



**CALL FOR PROJECTS FOR THE NINTH CYCLE OF THE
TransNet ENVIRONMENTAL MITIGATION PROGRAM
LAND MANAGEMENT GRANT PROGRAM
SPECIES AND HABITAT RECOVERY GRANT APPLICATION FORM**

Grant Application Form and required supplementary materials (hereafter referred to as "proposal") cannot exceed 12 pages.

Applicant Name: San Elijo Lagoon Conservancy
 Address: P.O. Box 230634 Encinitas, CA 92023-0634
 Phone and Email Address: (760) 436-3944
 Name of Property: San Elijo Lagoon Ecological Reserve
 General Location: North San Diego County – Coastal (Carlsbad Hydrologic Unit)
 State of California (Department of Fish and Wildlife and State Parks);
 cities of Carlsbad, Encinitas, Solana Beach, Del Mar, and San Diego;
 Jurisdiction: 22nd District Agricultural Association/San Dieguito River Park (JPA)
 Total Acres: 1,000
 Estimated Acres Requiring Management: 43
 Owner(s) of Property¹: State of California, Count of San Diego, San Elijo Lagoon
 Conservancy, Mira Costa Community College District, Mike and
 Gertrude Lynch, Karen and Stuart Tanz, James B. Wood
 Land manager(s) of property (include name[s]): County of San Diego – Rusty Rodes; SELC – Doug Gibson

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

The San Elijo Lagoon Conservancy (SELC) aims to secure funding to implement 5 years of initial treatments, re-treatments, and mapping and monitoring of perennial pepperweed (*Lepidium latifolium*) in the San Elijo Lagoon Ecological Reserve (Reserve). Approximately 43 acres of perennial pepperweed are known to occur within the project area. SELC proposes to treat the population with chloresulfuron (Telar®) and/or imazapyr (Polaris®) during the late spring/early summer prior to seed production. Nesting bird surveys will be conducted by a qualified avian biologist prior to and during all treatments. Perennial pepperweed distribution within the area of treatment will be mapped during each treatment year to assess the efficacy of the chemical control efforts and to document any location and/or magnitude changes in the population. The primary project goal will be to suppress expansion of the known population of perennial pepperweed in the northeastern part of the Reserve.

Quantify Expected Results (add bullets as necessary)

- Reduction or containment of the existing 43 acres of perennial pepperweed in the project area via chemical control
- Enhancement of 1.03 acres of wetland habitat
- Enhancement of 0.48 acres of Diegan coastal sage scrub
- Enhancement of 1.58 acres of southern coastal salt marsh
- Enhancement of 10.64 acres of alkali marsh
- Enhancement of 0.73 acres of cismontane alkali marsh
- Enhancement of 20.20 acres of southern riparian scrub

¹ Right of entry agreements included as **Attachment A**.

- Enhancement of 0.60 acres of estuarine habitat
- Protection of a 1.78-acre alkali playa supporting a population of approximately 10,000 individual Coulter's goldfields (*Lasthenia glabrata* sbsp. *coulteri*²)

Brief Description of dedicated staff and/or consultants that would work on Project (200-word maximum):

Table 1: Staff/Contractor Profile

Employee/Contractor	Class	Principal Role
Doug Gibson, Executive Director/Principal Scientist	Employee ³	Technical Oversight
Shirley Innecken, Lead Ecologist	Employee	Project Management
Alys Arenas, GIS Specialist	Employee	Project Mapping and GIS Database Maintenance
Emma Havstad, Associate Biologist/Project Coordinator	Employee	Site Maintenance and Monitoring
Chris Lewis, Director of Finance and Administration	Employee	Fiscal Management
ACS Habitat Management	Contractor	Invasive Species Control
Maryanne Bache	Contractor	Avian Lead – Surveys and Monitoring
Leopold Biological Services	Contractor	Avian Surveys and Monitoring

Funding Needs Summary

Budget Item	Requested Funding Amount	Proposed Matching Funds	Description
Personnel Expenses Staff	\$32,989.25	\$0.00	Includes staff time for non-administrative work on the project
Personnel Administrative Expenses	\$11,587.88	\$0.00	Includes all staff time to administer the contract
Consultant Expenses	\$126,808.00	\$3,784.12	Includes all costs for consultant services
Other Direct Expenses	\$1,660.72	\$0.00	Includes all equipment, supplies, mileage, etc.
Indirect Costs (11%)	\$19,035.04	\$0.00	All indirect charges (e.g., overhead) on the project, if any.
Totals	\$192,080.90	\$3,784.12	

² Coulter's goldfields are a California Native Plant Society List 1B.1 species ("rare or endangered in California and elsewhere; seriously endangered in California").

³ Staff bios available upon request.



Are there matching funds available? Yes No

If yes, how are the matching funds assured (*100-word maximum*)?

The following two active/recently awarded SELC projects contain funds allocated for perennial pepperweed control in the Reserve:

- The North San Diego County Coastal Wetlands Invasive Species Management and Habitat Restoration Program (Funding Entity: Wildlife Conservation Board/Contract No. WC-1615DC)
- North San Diego County Multi-Watershed Enhancement & Restoration for Resiliency (Funding Entity: California Department of Fish & Wildlife/Contract No. *pending*).

The contract/award letter for these projects are included as **Attachment B**. Please contact SELC for budget allocation details.

PROJECT PROPOSAL

The proposal will include (A) the purpose of the project, (B) the scope of work by tasks, (C) the proposed budget, including matching funds, by task, and (D) a schedule for each task. Applicants must clearly identify their proposed tasks in the scope of work, funding requested for each task (please identify staff hours and cost separately from consultant costs), start and end dates of the tasks, and deliverables. *Applicants are encouraged to identify phasing and prioritization of tasks in their proposal in case full funding for the project is not available.*

A. Project Purpose

Address the following in the proposal:

1. SELC proposes to chemically treat invasive perennial pepperweed to reduce, or as a minimum, contain the existing population within the Reserve. In addition, SELC proposes to monitor the perennial pepperweed and retreat annually for a period of five years. Invasive plant species are discussed as a Threat and Stressor in the MSP for Conserved Lands in Western San Diego County (MSP). Furthermore, the Management Priorities for Invasive Non-native Plants *A Strategy for Regional Implementation*, San Diego County, California (IPSP; Dendra 2012) identifies perennial pepperweed as a Very High regional priority species, specifically in the Carlsbad Hydrologic Unit. In summary, the IPSP recommends funding of management and collection of additional data for the species.

SELC has previously treated the perennial pepperweed in the Reserve as part of an early detection/rapid response management strategy. Treatments have occurred for the past 3 years, and currently, the species is relatively contained. The request for funding to support continued efforts is due to the threat of spread in the absence of management. Thus, continual funding is essential in supporting the critical objective of, at a minimum, containing the perennial pepperweed in the Reserve. Containment, and especially reduction, will protect and enhance important habitats and the special-status plant and animal species that depend upon those habitats.

The proposed management activity is based on the results of past mapping efforts that show an increase in perennial pepperweed despite management efforts (**Attachment C**). Perennial pepperweed occurrences have not been provided to the SDMMMP in the past. However, MSP priority special-status plant species associated with impacted/at-risk habitat in the Reserve have been surveyed for annually by SDMMMP botanists (**Attachment D**).

2. The proposed project will take measures toward implementation of the goal prescribed in the IPSP for Management Level 3- Containment, which is *eradication with coordinated programs by management unit or*

watershed. Table 1 shows which MSP species and their habitats will benefit from the proposed management activity.

- The proposed project site is located within the MSP Management Unit (MU)—7 (North Coast MU) as shown in **Attachment D**.

Table 1: MSP Species/Priority IMAs to benefit from Proposed Management Activity

MSP Priority Species	Occurrence	Mgt. Category	IPSP Objective
California least tern	San Elijo Lagoon Ecological Reserve Cardiff State Beach	SO	Perennial pepperweed eradication with coordinated programs by management unit or watershed for (Management Level 3- Containment)
Western burrowing owl	San Elijo Lagoon Ecological Reserve	SL	
Light-footed Ridgway's rail	San Elijo Lagoon Ecological Reserve Escondido Creek Preserve	SO	
Nuttall's acmispon	ACPR_7CSPA018	SO	
Orcutt's hazardia	HAOR3_7SELA005	SL	
Shaw's agave	AGSH_7SELA005	SL	
MSP Priority IMAs	Objective Number	Description	
IMA-301	INVPLA-7	Implement the Invasive Plant Strategic Plan; Remove Level 4 and 5 invasive plants where impacting MSP species and habitats	
IMA-186	LOSCON-4	Implement a species, vegetation, or threat management plan to reduce loss of connectivity	

- Implementation of this project proposal will address the Invasive Species (Exotic and Native) threat/stressor identified in the MSP.
- Perennial pepperweed will be chemically treated with Telar® and/or Polaris® by pedestrian crews wearing backpack sprayers. The use of these chemicals has been relatively successful in containment of perennial pepperweed in the Reserve. However, the timing and pace of treatments is what determines success in the case of pepperweed. Thus, SELC proposes to employ larger crews than have been used previously to ensure all pepperweed is identified and treated during the critical treatment window prior to setting seed. Prior to the pedestrian application, qualified avian biologists will conduct nesting bird clearance surveys per the requirements of SELC's regulatory permits. Any potential negative effects to nesting birds will be avoided by strict adherence to the avian survey and monitoring requirements mandated by the permits. No additional negative effects to MSP and other sensitive species are anticipated.
- On-going implementation of the treatment strategy discussed in 5. above will be used to ensure the successful, long-term outcome of the proposed project. In addition, SELC will coordinate with other land

managers to compare treatment methods and make adjustments accordingly. All work will be conducted in the Reserve; no relevant adjacent conserved lands are being omitted.

7. The goal of the proposed project is to reduce or contain the existing perennial pepperweed population within the SELER. SELC's objectives are therefore to treat the existing occurrences before seed set each year for five years, in order to suppress reproduction and prevent establishment of satellite occurrences elsewhere in the SELER. Point locations of treated perennial pepperweed will be collected by experienced restoration practitioners as they conduct treatments, following a procedure they have used in the previous three years of treatments of perennial pepperweed in the SELER, as well as in multiple restoration projects across northern San Diego County. Quantitative monitoring data will consist of the number of occurrences and total infested acres, generated from treatment points based on a standardized protocol. In accordance with project goals of population containment, success criteria will involve decreases, no net increases, or limited increases in both occurrences and acres infested. How will the applicant manage the data collected? What software will be used to house the data? Who will be responsible for compiling and transferring the data to SANDAG? Who will be preparing the required quarterly, final, and all other reports?
8. As standard protocol, SELC uses an MS Access database called the Restoration Activities Log to record all management actions, including pre- and post-implementation site evaluations, invasive species acreage treated, labor source, and number of each species installed. In addition, invasive species treatment spatial data is collected as treatment points that are compiled by contractors and submitted as an ArcGIS shapefile to SELC on a quarterly basis in order to maintain a complete database of known target species infestations. Data will be compiled and transferred to SANDAG by SELC's GIS Specialist/Associate Biologist. All quarterly, final, and other reports will be compiled by SELC's Lead Ecologist, GIS Specialist, and/or Associate Biologist/Project Coordinator.
9. The 2017 annual perennial pepperweed treatments in the Reserve were paid for in part with funds from the *TransNet* EMP Land Management Grant Program Carlsbad Hydrologic Unit 2 Project (Contract Number 5004734).
10. The proposed activity is *not* being done on land that was previously set aside as mitigation.

B. Scope of Work by Task

Please break down the proposal into discrete tasks and include a task name, description of each task, quantifiable expected results, and discrete deliverables for each task. *Note: make sure to list tasks for quarterly reporting on the status of the grant project and a final report on the outcome of the grant project. You may add or subtract rows as needed.*

Exhibit A – Proposed Project Scope of Work

Task No.	Task Name	Task Description	Quantifiable Results/Deliverables
1	Avian Surveys & Monitoring	A qualified biologist will conduct three surveys (one week before treatment, one day before treatment, and the morning of treatment) for light-footed clapper rails, California gnatcatchers, and other bird species in treatment areas. Any bird nests that are identified during these surveys, will be flagged, avoided during project-related work, and re-visited when nests are no longer active. A qualified biologist will oversee all maintenance activities and monitor maintenance areas for light-footed clapper rail, gnatcatcher, vireo, flycatcher and other nesting birds.	Protection of all nesting bird species during activities conducted during nesting bird season (March 15-Sept. 15); compliance with SELC regulatory permits; nesting bird reports
2	Chemical Treatments	Initial and successive applications of Telar® and/or Polaris® via backpack sprayers	Containment of 43 acres of perennial pepperweed in the Reserve
3	Geospatial Data Collection & GIS Database Management	Annual mapping of perennial pepperweed in the Reserve	Current geospatial documentation of perennial pepperweed in the Reserve
4	Site Monitoring	On-going mapping of perennial peppergrass distribution; periodic site evaluations to determine if success criterion are being met	Containment of 43 acres of perennial pepperweed in the Reserve
5	Project Management	Contractor & staff coordination; project oversight	Adherence to Project schedule and budget
...	Equipment/Supplies/ODC	Costs of printing for reports, mapping and field datasheets; maintenance of GIS equipment & vehicles	Containment of 43 acres of perennial pepperweed in the Reserve
....	Administrative	Administrative tasks will be performed to comply with regulatory and grant reporting guidelines, as well as to accurately track and manage project expenses.	Accurate and timely invoices with matching funds documentation, quarterly progress reports, and a final report

C. Budget by Task

Exhibit B – Proposed Project Budget														
Task No.	Task Name	Year 1 Grant Request	Year 1 Matching Funds ¹	Year 2 Grant Request	Year 2 Matching Funds ¹	Year 3 Grant Request	Year 3 Matching Funds ¹	Year 4 Grant Request	Year 4 Matching Funds ¹	Year 5 Grant Request	Year 5 Matching Funds ¹	Total Grant Request	Total Matching Funds	Total Project Cost
1	Avian Surveys	\$ -	\$ -	\$ 5,467.88	\$ -	\$ 5,467.88	\$ -	\$ 5,467.88	\$ -	\$ 5,467.88	\$ -	\$ 21,871.50	\$ -	\$ 21,871.50
2	Chemical Treatments	\$ -	\$ -	\$ 29,552.00	\$ 1,488.00	\$ 29,552.00	\$ 960.56	\$ 29,552.00	\$ 960.56	\$ 29,552.00	\$ -	\$ 118,208.00	\$ 3,409.12	\$ 121,617.12
3	Geospatial Data Collectio	\$ -	\$ -	\$ 1,387.09	\$ -	\$ 1,387.09	\$ -	\$ 1,387.09	\$ -	\$ 1,387.09	\$ -	\$ 5,548.34	\$ -	\$ 5,548.34
4	Site Monitoring	\$ -	\$ -	\$ 1,288.39	\$ -	\$ 1,288.39	\$ -	\$ 1,288.39	\$ -	\$ 1,288.39	\$ -	\$ 5,153.57	\$ -	\$ 5,153.57
5	Project Mgmt.	\$ 300.00	\$ -	\$ 2,144.14	\$ -	\$ 2,144.14	\$ -	\$ 2,144.14	\$ -	\$ 2,144.14	\$ -	\$ 8,876.56	\$ -	\$ 8,876.56
...	Equipment/Supplies/ODC	\$ 400.00	\$ -	\$ 350.00	\$ -	\$ 350.00	\$ -	\$ 350.00	\$ -	\$ 350.00	\$ -	\$ 1,800.00	\$ -	\$ 1,800.00
...	Administrative	\$ 150.00	\$ -	\$ 2,859.47	\$ -	\$ 2,859.47	\$ -	\$ 2,859.47	\$ -	\$ 2,859.47	\$ -	\$ 11,587.88	\$ -	\$ 11,587.88
	Sub Total	\$ 850.00	\$ -	\$ 43,048.96	\$ 1,488.00	\$ 43,048.96	\$ 960.56	\$ 43,048.96	\$ 960.56	\$ 43,048.96	\$ -	\$ 173,045.85	\$ 3,409.12	\$ 176,454.97
	Indirect Cost (11%)	\$ 93.50	\$ -	\$ 4,735.39	\$ 163.68	\$ 4,735.39	\$ 105.66	\$ 4,735.39	\$ 105.66	\$ 4,735.39	\$ -	\$ 19,035.04	\$ 375.00	\$ 19,410.05
	TOTAL	\$ 943.50	\$ -	\$ 47,784.35	\$ 1,651.68	\$ 47,784.35	\$ 1,066.22	\$ 47,784.35	\$ 1,066.22	\$ 47,784.35	\$ -	\$ 192,080.90	\$ 3,784.12	\$ 195,865.02
	PERCENTAGE	0.48%	0.00%	24.40%	0.84%	24.40%	0.54%	24.40%	0.54%	24.40%	0.00%	98.07%	1.93%	100%

D. Project Schedule

Please include start and end dates relative to the anticipated Notice to Proceed (assumes Fall 2018) for each task described in the Scope of Work (Section B above). Please list tasks for quarterly reporting on the status of the grant project and a final report on the outcome of the grant project. You may add or subtract rows as needed.

Exhibit C - Proposed Project Schedule
(Assumes Fall 2018 ⁴ Notice to Proceed [NTP])

Task No.	Task Name	Proposed Start Date	Months Needed to Complete Task	Task End Date
1	Avian Surveys & Monitoring	"7" Months from NTP	"1" Month (annually)	05/29/2023
2	Chemical Treatments	"7" Months from NTP	"1" Month (annually)	05/29/2023
3	Geospatial Data Collection & GIS Database Management	"6" Months from NTP	"<1" Month	05/01/2019
4	Site Monitoring	"19" Months from NTP	"<1" Month	06/01/2020
5	Project Management	"0" Months from NTP	"60" Months	09/22/2023
...	Equipment/Supplies/ODC	"0" Months from NTP	"60" Months	09/22/2023
...	Administrative	"0" Months from NTP	"60" Months	09/22/2023

An NTP later than February 2019 may affect SELC’s ability to treat perennial pepperweed for a full 5 years due to the critical treatment window (~early May).

NOTICE REGARDING PREVAILING WAGES

SANDAG’s 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

⁴ Assuming and NTP of September 22, 2018 for the purposes of Exhibit C.

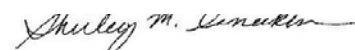
REQUIRED STATEMENTS FROM APPLICANT

- 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
- 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 for proposed projects with matching funds, retention will be withheld beyond the 10 percent retention for each invoice submittal that does not meet the proportionate matching funds requirement. These additional matching funds will not be released until proportionate matching funds are reached for the project to-date.
- 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.

Shirley Innecken/Lead Ecologist

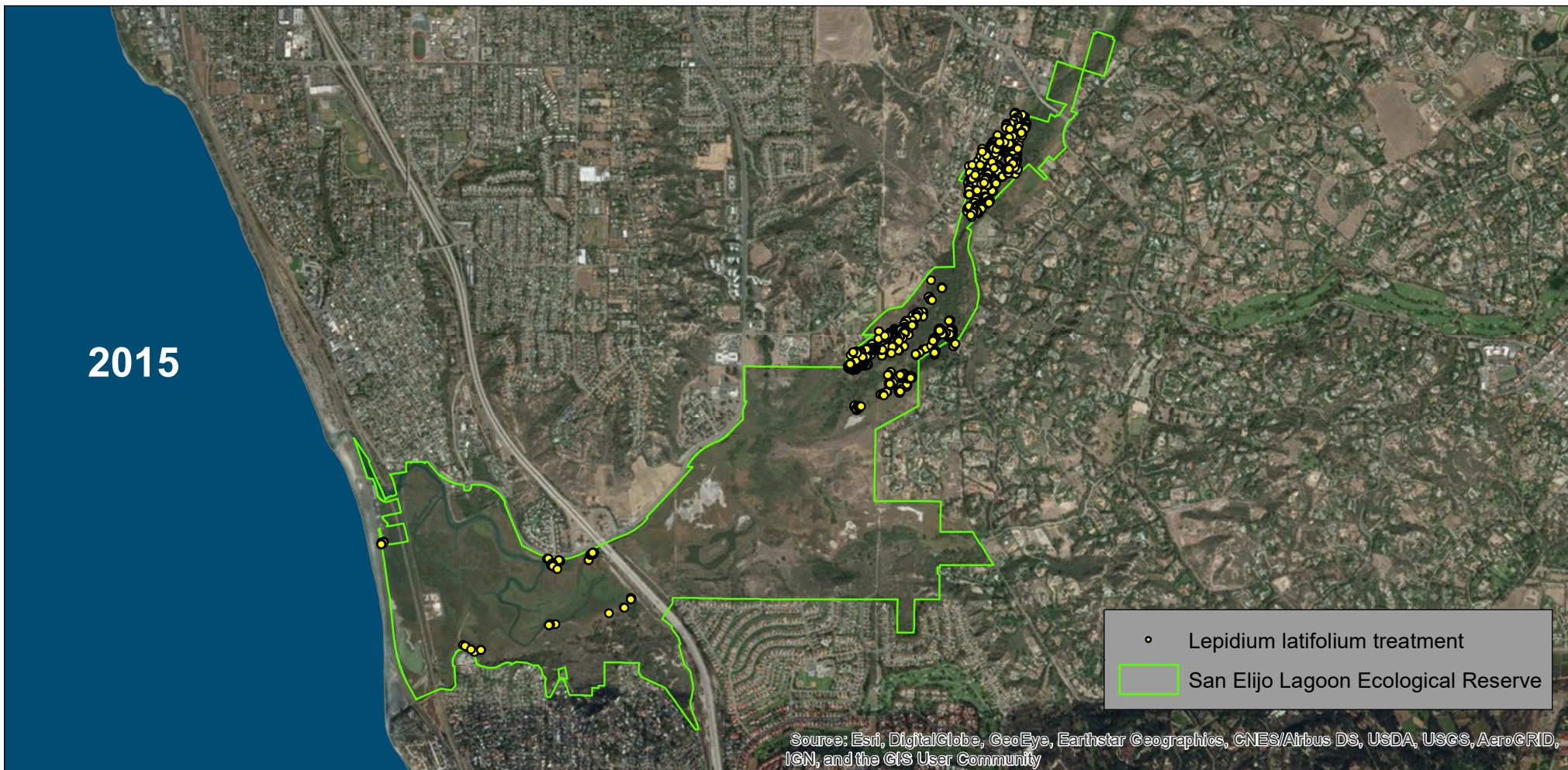
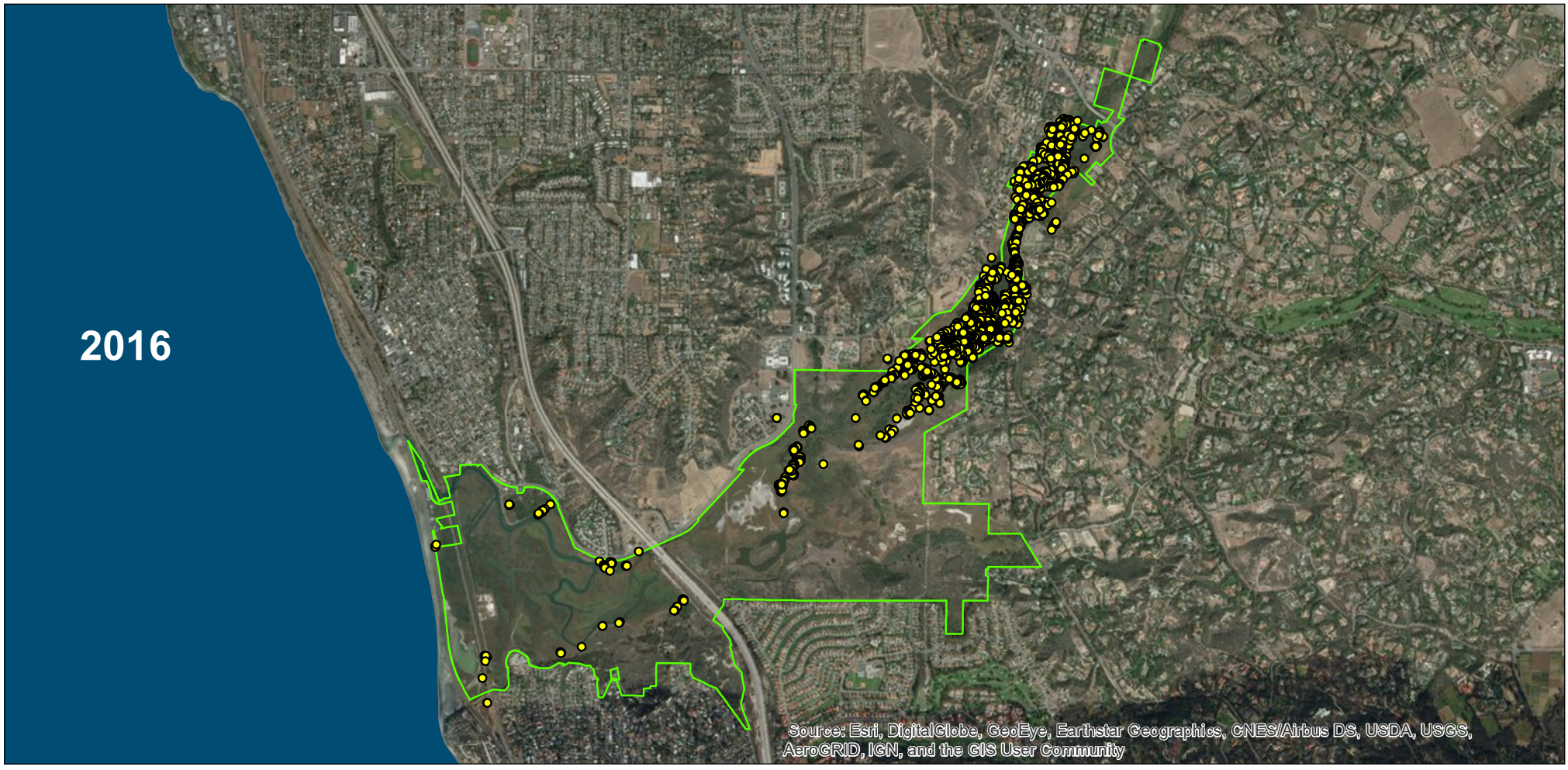
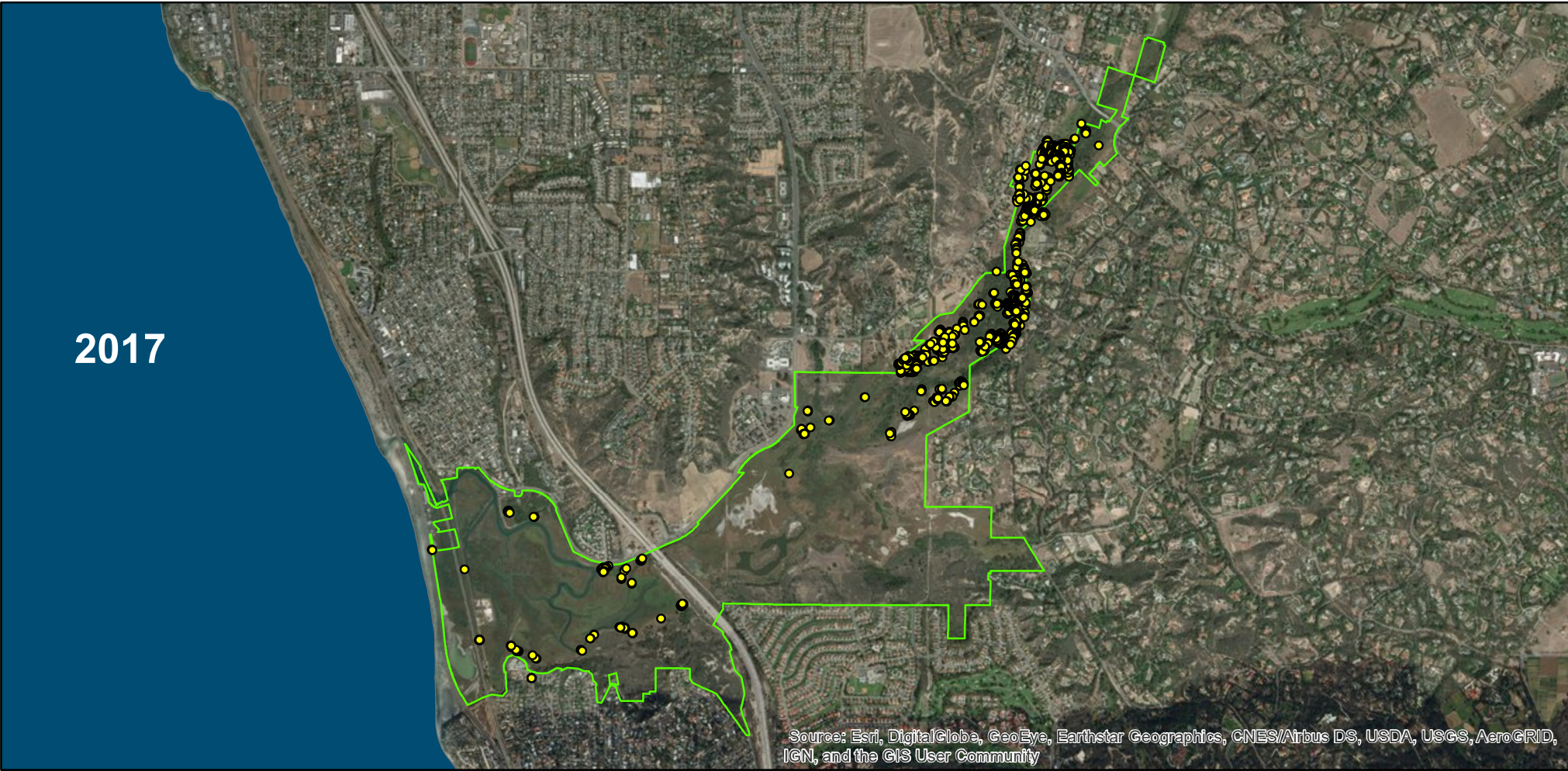
Applicant Name/Title (print or type)

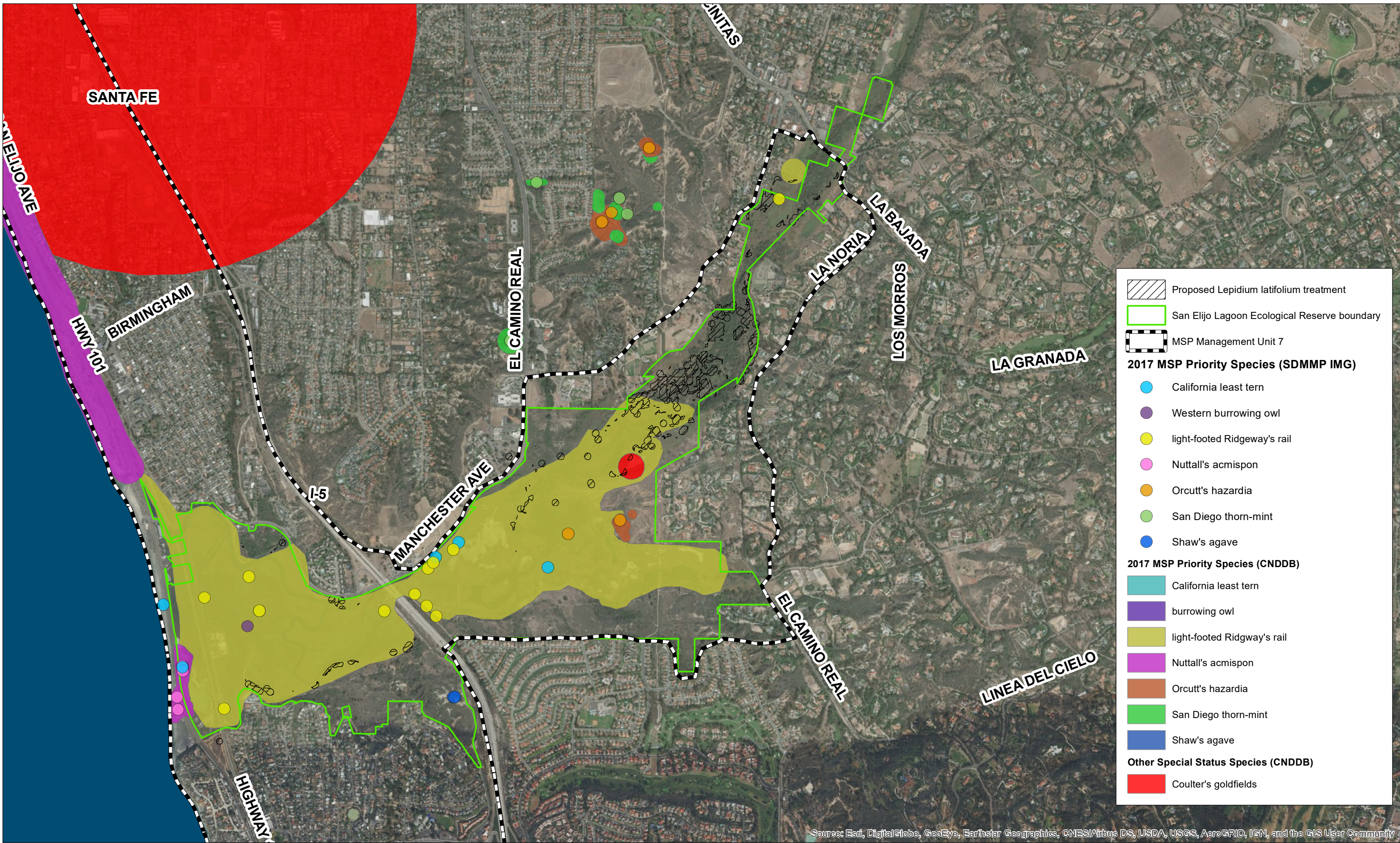


01/11/18

Applicant Signature

Date





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

