
  - SCP Boundary
  - Village Boundary
  - Spineflower Preserve
  - SMG Lily Reserve Area
  - Potential CSB or Lily Mitigation
- Non-Jurisdictional Mitigation For:
- Landmark Village
  - Mission Village
  - WRP-Utility Corridor
  - Homestead South
  - Homestead North
  - Potrero Village
  - Entrada South
  - VCC
  - Salt Creek
  - High Country
- Remaining ORMP Selected Mitigation Areas
- Oak Woodland Creation
  - Oak Woodland Enhancement
- Remaining Available Resources
- Chaparral, Coastal Scrub, Woodland
  - Oak Woodland



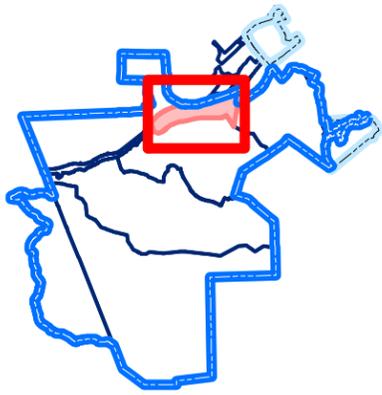
SOURCE: ESRI ArcGIS Online World Imagery Basemap



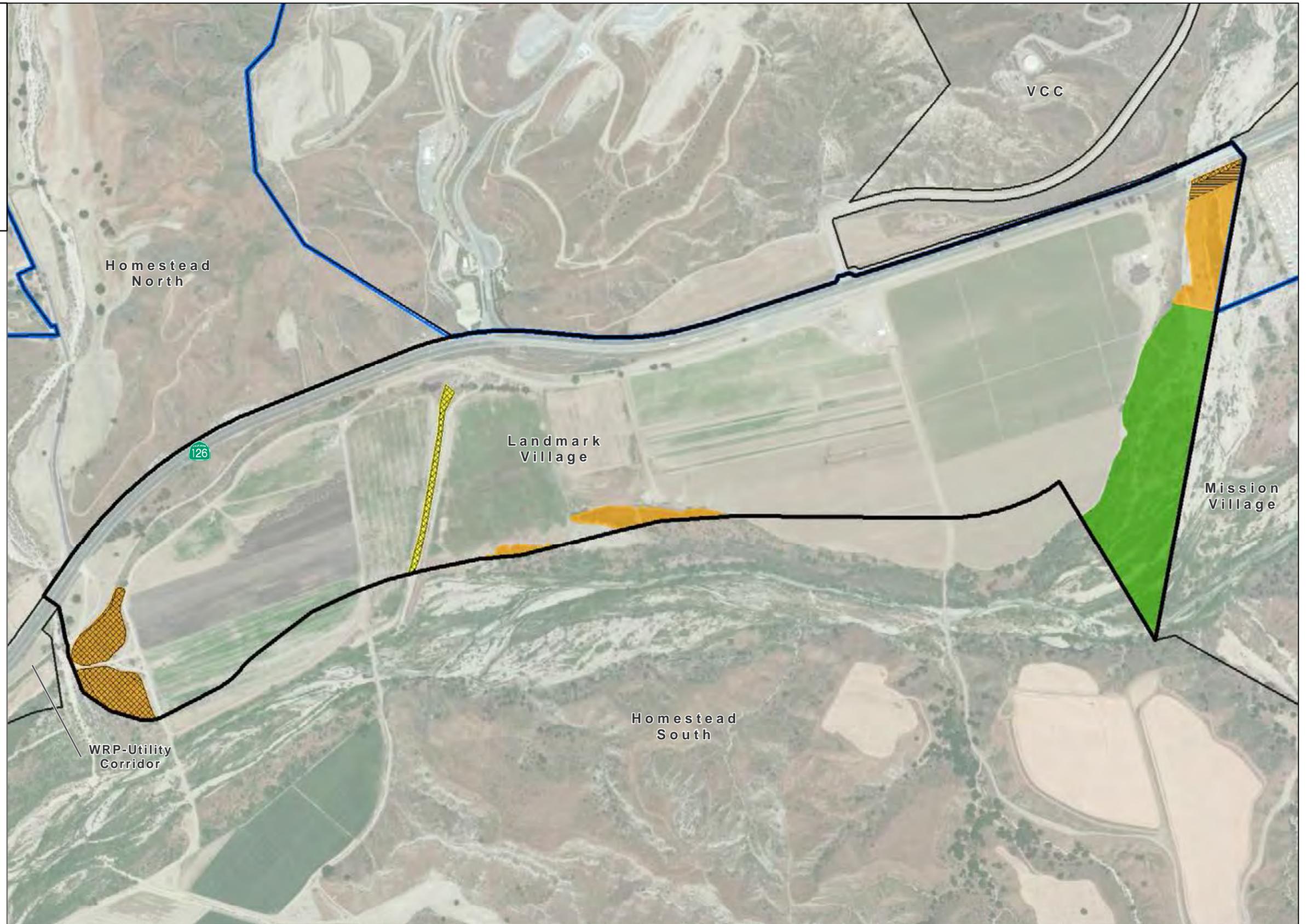
**FIGURE 15**  
Non-Jurisdictional Resources Mitigation Allocation

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- RMDP Boundary
- SCP Boundary
- Village Boundary
- Jurisdictional Resources**
- Quality of Resource**
- Low
- Medium
- High
- Impact to Resource**
- Permanent Impact
- Temporary Impact



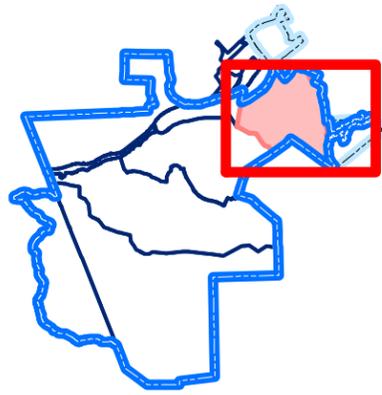
SOURCE: ESRI ArcGIS Online World Imagery Basemap



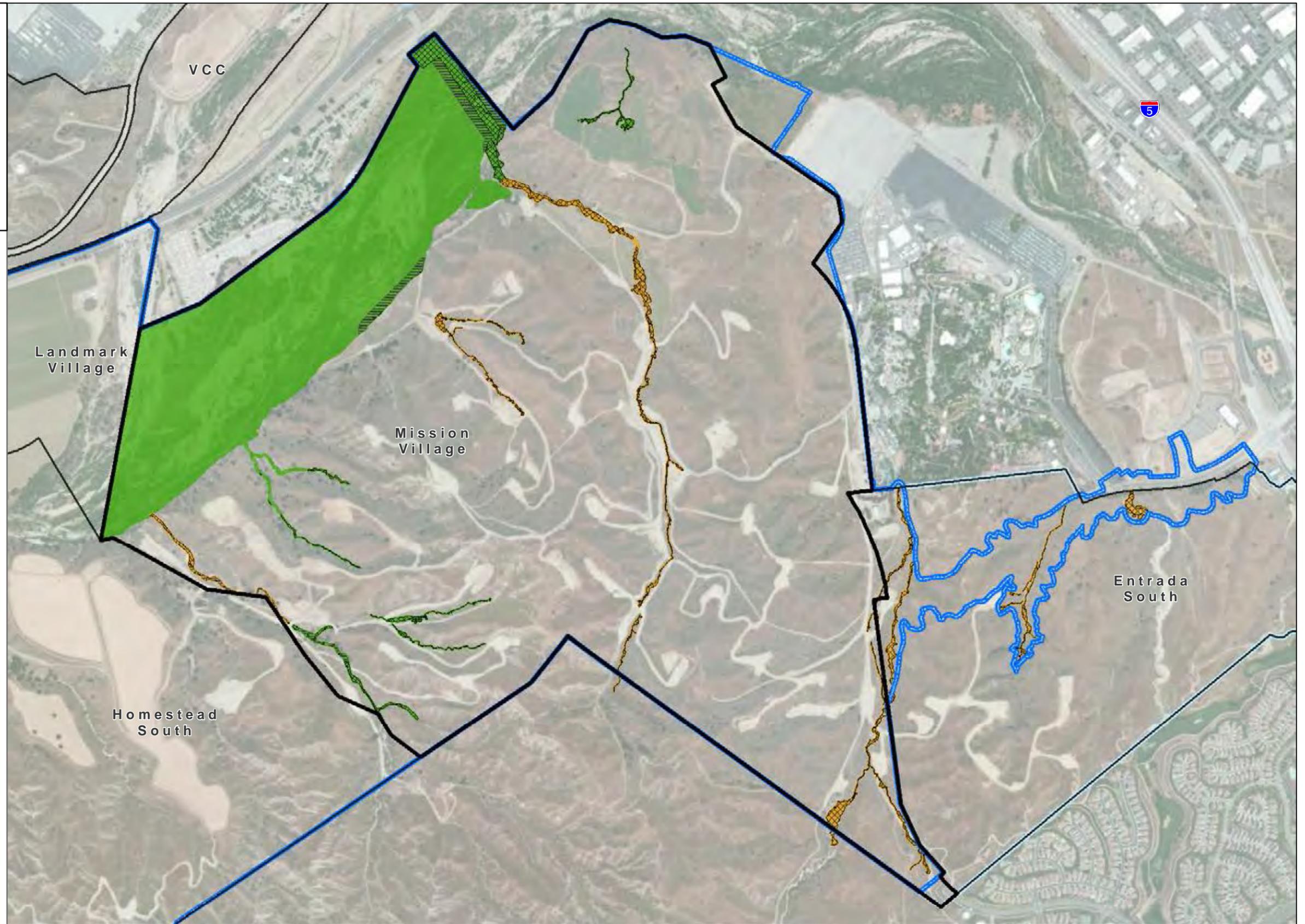
**FIGURE 16**  
Landmark Village Jurisdictional Resources

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- RMDP Boundary
- SCP Boundary
- Village Boundary
- Jurisdictional Resources**
- Quality of Resource**
- Medium
- High
- Impact to Resource**
- Permanent Impact
- Temporary Impact



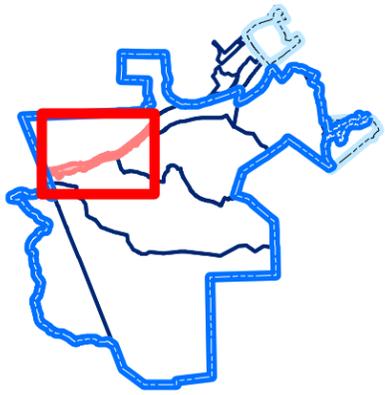
SOURCE: ESRI ArcGIS Online World Imagery Basemap



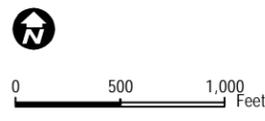
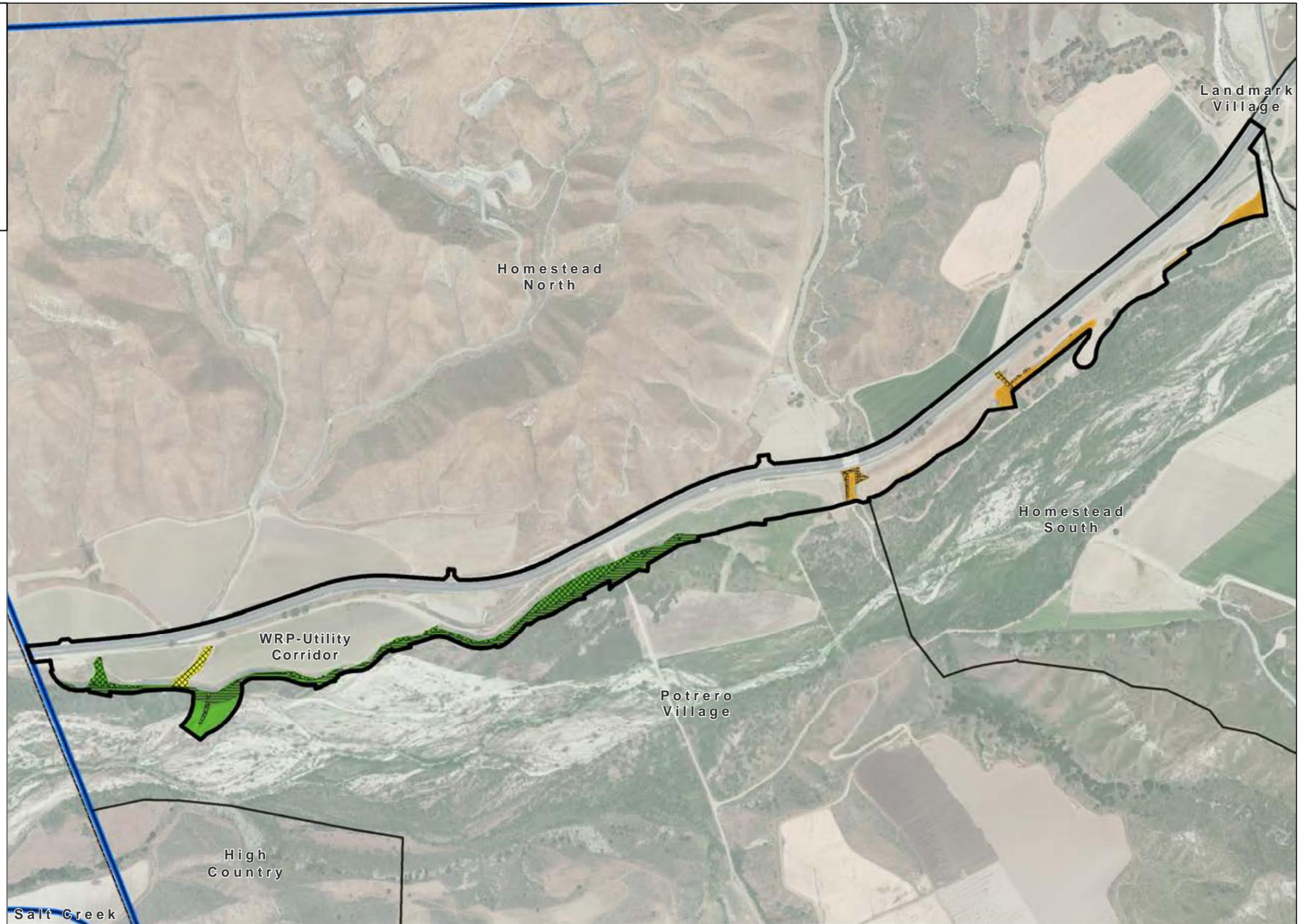
**FIGURE 17**  
Mission Village Jurisdictional Resources

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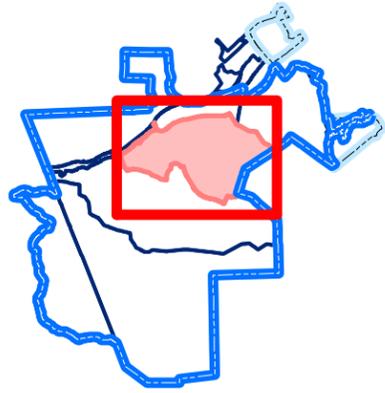


- RMDP Boundary
- SCP Boundary
- Village Boundary
- Jurisdictional Resources**
- Quality of Resource**
- Low
- Medium
- High
- Impact to Resource**
- Permanent Impact
- Temporary Impact

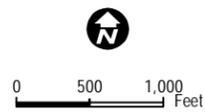
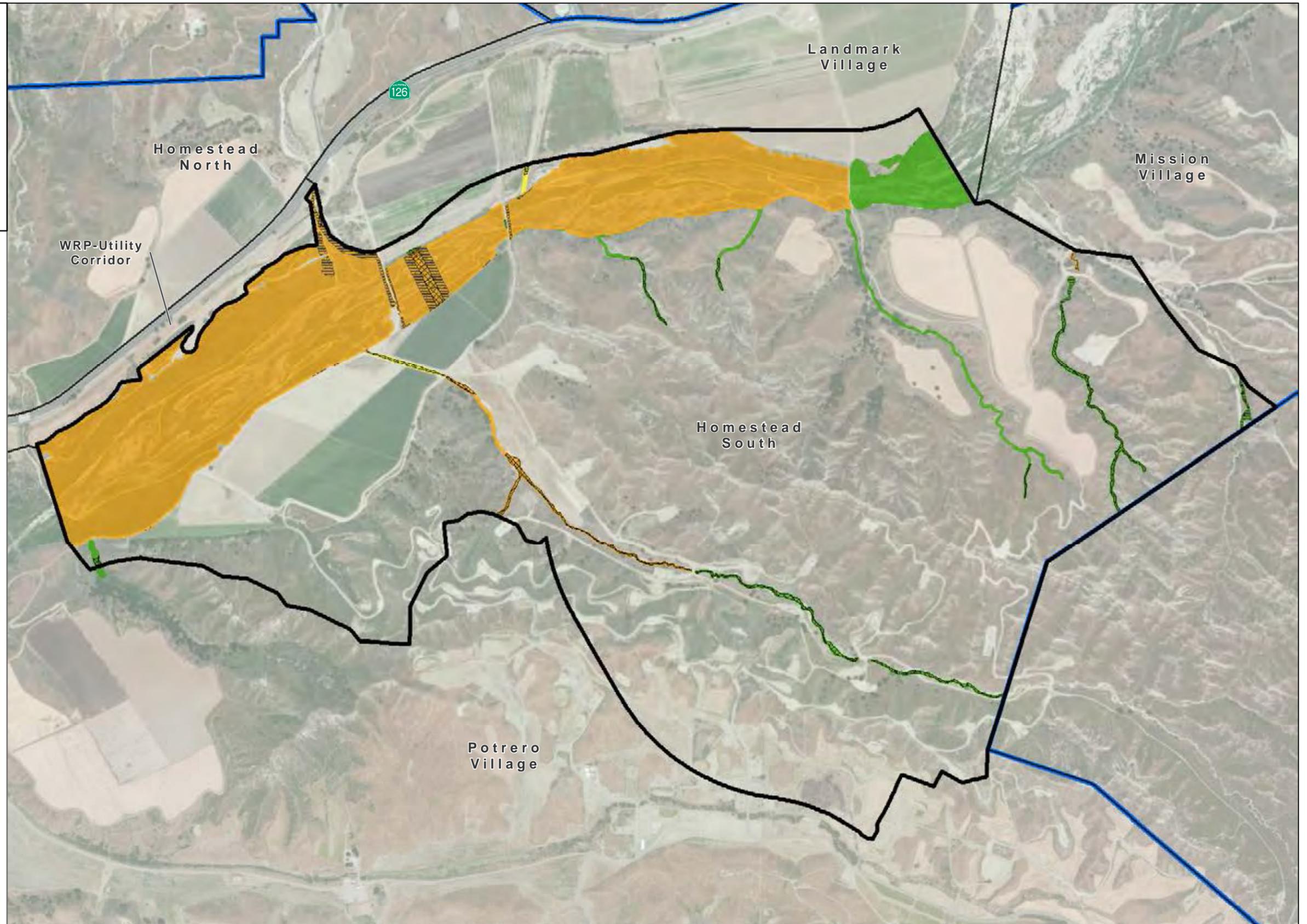


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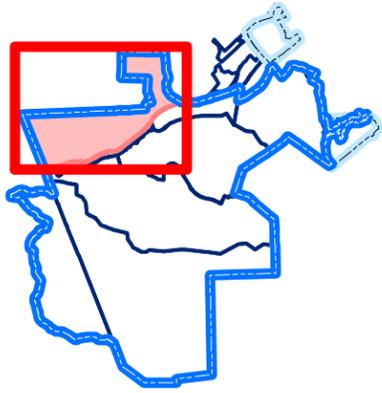


- RMDP Boundary
- SCP Boundary
- Village Boundary
- Jurisdictional Resources**
- Quality of Resource**
- Low
- Medium
- High
- Impact to Resource**
- Permanent Impact
- Temporary Impact

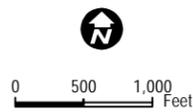
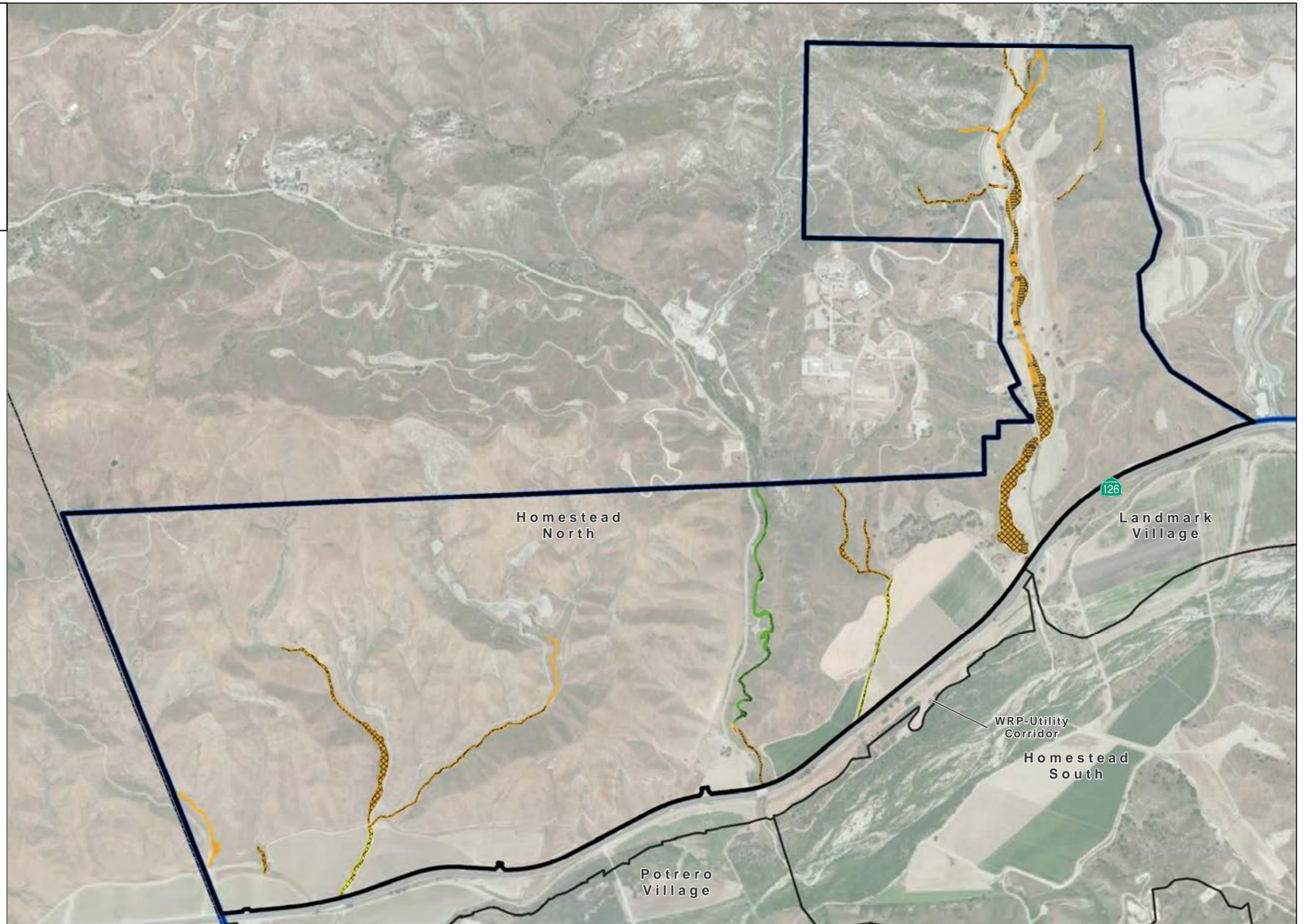


SOURCE: ESRI ArcGIS Online World Imagery Basemap

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- RMDP Boundary
  - SCP Boundary
  - Village Boundary
- Jurisdictional Resources**
- Quality of Resource**
- Low
  - Medium
  - High
- Impact to Resource**
- Permanent Impact
  - Temporary Impact



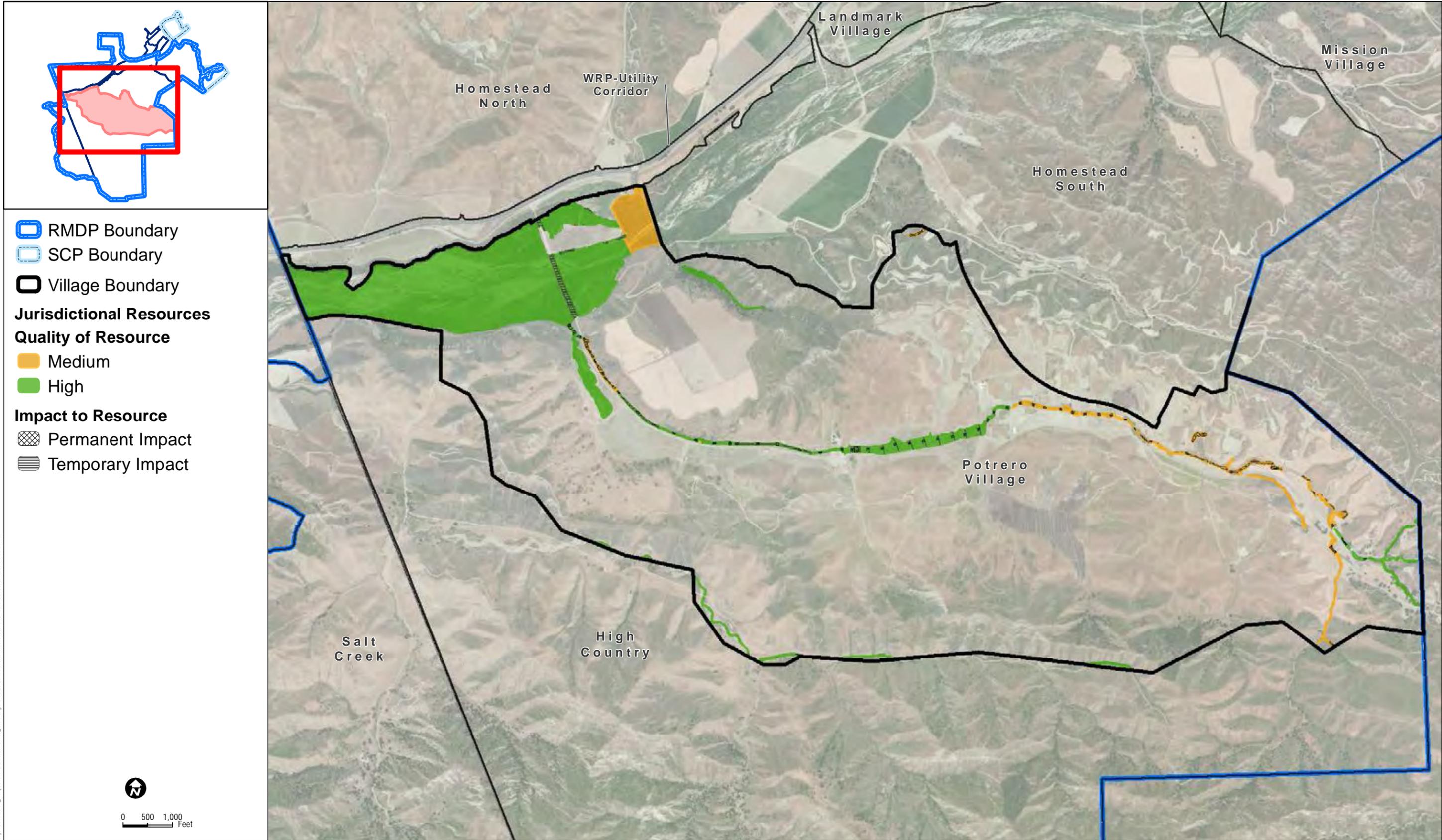
SOURCE: ESRI ArcGIS Online World Imagery Basemap



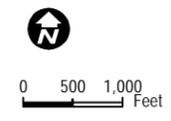
**FIGURE 20**  
Homestead North Jurisdictional Resources

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- RMDP Boundary
- SCP Boundary
- Village Boundary
- Jurisdictional Resources**
- Quality of Resource**
- Medium
- High
- Impact to Resource**
- Permanent Impact
- Temporary Impact



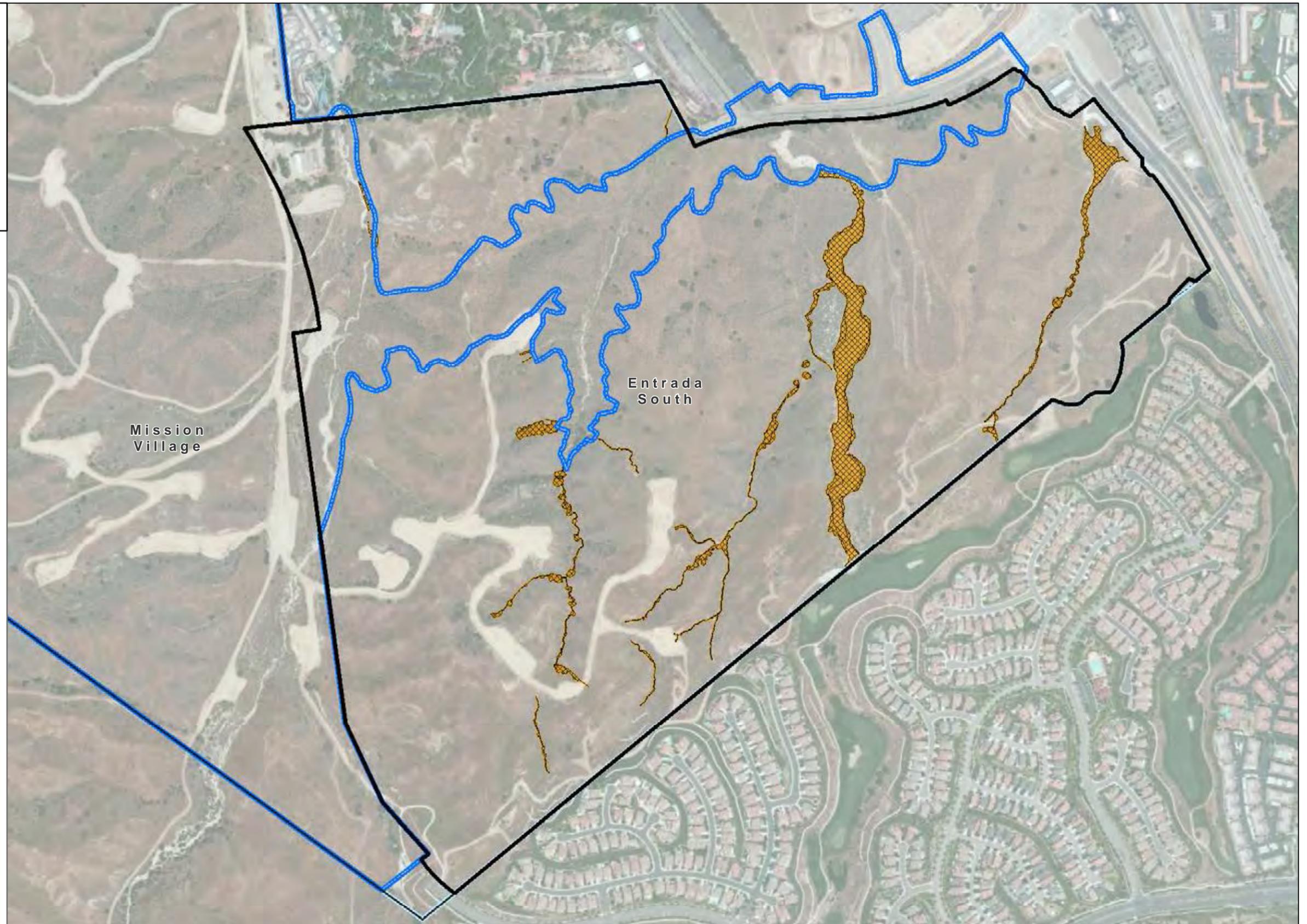
SOURCE: ESRI ArcGIS Online World Imagery Basemap

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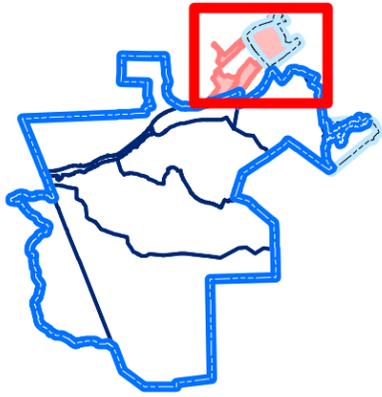


-  RMDP Boundary
-  SCP Boundary
-  Village Boundary
- Jurisdictional Resources**
- Quality of Resource**
-  Medium
- Impact to Resource**
-  Permanent Impact

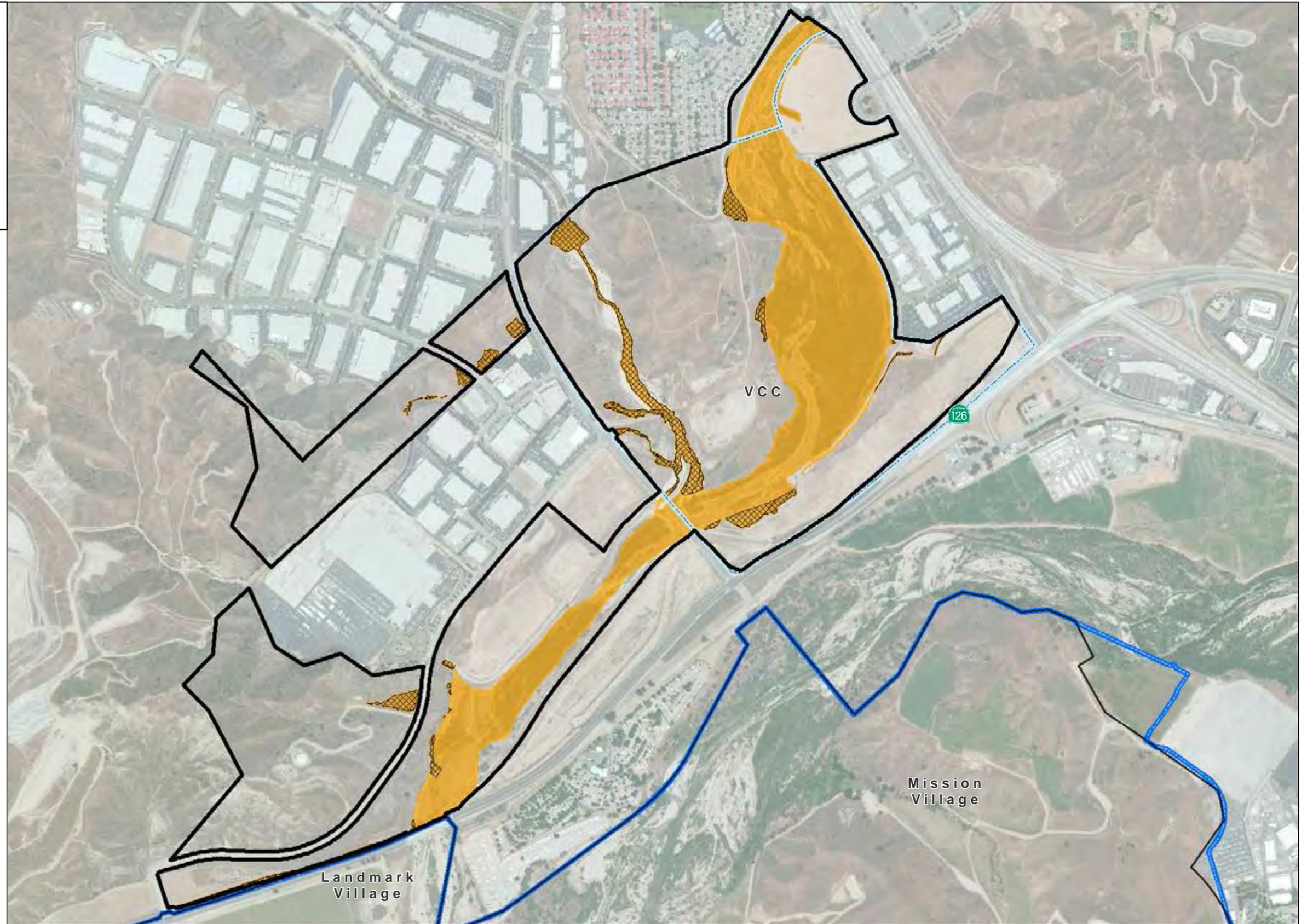


SOURCE: ESRI ArcGIS Online World Imagery Basemap

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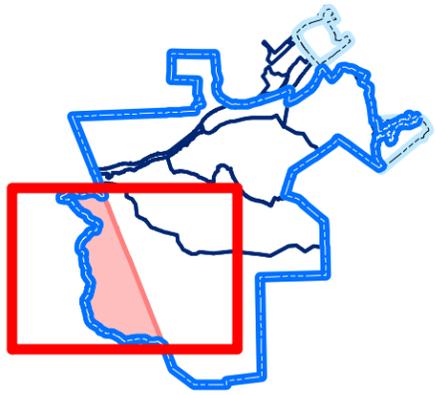


-  RMDP Boundary
-  SCP Boundary
-  Village Boundary
- Jurisdictional Resources**
- Quality of Resource**
-  Medium
- Impact to Resource**
-  Permanent Impact

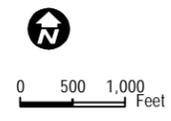
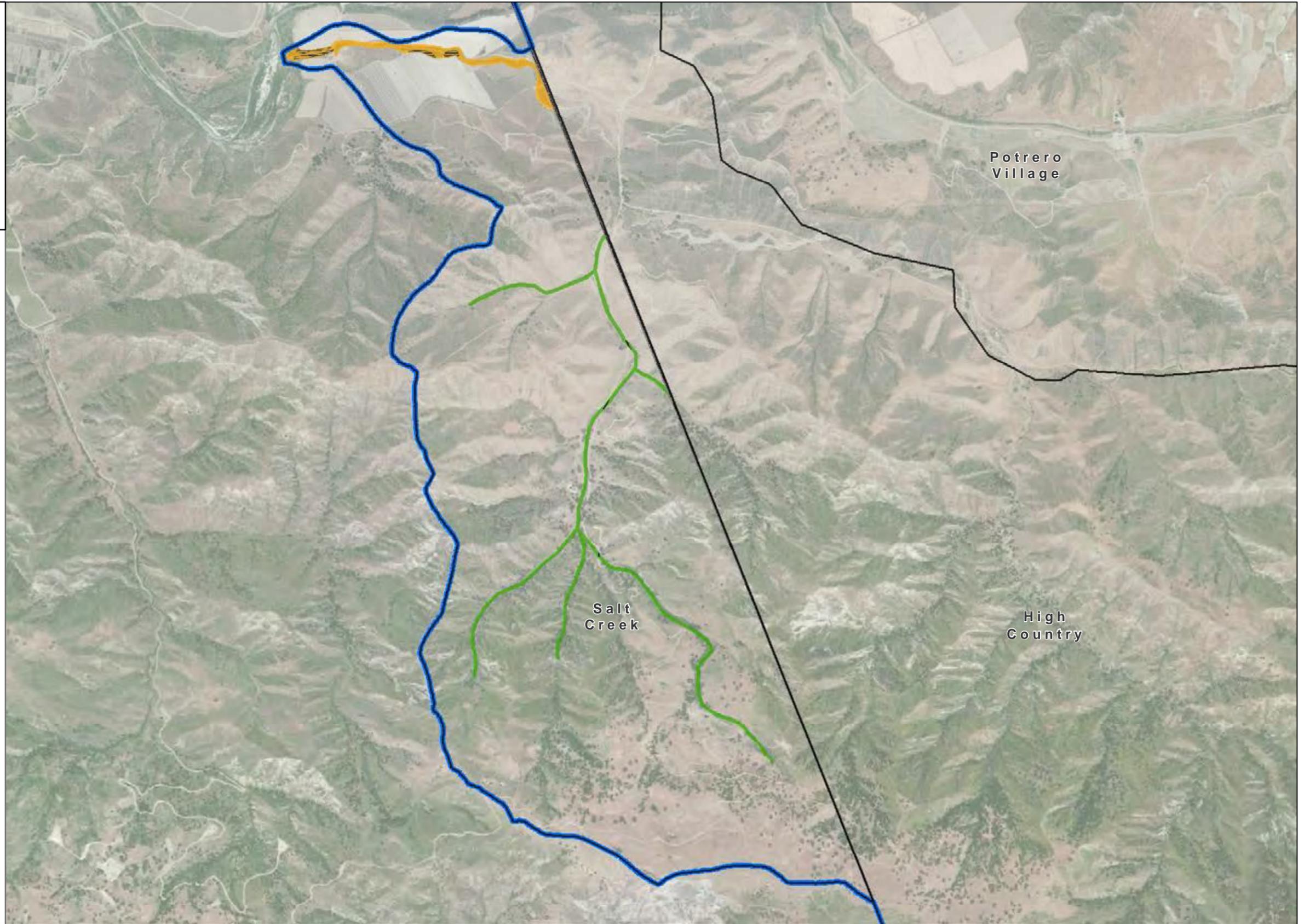


SOURCE: ESRI ArcGIS Online World Imagery Basemap

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-  RMDP Boundary
-  SCP Boundary
- Jurisdictional Resources**
- Quality of Resource**
-  Medium
-  High
- Impact to Resource**
-  Permanent Impact
-  Temporary Impact



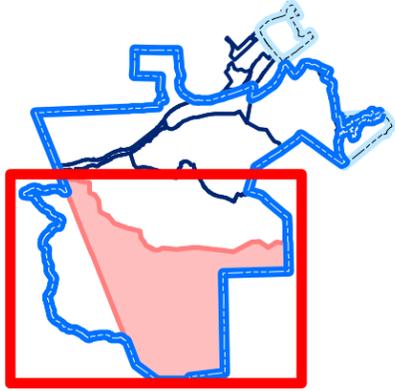
SOURCE: ESRI ArcGIS Online World Imagery Basemap



**FIGURE 24**  
**Salt Creek Jurisdictional Resources**  
Comprehensive Mitigation Implementation Plan for Newhall Ranch

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-  RMDP Boundary
-  SCP Boundary
- Jurisdictional Resources**
- Quality of Resource**
-  Medium
-  High
- Impact to Resource**
-  Permanent Impact
-  Temporary Impact



SOURCE: ESRI ArcGIS Online World Imagery Basemap



**FIGURE 25**  
High Country Jurisdictional Resources

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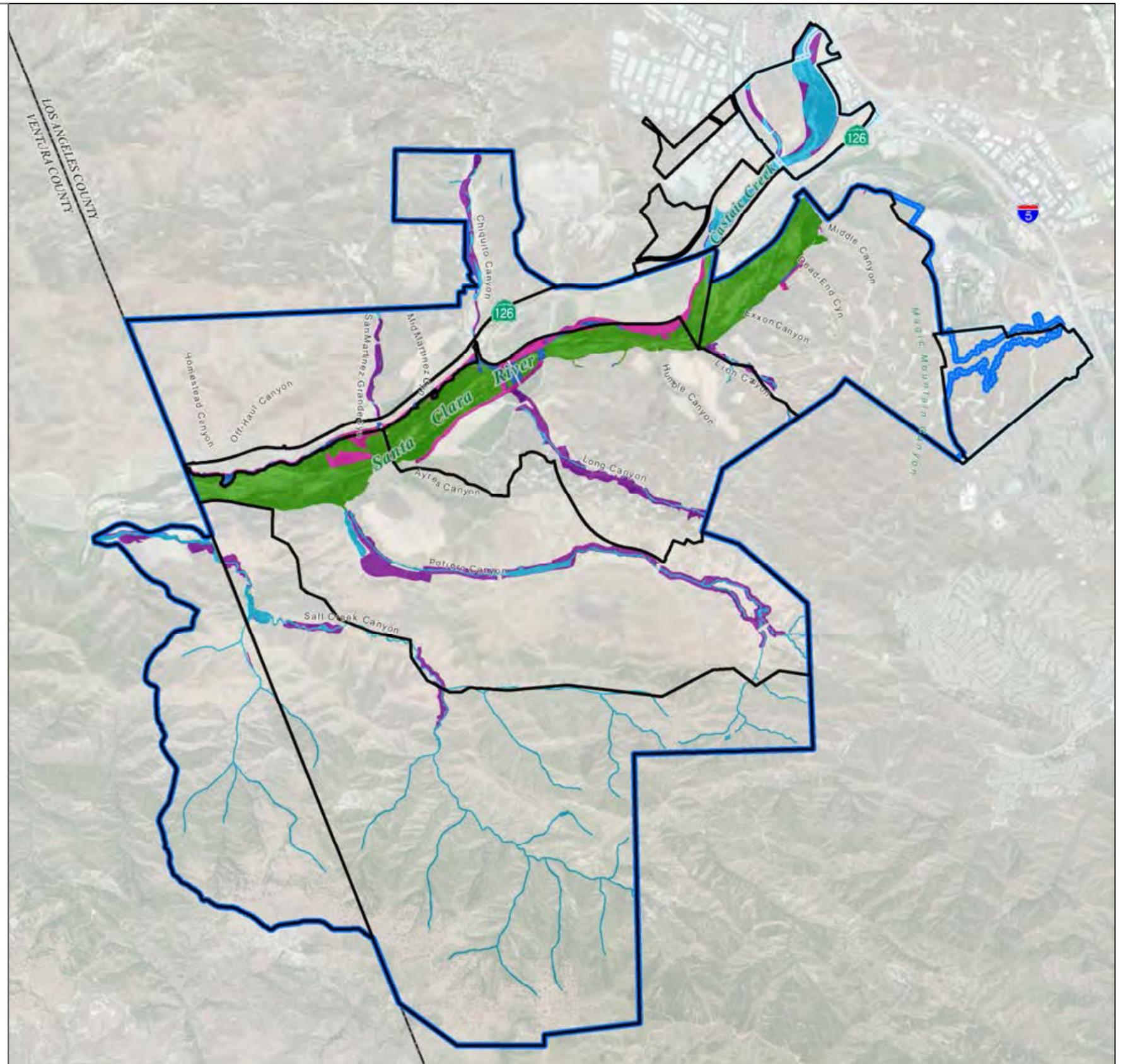
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Mitigation Sites	Acres
<b>CREATION AREAS</b>	
Castaic Creek Creation	34.86
Chiquito Canyon Creation	17.17
Lion Canyon Creation	9.35
Long Canyon Creation	53.11
Potrero Canyon Creation	113.23
Salt Creek Creation	45.46
San Martinez Grande Canyon Creation	10.48
Santa Clara River Creation	123.77
<b>TOTAL</b>	<b>407.44</b>

<b>RESTORATION AREAS</b>	
Castaic Creek Restoration	128.94
Chiquito Canyon Restoration	11.34
Lion Canyon Restoration	2.41
Long Canyon Restoration	3.46
Potrero Canyon Restoration	41.48
Salt Creek Restoration	93.88
San Martinez Grande Canyon Restoration	2.45
Santa Clara River Restoration	32.96
<b>TOTAL</b>	<b>316.93</b>

<b>ENHANCEMENT AREA</b>	
Santa Clara River Enhancement	712.91

-  RMDP Boundary
  -  SCP Boundary
  -  Village Boundary
- Mitigation**
-  Creation Areas
  -  Restoration Areas
  -  Santa Clara River - Creation Areas
  -  Santa Clara River - Restoration Areas
  -  Santa Clara River - Enhancement Area



SOURCE: ESRI ArcGIS Online World Imagery Basemap



**FIGURE 26**  
Locations to Implement Mitigation for Jurisdictional Resources

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## APPENDIX A (Continued)

**Table 1  
Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
Riparian Communities	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, and SP-4.6-47 (include the open space dedication of the River Corridor and High Country SMAs and Open Area), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at State Route 126 (SR-126)), BIO-62 (dedication to the public of at least 1,900 acres of Open Area to an NLMO)	Riparian communities	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), SP-4.6-26a (riparian revegetation and oak tree replacement opportunities in the High Country SMA), SP-4.6-27 (removal of grazing and enhancement of habitat in the High Country SMA), SP-4.6-28 (mitigation banking for riparian and oak resources in High Country SMA), SP-4.6-43 (Open Area use for mitigation of riparian, oak resources, or elderberry scrub), SP-4.6-47a (allows mitigation banking for riparian habitats, oak resources, and Mexican elderberry within the River Corridor SMA, High Country SMA, and Open Area), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site)	Riparian communities
California Annual Grassland, Agriculture, and Disturbed Land (Impacts to Developed Land not considered significant)	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, and SP-4.6-47 (include the open space dedication of the River Corridor and High Country SMAs and Open Area), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-62 (dedication to the public of at least 1,900 acres of Open Area to an NLMO)	California Annual Grassland, Agriculture, and Disturbed Land	SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), SP-4.6-27 (removal of grazing from High Country SMA)	

## APPENDIX A (Continued)

**Table 1  
Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
Coastal scrub communities	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, and SP-4.6-47 (include the open space dedication of the River Corridor and High Country SMAs and Open Area), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site), BIO-62 (dedication to the public of at least 1,900 acres of Open Area to an NLMO)	Coastal Scrub	SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), SP-4.6-27 (removal of grazing from High Country SMA), BIO-21 (restoration/enhancement of coastal scrub in the High County SMA, Salt Creek area, and River Corridor SMA)	
Chaparral Communities	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, and SP-4.6-47 (include the open space dedication of the River Corridor and High Country SMAs and Open Area), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-62 (dedication to the public of at least 1,900 acres of Open Area to an NLMO)		SP-4.6-27 (removal of grazing from High Country SMA)	

## APPENDIX A (Continued)

**Table 1**  
**Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
Oak Woodland Communities	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, and SP-4.6-47 (include the open space dedication of the River Corridor and High Country SMAs and Open Area), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-62 (dedication to the public of at least 1,900 acres of Open Area to an NLMO)	Mixed oak woodland, coast live oak woodland, and valley oak grass/woodland	SP-4.6-26a (oak tree replacement opportunities in the High Country SMA), SP-4.6-28 (mitigation banking for riparian and oak resources in High Country SMA), SP-4.6-43 (Open Area use for mitigation of oak resources), SP-4.6-48 (restoration and enhancement of oak resources in High Country SMA and Open Area), BIO-22 (preparation and implementation of an Oak Resource Management Plan identifying areas suitable for oak woodland enhancement and creation)	Coast live oak woodland and valley oak grass/woodland
Mainland (holly-leaf) cherry	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, and SP-4.6-47 (include the open space dedication of the River Corridor and High Country SMAs and Open Area), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-62 (dedication to the public of at least 1,900 acres of Open Area to an NLMO)	Chaparral, big sage-brush scrub, and river wash	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), SP-4.6-26a (riparian revegetation and oak tree replacement opportunities in the High Country SMA), SP-4.6-27 (removal of grazing and enhancement of habitat in the High Country SMA), SP-4.6-28 (mitigation banking for riparian and oak resources in High Country SMA), SP-4.6-43 (Open Area use for mitigation of riparian, oak resources, or elderberry scrub), SP-4.6-47a (allows mitigation banking for riparian habitats, oak resources, and Mexican elderberry within the River Corridor SMA, High Country SMA, and Open Area), SP-4.6-48 (restoration and enhancement of oak resources in High Country SMA and Open Area), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities)	Restoration and enhancement of mainland (holly-leaf) cherry, chaparral, big sage-brush scrub, and river wash

## APPENDIX A (Continued)

**Table 1  
Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
			on the project site), BIO-22 (preparation and implementation of an Oak Resource Management Plan identifying areas suitable for oak woodland enhancement and creation), BIO-88 (replacement of southern California black walnut and mainland cherry trees or shrubs outside riparian areas)	
Oak-leaved nemophila	SP-4.6-36 through SP-4.6-38 and SP-4.6-40 through SP-4.6-42 (include the open space dedication of the High Country SMA), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-62 (dedication to the public of at least 1,900 acres of Open Area to an NLMO)	Oak Woodland communities	4.6-27 (removal of grazing and enhancement of habitat in the High Country SMA)	
Oak trees	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, and SP-4.6-47 (include the open space dedication of the River Corridor and High Country SMAs and Open Area), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-62 (dedication to the public of at least 1,900 acres of Open Area to an NLMO)	Oak woodland communities, chaparral, coastal sage scrub, and riparian communities	SP-4.6-26a (oak tree replacement opportunities in the High Country SMA), SP-4.6-28 (mitigation banking for riparian and oak resources in High Country SMA), SP-4.6-43 (Open Area use for mitigation of oak resources), SP-4.6-48 (restoration and enhancement of oak resources in High Country SMA and Open Area), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-22 (preparation and implementation of an Oak Resource Management Plan identifying areas suitable for oak woodland enhancement and creation)	Restoration and enhancement of oak trees, oak woodland communities, chaparral, coastal sage scrub, and riparian communities

## APPENDIX A (Continued)

**Table 1  
Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
Parish's sagebrush	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, and SP-4.6-47 (include the open space dedication of the River Corridor and High Country SMAs and Open Area), BIO-62 (dedication to the public of at least 1,900 acres of Open Area to an NLMO)	Big sagebrush scrub	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), SP-4.6-26a (riparian revegetation and oak tree replacement opportunities in the High Country SMA), SP-4.6-27 (removal of grazing and enhancement of habitat in the High Country SMA), SP-4.6-28 (mitigation banking for riparian and oak resources in High Country SMA), SP-4.6-43 (Open Area use for mitigation of riparian, oak resources, or elderberry scrub), SP-4.6-47a (allows mitigation banking for riparian habitats, oak resources, and Mexican elderberry within the River Corridor SMA, High Country SMA, and Open Area), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site)	Big sagebrush scrub
San Fernando Valley spineflower	SP-4.6-66 (guidelines for design, establishment, and management of spineflower preserves), SP-4.6-67 (open space connections and setbacks for spineflower preserves prohibition of disturbance within spineflower preserves or buffers), SP-4.6-70 (road construction to reduce or avoid impacts to spineflower), SP-4.6-71 (engineering, design, and grading modifications around spineflower preserves), SP-4.6-72 (fire management plan to avoid and		SP-4.6-66 (guidelines for design, establishment, and management of spineflower preserves), SP-4.6-67 (open space connections and setbacks for spineflower preserves prohibition of disturbance within spineflower preserves or buffers, revegetation requirements), SP-4.6-77 (spineflower monitoring and management plan), SP-4.6-78 (spineflower translocation and reintroduction plan), BIO-24 (management of spineflower preserves), BIO-25 (guidelines for restoration and enhancement of degraded and/or damaged spineflower habitat), BIO-87 (quarterly monitoring and control measures for Argentine ants for up to 50 years)	

## APPENDIX A (Continued)

**Table 1**  
**Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
	minimize impacts to the spineflower), SP-4.6-76 (reassessment of impacts to spineflower populations), SP-4.6-80 (San Martinez Grande spineflower preserve area), BIO-23 (placement of the proposed spineflower preserves into a permanent conservation easement)			
Island mountain-mahogany	SP-4.6-36 through SP-4.6-38 and SP-4.6-40 through SP-4.6-42 (include the open space dedication of the High Country SMA), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-62 (dedication to the public of at least 1,900 acres of Open Area to an NLMO)	Chaparral	SP-4.6-27 (removal of grazing from High Country SMA)	
Peirson's morning glory	SP-4.6-36 through SP-4.6-38 and SP-4.6-40 through SP-4.6-42 (include the open space dedication of the High Country SMA), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site), BIO-62 (dedication to the public of at least 1,900 acres of Open Area to an NLMO)	Chaparral, coastal scrub, and grassland vegetation communities	SP-4.6-27 (removal of grazing from High Country SMA), BIO-21 (restoration/enhancement of coastal scrub in the High Country SMA, Salt Creek area, and River Corridor SMA)	

## APPENDIX A (Continued)

**Table 1  
Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
Slender mariposa lily	SP-4.6-36 through SP-4.6-38 and SP-4.6-40 through SP-4.6-42 (includes the open space dedication of the High Country SMA), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)	Areas occupied by slender mariposa lilies and suitable coastal scrub and California annual grassland	SP-4.6-27 (removal of grazing in High Country SMA), BIO-21 (restoration/enhancement of coastal scrub in the High Country SMA, Salt Creek area, and River Corridor SMA), BIO-40 (implementation of an approved slender mariposa lily mitigation plan)	Coastal sage scrub and California annual grassland areas that support populations of slender mariposa lilies or are suitable relocation sites
Southern California black walnut	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, and SP-4.6-47 (include the open space dedication of the River Corridor and High Country SMAs and Open Area), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-62 (dedication to the public of at least 1,900 acres of Open Area to an NLMO)	California walnut woodland, chaparral, coastal scrub, alluvial scrub, oak woodland, and southern cottonwood–willow riparian	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-26a (riparian revegetation and oak tree replacement opportunities in the High Country SMA), SP-4.6-27 (removal of grazing and enhancement of habitat in the High Country SMA), SP-4.6-28 (mitigation banking for riparian and oak resources in High Country SMA), SP-4.6-43 (Open Area use for mitigation of riparian, oak resources, or elderberry scrub), SP-4.6-47a (allows mitigation banking for riparian habitats, oak resources, and Mexican elderberry within the River Corridor SMA, High Country SMA, and Open Area), SP-4.6-48 (restoration and enhancement of oak resources in High Country SMA and Open Area), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-22 (preparation and implementation of an Oak Resource Management Plan identifying areas suitable for oak woodland enhancement and creation), BIO-88 (replacement of southern California black walnut and mainland cherry trees or shrubs outside riparian areas)	Restoration and enhancement of southern California black walnut trees, California walnut woodlands

## APPENDIX A (Continued)

**Table 1  
Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
Undescribed everlasting	SP-4.6-21 through SP-4.6-26, BIO-75 (surveys in undescribed everlasting habitat prior to grading/construction activities and avoidance measure to extent possible)		SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-47a (allows mitigation banking for riparian habitats, oak resources, and Mexican elderberry within the River Corridor SMA, High Country SMA, and Open Area), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-75 (surveys in undescribed everlasting habitat prior to grading/construction activities), BIO-76 (undescribed everlasting mitigation and monitoring program)	
Undescribed sunflower	SP-4.6-21 through SP-4.6-26		SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-47a (allows mitigation banking for riparian habitats, oak resources, and Mexican elderberry within the River Corridor SMA, High Country SMA, and Open Area), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-77 (Middle Canyon Spring Habitat Management Plan (Dudek 2007), which prescribes monitoring and management related to water quality and water quantity)	
Undescribed snail	NA	NA	BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-77 (Middle Canyon Spring Habitat Management Plan (Dudek 2007), which prescribes monitoring and management related to water quality and water quantity)	Middle Canyon Spring

## APPENDIX A (Continued)

**Table 1**  
**Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
San Emigdio blue butterfly	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126)	Riparian communities	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), SP-4.6-26a (riparian revegetation and oak tree replacement opportunities in the High Country SMA), SP-4.6-27 (removal of grazing and enhancement of habitat in the High Country SMA), SP-4.6-28 (mitigation banking for riparian and oak resources in High Country SMA), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-66 (replacement of quail brush plants within the San Emigdio blue butterfly colony), BIO-79 (monitoring and habitat creation for San Emigdio blue butterfly)	Riparian communities, quailbush plants
Unarmored threespine stickleback, arroyo chub, and Santa Ana sucker	SP-4.6-21 through SP-4.6-26 (includes the open space dedication of the River Corridor SMA)	Riparian communities (open water)	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-80 (monitoring and control of invasive, non-native aquatic wildlife species in perpetuity)	Riparian communities (open water)
Arroyo toad, western spadefoot toad	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs),	Riparian communities and adjacent upland communities	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), SP-	Riparian communities and adjacent uplands, Middle Canyon Spring

## APPENDIX A (Continued)

**Table 1  
Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
	BIO-19 dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)		4.6-26a (riparian revegetation and oak tree replacement opportunities in the High Country SMA), SP-4.6-27 (removal of grazing and enhancement of habitat in the High Country SMA), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-21 (restoration/enhancement of coastal scrub in the High Country SMA, Salt Creek area, and River Corridor SMA), BIO-77 (Middle Canyon Spring Habitat Management Plan (Dudek 2007), which prescribes monitoring and management related to water quality and water quantity), BIO-80 (monitoring and control of invasive, non-native aquatic wildlife species in perpetuity)	
Two-striped garter snake, south coast garter snake	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126)	Riparian communities and adjacent upland communities	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), SP-4.6-26a (riparian revegetation and oak tree replacement opportunities in the High Country SMA), SP-4.6-27 (removal of grazing and enhancement of habitat in the High Country SMA), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-77 (Middle Canyon Spring Habitat Management Plan (Dudek 2007), which prescribes monitoring and management related to water quality and water quantity), BIO-80 (monitoring and control of invasive, non-native aquatic wildlife species in perpetuity), BIO-87 (quarterly monitoring and control measures for Argentine ants for up to 50 years)	Riparian communities and adjacent uplands

## APPENDIX A (Continued)

**Table 1**  
**Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
Southwestern pond turtle	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)	Riparian communities and adjacent upland communities	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), SP-4.6-26a (riparian revegetation and oak tree replacement opportunities in the High Country SMA), SP-4.6-27 (removal of grazing and enhancement of habitat in the High Country SMA), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-21 (restoration/enhancement of coastal scrub in the High Country SMA, Salt Creek area, and River Corridor SMA), BIO-77 (Middle Canyon Spring Habitat Management Plan (Dudek 2007), which prescribes monitoring and management related to water quality and water quantity), BIO-80 (monitoring and control of invasive, non-native aquatic wildlife species in perpetuity)	Riparian communities and adjacent uplands
California red-legged frog	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126)	Riparian communities	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), SP-4.6-26a (riparian revegetation and oak tree replacement opportunities in the High Country SMA), SP-4.6-27 (removal of grazing and enhancement of habitat in the High Country SMA), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-77 (Middle Canyon Spring Habitat Management Plan (Dudek 2007), which prescribes monitoring and management related to water quality and	Riparian communities, Middle Canyon Spring

## APPENDIX A (Continued)

**Table 1  
Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
			water quantity), BIO-80 (monitoring and control of invasive, non-native aquatic wildlife species in perpetuity), BIO-87 (quarterly monitoring and control measures for Argentine ants for up to 50 years)	
Coastal California gnatcatcher	SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the High Country SMA), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)	Natural communities in High Country SMA and Salt Creek area	BIO-21 (restoration/enhancement of coastal scrub in the High Country SMA, Salt Creek area, and River Corridor SMA), BIO-55 (replace or enhance nesting and foraging habitat for coastal California gnatcatcher), BIO-87 (quarterly monitoring and control measures for Argentine ants for up to 50 years)	Coastal scrub
Southern California rufous-crowned sparrow	SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the High Country SMA), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)	Natural communities in High Country SMA and Salt Creek area	BIO-21 (restoration/enhancement of coastal scrub in the High Country SMA, Salt Creek area, and River Corridor SMA), BIO-87 (quarterly monitoring and control measures for Argentine ants for up to 50 years)	Coastal scrub
Bell's sage sparrow	SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the High Country SMA), BIO-19 (dedication of the Salt Creek area to the public and enhancement of	Natural communities in High Country SMA and Salt Creek area	BIO-21 (restoration/enhancement of coastal scrub in the High Country SMA, Salt Creek area, and River Corridor SMA), BIO-78 (cowbird monitoring and trapping program), BIO-87 (quarterly monitoring and control measures for Argentine ants for up to 50 years)	Coastal scrub

## APPENDIX A (Continued)

**Table 1  
Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
	existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)			
California condor, golden eagle,	SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the High Country SMA), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)	Natural communities in High Country SMA and Salt Creek area	BIO-21 (restoration/enhancement of coastal scrub in the High County SMA, Salt Creek area, and River Corridor SMA)	Coastal scrub
Least Bell's vireo, southwestern willow flycatcher, western yellow-billed cuckoo, yellow-breasted chat, yellow warbler	SP-4.6-21 through SP-4.6-26 (open space dedication of the River Corridor)	Riparian communities in River Corridor SMA	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-55 (replace or enhance nesting and foraging habitat for least Bell's vireo, southwestern willow flycatcher, western yellow-billed cuckoo; this will also benefit yellow-breasted chat and yellow warbler), BIO-78 (cowbird monitoring and trapping program), BIO-87 (quarterly monitoring and control measures for Argentine ants for up to 50 years)	Riparian communities in River Corridor SMA

## APPENDIX A (Continued)

**Table 1  
Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
Loggerhead shrike	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)	Natural communities in River Corridor SMA, High Country SMA and Salt Creek area	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), SP-4.6-48 (restoration and enhancement of oak resources in the High Country SMA), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the Project site), BIO-21 (restoration/enhancement of coastal scrub in the High Country SMA, Salt Creek area, and River Corridor SMA), BIO-22 (preparation and implementation of an Oak Resource Management Plan identifying areas suitable for oak woodland enhancement and creation)	
Cooper's hawk, white-tailed kite	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)	Natural communities in River Corridor SMA, High Country SMA and Salt Creek area	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), SP-4.6-48 (restoration and enhancement of oak resources in the High Country SMA), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-21 (restoration/enhancement of coastal scrub in the High Country SMA, Salt Creek area, and River Corridor SMA), BIO-22 (preparation and implementation of an Oak Resource Management Plan identifying areas suitable for oak woodland enhancement and creation), BIO-55 (replace or enhance nesting and foraging habitat for least Bell's vireo, southwestern willow flycatcher, western yellow-billed cuckoo, and coastal California gnatcatcher; this will also benefit Cooper's hawk and white-tailed kite)	

## APPENDIX A (Continued)

**Table 1  
Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
Long-eared owl	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126)	Natural communities in River Corridor SMA, High Country SMA and Salt Creek area	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the Project site), BIO-55 (replace or enhance nesting and foraging habitat for least Bell's vireo, southwestern willow flycatcher, western yellow-billed cuckoo; this will also benefit long-eared owl)	
Tricolored blackbird	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126)	Natural communities in River Corridor SMA, High Country SMA and Salt Creek area	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site)	
Ferruginous hawk	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)	Natural communities in River Corridor SMA, High Country SMA and Salt Creek area	BIO-21 (restoration/enhancement of coastal scrub in the High Country SMA, Salt Creek area, and River Corridor SMA)	Coastal scrub

## APPENDIX A (Continued)

**Table 1**  
**Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
Northern harrier	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)	Natural communities in River Corridor SMA, High Country SMA and Salt Creek area	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-21 (restoration/enhancement of coastal scrub in the High County SMA, Salt Creek area, and River Corridor SMA)	
Allen's hummingbird, Costa's hummingbird	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)	Natural communities in River Corridor SMA, High Country SMA and Salt Creek area	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-21 (restoration/enhancement of coastal scrub in the High County SMA, Salt Creek area, and River Corridor SMA), BIO-55 (replace or enhance nesting and foraging habitat for least Bell's vireo, southwestern willow flycatcher, western yellow-billed cuckoo, and coastal California gnatcatcher; this will also benefit Allen's hummingbird and Costa's hummingbird), BIO-87 (quarterly monitoring and control measures for Argentine ants for up to 50 years)	

## APPENDIX A (Continued)

**Table 1  
Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
Turkey vulture	SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the High Country SMA), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)	Upland natural communities in High Country SMA and Salt Creek area	BIO-21 (restoration/enhancement of coastal scrub in the High Country SMA, Salt Creek area, and River Corridor SMA)	
Western burrowing owl	SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the High Country SMA), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126)	Grasslands in High Country SMA and Salt Creek area, oak woodlands	NA	
Chipping sparrow	SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the High Country SMA), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126)	Grasslands in High Country SMA and Salt Creek area, oak woodlands	BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-22 (preparation and implementation of an Oak Resource Management Plan identifying areas suitable for oak woodland enhancement and creation), BIO-78 (cowbird monitoring and trapping program), BIO-87 (quarterly monitoring and control measures for Argentine ants for up to 50 years)	
California horned lark	SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the High Country SMA), BIO-19	Grasslands in High Country SMA and Salt Creek area, oak woodlands	BIO-78 (cowbird monitoring and trapping program), BIO-87 (quarterly monitoring and control measures for Argentine ants for up to 50 years)	

## APPENDIX A (Continued)

**Table 1  
Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
	(dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126)			
Lawrence's goldfinch	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)	Natural communities in River Corridor SMA, High Country SMA and Salt Creek area	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-21 (restoration/enhancement of coastal scrub in the High Country SMA, Salt Creek area, and River Corridor SMA), BIO-78 (cowbird monitoring and trapping program), BIO-87 (quarterly monitoring and control measures for Argentine ants for up to 50 years)	
Nuttall's woodpecker, oak titmouse	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126)		SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-22 (preparation and implementation of an Oak Resource Management Plan identifying areas suitable for oak woodland enhancement and creation), BIO-87 (quarterly monitoring and control measures for Argentine ants for up to 50 years)	

## APPENDIX A (Continued)

**Table 1  
Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
Coast horned lizard, coast patch-nosed snake, coastal western whiptail, rosy boa, San Bernardino ringneck snake, silvery legless lizard	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)	Coastal sage scrub, chaparral, grassland, oak woodland, and riparian communities	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), SP-4.6-27 (removal of grazing and enhancement of habitat in the High Country SMA), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-21 (restoration/enhancement of coastal scrub in the High Country SMA, Salt Creek area, and River Corridor SMA)	Coastal scrub, chaparral, grassland, oak woodland, and riparian communities
Coast horned lizard, coast patch-nosed snake, coastal western whiptail, rosy boa, San Bernardino ringneck snake, silvery legless lizard, American badger, San Diego black-tailed jackrabbit, San Diego desert woodrat, southern grasshopper mouse	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)	Coastal sage scrub, chaparral, grassland, oak woodland, and riparian communities	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), SP-4.6-27 (removal of grazing and enhancement of habitat in the High Country SMA), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-21 (restoration/enhancement of coastal scrub in the High Country SMA, Salt Creek area, and River Corridor SMA), BIO-87 (quarterly monitoring and control measures for Argentine ants for up to 50 years)	Coastal scrub, chaparral, grassland, oak woodland, and riparian communities
Ringtail	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and	Riparian communities	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), SP-4.6-26a (riparian revegetation and oak tree replacement opportunities in the High Country SMA), SP-4.6-27	Riparian communities

## APPENDIX A (Continued)

**Table 1  
Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
	enhancement of existing agricultural undercrossing at SR-126)		(removal of grazing and enhancement of habitat in the High Country SMA), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-55 (replace or enhance nesting and foraging habitat for least Bell's vireo, southwestern willow flycatcher, western yellow-billed cuckoo; this will benefit ringtail as well)	
Fringed myotis, long-legged myotis, pallid bat, pocketed free-tailed bat, Townsend's big-eared bat, western mastiff bat, western red bat, western small-footed myotis	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)	All natural communities	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA), SP-4.6-27 (removal of grazing and enhancement of habitat in the High Country SMA), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-21 (restoration/enhancement of coastal scrub in the High Country SMA, Salt Creek area, and River Corridor SMA), BIO-68 (day roost site replacement), BIO-84 (culvert and bridge design to provide roosting habitat for bats)	All natural communities, roost sites
Yuma myotis	BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126)		BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-68 (day roost site replacement), BIO-84 (culvert and bridge design to provide roosting habitat for bats)	Roost sites
American black bear, mountain lion	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing	All preserved open space vegetation communities	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the Project site), BIO-21 (restoration/enhancement of coastal scrub in the High	All restored open space vegetation communities

## APPENDIX A (Continued)

**Table 1  
Mitigation for Impacts to Sensitive Biological Resources**

Significant Impacts, Absent Mitigation to Sensitive Biological Resources	Preservation Mitigation Measures*	Preserve Type	Restoration Mitigation Measures	Restoration Type
	at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)		County SMA, Salt Creek area, and River Corridor SMA), BIO-22 (preparation and implementation of an Oak Resource Management Plan identifying areas suitable for oak woodland enhancement and creation)	
Restriction of wildlife movement corridors	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-20 (preservation of approximately 1,900 acres of coastal scrub on site)	Coastal sage scrub, chaparral, grassland, oak woodland, and riparian communities	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site), BIO-21 (restoration/enhancement of coastal scrub in the High Country SMA, Salt Creek area, and River Corridor SMA), BIO-22 (preparation and implementation of an Oak Resource Management Plan identifying areas suitable for oak woodland enhancement and creation)	Coastal sage scrub, chaparral, grassland, oak woodland, and riparian communities
Jurisdictional waters, streams, and drainages.	SP-4.6-21 through SP-4.6-26, SP-4.6-36 through SP-4.6-38, SP-4.6-40 through SP-4.6-42, (includes the open space dedication of the River Corridor and High Country SMAs), BIO-19 (dedication of the Salt Creek area to the public and enhancement of existing agricultural undercrossing at SR-126), BIO-62 (dedication to the public of at least 1,900 acres of Open Area to an NLMO)	Riparian communities	SP-4.6-1 through SP-4.6-16, and SP-4.6-63 (provide habitat restoration/enhancement in the River Corridor SMA and require a 1:1 riparian resource replacement), SP-4.6-18 and SP-4.6-19 (provide transition areas between the River Corridor SMA and development), SP-4.6-26a (oak tree replacement opportunities in the High Country SMA), SP-4.6-28 (mitigation banking for riparian and oak resources in High Country SMA), BIO-1 through BIO-16 (wetlands mitigation plan and riparian restoration activities on the project site)	Riparian communities

**Notes:**

\* The following measures are prescribed to the RMDP project area (Specific Plan) and for implementation of the Spineflower Conservation Plan. Many of these measures have been recommended for implementation of the Entrada South and VCC developments to ensure secondary impacts associated with the SCP to mitigate significant impacts. Subsequent EIRs for these planning areas should incorporate measures as appropriate.

## APPENDIX A (Continued)

**Table 2**  
**Landmark Village: Non-jurisdictional Resources**

Resource	Permanent Impacts (acres)	Mitigation Ratio	Mitigation Required for Permanent Impacts (acres)	Conceptual Mitigation		
				Acreage	Type	Location
California Annual Grassland, Agriculture, or Disturbed Land	312.05	0.5:1	156.03	57.08	Preservation	High Country SMA
				98.27		Homestead Village North
				2.44		Salt Creek area
Coastal Scrub	1.03	1.5:1	1.55	1.76	Preservation	High Country SMA
Non-jurisdictional Riparian	6.16	1:1	6.16	0.77	Preservation	Landmark Village
				0.74		Homestead North
				5.12		Valencia Commerce Center
<b>Total Upland Habitat</b>	<b>319.24</b>	<b>—</b>	<b>163.74</b>	<b>166.18</b>	<b>—</b>	<b>—</b>

## APPENDIX A (Continued)

**Table 3**  
**Mission Village: Non-jurisdictional Resources**

Resource		Permanent Impacts (acres)	Mitigation Ratio	Mitigation Required for Permanent Impacts (acres)	Conceptual Mitigation		
					Acreage	Type	Location
California Annual Grassland, Agriculture, or Disturbed Land		264.17	0.5:1	132.09	19.04	Preservation	Mission Village
					111.96		High Country SMA
					1.19		Potrero Village
Broad Leafed Upland Forest and Woodland	Coast Live Oak Woodland	3.90	1:1 Creation and/or 2:1 Enhancement	*	*	Creation and/or Enhancement	High Country SMA, Homestead Village North, Homestead Village South, Potrero Village, and Salt Creek area
	Other Woodland	2.59	1:1	2.59	0.20	Preservation	Mission Village
					1.56		High Country SMA
					0.87		Potrero Village
Chaparral		43.27	1:1	43.27	3.76	Preservation	Mission Village
					3.80		High Country SMA
					9.03		Potrero Village
					29.39		Salt Creek area
Coastal Scrub		588.07	1.5:1	837.11	80.81	Preservation	Mission Village
					494.31		High Country SMA
					297.23		Potrero Village
					15.07		Salt Creek area
Non-jurisdictional Riparian		30.64	1:1	30.64	8.67	Preservation	Mission Village
					9.35		High Country SMA
					13.22		Potrero Village
<b>Total Upland Habitat</b>		<b>932.64</b>	<b>—</b>	<b>1,045.70</b>	<b>1,099.47</b>	<b>—</b>	<b>—</b>

\* Mitigation acreage is dependent on the amount of oak woodland habitat created at a 1:1 mitigation ratio and/or enhanced at a 2:1 mitigation ratio. In addition to oak habitat mitigation, oak trees will be mitigated individually based on ratios in the County of Los Angeles Oak Tree Ordinance.

**APPENDIX A (Continued)**

**Table 4  
Water Reclamation Plant (WRP) – Utility Corridor: Non-jurisdictional Resources**

Resource	Permanent Impacts (acres)	Mitigation Ratio	Mitigation Required for Permanent Impacts (acres)	Conceptual Mitigation		
				Acreage	Type	Location
California Annual Grassland, Agriculture, or Disturbed Land	110.88	0.5:1	59.29	20.05	Preservation	Homestead North
				34.29		High Country SMA
				4.96		Salt Creek area
Coastal Scrub	0.96	1.5:1	2.80	0.70	Preservation	High Country SMA
				2.09		Salt Creek area
Non-jurisdictional Riparian	5.92	1:1	5.93	1.04	Preservation	High Country SMA
				1.61		Potrero Village
				3.28		Salt Creek area
<b>Total Upland Habitat</b>	<b>117.76</b>	<b>—</b>	<b>62.80</b>	<b>68.02</b>	<b>—</b>	<b>—</b>

## APPENDIX A (Continued)

**Table 5  
Homestead Village South: Non-jurisdictional Resources**

Resource		Permanent Impacts (acres)	Mitigation Ratio	Mitigation Required for Permanent Impacts (acres)	Conceptual Mitigation		
					Acreage	Type	Location
California Annual Grassland, Agriculture, or Disturbed Land		463.68	0.5:1	231.84	19.35	Preservation	Homestead Village South
					139.66		High Country SMA
					74.55		Salt Creek area
Broad Leafed Upland Forest and Woodland	Coast Live Oak Woodland	30.78	1:1 Creation and/or 2:1 Enhancement	*	*	Creation and/or Enhancement	High Country SMA, Homestead Village North, Homestead Village South, Potrero Village, and Salt Creek area
	Other Woodland	0.28	1:1	0.28	0.35	Preservation	High Country SMA
Chaparral		264.67	1:1	264.67	81.80	Preservation	Homestead Village South
					107.84		High Country SMA
					75.55		Potrero Village
Coastal Scrub		316.82	1.5:1	475.24	161.52	Preservation	Homestead Village South
					7.97		High Country SMA
					307.94		Salt Creek area
Non-jurisdictional Riparian		33.94	1:1	33.94	3.41	Preservation	Homestead Village South
					15.46		High Country SMA
					3.61		Potrero Village
					11.82		Salt Creek area
<b>Total Upland Habitat</b>		<b>1,110.17</b>	<b>—</b>	<b>1,005.97</b>	<b>1,010.84</b>	<b>—</b>	<b>—</b>

\* Mitigation acreage is dependent on the amount of oak woodland habitat created at a 1:1 mitigation ratio and/or enhanced at a 2:1 mitigation ratio. In addition to oak habitat mitigation, oak trees will be mitigated individually based on ratios in the County of Los Angeles Oak Tree Ordinance.

## APPENDIX A (Continued)

**Table 6  
Homestead Village North: Non-jurisdictional Resources**

Resource		Permanent Impacts (acres)	Mitigation Ratio	Mitigation Required for Permanent Impacts (acres)	Conceptual Mitigation		
					Acreage	Type	Location
California Annual Grassland, Agriculture, or Disturbed Land		506.34	0.5:1	253.17	255.80	Preservation	Homestead Village North
Broad Leafed Upland Forest and Woodland	Coast Live Oak Woodland	6.28	1:1 Creation and/or 2:1 Enhancement	*	*	Creation and/or Enhancement	High Country SMA, Homestead Village North, Homestead Village South, Potrero Village, and Salt Creek area
	Other Woodland	1.13	1:1	1.13	1.14	Preservation	High Country SMA, Salt Creek area
Chaparral		1.89	1:1	1.89	2.37	Preservation	Homestead Village North
Coastal Scrub		223.45	1.5:1	335.17	186.17	Preservation	Homestead Village North
					150.72		High Country SMA
Non-jurisdictional Riparian		16.95	1:1	16.95	10.20	Preservation	Homestead Village North
					7.07		High Country SMA
<b>Total Upland Habitat</b>		<b>756.05</b>	<b>—</b>	<b>608.31</b>	<b>613.46</b>	<b>—</b>	<b>—</b>

\* Mitigation acreage is dependent on the amount of oak woodland habitat created at a 1:1 mitigation ratio and/or enhanced at a 2:1 mitigation ratio. In addition to oak habitat mitigation, oak trees will be mitigated individually based on ratios in the County of Los Angeles Oak Tree Ordinance.

## APPENDIX A (Continued)

**Table 7**  
**Potrero Village: Non-jurisdictional Resources**

Resource		Permanent Impacts (acres)	Mitigation Ratio	Mitigation Required for Permanent Impacts (acres)	Conceptual Mitigation		
					Acreage	Type	Location
California Annual Grassland, Agriculture, or Disturbed Land		1,083.14	0.5:1	541.57	347.85	Preservation	Potrero Village
					70.96		High Country SMA
					123.53		Salt Creek area
Broad Leafed Upland Forest and Woodland	Oak Woodland	7.61	1:1 Creation and/or 2:1 Enhancement	*	*	Creation and/or Enhancement	High Country SMA, Homestead Village North, Homestead Village South, Potrero Village, and Salt Creek area
	Other Woodland	0.04	1:1	0.04	0.06	Preservation	Potrero Village
Chaparral		20.63	1:1	20.63	21.29	Preservation	Potrero Village
Coastal Scrub		125.98	1.5:1	188.96	189.25	Preservation	Potrero Village
Non-jurisdictional Riparian		5.84	1:1	5.84	6.14	Preservation	Potrero Village
<b>Total Upland Habitat</b>		<b>1,243.23</b>	<b>—</b>	<b>757.04</b>	<b>759.08</b>	<b>—</b>	<b>—</b>

\* Mitigation acreage is dependent on the amount of oak woodland habitat created at a 1:1 mitigation ratio and/or enhanced at a 2:1 mitigation ratio. In addition to oak habitat mitigation, oak trees will be mitigated individually based on ratios in the County of Los Angeles Oak Tree Ordinance.

**APPENDIX A (Continued)**

**Table 8  
Entrada South: Non-jurisdictional Resources**

Resource	Permanent Impacts (acres)	Mitigation Ratio	Mitigation Required for Permanent Impacts (acres)	Conceptual Mitigation		
				Acreage	Type	Location
California Annual Grassland, Agriculture, or Disturbed Land	71.46	0.5:1	35.52	8.17	Preservation	Entrada South
				30.35		High Country SMA
				0.12		Homestead Village North
Oak Woodland	4.29	1:1 Creation and/or 2:1 Enhancement	*	*	Creation and/or Enhancement	
Chaparral	21.39	1:1	21.39	22.30	Preservation	Salt Creek area
Coastal Scrub	129.21	1.5:1	193.82	21.68	Preservation	Entrada South
				7.79		High Country SMA
				165.58		Salt Creek area
Non-jurisdictional Riparian	13.28	1:1	13.28	0.83	Preservation	Entrada South
				6.32		High Country SMA
				6.92		Potrero Village
<b>Total Upland Habitat</b>	<b>239.63</b>	<b>—</b>	<b>264.01</b>	<b>274.00</b>	<b>—</b>	<b>—</b>

## APPENDIX A (Continued)

**Table 9  
Valencia Commerce Center: Non-jurisdictional Resources**

Resource		Permanent Impacts (acres)	Mitigation Ratio	Mitigation Required for Permanent Impacts (acres)	Conceptual Mitigation		
					Acreage	Type	Location
California Annual Grassland, Agriculture, or Disturbed Land		186.46	0.5:1	93.23	6.58	Preservation	Valencia Commerce Center
					78.81		High Country SMA
					4.53		Salt Creek area
					5.39		Potrero Village
Broad Leafed Upland Forest and Woodland	Oak Woodland	1.92	1:1 Creation and/or 2:1 Enhancement	*	*	Creation and/or Enhancement	High Country SMA, Homestead Village North, Homestead Village South, Potrero Village, and Salt Creek area
Chaparral		1.30	1:1	1.30	1.30	Preservation	Valencia Commerce Center
Coastal Scrub		88.68	1.5:1	133.01	100.78	Preservation	Valencia Commerce Center
					32.74		High Country SMA
Non-jurisdictional Riparian		10.93	1:1	10.93	11.04	Preservation	Valencia Commerce Center
<b>Total Upland Habitat</b>		<b>289.27</b>	<b>—</b>	<b>238.47</b>	<b>241.17</b>	<b>—</b>	<b>—</b>

\* Mitigation acreage is dependent on the amount of oak woodland habitat created at a 1:1 mitigation ratio and/or enhanced at a 2:1 mitigation ratio. In addition to oak habitat mitigation, oak trees will be mitigated individually based on ratios in the County of Los Angeles Oak Tree Ordinance.

## APPENDIX A (Continued)

**Table 10**  
**Salt Creek Area: Non-jurisdictional Resources**

Resource	Permanent Impacts (acres)	Mitigation Ratio	Mitigation Required for Permanent Impacts (acres)	Conceptual Mitigation		
				Acreage	Type	Location
California Annual Grassland, Agriculture, or Disturbed Land	6.41	0.5:1	3.21	3.77	Preservation	Salt Creek area
Coastal Scrub	0.22	1.5:1	0.33	0.41	Preservation	Salt Creek area
Non-jurisdictional Riparian	0.01	1:1	0.01	0.02	Preservation	Salt Creek area
<b>Total Upland Habitat</b>	<b>6.64</b>	<b>—</b>	<b>3.55</b>	<b>4.20</b>	<b>—</b>	<b>—</b>

**Table 11**  
**High Country SMA: Non-jurisdictional Resources**

Resource		Permanent Impacts (acres)	Mitigation Ratio	Mitigation Required for Permanent Impacts (acres)	Conceptual Mitigation		
					Acreage	Type	Location
California Annual Grassland, Agriculture, or Disturbed Land		6.45	0.5:1	3.23	4.42	Preservation	High Country SMA
Broad Leafed Upland Forest and Woodland	Oak Woodland	1.78	1:1 Creation and/or 2:1 Enhancement	*	*	Creation and/or Enhancement	High Country SMA, Homestead Village North, Homestead Village South, Potrero Village, and Salt Creek area
	Other Woodland	0.27	1:1	0.27	0.98	Preservation	High Country SMA
Chaparral		6.46	1:1	6.46	6.61	Preservation	High Country SMA
Coastal Scrub		4.39	1.5:1	6.58	7.19	Preservation	High Country SMA
Non-jurisdictional Riparian		0.22	1:1	0.22	0.20	Preservation	High Country SMA
<b>Total Upland Habitat</b>		<b>19.58</b>	<b>—</b>	<b>16.76</b>	<b>21.23</b>	<b>—</b>	<b>—</b>

\* Mitigation acreage is dependent on the amount of oak woodland habitat created at a 1:1 mitigation ratio and/or enhanced at a 2:1 mitigation ratio. In addition to oak habitat mitigation, oak trees will be mitigated individually based on ratios in the County of Los Angeles Oak Tree Ordinance.

## APPENDIX A (Continued)

**Table 12**  
**Total Impacts and Mitigation Required by Project**

Project	Permanent Impacts (Acres)	Mitigation Required (Acres) <sup>8</sup>	Resource Impacted
Landmark Village	319.24	163.74	California Annual Grassland, Agriculture, or Disturbed Land; Coastal Scrub; Non-jurisdictional Riparian
Mission Village	932.64	1,045.70	California Annual Grassland, Agriculture, or Disturbed Land; Broad Leafed Upland Forest and Woodland (Coast Live Oak Woodland, and Other Woodland); Chaparral; Coastal Scrub; Non-jurisdictional Riparian
WRP-Utility Corridor	117.76	62.80	California Annual Grassland, Agriculture, or Disturbed Land; Coastal Scrub; Non-jurisdictional Riparian
Homestead South Village	1,110.17	1,005.97	California Annual Grassland, Agriculture, or Disturbed Land; Broad Leafed Upland Forest and Woodland (Coast Live Oak Woodland, and Other Woodland); Chaparral; Coastal Scrub; Non-jurisdictional Riparian
Homestead North Village	756.05	608.31	California Annual Grassland, Agriculture, or Disturbed Land; Broad Leafed Upland Forest and Woodland (Coast Live Oak Woodland, and Other Woodland); Chaparral; Coastal Scrub; Non-jurisdictional Riparian
Potrero Village	1,243.23	757.04	California Annual Grassland, Agriculture, or Disturbed Land; Broad Leafed Upland Forest and Woodland (Coast Live Oak Woodland, and Other Woodland); Chaparral; Coastal Scrub; Non-jurisdictional Riparian
Entrada South Village	239.63	264.01	California Annual Grassland, Agriculture, or Disturbed Land; Broad Leafed Upland Forest and Woodland (Coast Live Oak Woodland); Chaparral; Coastal Scrub; Non-jurisdictional Riparian
Valencia Commerce Center (VCC)	289.27	238.47	California Annual Grassland, Agriculture, or Disturbed Land; Broad Leafed Upland Forest and Woodland (Coast Live Oak Woodland, and Other Woodland); Chaparral; Coastal Scrub; Non-jurisdictional Riparian
Salt and High Country	26.22	20.31	California Annual Grassland, Agriculture, or Disturbed Land; Broad Leafed Upland Forest and Woodland (Coast Live Oak Woodland, and Other Woodland); Chaparral; Coastal Scrub; Non-jurisdictional Riparian
<b>Summary Totals</b>	<b>4,714.97</b>	<b>4,002.61</b>	

<sup>8</sup> Permanent Impacts and Mitigation required are based on mitigation ratios as follows: CGL, AG, DL at 0.5:1; Broad Leafed Upland Forest and Woodland (Other Woodland) at 1:1; Chaparral at 1:1; Coastal Scrub at 1.5:1; and Non-Jurisdictional Riparian at 1:1.

## APPENDIX A (Continued)

**Table 13**  
**Additional Available Mitigation for Non-jurisdictional Resources**

Resource	Acreage	Location
Chaparral	1,217.13	High Country SMA
	0.42	Potrero Village
	72.89	Salt Creek Area
	28.72	Homestead North
	3.86	Valencia Commerce Center
Coastal Scrub	572.29	High Country SMA
	129.62	Salt Creek area
Oak Woodland	*	High Country SMA, Homestead Village North, Homestead Village South, Potrero Village, and Salt Creek area
Other Woodland	304.39	High Country SMA
	0.14	Mission Village
	133.58	Salt Creek area
	55.30	Potrero Village
<b>Total</b>	<b>2,518.35</b>	—

\* Available Oak Woodland acreage is dependent on the amount of oak woodland habitat created at a 1:1 mitigation ratio and/or enhanced at a 2:1 mitigation ratio.

**Table 14**  
**RMDP Jurisdictional Waters/Wetlands Impacts**

Vegetation Types	Santa Clara River and Castaic Creek							Tributary							RMDP TOTAL						
	Total Preserved	Total Impacts (Temp + Perm)	Temp Impacts	Temp Impact Mitigation	Perm Impacts	Quality	Perm Impact Mitigation	Total Preserved	Total Impacts (Temp + Perm)	Temp Impacts	Temp Impact Mitigation	Perm Impacts	Quality	Perm Impact Mitigation	Total Preserved	Total Impacts (Temp + Perm)	Temp Impacts	Temp Impact Mitigation	Perm Impacts	Perm Impact Mitigation	
	(Acres)	(Acres)	(Acres)	(Acres)	(Acres)		(Acres)	(Acres)	(Acres)	(Acres)	(Acres)	(Acres)		(Acres)	(Acres)	(Acres)	(Acres)	(Acres)	(Acres)	(Acres)	
Agricultural, Developed, Disturbed	4.75	4.36	3.21	3.21	0.83	Medium	0.83	5.16	9.86	1.30	1.30	3.44	Low	3.44	9.91	14.22	4.51	4.51	9.70	9.69	
					0.31	High	0.31					4.29	Medium	4.29							
												0.82	High	0.82							
California Annual Grasslands	6.03	0.00	0.00	0.00	0.00	N/A	0.00	10.13	2.34	0.61	0.61	1.60	Medium	1.60	16.15	2.34	0.61	0.61	1.74	1.74	
												0.14	High	0.14							
California Sagebrush and dominated habitats)	2.68	0.29	0.11	0.11	0.01	Medium	0.01	8.54	4.00	0.21	0.21	2.40	Medium	3.60	11.22	4.29	0.32	0.32	3.97	6.74	
					0.17	High	0.35					1.39	High	2.78							
Dry Riparian Scrub (Arrowweed, Alluvial, Mulefat scrub)*	30.47	9.67	3.44	3.44	6.20	Medium	9.30	15.77	4.61	3.90	3.90	0.56	Medium	0.83	46.24	14.28	7.34	7.34	6.94	10.49	
					0.03	High	0.06					0.15	High	0.30							
Herbaceous Wetland	3.12	0.00	0.00	0.00	0.00	N/A	0.00	0.02	0.02	0.01	0.01	0.01	Medium	0.01	3.14	0.02	0.01	0.01	0.02	0.02	
												0.00	High	0.01							
Cismontane Alkaline Marsh/Freshwater Marsh	0.00	0.00	0.00	0.00	0.00	N/A	0.00	16.75	2.34	1.74	1.74	0.06	Medium	0.09	16.75	2.34	1.74	1.74	0.60	1.17	
												0.54	High	1.08							
Mature Riparian Forest (Cottonwood/Coast Live Oak)	396.76	25.46	17.28	17.28	0.57	Medium	1.72	6.92	4.31	1.45	1.45	0.01	Low	0.02	403.67	29.77	18.73	18.73	11.04	41.46	
					7.61	High	30.44					2.11	Medium	6.33							
												0.74	High	2.95							
Oak Forest (Coast Live, Valley, Mixed, Oak Grassland)	1.41	0.00	0.00	0.00	0.00	N/A	0.00	34.08	5.20	1.37	1.37	2.51	Medium	6.28	35.49	5.2	1.37	1.37	3.83	10.23	
												1.32	High	3.95							
Other Scrub (Coyote Brush, Chaparral, Chamise, Eriodictyon Scrub)	0.19	0.00	0.00	0.00	0.00	N/A	0.00	14.37	3.88	0.27	0.27	0.74	Medium	1.10	14.59	3.88	0.27	0.27	3.61	6.84	
												2.87	High	5.74							
Riparian Scrub (Big Sage Scrub, Mexican Elderberry)	47.46	2.15	1.38	1.38	0.67	Medium	1.67	6.56	11.51	2.89	2.89	8.26	Medium	20.64	54.02	13.66	4.27	4.27	9.38	23.68	
					0.09	High	0.28					0.36	High	1.09							
River Wash	217.95	7.74	5.82	5.82	1.01	Medium	1.26	16.79	20.00	8.88	8.88	0.65	Low	0.65	234.74	27.74	14.70	14.70	13.04	17.01	
					0.92	High	1.38					7.97	Medium	9.96							
												2.50	High	3.76							
<b>Totals</b>	<b>710.82</b>	<b>49.67</b>	<b>31.24</b>	<b>31.24</b>	<b>18.42</b>	<b>-</b>	<b>47.61</b>	<b>135.09</b>	<b>68.07</b>	<b>22.63</b>	<b>22.63</b>	<b>45.44</b>	<b>-</b>	<b>81.46</b>	<b>845.92</b>	<b>117.74</b>	<b>53.87</b>	<b>53.87</b>	<b>63.87</b>	<b>129.07</b>	
<b>Total Mitigation Required:</b>							<b>78.85</b>	<b>Total Mitigation Required:</b>							<b>104.09</b>	<b>Total Mitigation Required:</b>					<b>182.94</b>
<b>Post-Project Jurisdiction (net of Preserved):</b>							<b>710.82</b>	<b>Post-Project Jurisdiction (net of Preserved):</b>							<b>135.09</b>	<b>Post-Project Jurisdiction (net of Preserved):</b>					<b>845.88</b>

\* Includes TAM (Tamarisk) and GRG (Giant Reed Grass)

**Table 15**  
**Valencia Commerce Center and Entrada South Jurisdictional Waters/Wetlands Impacts**

Vegetation Types	Valencia Commerce Center – Santa Clara River and Castaic Creek							Entrada South – Tributary							
	Total Preserved	Total Impacts (Temp + Perm)	Temp Impacts	Temp Impact Mitigation	Perm Impacts	Quality	Perm Impact Mitigation	Total Preserved	Total Impacts (Temp + Perm)	Temp Impacts	Temp Impact Mitigation	Perm Impacts	Quality	Perm Impact Mitigation	
	(Acres)	(Acres)	(Acres)	(Acres)	(Acres)		(Acres)	(Acres)	(Acres)	(Acres)	(Acres)	(Acres)		(Acres)	(Acres)
Agricultural, Developed, Disturbed	2.41	2.49	0.00	0.00	2.49	Medium	2.49	0.00	0.31	0.00	0.00	0.31	Medium	0.31	
California Annual Grasslands	0.84	1.13	0.00	0.00	1.13	Medium	1.13	0.00	1.31	0.00	0.00	1.31	Medium	1.31	
California Sagebrush and dominated habitats)	0.27	0.73	0.00	0.00	0.73	Medium	1.09	0.00	0.75	0.00	0.00	0.75	Medium	1.12	
Dry Riparian Scrub (Arrowweed, Alluvial, Mulefat scrub)*	4.63	1.77	0.00	0.00	1.77	Medium	2.66	0.00	0.00	0.00	0.00	0.00	N/A	0.00	
Herbaceous Wetland	0.00	0.00	0.00	0.00	0.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00	N/A	0.00	
Cismontane Alkaline Marsh/Freshwater Marsh	0.00	0.00	0.00	0.00	0.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00	N/A	0.00	
Mature Riparian Forest (Cottonwood/Coast Live Oak)	85.55	3.31	0.00	0.00	3.31	Medium	9.93	0.00	0.00	0.00	0.00	0.00	N/A	0.00	
Oak Forest (Coast Live, Valley, Mixed, Oak Grassland)	0.00	0.00	0.00	0.00	0.00	N/A	0.00	0.00	0.17	0.00	0.00	0.17	Medium	0.43	
Other Scrub (Coyote Brush, Chaparral, Chamise, Eriodictyon Scrub)	0.00	0.00	0.00	0.00	0.00	N/A	0.00	0.00	1.01	0.00	0.00	1.01	Medium	1.51	
Riparian Scrub (Big Sage Scrub, Mexican Elderberry)	0.18	0.02	0.00	0.00	0.02	Medium	0.06	0.00	1.08	0.00	0.00	1.08	Medium	2.71	
River Wash	30.78	6.76	0.00	0.00	6.76	Medium	8.45	0.00	5.06	0.00	0.00	5.06	Medium	6.32	
<b>Totals</b>	<b>124.66</b>	<b>16.21</b>	<b>0.00</b>	<b>0.00</b>	<b>16.21</b>	<b>-</b>	<b>25.81</b>	<b>0.00</b>	<b>9.69</b>	<b>0.00</b>	<b>0.00</b>	<b>9.69</b>	<b>-</b>	<b>13.71</b>	
<b>Total Mitigation Required:</b>							<b>25.81</b>	<b>Total Mitigation Required:</b>							<b>13.71</b>
<b>Post-Project Jurisdiction (net of Preserved):</b>							<b>124.66</b>	<b>Post-Project Jurisdiction (net of Preserved):</b>							<b>0.00</b>

## APPENDIX A (Continued)

**Table 16**  
**Total (RMDP, VCC, and Entrada South) Jurisdictional Waters/Wetlands Impacts**

Vegetation Types	RMDP Total					
	Total Preserved	Total Impacts (Temp + Perm)	Temp Impacts	Temp Impact Mitigation	Perm Impacts	Perm Impact Mitigation
	(Acres)	(Acres)	(Acres)	(Acres)	(Acres)	(Acres)
Agricultural, Developed, Disturbed	12.32	17.02	4.51	4.51	12.5	12.49
California Annual Grasslands	16.99	4.78	0.61	0.61	4.18	4.18
California Sagebrush and dominated habitats)	11.49	5.77	0.32	0.32	5.45	8.95
Dry Riparian Scrub (Arrowweed, Alluvial, Mulefat scrub)*	50.87	16.05	7.34	7.34	8.71	13.15
Herbaceous Wetland	3.14	0.02	0.01	0.01	0.02	0.02
Cismontane Alkaline Marsh/Freshwater Marsh	16.75	2.34	1.74	1.74	0.60	1.17
Mature Riparian Forest (Cottonwood/Coast Live Oak)	489.22	33.08	18.73	18.73	14.35	51.39
Oak Forest (Coast Live, Valley, Mixed, Oak Grassland)	35.49	5.37	1.37	1.37	4.00	10.66
Other Scrub (Coyote Brush, Chaparral, Chamise, Eriodictyon Scrub)	14.59	4.89	0.27	0.27	4.62	8.35
Riparian Scrub (Big Sage Scrub, Mexican Elderberry, Southern Willow Scrub)	54.20	14.76	4.27	4.27	10.48	26.45
River Wash	265.52	39.56	14.70	14.70	24.86	31.78
<b>Totals</b>	<b>970.58</b>	<b>143.64</b>	<b>53.87</b>	<b>53.87</b>	<b>89.77</b>	<b>168.59</b>
<b>Total Mitigation Required:</b>						<b>222.46</b>
<b>Post-Project Jurisdiction (net of Preserved):</b>						<b>970.58</b>

\* Includes TAM (Tamarisk) and GRG (Giant Reed Grass)

## APPENDIX A (Continued)

**Table 17**  
**Locations to Implement Mitigation for Jurisdictional Resources**

<b>Resource</b>	<b>Creation Acreage</b>	<b>Enhancement Acreage</b>	<b>Restoration Acreage</b>	<b>Total Acreage</b>	<b>Habitats and Location</b>
Chiquito Canyon	17.17	0.00	11.34	28.51	Various riparian and transitional habitats along the bed and bank of modified Chiquito Canyon Drainage.
Lion Canyon	9.35	0.00	2.41	11.76	Various riparian and transitional habitats along the bed and bank of stabilized Lion Canyon Drainage.
Long Canyon	53.11	0.00	3.46	56.57	Various riparian and transitional habitats along the bed and bank of reconstructed Long Canyon Drainage.
Potrero Canyon	113.23	0.00	41.48	154.71	Various wetland, riparian and transitional habitats along the bed and bank of reconstructed Potrero Canyon Drainage.
San Martinez Grande Canyon	10.48	0.00	2.45	12.93	Various wetland, riparian and transitional habitats along the bed and bank of modified San Martinez Grande Canyon Drainage.
Santa Clara River	123.77	712.91	32.96	869.64	Creation: Various wetland, riparian and transitional habitats along the river bank stabilization and converted agricultural fields. Enhancement: Conversion of non-native vegetated areas of the Santa Clara River corridor to native riparian habitats and exotic / invasive species removal and control.
<b>Total</b>	<b>327.11</b>	<b>712.91</b>	<b>94.10</b>	<b>1,134.12</b>	—