

STAFF REPORT

SUBJECT: D'Alonzo Highway 4 Property Preserve
Acquisition and Preserve Management Plan

RECOMMENDED ACTION: Motion to 1) Approve the Conservation
Easement Acquisition and 2) Approve the
Preserve Management Plan (PMP) for the
Preserve Site

DISCUSSION:

SUMMARY:

The D'Alonzo Highway 4 Property parcels under consideration are a total of 35 +/- acres. The land owner and SJCOG, Inc. are discussing a conservation easement under the habitat plan of 30 +/- acres on the property. The location of the property is south of Highway 4 just west of the San Joaquin River in the Delta Zone. The potential preserve is adjacent to an existing SJCOG, Inc. preserve in the Delta Zone area, also shown in the attachment 1 and 2.

With the acquisition, SJCOG, Inc. staff has written this draft Preserve Management Plan (PMP) to reflect the existing Preserve Management Plans (PMP) of the row and field crop/irrigated pasture preserves in the Delta Zone for economy of scale for species under the SJMSCP. The PMP has no specific enhancements for areas on the referenced property except for keeping it as irrigated pasture land but future enhancements can be included later which will be compatible with on-going farming activities in cooperation with the land owner to restore habitat for various species since there have been historical records of Swainson's hawks and other species near the property in the California Natural Diversity Database (CNDDB) through a supplemental restoration plan.

RECOMMENDATION:

A motion to 1) approve the conservation easement acquisition and 2) approve the preserve management plan (PMP).

FISCAL IMPACT:

SJCOG, Inc. will be acquiring an overall easement on approximately 30 +/- acres of active agricultural habitat as irrigated pasture under the SJMSCP. The cost of the easement is valued at an average cost not to exceed \$8,500 per acre with a total acquisition cost of approximately **\$255,000** and the applicable closing costs required. Also, SJCOG, Inc. will be providing an endowment to be set aside in a specific endowment fund for the preserve in the amount of roughly **\$125,905.80** (30 +/- acres x \$4,196.86 per acre for 2017 endowment amount). These

funds will be used for land management and enhancements as required under the SJMSCP permits.

BACKGROUND:

The D'Alonzo Highway 4 property is south of Highway 4 just west of the San Joaquin River in the Delta Zone. The conservation easement will cover the existing agricultural lands which are irrigated pasture to serve as mitigation for prior development impacts under the SJMSCP to row and field crop habitat for the betterment of species covered under the SJMSCP.

The Preserve Management Plan (PMP) (attachment 3) drafted by ICF reflect the existing Preserve Management Plans (PMP) of the row and field crop preserves in the Central Zone for economy of scale for species under the SJMSCP. Currently, there are no enhancements planned to the landscape but any additional future enhancements planned on the property not displayed in Table 1 would be brought back as a supplemental PMP in the future to be completed in cooperation with the land owner. The land owners display very good stewardship practices and there are very little invasive species within the fields on premises.

Table 1 – Enhancements for Row and Field Crop/Riparian Preserves

Enhancement Potential Under SJMSCP	Y	N	N/A
Use of Herbicides, pesticides and/or rodenticide in accordance with Sect. 5.4.5(M) & 5.4.7.1	X		
Create, expand or restore riparian area to enhance nesting		X	
Plant elderberry plants for VELB		X	
Enhance foraging habitat using native grass and forb species (Appendix N)		X	
Install roosting or nest sites and platforms		X	
Fencing of riparian areas			X
Install bat boxes			X
Maintain water quality within creeks and wetlands (e.g. red-legged frog habitat)			X
Create burrowing owl burrows		X	
Eliminate invasive and undesirable species	X		
Plant vegetation (e.g. tules, blackberry thickets & cattails for tricolor blackbird/GGS)	X		

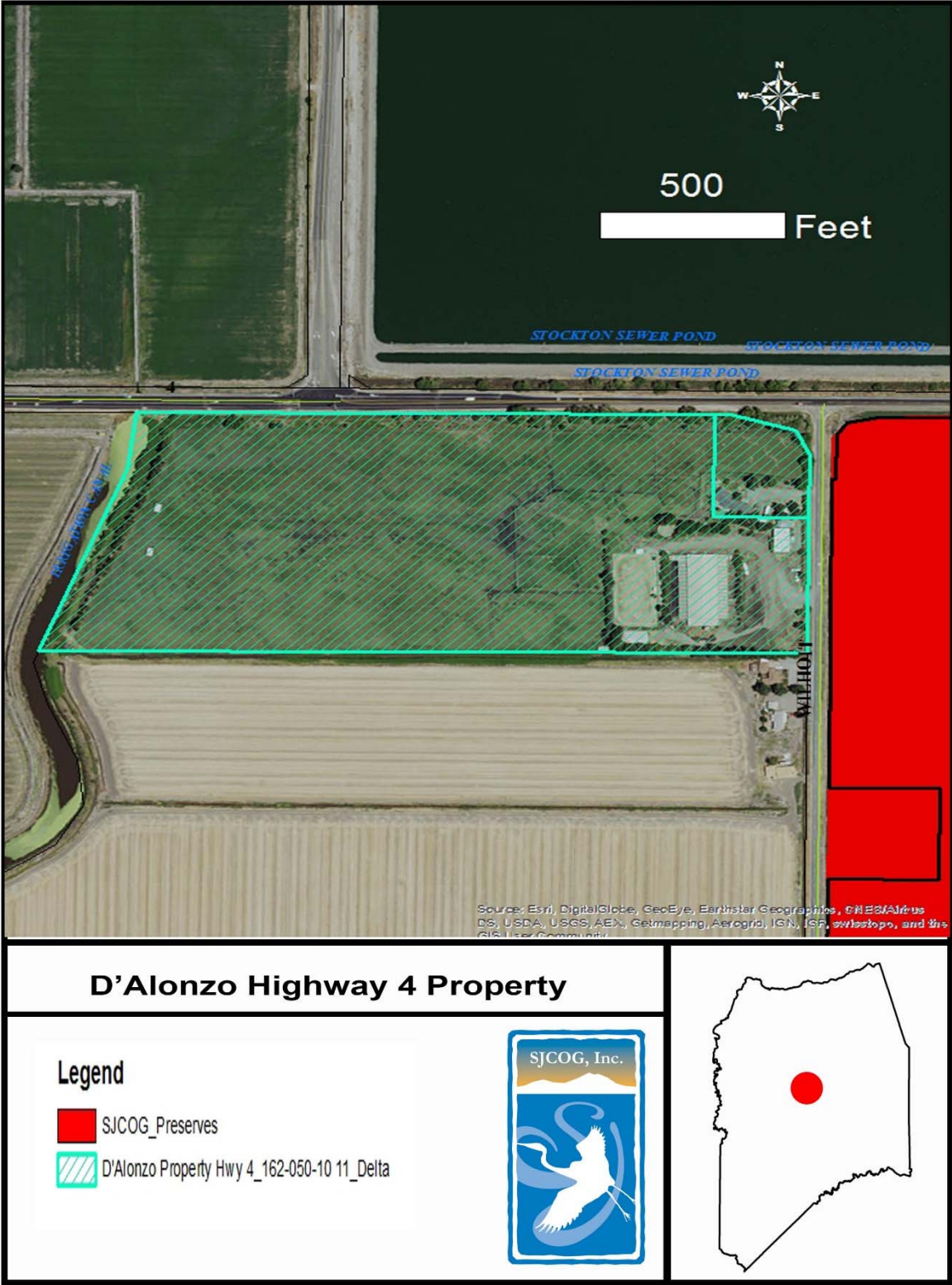
COMMITTEE ACTIONS:

- Habitat Technical Advisory Committee: Recommended Approval
- SJCOG, Inc. Board – Action Required

ATTACHMENTS:

1. Overview Preserve Location Map
2. Preserve Location Map
3. Preserve Management Plan

Prepared by: Steven Mayo, Program Manager



ATTACHMENT 3

DRAFT PRESERVE MANAGEMENT PLAN FOR THE D'ALONZO HIGHWAY 4 PROPERTY PRESERVE

PREPARED FOR:

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Stockton, CA 95202
Contact: Steve Mayo
209.235.0600

PREPARED BY:

ICF International
630 K Street, Suite 400
Sacramento, CA 95814
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May 3, 2017



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Acronyms and Abbreviations

amsl	above mean sea level
CNDDDB	California Natural Diversity Database
GIS	geographic information systems
HTAC	Habitat Technical Advisory Committee
DH4PP	D'Alonzo Highway 4 Property Preserve
SJCOG	SJCOG, Inc.
SJMSCP	San Joaquin County Multi-Species Habitat Conservation and Open Space Plan
USGS	U.S. Geological Survey

Chapter 1

Introduction

SJCOG, Inc., is currently implementing the *San Joaquin County Multi-Species Habitat Conservation and Open Space Plan* (SJMSCP)¹ (San Joaquin Council of Governments 2001). The principal biological goal of the SJMSCP (the Plan) is to maintain habitat of sufficient quality and quantity to conserve populations of all fish, wildlife, and plant species covered by the Plan. As part of this Plan, lands within the SJMSCP area are acquired as preserves from willing landowners through either conservation easements or fee title purchase.

This document is the Preserve Management Plan (PMP) for the D'Alonzo Highway 4 Property Preserve (DH4PP), owned by Larry and Donette D'Alonzo, on which a conservation easement is being placed. The two parcels are approximately 34 acres. A conservation easement is being placed on approximately 30 of those acres by SJCOG Inc., and will be incorporated into the preserve system as a row and field crop preserve.

The DH4PP is intended to offset impacts resulting from the conversion of agricultural lands primarily within the Central Zone, as allowed in Section 5.1.2.6 of the Plan.

1.1 Purpose of the Preserve Management Plan

The PMP sets forth specific guidelines regarding land management and monitoring activities to ensure the landowner(s) and SJCOG, Inc., are in agreement with the conditions of the conservation easement and the manner in which preserve lands will be managed and monitored.

The PMP describes the baseline biological conditions of the property; states the goals and objectives of management; and describes the ongoing land management activities, including permitted and prohibited uses of the property and any affirmative obligations of the landowner(s).

The PMP also sets forth guidelines for adaptive management as required under the SJMSCP. Adaptive management is a systematic process for continually improving management policies and practices by learning from the outcomes of operational programs.

1.2 Preserve Location

The DH4PP is located approximately 1.5 miles west of the San Joaquin River just south of Highway 4 on the western edge of the City of Stockton in San Joaquin County, CA (Figure 1). Information pertaining to the property is provided in Table 1.

¹ San Joaquin County Council of Governments. 2001. *San Joaquin County Multi-Species Habitat Conservation & Open Space Plan*. Stockton, CA. Available: <<http://www.sjcog.org/sections/habitat/sjmscp>>. Accessed August 28, 2009.

Table 1. D'Alonzo Highway 4 Property Preserve Information

Assessor's Parcel Number	162-050-10, 162-050-11
Acreage	30 acres
SJMSCP Index Zone	Delta Zone
USGS 7.5-minute quadrangle	Stockton West
Township	1N
Range	6E
Section	Unsurveyed
SJMSCP = <i>San Joaquin County Multi-Species Habitat Conservation and Open Space Plan</i> ; USGS = U.S. Geological Survey	

The DH4PP is located in the northeast corner of the Delta Zone less than 1 mile west of the Jaques Highway 4 Property Preserve, and approximately 5 miles north of the Wing Levee preserve (Figure 2). Acquisition of this property furthers the objectives of preserve consolidation outlined in the SJMSCP between the Jaques Highway 4 Preserve to the north and the Jaques Wing Levee Preserve to the south (Figure 2).

1.3 Land Ownership and Management

The parties responsible for managing lands in accordance with the PMP for the DH4PP are listed below.

Landowner

Larry and Donette D'Alonzo
4080 West State Route Highway 4
Stockton, CA XXXXX
Phone: XXX.XXX.XXXX

Conservation easement holder

SJCOG, Inc.
555 East Weber Street
Stockton, CA 95202
Contact: Steven Mayo
Phone: 209.235.0600

Land manager

ICF International
630 K Street, Suite 400
Sacramento, CA 95814
Contact: Doug Leslie
Phone: 916.737.3000

Baseline Preserve Characteristics, Goals and Objectives

As noted above, the DH4PP is an approximately 30-acre portion of the property owned by Larry and Donette D'Alonzo. The property is comprised of a single field that is flood irrigated and used primarily for horse pasture (Figure 3). At the time of the site visit in April 2017, the field was uneven and weedy, with approximately 17 horses grazing (Figure 4). The property is bordered on the north by a large linear water conveyance feature that supports a narrow band of mature Eucalyptus trees (*Eucalyptus spp.*) and Willows (*Salix spp.*) (Figure 4). The western side of the field is bordered by Willow scrub, Himalayan blackberry (*Rubus armeniacus*) and patches of Pampas grass (*Cortaderia spp.*). The southern end of the property is bordered by a large wall of Himalayan blackberry.

The SJMSCP geographic information systems (GIS) database and the California Natural Diversity Database (CNDDDB 5/1/2017) were searched to identify records of SJMSCP-covered species within approximately 2 miles of the DH4PP. Valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*) occur frequently (16 records) along the San Joaquin River. There are 4 occurrences of Swainson's hawk (*Buteo swainsoni*), one occurrence of Double crested cormorant (*Phalacrocorax auritus*), 6 occurrences of Mason's Lilaopsis (*Lilaopsis masonii*), and 3 occurrences of Delta Tule Pea (*Lathyrus jepsonii*) (Figure 5).

2.1 Wildlife Habitat Associations Identified in the SJMSCP

The habitats and preserve elements described in the SJMSCP and present on the DH4PP are listed below.

- Row and field crop.
- Presence of rodents.
- Presence of nesting substrate (e.g. cattails, tules, blackberry thickets) for breeding populations...
- Presence of pigeons or mice.
- Presence of small reptiles and/or amphibians in shallow waters
- Presence of tall perching sites.....

These habitats and preserve elements, according to the SJMSCP, provide foraging habitat for the SJMSCP-covered species listed below.

- Swainson's hawk
- Northern harrier (*Circus cyaneus*)
- White-tailed kite (*Elanus leucurus*)
- Tricolored blackbird (*Agelaius tricolor*)

- Merlin (*Falco columbarius*)
- Great egret (*Casmerodius albus*)
- Great blue heron (*Ardea herodias*)
- Loggerhead shrike (*Lanius ludovicianus*)

The agricultural habitats on the preserve also benefit several other common bird species, including killdeer (*Charadrius vociferus*), American pipit (*Anthus rubescens*), House finch (*Haemorrhous mexicanus*), and Western bluebird (*Sialia Mexicana*), as well as habitat for jackrabbits (*Lepus californicus*), coyotes (*Canis latrans*), raccoons (*Procyon lotor*), opossums (*Didelphis virginiana*), and gopher snakes (*Pituophis catenifer*). The adjacent riparian habitats provide habitat for nesting hawks, owls, and other species.

2.2 Goal and Objectives of the Management Plan

The DH4PP will be managed as a Row and Field Crop Preserve as described in Section 5.4.4.4 of the SJMSCP. The goal of this preserve type is to maintain and enhance the *habitat values* extant on the site for the benefit of Swainson's hawk, tricolored blackbird, and other species covered by the SJMSCP that depend to varying degrees upon habitat values provided by irrigated pasture and – to a lesser extent – row, grain and hay crops. **Habitat Values** are defined herein as the resources provided on the landscape that provide benefits for covered species, such as abundant and accessible prey or forage, cover, perch sites, nest sites, water, or other resources necessary for survival and reproduction. Habitat values decrease with increasing disturbance, pesticide and herbicide use, and increasing habitat uniformity. Because the DH4PP is comprised of irrigated pasture and contains a sizable patch of Himalayan blackberry, which together provide potential habitat for nesting tricolored blackbirds, the primary goal of the preserve is to provide nesting and foraging habitat for tricolored blackbird and other SJMSCP-covered species.

Chapter 3

Land Management Activities

This chapter discusses the land management activities that will be implemented under the conservation easement. The desired agricultural practices as well as permitted and prohibited land uses are discussed.

The DH4PP will be managed according to the guidelines for Central Zone Row and Field Crop Preserves outlined in the SJMSCP. These guidelines state that the key management practice for the agricultural use of row and field crops is to grow only those crops having a canopy structure and other attributes that do not mechanically prevent foraging by raptors.

3.1 Agricultural Practices

Land management practices on the DH4PP have historically provided benefits for SJMSCP-covered species. These practices will be continued as part of this PMP. The property is currently being used as irrigated pasture. Conversion to other row, grain and/or hay crops, vineyards, orchards, blueberries, and other permanent or semi-permanent crops are prohibited without permission from the SJCOG, Inc., Habitat Technical Advisory Committee (HTAC).

3.2 Prohibited Uses and Activities

This section identifies prohibited uses of the preserve under the DH4PP Conservation Easement. *Landowner* refers to Larry and Donette D'Alonzo. *SJCOG, Inc.*, refers to all agencies, organizations, or individuals affiliated with or that represent the SJCOG, Inc., during implementation of actions under the preserve management plan.

3.2.1 Access and Trespass/Illegal Uses/Signage

No access to the general public will be permitted. The SJMSCP requires that signage be installed at all preserves under conservation easement. At the landowner's discretion, the signage can identify the property as being part of the San Joaquin County Open Space system, or *No Trespassing* signs can be installed. Signage should be installed on the DH4PP within 120 days following approval of the conservation easement. The signs should be installed along public roadways and rights-of-way and should clearly state that public access is prohibited. The signs will be provided by the SJCOG, Inc., and installed by the landowner.

3.2.2 Agricultural Conversion

The conversion of the preserve from irrigated pasture to agricultural uses that are not compatible with providing foraging habitat for Swainson's hawk, Tricolored blackbird, and other covered species (e.g., conversion to orchards, vineyards, blueberries, or other permanent or semi-permanent crop types) is prohibited without prior approval by the HTAC.

3.2.3 Alteration of Watercourses

The alteration or manipulation of any natural watercourse, wetland, or body of water and activities or uses that are detrimental to water quality, including, but not limited to, degradation, pollution, or fill, are prohibited. This prohibition does not include irrigation of crops, drainage of agricultural fields, routine maintenance of ditches, or installation of preserve enhancements approved by the HTAC.

3.2.4 Chemicals

Except for those pesticides, herbicides, fungicides, or fertilizers used in ongoing row and field crop production in strict compliance with application and labeling instructions, no chemicals will be used on the preserve unless they are used for the specific purpose of controlling exotic weed or pest species that may threaten habitat functions and values. All chemicals will be used, stored, and disposed of in strict compliance with labeling instructions and applicable laws.

3.2.5 Dumping

The dumping, storage, or other disposal of refuse, trash, sewer sludge, and toxic or hazardous materials or chemicals is not permitted on the preserve. This prohibition includes the storage or disassembly of inoperable automobiles, trucks, farm equipment, or other machinery for the purpose of sale or storage.

3.2.6 Hunting and Fishing

Commercial fishing, hunting and trapping are prohibited. No recreational hunting or fishing that could result in take under the federal or stated endangered species acts is permitted.

3.2.7 Vegetation Removal or Destruction

The removal of any natural vegetation (such as riparian habitats) or vegetation installed as part of a preserve enhancement project is prohibited. Removal of the large patch of Himalayan blackberry along the southern border of the property or removal of large trees with potential to be used as nesting habitat by covered species is prohibited without the prior approval of the HTAC.

3.2.8 Natural Resource Development

The filling, dumping, excavating, draining, dredging, mining, drilling, removing, exploring, or extracting of or for minerals, soils, sands, gravels, rocks, or other material on or below the surface of the preserve is prohibited, unless otherwise approved by the HTAC.

3.2.9 Pest Management

Pest management is an ongoing activity associated with agricultural production. However, chemical rodent control should be minimized to the extent possible to maximize habitat values for covered species. The implementation of pest management is restricted in accordance with the parameters listed below to ensure that agricultural activities are consistent with the goals and objectives of the SJMSCP.

- All vertebrate pest control measures will be conducted in accordance with rodenticide labeling instructions, in accordance with Endangered Species Act Bulletins (available from local Agricultural Commissioner), and in accordance with Agricultural Commissioners (regulation and procedures).
- Anti-coagulant pesticides are prohibited.
- Application of rodenticides is restricted to bait feeders and should not be used unless absolutely necessary. Rodenticide baiting in burrows and rodenticide broadcast baiting are prohibited, with the following exceptions:

The use of strychnine or other non-anticoagulant rodenticides (such as ZP Rodent Oat Bait or AG Oat Grain Bait) dispersed underground (using a gopher-baiting machine for example) for pocket gopher abatement is allowed. The intention is to ensure that dead pocket gophers remain underground to eliminate the possibility of secondary poisoning of covered species. While the aforementioned rodenticide labels list other uses for the product, such as vole control in alfalfa fields, their use for control of species other than pocket gophers in a manner other than specified above is prohibited because their above ground use would pose a danger to covered species.

If vertebrate pest control procedures are not effective and additional control is necessary, adaptive management procedures will be followed. The landowner will consult with the HTAC in a timely fashion and in accordance with the SJMSCP.

3.2.10 Recreational Activities

No revenue-generating recreational activities are permitted. Private recreational activities that degrade the habitat values of the property are prohibited.

3.2.11 Roads

The construction of new roads is prohibited.

3.2.12 Structures

The construction or placement of the structures listed below is prohibited on the preserve.

- New residential or other buildings.
- Camping accommodations.
- Mobile homes, house trailers, permanent tent facilities, Quonset huts or similar structures.
- Underground tanks.
- Billboards, signs, or other advertising.
- Streetlights.
- New utility structures or power lines except those required to power new pumps on the property for agricultural purposes.
- New sewer systems.

3.2.13 Vehicle Use

The use of motorized vehicles off designated roadways, except for agricultural purposes, is prohibited.

3.3 Permitted Uses and Activities

This section identifies permitted uses of the preserve under the DH4PP Conservation Easement. Although some activities may be permitted under this PMP, all activities are still subordinate and subject to all applicable Federal, State, and local laws and regulations. The primary permitted use of the property is the continuation of row and field crop agriculture.

3.3.1 Hunting and Fishing

Noncommercial fishing, hunting and trapping of wildlife is permitted so long as it is conducted in compliance with applicable laws and regulations and in a manner that does not compromise the habitat values or damage the ecology of the biological resources on the preserve.

3.3.2 Roads

Resurfacing of existing roads with onsite materials and clean gravel is permitted as long as material is kept within the immediate roadway.

3.4 Affirmative Obligations

This section identifies the affirmative obligations of the landowner under the DH4PP Conservation Easement. Affirmative obligations include both activities and permissions. All activities and permissions are subordinate and subject to all applicable Federal, State, and local laws and regulations.

3.4.1 Emergency Vehicle Access

The landowner must allow emergency vehicles to have direct access to the preserve from South Wilhoit Road when necessary (Figure 3). The DH4PP is currently protected by gates but is not actively patrolled.

3.4.2 Maintenance and Repair

SJCOG, Inc., is not responsible for general maintenance, repair, and replacement of existing facilities such as roads, fences, agricultural ditches, and irrigation supply lines and pumps. The landowner retains responsibility for these items and other general maintenance.

3.4.3 Monitoring and Reporting

SJCOG, Inc., is required to track crops grown on the preserve, ensure that the terms of the conservation easement are adhered to, and to conduct monitoring to ensure that acquisition and

management of the easement are facilitating the achievement of the SJMSCP goals and objectives. Therefore, the landowner is required to allow reasonable access to the preserve by SJCOG, Inc. for purposes of ensuring compliance with the terms of the conservation easement and for purposes of monitoring use of the preserve by covered species.

3.4.4 Preserve Enhancements

No preserve enhancements are currently proposed on the DH4PP due to the presence of substantial nesting and riparian habitat immediately adjacent to the preserve. However, efforts to increase the suitability of the patches of Himalayan blackberry along the southern border of the preserve as nesting habitat for tricolored blackbird may be considered in the future.

3.5 Implementation and Management Schedule

The landowners will begin implementing and managing the preserve in accordance with this PMP immediately upon formal approval and acceptance of the conservation easement by the landowners, SJCOG, Inc., and the HTAC. The landowners and SJCOG, Inc., intend that the property be preserved and maintained in perpetuity by permitting only those agricultural practices that provide foraging habitat for Swainson's hawk and other SJMSCP-covered species that forage in agricultural habitats. The proposed agricultural practices are beneficial to these species.

Chapter 4

Monitoring and Adaptive Management

This chapter describes the biological monitoring plan and reporting requirements for land management activities on the DH4PP. This chapter also summarizes remedial measures that may be implemented should the property not provide the desired benefits for Swainson's hawk and other SJMSCP-covered species. The primary objective of monitoring is to ensure that the goals and objectives of the SJMSCP and this PMP are being met.

A preserve monitoring strategy for the entire SJMSCP preserve system is currently being completed. The monitoring plan described in this chapter is considered provisional until the system-wide monitoring plan is completed and approved.

Three general types of monitoring are conducted on a regular basis to ensure that the goals and objective of the SJMSCP are being met; *compliance monitoring*, *effectiveness monitoring* (referred to as *biological monitoring* in the SJMSCP), and *preserve enhancement monitoring*.

4.1 Compliance Monitoring

Compliance monitoring is monitoring that demonstrates compliance with the terms and conditions of the conservation easement, the SJMSCP and its permits. Compliance monitoring will be achieved through an annual site visit(s) to the preserve and annual discussion with the landowner(s) to document changes in agricultural practices or other factors such as water deliveries, drought conditions, market conditions, etc. that could affect the conservation and habitat values of the preserve. A set of photo stations will be established and photographs from each station will be taken annually during the site visit(s). Because breeding populations of Swainson's hawk, tricolored blackbird, loggerhead shrike, and other covered species that depend upon agricultural habitats during a significant portion of their life cycle are the primary targets of this PMP, the site visit will typically be conducted during spring or summer, when these species can be found in the region.

Three variables will be reviewed during each site visit: the crop types that are in production; the areal extent of each crop type, if applicable; and any changes in land use or status of the preserve that could substantively influence the habitat values of the preserve.

Noncompliance with the conservation easement will be addressed in accordance with the provisions of the conservation easement.

4.2 Effectiveness Monitoring

Effectiveness monitoring (referred to as *biological monitoring* in the SJMSCP) is comprised of several types of monitoring. The general purpose of effectiveness monitoring as described in the SJMSCP is to track habitat conditions and the status of covered species on and around preserve lands and to determine if management actions maintain and improve habitat conditions for covered species.

Baseline habitat conditions are established at the time of preserve acquisition and are described in this PMP. Because neighboring land uses may change over time, potentially reducing the suitability of habitats on the preserve, habitat/crop cover types within a 2-mile radius of the preserve will also be documented.

Baseline surveys to determine presence of SJMSCP covered species will be conducted within 2 years of acquisition. The survey will consist primarily of a complete search of all potential Swainson's hawk and tricolored blackbird nesting substrates within a 2-mile radius of the preserve to the extent possible given potential access constraints from surrounding landowners. Baseline surveys may also include focused surveys for burrowing owls or loggerhead shrikes. All wildlife species detected, including SJMSCP-covered species, will be recorded.

The baseline habitat and focused species surveys will be updated once every 3 years by mapping changes in habitats/crop types found within a 2-mile radius of the preserve and repeating the focused nesting Swainson's hawk and tricolored blackbird surveys within a 2-mile radius of the preserve. Mapped data will be recorded in the GIS database. The results of the focused survey and assessment of adjacent land uses will be provided in the SJMSCP program-level annual report.

The information will be used for comparison with results from the original baseline survey to track changes over time and to ensure that the goals and objectives of the preserve management plan are being met.

4.3 Monitoring Preserve Enhancements

No preserve enhancements are currently proposed for the DH4PP. However, preserve enhancement monitoring would occur if it is decided at a later date to install preserve enhancements.

4.4 Success Criteria

Three criteria were identified to determine the success of land use centered on cropping patterns and agricultural management practices. Preserve management will be considered successful if the entire 30 acres of designated agricultural lands are maintained in irrigated pasture (or other suitable row and field crops if allowed by the HTAC) each year, the patch of Himalayan blackberry along the southern boundary of the preserve is maintained or increased, and all terms and conditions of the conservation easement are adhered to.

4.5 Adaptive Management

This chapter summarizes the adaptive management provisions of the SJMSCP as they pertain to the DH4PP. Adaptive management is a systematic process for continually improving management policies and practices by learning from the outcomes of operational programs. The principle of adaptive management recognizes that the resources being managed are dynamic systems and that the state of knowledge regarding natural resource management is constantly improving. Adaptive management, by definition, does not include predetermined actions, but rather identifies new responses based on the outcome of management activities.

In the context of preserve management, monitoring activities are undertaken to assess the progress of management activities toward achieving the stated management goals. The information collected can then be used to improve management activities, if change is warranted. However, there will be no alteration of management activities that adversely affect permitted agricultural uses of the land without the agreement of the landowner.

Results of monitoring will be used to determine the effectiveness of the measures outlined in the SJMSCP and this PMP in providing habitat for Swainson's hawk and other SJMSCP-covered species. If substantial changes in populations of covered species occur, or evidence suggests the operating conservation program outlined in the SJMSCP is not meeting the goals and objectives outlined in the SJMSCP, then adaptive management procedures may be warranted. Such measures would include a review of the terms of the conservation easements and a review of the cropping patterns, crop types, monitoring requirements, and other management or monitoring activities on SJMSCP preserves.

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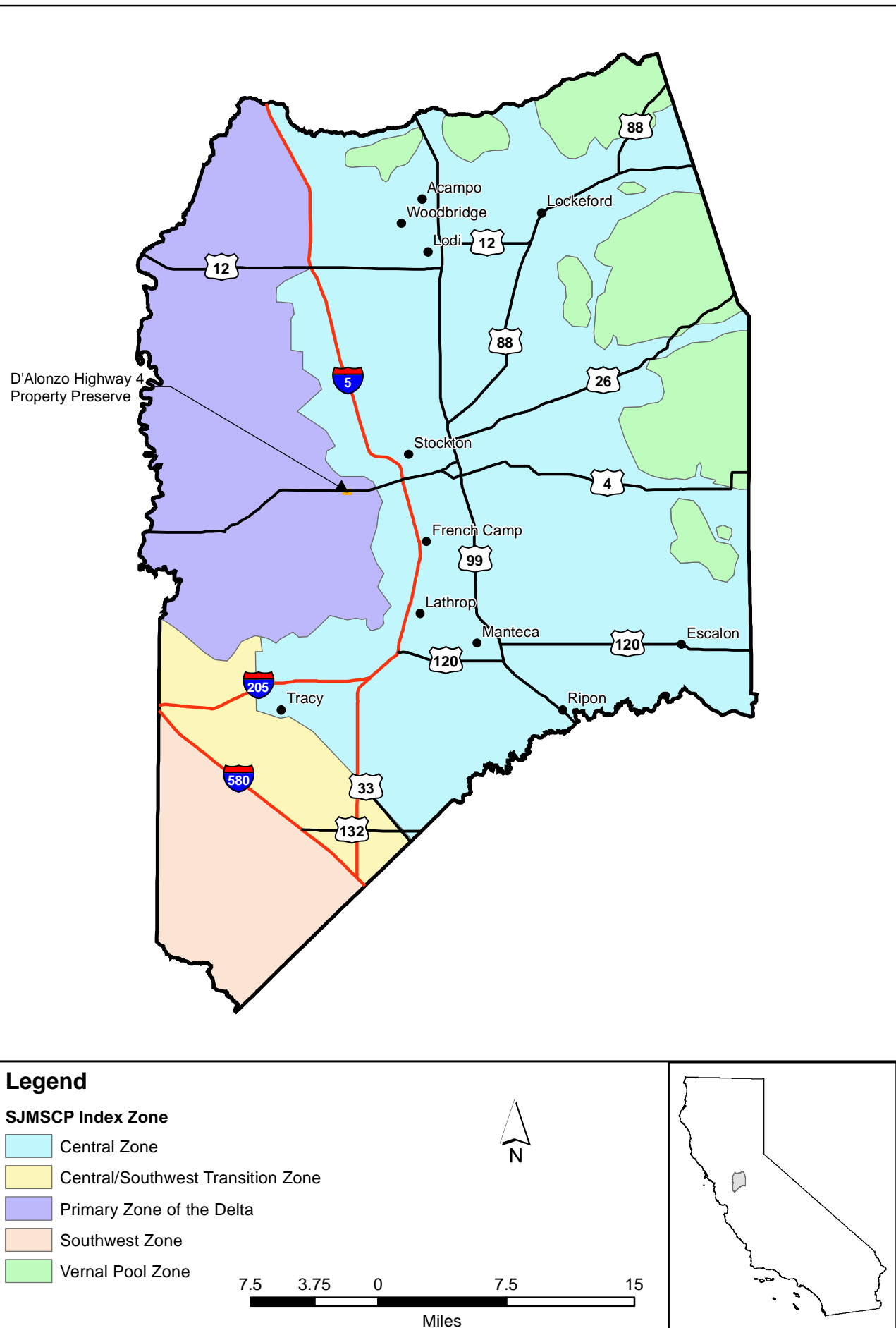


Figure 1
D'Alonzo Highway 4 Property Preserve
San Joaquin County

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Figure 2
D'Alonzo Highway 4 Property Preserve and
Other Conservation Easements in the Vicinity

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Photo 1. Irrigated Pasture on the D'Alonzo Highway 4 Property Preserve.



Photo 2. Riparian Habitats Along the Western Border of the D'Alonzo Highway 4 Property Preserve

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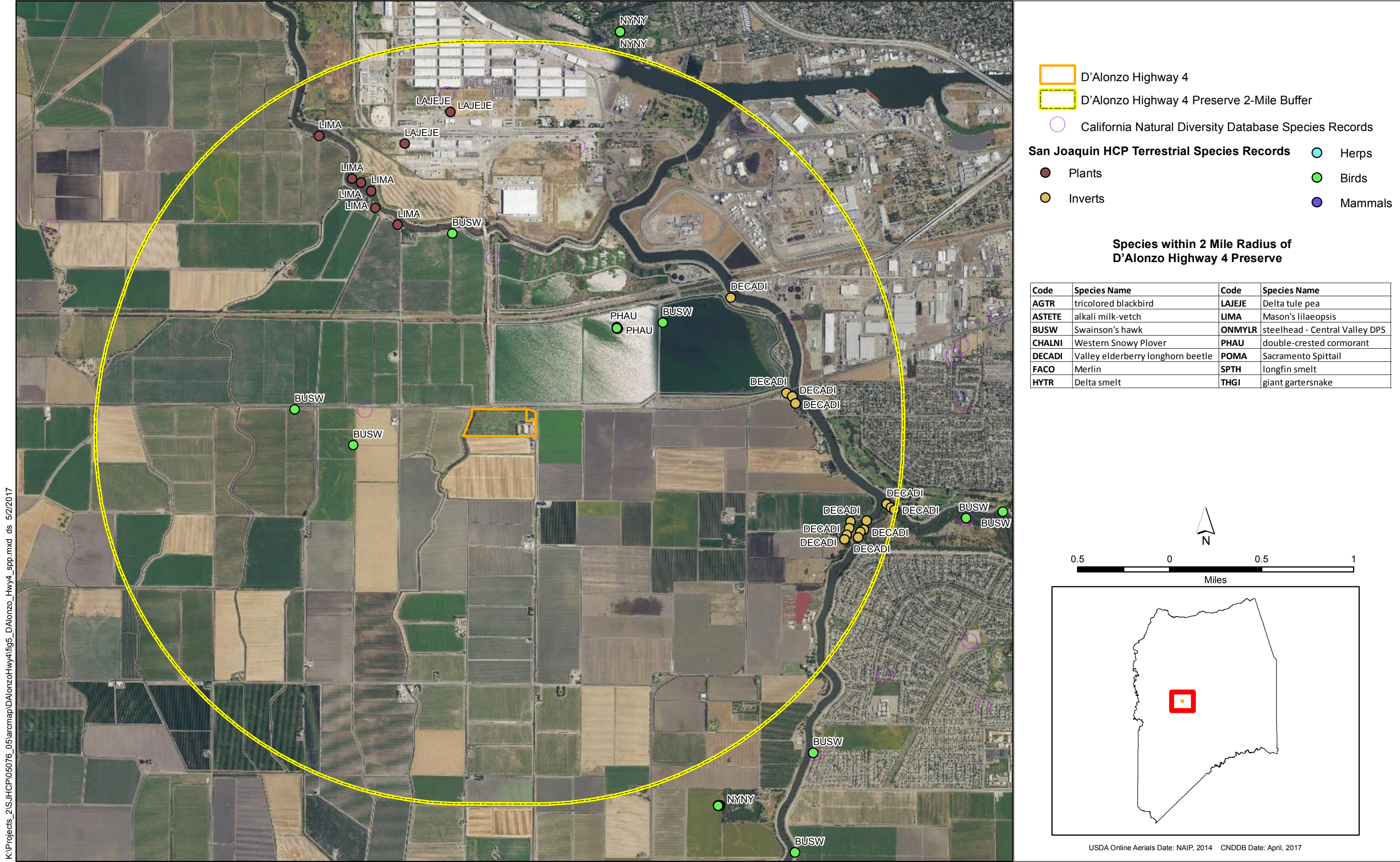


Figure 5
Documented Occurrences of SJMSCP-Covered Species within 2 Miles of D'Alonzo Highway 4 Preserve

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