



CALL FOR PROJECTS FOR THE NINTH CYCLE OF THE
TransNet ENVIRONMENTAL MITIGATION PROGRAM
LAND MANAGEMENT GRANT PROGRAM
THREAT REDUCTION STEWARDSHIP GRANT APPLICATION FORM

Applicant Name¹: San Elijo Lagoon Conservancy

Address: 777 Highway 101, Solana Beach, CA 92075, Suite 112

Phone and Email Address: 760-436-3944x707; doug@sanelijo.org

Name of Property: Lake Property

General Location: Coastal Northern San Diego County

Jurisdiction: City of Encinitas

Total Acres: 76.14 acres

Estimated Acres Requiring Management: 15.44 acres

Owner(s) of Property²: San Elijo Lagoon Conservancy

Land manager(s) of property (include name[s]): Doug Gibson – San Elijo Lagoon Conservancy

Brief Project Summary that includes your primary goal and objectives (200-word maximum)

The San Elijo Lagoon Conservancy (SELC) aims to secure funding to begin Phase 1 of eradicating perennial veldt grass (Ehrharta calycina) in the newly acquired Lake Property, adjacent to San Elijo Lagoon Ecological Reserve(Reserve). This invasive nonnative grass species currently occurs in Diegan coastal sage scrub and southern maritime chaparral habitats. Due to it's highly invasive nature, it is capable of invading and increasing it's prevalence in the adjacent Reserve, potentially displacing several high priority Management Strategic Plan(MSP) plant and animal species. Priority MSP plant and animal species also occur in the Lake Property, immediately threatened by perennial veldt grass. SELC proposes to treat the current range of perennial veldt grass in the Lake Property and continue to monitor the spread or lack thereof. Perennial veldt grass is currently under MSP management level 3 for invasive non-native plants, and needs further evaluation and management information. The proposed project will provide crucial information regarding this species and the potential for its control and eradication.

Table with 2 rows: 'Quantify Expected Results (add bullets as necessary)' containing a bulleted list of survey and treatment tasks; 'Brief Description of dedicated staff and/or consultants that would work on Project (200-word maximum)'

San Elijo Lagoon Conservancy will be will dedicate staff to this project. Joe DeWolf, Associate Biologist, will be the Lead Project Manager and will conduct the surveys, monitoring, reporting, and project oversight. Associate Biologist/GIS Specialist Alys Arenas will conduct GIS and project mapping, and will assist with monitoring. Finance and Administrative Director Chris Lewis will conduct financial management. ACS will provide extensive expertise and experience with invasive species control and natural resource management.

**Funding Needs Summary**

Please indicate how much funding is being requested from SANDAG.

Budget Item	Requested Funding Amount	Description
Personnel Expenses Staff	\$14,227	Includes staff time for non-administrative work on the project
Personnel Administrative Expenses	\$5,044	Includes all staff time to administer the contract
Consultant Expenses	\$50,000	Includes all costs for consultant services
Other Direct Expenses	\$613	Includes all equipment, supplies, mileage, etc.
Indirect Costs <sup>3</sup>	\$7,687.24	All indirect charges (e.g., overhead) on the project, if any.
<b>Totals</b>	<b>\$77,571.24</b>	

\*if applicable

**PROJECT PROPOSAL**

This project addresses the threat of perennial veldt grass in our newly acquired 76.14 acre property off of Lake Drive in Cardiff, located adjacent to the San Elijo Lagoon Ecological Reserve (Reserve). The new property will be renamed in the near future, but is referred to as the "Lake Property" in this proposal. Perennial veldtgrass is an MSP Level 3 invasive non-native plant and its potential to displace and invade high-priority MSP species and habitats in the Reserve. In the 2012 MSP Invasive Non-Native Plant Management Priorities Report, perennial veldt grass was listed under management level 3, with the goal being eradication with coordinated programs by management unit or watershed. Perennial veldt grass currently occurs in 15.44 acres of the Lake Property (see Attachment 1), with percent cover ranging from 50% to 100%. Its range has drastically increased over the last several years. There have been no previous efforts to date to control, treat, or eradicate this species on the property. The 2012 Management Priorities for Invasive Non-native Plants report suggested that this species should be evaluated further and that a trial funding of a portion of a management unit may be useful to evaluate if coordinated control is possible or of benefit. This project will be managed by SELC staff.

The proposed treatment of perennial veldt grass is located within MSP Management Unit (MU)—7 (North Coast MU) and is within MSP conserved lands. In the Lake Property, perennial veldt grass occurs in coastal sage scrub and southern maritime chaparral. Given the rate that perennial veldt grass can spread, it has the potential to displace several high priority MSP species in the adjacent Reserve (**Attachment 2**). According to Cal-IPC, it has the potential to invade coastal dunes and beach habitats. The Reserve's dune habitats contain the following high priority MSP species: Nuttall's acmispon (*Acmispon prostratus*)(SO), California least tern (*Sternula antillarum browni*)(SO), and western snowy plover (*Charadrius nivosus nivosus*)(SL). Perennial veldt grass also threatens to displace Orcutt's hazardia (*Hazardia orcuttii*)(SL) and Shaw's agave (Agave shawii)(SL), two other high priority MSP species that occur in the adjacent Reserve. Additionally, the Lake Property itself contains many MSP species of concern, all of which are immediately threatened by perennial veldt grass. These species are: San Diego barrel cactus (*Ferocactus viridescens*)(VG), wart-stem ceanothus (*Ceanothus verrucosus*)(VF), Del Mar manzanita (*Arctostaphylos glandulosa ssp. crassifolia*)(VF), Nuttall's scrub oak (*Quercus dumosa*)(VF), cliff spurge (*Euphorbia misera*)(VF), California adolphia (*Adolphia californica*)(VG), northwestern San Diego pocket mouse (*Chaetodipus fallax fallax*)(VG) and coastal California gnatcatcher (*Polioptila californica californica*)(VF). See Table 1 for a list of threatened species and MSP management category.

**Table 1. MSP Species threatened by perennial veldt grass**

Scientific Name	Common Name	Habitat	MSP Mgmt Category
<b>Plants</b>			
<i>Acmispon prostratus</i>	Nuttall's acmispon	So. foredunes/beach	SO
<i>Adolphia californica</i>	California adolphia	Southern maritime chaparral, Coastal sage scrub	VG
<i>Arctostaphylos glandulosa ssp. crassifolia</i>	Del Mar manzanita	Southern maritime chaparral	VF
<i>Ceanothus verrucosus</i>	Wart-stemmed Ceanothus	Southern maritime chaparral	VF
<i>Euphorbia misera</i>	Cliff spurge	Coastal sage scrub	VF
<i>Ferocactus viridescens</i>	San Diego barrel cactus	Southern maritime chaparral, Coastal sage scrub	VG
<i>Hazardia orcuttii</i>	Orcutt's hazardia	Coastal sage scrub	SL
<i>Quercus dumosa</i>	Nuttall's scrub oak	Southern maritime chaparral	VF
<b>Birds</b>			
<i>Charadrius nivosus nivosus</i>	Western snowy plover	So. foredunes/beach	SL
<i>Polioptila californica californica</i>	Coastal California gnatcatcher	Coastal sage scrub	VF
<i>Sternula antillarum browni</i>	California least tern	So. foredunes/beach	SO
<b>Mammals</b>			
<i>Chaetodipus fallax fallax</i>	Northwestern San Diego pocket mouse	Coastal sage scrub	VG

The goal for this project will be to reduce the total cover of perennial veldt grass within the treatment area to less than one percent. If any perennial veldt grass found within the Reserve's coastal dune habitat during the project, 100% reduction will be achieved. This funding opportunity will support Phase 1 of the eradication effort of perennial veldt grass in the Lake Property. Due to the large range and the established and growing seed bank, complete eradication will likely require more time and treatments than the 18 month grant period. SELC plans to secure funding for future phases of the project, and aim to manage invasive species in perpetuity within the Lake Property.

Since the treatment areas in the Lake Property support in-tact native vegetation communities, the natural recruitment of native vegetation in the absence of aggressive invasive species will allow these communities to persist. Treatment will be conducted by ACS Habitat Services(ACS), a local consulting company. ACS will treat using a combination of imazapyr (Habitat® or Polaris®) and glyphosate (Roundup Pro®). An initial treatment will be conducted over the entire range of its occurrence (**Attachment 1**). Two subsequent retreatments will be conducted in 6 month intervals following the initial treatment. Following each treatment, monitoring will be conducted by SELC staff and data will be recorded using field GPS units. The percent cover of the perennial veldt grass will be calculated and recorded, and the efficacy of each treatment will be assessed. SELC staff will report project activities quarterly, as requested.

**B. Scope of Work by Task**

**Exhibit A – Proposed Project Scope of Work**

<b>Task No.</b>	<b>Task Name</b>	<b>Task Description</b>	<b>Quantifiable Results/Deliverables</b>
1	Baseline Surveys	Establish baseline data of perennial veldt grass and cohorts	Baseline data
2	Invasive Species Treatment	Initial treatment and retreatments of perennial veldtgrass	Reduction in the invasion of perennial veldt grass to less than one percent. For any veldt grass found within the coastal dune habitat in the Reserve, 100% reduction will be achieved
3	Monitoring	Collect and calculate field data such as percent coverage and efficacy of treatments	Fulfillment of success criteria
4	Mapping	Map range of perennial veldt grass before and after treatments	Up to date maps of perennial veldt grass
5	Project Management	Coordinate with ACS and SELC staff, overall project oversight	Adherence to project schedule and budget
6	Administrative	Invoice, progress reporting and final report	Quarterly invoices and progress report, final report

C. Budget by Task

Exhibit B – Proposed Project Budget

Task No.	Task Name	Grant Request
1	Baseline surveys	\$749
2	Invasive Species Treatment	\$50,000
3	Monitoring	\$7,040
4	Mapping	\$3,675
5	Project Management	\$2,516
....	Administrative	\$5,904
<b>Subtotal</b>		\$69,884
<b>Indirect Cost (11%)</b>		\$7,687.24
<b>TOTAL</b>		\$77,571.24

D. Project Schedule

Exhibit C – Proposed Project Schedule  
(Assumes Fall 2018 Notice to Proceed [NTP])

Task No.	Task Name	Proposed Start Date	Months Needed to Complete Task	Task End Date
1	Baseline Surveys	0 Months from NTP	1 Months	10/01/2018
2	Invasive Species Treatment	1 Months from NTP	17 Months	03/01/2020
3	Monitoring	2 Months from NTP	16 Months	03/01/2020
4	Mapping	0 Months from NTP	18 Months	03/01/2020
5	Project Management	0 Months from NTP	18 Months	03/01/2020
6	Administrative	0 Months from NTP	18 Months	03/01/2020

Perennial veldt grass usually flowers and seeds in the spring, so the ideal time for treatment is during the winter. In the event that the NTP is significantly delayed, we would not be able to treat during the upcoming winter, so we would need extra time on the back end of the project schedule to add another winter treatment. Unexpected weather conditions such as a drought could potentially delay the timing of treatments, also requiring extra time to complete treatments.

**NOTICE REGARDING PREVAILING WAGES**

SANDAG’s Environmental Mitigation Program (EMP) Land Management Grant Program projects are funded with *TransNet* revenues consistent with the *TransNet* Extension Ordinance adopted by the voters in November 2004

(SANDAG Ordinance 04-01). Although SANDAG Ordinance 04-01 does not require payment of prevailing wages, California law may require that public works projects pay prevailing wages for workers.

Applicant acknowledges that SANDAG has strongly encouraged Applicant to seek legal counsel regarding whether the Proposed Project will require applicant to pay prevailing wages and agrees that SANDAG will have no liability for conducting this analysis.  Yes  No

Applicant acknowledges that if awarded an EMP Land Management Grant, the grant agreement between SANDAG and the grantee requires grantee's compliance with all federal, state, and local laws and ordinances applicable to the Agreement.  Yes  No

**REQUIRED STATEMENTS FROM APPLICANT**

- Yes  No The applicant has read and understands the Sample Grant Agreement (Agreement) and Invoice Template (Attachment 4).
- Yes  No If the SANDAG Board of Directors approves the proposed project proposal, the proposed applicant agrees to sign and return the Agreement to SANDAG, without exceptions or amendments, within 45 days of receipt.
- Yes  No The applicant agrees to comply with SANDAG’s Board Policy No. 035, Competitive Grant Program Procedures, which outlines “Use-it-or-lose-it” project milestone and completion deadlines. Board Policy No. 035 is included in the Agreement, and also is on SANDAG’s website at the following link: [sandag.org/organization/about/pubs/policy\\_035.pdf](http://sandag.org/organization/about/pubs/policy_035.pdf)
- Yes  No The applicant understands that 10 percent of all invoices will be retained until the completion of the proposed project.
- Yes  No The applicant understands that all invoices must be accompanied by written, documented support of the charges for requested reimbursement of grant funds and payment will not be made by SANDAG until all documents are satisfactorily submitted.
- Yes  No The applicant understands that invoices and reports must be submitted on a quarterly basis within three weeks after the period covering January 1 to March 31; within three weeks after the period covering April 1 to June 30; within three weeks after the period covering July 1 to September 30; and within three weeks after the period covering October 1 to December 31.
- Yes  No The applicant understands that the EMP quarterly report template (to be sent to the grantee after NTP is issued) must be used to document quarterly progress and that invoices with errors will be returned to the grantee for correction prior to being processed by SANDAG staff.
- Yes  No The applicant understands that the final invoice must be accompanied by written, documented support of the charges for requested reimbursement of grant funds; a final report (prepared in accordance with the final report template to be sent to grantee after NTP is issued); and all outstanding deliverables in order to receive final payment and have retained funds released.
- Yes  No The applicant understands that to be considered eligible for funding, a resolution complying with the requirements of Board Policy No. 035, Section 4.1, must be submitted to SANDAG at least *two weeks* prior to the recommendation by the Regional Planning Committee of the list of prioritized project proposals. SANDAG will provide applicants with advance notice of the Regional Planning Committee’s anticipated meeting date.
- Yes  No The applicant agrees to submit all project data/information to SANDAG in a format compatible with the regional management database.

**I have the authorization to submit this proposal (Grant Application Form and required supplementary materials) on behalf of my organization.**

Joe DeWolf/Associate Biologist

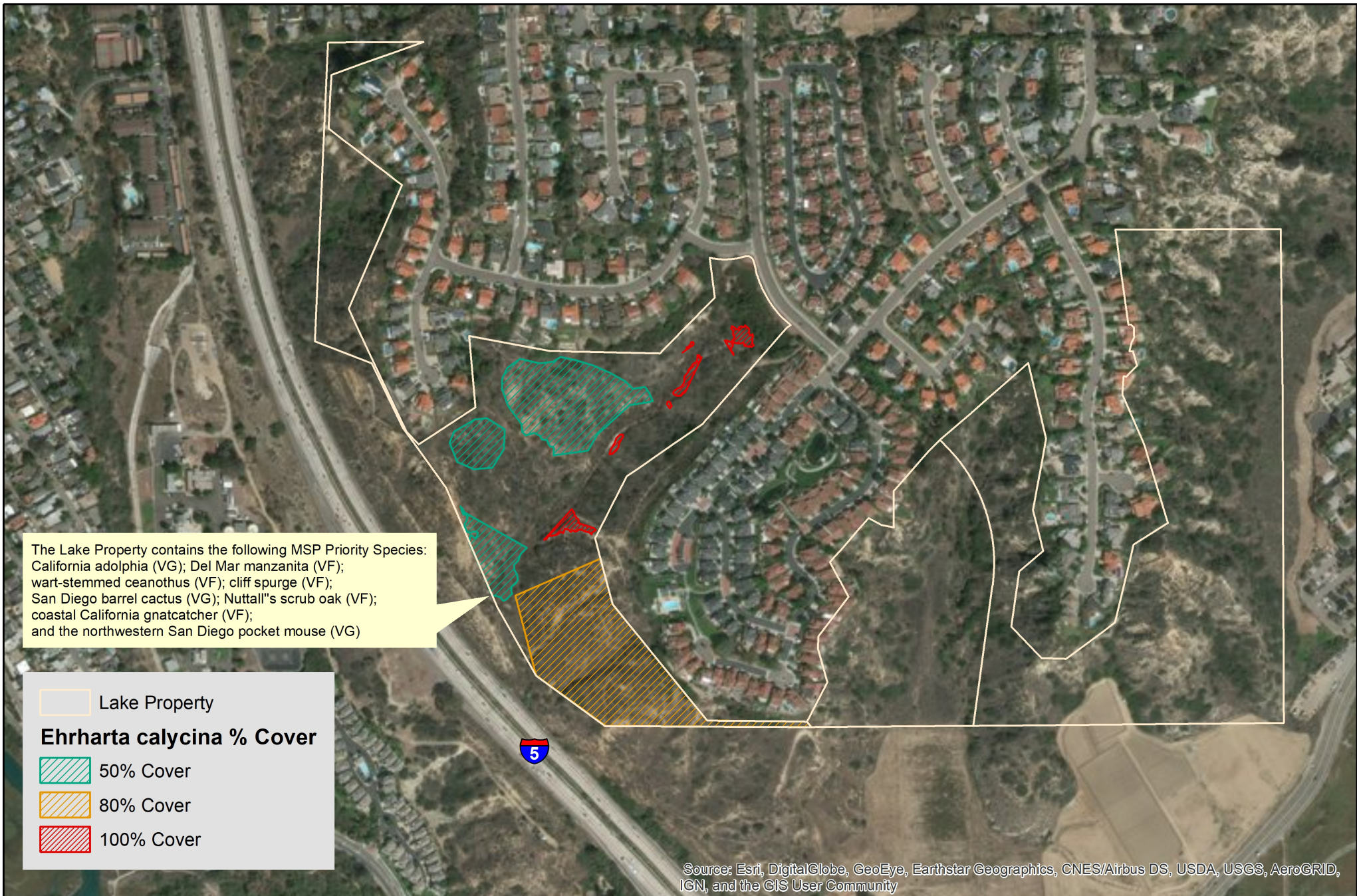
**Applicant Name/Title** (print or type)



**Applicant Signature**

1/12/2018

**Date**

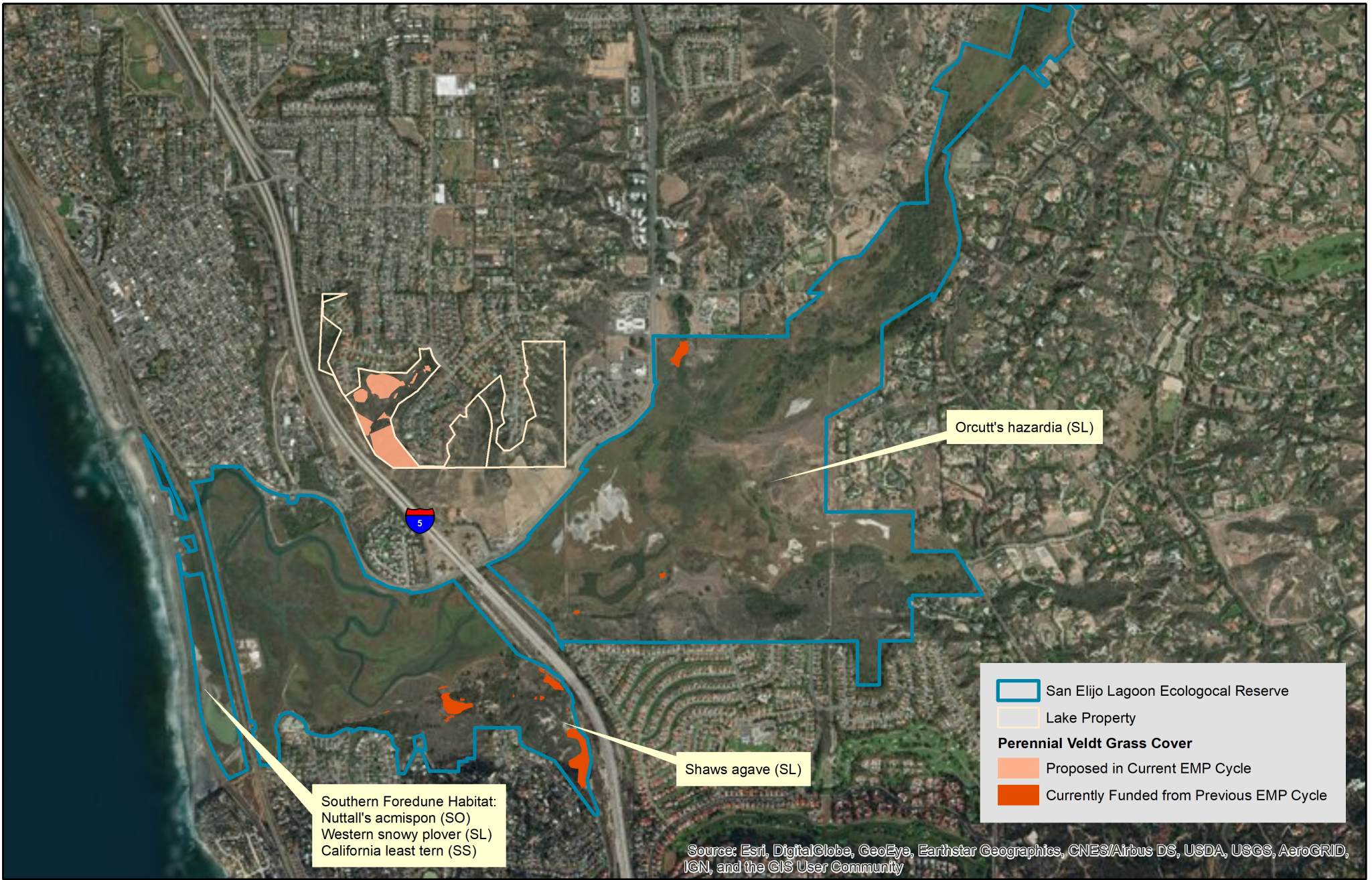


# Attachment 1. Perennial Veldt Grass (*Ehrharta calycina*) Project Area

Lake Property, San Elijo Lagoon Conservancy

Imagery Date: October 2016  
 Map Date: January 2018  
 Data Source: SELC & SANGIS





## Attachment 2. Perennial Veldt Grass (*Ehrharta calycina*) Project Area

### San Elijo Lagoon Conservancy

Imagery Date: October 2016  
 Map Date: January 2018  
 Data Source: SELC & SANGIS

