

### Threat Reduction Stewardship Grant Application

Grant application form and required supplementary materials (hereafter referred to as “application”) cannot exceed eight pages.

Applicant Name:<sup>1</sup> County of San Diego, Parks and Recreation  
Address: 5500 Overland Ave., Ste. 410, San Diego, CA 92123  
Phone: (858) 444-5711  
Email: Deborah.Mosley@sdcounty.ca.gov  
Name of Property: Otay Ranch Preserve: Dulzura Parcels (APNs 59816017 and 59817018)  
General Location<sup>2</sup>: ~0.3 mile southeast of 14615 Otay Lakes Rd, Jamul, CA 91935  
Jurisdiction<sup>3</sup>: County of San Diego  
Total Acres: 801.018 acres  
Estimated Acres Requiring Management: 0.69-acre  
Owner(s) of Property:<sup>4</sup> County of San Diego and City of Chula Vista  
Land manager(s) of property (include name[s]): County of San Diego and City of Chula Vista

### Brief project summary that includes your primary goal and objectives. (200-word maximum)

The goal of the project is to restore and increase the quality of habitat for Quino checkerspot butterfly (MSP Category SL [Species at risk of loss from the Management Strategic Plan Area]) near Minnewawa Truck Trail through seasonal road closure, seeding, and planting within suitable Quino habitat. This program addresses the immediate needs of Quino within the Otay Ranch Preserve (ORP) Dulzura Parcels where loss and degradation of existing Quino habitat has occurred due to vehicles, an increase of invasive plants, and drought. The objectives to reach these goals include 1) container plant installation, 2) seeding, 3) watering, 4) erosion control, 5) removable bollard and sign installation, 6) photographic monitoring, 7) quarterly reports, 8) final report. The methodologies used in this proposal are like those used to successfully restore 6 acres of Quino habitat in the ORP San Ysidro Parcels (CDFW Local Area Assistance Grant), 14.28 acres located in the ORP Salt Creek Parcels for the City of Chula Vista Quino Checkerspot Recovery Program, and 5 acres on USFWS Refuge property for the Quino Checkerspot Augmentation Project. This project is consistent with the management and monitoring approach prescribed in SDMMMP’s Management and Monitoring Strategic Plan (MSP Vol. 2D, Page V2D.2-6).

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<sup>1</sup> While collaboration is encouraged in the development of the grant application, the application must identify one organization as the lead entity that will enter into the grant agreement with SANDAG.

<sup>2</sup> Physical address, or closest cross streets or property boundary.

<sup>3</sup> Name of city where the project is located. County of San Diego can be listed for the unincorporated areas of the region.

<sup>4</sup> If the applicant is not the landowner, please submit a letter or right-of-entry permit from the landowner granting permission to perform the land management duties as outlined in the application. Failure to provide the letter or right-of-entry permit will lead to disqualification of the application. *Attached letter or right-of-entry permit (if applicable) does not count toward eight-page maximum.*

**Quantify expected results (add bullets as necessary)**

- Decrease in sensitive habitat degradation from access and uses through installation of access control measures including fencing, bollards, and signage.
- Increased possibility that Quino habitat would recover from its current degraded condition on a historically important site; thus, fostering Quino larval resilience and survival.
- Install 7 removable bollards and 1 removable seasonal closure sign. The bollards and sign will be installed and locked to close the road to vehicles when Quino larvae and adults are active. The road is located behind a robust tubular steel locked gate and tubular steel barrier that runs parallel to Minnewawa Truck Trail. The road is exclusively used by US Customs and Border Protection (USCBP) with the hilltop being an observation area and the base of the road used to occasionally stage equipment when repairing Minnewawa Truck Trail. The road will remain open to USCBP when Quino are in diapause. The project has been designed to cooperate with the USCBP mission by allowing off-season vehicle access to the hilltop while protecting and restoring Quino habitat.
- Hydroseed 0.64-acre with Quino host plant and nectar plant seeds to restore degraded bare ground to suitable Quino habitat.
- Hand seed 0.05-acre with Quino nectar plant seeds to enhance Quino habitat where vehicles have damaged vegetation.
- Reduce erosion within 0.15-acre by using a skid steer to fill in rills and installing biodegradable wattles to slow the flow of water.
- Install 400 1-gallon container plants within 0.15-acre to reduce erosion and provide additional nectar sources for Quino checkerspot.
- A biologist possessing a current USFWS Quino checkerspot permit and at least 5 years of experience with Quino checkerspot habitat restoration will be present for all installation activities.
- Establish a minimum of 5 photographic monitoring locations.
- Prepare six quarterly reports.
- Prepare one final report.
- Matching/complementary work:
  - Quantitative monitoring will be conducted to compare changes in plant diversity as well as cover estimates for bare ground, host, nectar, native, and non-native plants. A rapid assessment survey will be conducted prior to implementation in winter 2022/23 and in spring 2024 as part of the Otay Ranch Preserve fiscal year 2022-2023 and 2023-2024 annual work plans. The results will be included in the Quino checkerspot short-term threat reduction project final report.
  - 918 linear feet of barbless wire t-post fence will be installed to protect Quino checkerspot and its habitat from vehicle damage as part of the Otay Ranch Preserve fiscal year 2022-2023 annual work plan. The fencing will be installed in fall 2022.
  - Non-native plants will be treated with herbicide up to 8 times within 0.69-acre of the project area as part of the Otay Ranch Preserve fiscal year 2022-2023 and 2023-2024 annual work plans. Quino avoidance methods employed on the projects listed above in the *Brief Project Summary* will be used.
- Post-grant period:
  - For an additional 4 years, non-native plants will be treated with herbicide and/or removed by hand, vegetation will be quantitatively monitored using the rapid assessment method, and repeat photos will be collected as part of the Otay Ranch Preserve fiscal year annual work plans. After this period the site will be assessed annually to determine when additional weed treatment is needed. Focused surveys for Quino checkerspot, as described in the Otay Ranch Preserve RMP Phase 2 Update, and repeat photo monitoring will be conducted concurrently every 5 years. Installation and removal of bollards will occur annually during and after the seasonal closure. Fence, sign, and bollards will be repaired, as needed. All maintenance and monitoring will be reported in the Otay Ranch Preserve annual reports.

**Brief description of dedicated staff and/or consultants/contractors that would work on the Project.  
(200-word maximum)**

County of San Diego Department of Parks and Recreation (DPR) staff will be utilized to administer the overall implementation of the project in accordance with the terms and conditions specified in SANDAG’s standard contract. A qualified biological consultant, familiar with the County of San Diego MSCP Subarea Plan, Otay Ranch Resource Management Plan, and the SDMMMP MSP will be retained by the County to perform the installation activities described in Exhibit A of this proposal. To be considered for this project, prospective biological consultants shall demonstrate to DPR staff that they possess the necessary biological technical services to successfully implement the County’s Quino checkerspot short-term threat reduction project detailed in Exhibit A of this grant proposal. Prospective biological consultants must possess a current USFWS Quino checkerspot permit and at least 5 years of experience with Quino checkerspot habitat restoration.

**Funding Needs Summary**

Please indicate how much funding is being requested from SANDAG.

Budget Item	Requested Funding Amount	Description
Personnel Expenses Staff	\$0	Includes staff time for non-administrative work on the project
Personnel Administrative Expenses	\$0	Includes all staff time to administer the contract
Consultant/Contractor Expenses	\$56,589.26	Includes all costs for consultant/contractor services
Other Direct Expenses	\$23,410.74	Includes all equipment, supplies, mileage, etc.
<b>Total:</b>	<b>\$80,000</b>	

*\*if applicable*

**Project Application**

The application will include: (a) the purpose of the project; (b) the scope of work by tasks; (c) the proposed budget 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/contractor costs), start and end dates of the tasks, and deliverables.

**Project Purpose**

Please describe how the proposed project meets the following criteria:

1. The proposed project specifically addresses relevant high-priority Management Strategic Plan (MSP) species and their habitats. Refer to the [MSP](#) for Conserved Lands in Western San Diego County.

On March 6, 1996, the San Diego County Board of Supervisors authorized the formation of a Preserve Owner/Manager (POM) through the execution of a Joint Powers Agreement between the City of Chula Vista and the County of San Diego. The POM is responsible for management of resources, restoration of habitat and enforcement of open space restrictions for the Otay Ranch Preserve. The County is proposing to implement an 18-month species-specific management program focused on access control and habitat restoration within up to 0.69-acre of degraded habitat for the Quino checkerspot, a listed MSP sensitive species (Category SL). This program addresses the immediate needs of the Quino checkerspot within Otay Ranch Preserve Dulzura Parcels where loss and degradation of existing Quino habitat has occurred due to vehicles, an increase of invasive plant species, and drought. The proposed project implements specific SDMMMP MSP MU3 goals and objectives for Quino checkerspot populations (MSP Vol. 2D, Page V2D.2-6): *The overarching goal for Quino checkerspot is to protect, enhance, and restore occupied habitat and historically occupied habitat and the landscape connections between them to create*

*resilient, self-sustaining populations that provide for persistence over the long term (>100 years).*

2. The proposed project will address an urgent need and includes actions that will reduce or manage an identified threat.

The SDMMP MSP states *Quino checkerspot faces a number of threats to persistence including urbanization leading to habitat loss and fragmentation, invasive nonnative plants, altered fire regimes, and overgrazing (Mattoni et al. 1997; Longcore et al. 2003; USFWS 2003, 2009). Invasive plant species reduce bare ground important for larval insolation and reduce native species, resulting in a loss of host and nectaring plants. Other threats include direct mortality from roads and human use of preserves that cause trampling of larvae and host plants and compaction of soils.* Habitat loss due to vehicles and invasive non-native plants have been identified by the Otay Ranch Preserve Steward/Biologist as a major threat to Quino checkerspot at the proposed project location. This proposed habitat restoration project will meet the immediate need to repair degraded habitat that is causing a decline in Quino checkerspot at the Dulzura Parcels. Seeding host and nectar plants will provide higher quality habitat for Quino checkerspot to reproduce. Seasonal road closures will protect Quino checkerspot from being impacted by vehicles. These activities directly eliminate and manage identified threats to Quino by restoring and enhancing Quino habitat.

3. Success criteria have been identified and will be monitored and reported. Success of the proposed project is likely with clear, measurable, proven results that will promote conservation.

Success criteria will include the successful restoration of approximately 0.69-acre of degraded bare ground and damaged vegetation to suitable Quino habitat. The addition of this area will directly benefit the species that are known to historically occur at the site. Suitable Quino habitat will include the establishment of host plants, nectar plants and the control of non-native plant cover. Furthermore, this scope of work includes installation of fencing and bollards to ensure that both the restored and existing occupied Quino habitat are not impacted by vehicular activities. Measurable actions will include quantifiable restored area and successful access control; all of which would be reported in the quarterly and final reports to SANDAG.

The scope of work for this project includes pre-implementation photo monitoring. Survey data collected between 2011, 2012, 2017, and 2022 will be used to establish baseline conditions for Quino checkerspot. Repeat photos will be taken prior to implementation and throughout the duration of this short-term program to provide a visual record of changes in the density and distribution of native and non-native plants as well as overall site conditions. As matching/complementary work, quantitative monitoring consisting of pre- and post-implementation rapid assessment surveys will be conducted to compare changes in plant diversity as well as cover estimates for bare ground, host, nectar, native, and non-native plants.

The site will be monitored and reported on over an 18-month period. Monitoring activities that will be performed over the 18-month program include: pre- and post-implementation repeat photographs from the established photo point locations and rapid assessment surveys. Monitoring and management data will be submitted to the SC-MTX website portal.

The proposed project implements specific SDMMP MSP MU3 goals and objectives for Quino checkerspot populations by protecting, enhancing, and restoring occupied habitat. This will be accomplished through planting and seeding nectar sources, seeding host plant, erosion control, and seasonal road closure. The project biologist will collect the data.

To ensure no negative effects to Quino checkerspot occur, the project biologist will possess a current USFWS Quino checkerspot permit and have at least 5 years of experience with Quino checkerspot habitat restoration. Additionally, the project biologist will clearly flag areas to avoid prior to implementation and will monitor the restoration work to minimize impacts to adjacent sensitive species and vegetation communities.

4. Any activities necessary to maintain the proposed project after the 18-month grant period have been identified and funding for those activities has been secured. Please explain what source of funding (if any) has been used to fund this activity in the past and what kind of funding is available to support this work in the future (if needed).

Following the 18-month short-term program, long-term management of the site will be the responsibility of the POM. Funding for the long-term maintenance is secured through an existing Community Facilities District (CFD).

5. To be eligible for funding, the proposed project must be on lands conserved for native habitat within the MSP area. Where is the project located and where work will be conducted? (*Attach a map*)

The proposed project is located within MU3 (see Figures 1 and 2). Figure 3 identifies the location of the potential Quino checkerspot habitat restoration area proposed through this grant proposal.

6. Does the proposed project provide a co-benefit to CBO Network Communities and foster social equity? Please describe. *Additional Points can be awarded if this is relevant to the project and is appropriately described to meet the qualifications listed in the Call for Projects.*

The proposed project is not anticipated to provide a co-benefit to CBO Network Communities or foster social equity.

### Scope of Work by Task

Please break down the application 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 #	Task Name	Task Description	Quantifiable Results/Deliverables
1.	Planting	Native coastal sage scrub shrubs will be installed to provide additional nectar sources as well as to stabilize a slope where vehicle use has formed rills.	Install 400 1-gallon container plants within 0.15-acre. Representative photos and a figure showing the planting location will be provided in the Final report.
2.	Seeding	Host and nectar plant seeds will be applied to the site using hydroseed to restore habitat that is degraded due to vehicles and weed invasion.	Up to 0.64-acre will be hydroseeded with locally sourced dot-seed plantain ( <i>Plantago erecta</i> ), common goldfields ( <i>Lasthenia gracilis</i> ), and tidy-tips ( <i>Layia platyglossa</i> ). An additional 0.05-acre will be seeded by hand with common goldfields and tidy-tips. Representative photos and a figure showing the seeding locations will be provided in the Final report.
3.	Watering	Water container plants and seed to encourage plant establishment and to supplement natural rain events.	Water plants once a week for three months and every other week for two months. Representative photos will be provided in the Final report.
4.	Erosion Control	Reduce erosion by using a skid steer to fill in erosion rills and install biodegradable wattles to slow the flow of water.	Fill in erosion rills within 0.15-acre and install biodegradable wattles to slow the flow of water.
5.	Bollards & Sign (Seasonal Road Closure)	5a. Bollard embedment sleeves will be installed with concrete across the dirt road. 5b. Removable bollard posts with loops for padlocks will be installed in the embedment sleeves to restrict vehicle access. The bollard posts and a sign stating seasonal road closure will be padlocked to the embedment sleeves when Quino checkerspot are active. The bollard posts and sign will be removed and stored when Quino are no longer active for the year. Seasonal road closure when Quino checkerspot have emerged from diapause will prevent vehicles from impacting Quino checkerspot larvae and adults.	Seven removable bollards and one removable seasonal closure sign will be installed. Representative photos and a figure showing the location of the bollards and sign will be provided in the Final report.
6.	Photo Monitoring	Prior to implementation, permanent photo points will be established within the project site to document habitat restoration efforts. Photos will be taken from the established photo points to provide	Five permanent photo points will be established. The results of the pre-implementation photo monitoring will be used as a visual baseline to compare to the site conditions at the end of the Quino checkerspot habitat restoration project and will be included in the

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TransNet Environmental Mitigation Program Land Management Grant Program

		a visual record of changes in the density and distribution of both native and non-native plants and overall site conditions.	Final report.
7.	Quarterly Reports	Quarterly progress reports will be prepared and submitted to SANDAG to document restoration activities.	Six quarterly progress reports will be submitted that provide a status update for each task performed. The quarterly reports will cover the following periods: January 1 to March 31; April 1 to June 30; July 1 to September 30; October 1 to December 31. The reports will be submitted to SANDAG within three weeks after each period.
8.	Final Report	The Final Report will summarize habitat restoration efforts and photo monitoring results. The report will include future management recommendations.	The Final Report will be prepared summarizing the results of the habitat restoration and photo monitoring tasks performed. The Final Report will include representative photos of the work performed. Monitoring and management data will be submitted to the SC-MTX website portal.
"n"	County of San Diego DPR Admin	County of San Diego Administration tasks will include a variety of coordination and administration tasks to be completed by the County of San Diego throughout the duration of the project.	Matching funds will be used to: Oversee the biological contractor; Review and submit quarterly reports; Contract administration/invoice review; install 918 linear feet of barbless wire t-post fence (part of the Otay Ranch Preserve fiscal year annual work plan); treat non-native plants up to 8 times within 0.69-acre (part of the Otay Ranch Preserve fiscal year annual work plan); quantitatively monitor during pre- and post-implementation (part of the Otay Ranch Preserve fiscal year annual work plan).

### Budget by Task

Please include a specific budget for each task described in the Scope of Work (Section B above).

*This funding category is intended to fund short-term threat reduction projects in need of one-time funding necessary to fill existing funding gaps for specific tasks and will not cover on-going annual costs within applicant's organization.*

#### Exhibit B – Proposed Project Budget

Task No.	Task Name	Grant Request
1.	Planting	\$ 13,601.59
2.	Seeding	\$ 4,775.00
3.	Watering	\$ 31,931.20
4.	Erosion Control	\$ 5,322.99
5.	Bollards & Sign (Seasonal Road Closure)	\$ 14,754.54
6.	Photo Monitoring	\$ 593.84
7.	Quarterly Reports	\$ 4,080.96
8.	Final Report	\$ 4,939.88
"n"	County of San Diego Parks and Recreation Administrative	\$ -
	<b>Subtotal</b>	<b>\$ 80,000.00</b>
	<b>Total</b>	<b>\$ 80,000.00</b>

## Project Schedule

Please include start and end dates relative to the anticipated Notice to Proceed (NTP) (assumes fall 2022) 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. *All tasks must be completed within 18 months of the NTP.*

**Exhibit C – Proposed Project Schedule (Assumes fall 2022 NTP)**

Task No.	Task Name	Proposed Start Date	Months Needed to Complete Task	Task End Date
1.	Planting	01/03/2023	3 Months	04/03/2023
2.	Seeding	01/03/2023	3 Months	04/03/2023
3.	Watering	01/03/2023	5 Months	06/03/2023
4.	Erosion Control	01/03/2023	2 Month	03/03/2023
5a.	Bollard Embedment Sleeves	01/03/2023	2.5 Months	03/15/2023
5b.	Seasonal Road Closures	01/03/2023	17 Months	06/01/2024
6.	Photo Monitoring	12/01/2022	18 Months	06/01/2024
7.	Quarterly Reports	04/03/2023	15 Months	06/01/2024
8.	Final Report	04/01/2024	2 Month	06/01/2024
"n"	County of San Diego Parks and Recreation Administrative	12/01/2022	18 Months	06/01/2024

*Please explain why and how much additional time would be needed in the event of any delays due to NTP being provided beyond fall 2022 and/or unexpected weather conditions such as drought that could occur during the proposed project implementation.*

No additional time would be needed in the event of delays to the NTP or unexpected weather conditions.

## Notice Regarding Prevailing Wages

California law requires that public works projects pay prevailing wages for workers.

Applicant acknowledges that any work that qualifies as a "public work" within the meaning of California Labor Code Section 1720 shall cause Applicant and its subcontractors to comply with the provisions of California Labor Code Sections 1775 et seq, which includes the payment of prevailing wages to all workers performing prevailing wage work.

Yes  No

Applicant acknowledges that if Applicant or its subcontractors will engage in the performance of a public work as defined by California Labor Code Sections 1720 et seq. and will utilize persons who are not employees of a public entity, registration and payment of an annual registration fee to the California Department of Industrial Relations (DIR) shall be required of each entity performing the work. This requirement applies to anyone affected by the public works statutes found in the California Labor Code, including but not limited to landscapers, fencers, surveyors, soil testers, dredgers, heavy equipment operators, and inspectors.

Yes  No

Applicant acknowledges that if Applicant will award any subcontracts for the performance of a public work:

- Applicant shall notify SANDAG 30 calendar days prior to the award of each subcontract so SANDAG can create a Project Registration Form (aka PWC-100 form) for each subcontract using the DIR online database. Applicant will provide to SANDAG the name, DIR registration number, and contractor's license numbers of each subcontractor so SANDAG can verify, prior to Applicant's award of the subcontract for a public work, that the selected subcontractor is currently licensed and registered with the DIR. If SANDAG finds that the selected subcontractor is not licensed and registered with the DIR, SANDAG will promptly notify Applicant and Applicant will not be permitted to award the subcontract to the selected subcontractor.

Yes  No

- Applicant shall notify SANDAG ten business days prior to the subcontractor performing the prevailing wage work so SANDAG can prepare for labor compliance monitoring.

Yes  No

- If there are any changes to a subcontractor or lower-tier subcontractor, Applicant will advise SANDAG of these changes as soon as those changes are known to the Applicant.

Yes  No

## Required Statements from Applicant

Yes No

- The applicant has read and understands the Sample Grant Agreement (Agreement) and Invoice Template (Attachment 4).
- If the Board of Directors approves the proposed project application, the applicant agrees to sign and return the Agreement to SANDAG, without exceptions or amendments, within 45 days of receipt.
- 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 available at: [sandag.org/organization/about/pubs/policy\\_035.pdf](http://sandag.org/organization/about/pubs/policy_035.pdf)
- The applicant understands that 10% of all invoiced amounts will be retained until the completion of the proposed project.
- 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.
- The applicant understands that invoices and reports must be submitted on a quarterly basis within three weeks after each period close covering January 1 to March 31; April 1 to June 30; July 1 to September 30; and October 1 to December 31.
- The applicant understands that the EMP quarterly report template (to be sent to the grantee after NTP is issued and can be found at [sandag.org/index.asp?classid=17&projectid=447&fuseaction=projects.detail](http://sandag.org/index.asp?classid=17&projectid=447&fuseaction=projects.detail)) 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.
- 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 can be found at [sandag.org/index.asp?classid=17&projectid=447&fuseaction=projects.detail](http://sandag.org/index.asp?classid=17&projectid=447&fuseaction=projects.detail)); and all outstanding deliverables in order to receive final payment and have retained funds released.
- 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 applications. SANDAG will provide applicants with advance notice of the Regional Planning Committee’s anticipated meeting date.
- The applicant agrees to submit all project data/information to SANDAG and to upload data and reports to a project page created by the applicant on the SDMMP web portal in a format consistent with regional management databases.

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

**BRIAN ALBRIGHT, Director**

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

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**Applicant Signature**

**Date**



 Project Location

FIGURE 1  
Regional Location



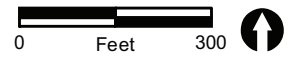
**Project Location**

**Pio Pico RV Resort  
and Campground**

**OTAY LAKES RD**

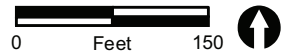
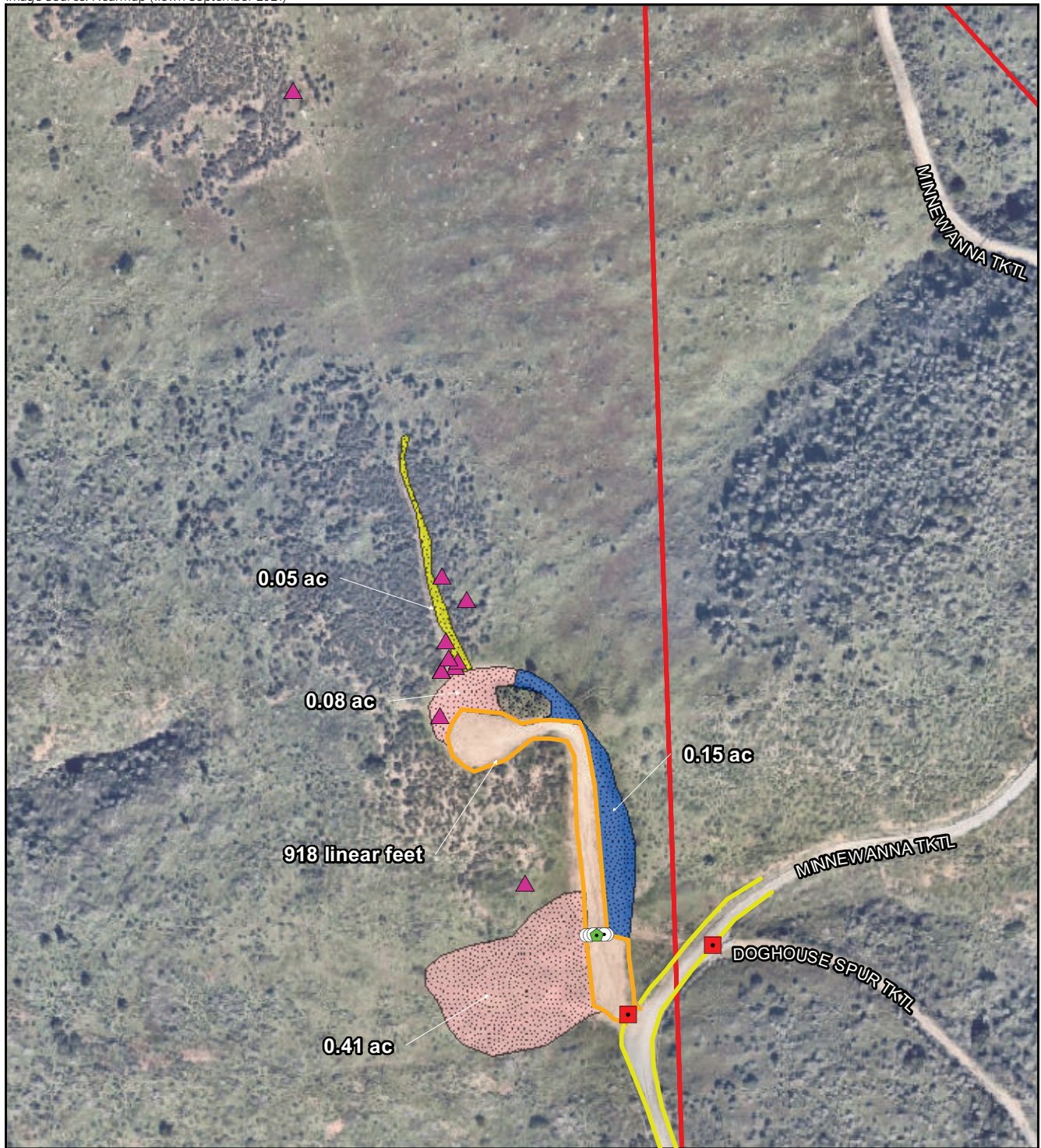
**MINNEWANNA TKIL**

**DOGHOUSE SPUR TKIL**



 Otay Ranch Preserve: Dulzura Parcels

**FIGURE 2**  
Project Location on Aerial Photo



- |   |                                  |
|---|----------------------------------|
| Otay Ranch Preserve: Dulzura Parcels          | QCB Observed in 2011, 2012, 2017 |
| Matching: Proposed Barbless Wire T-post Fence | Proposed Container Plants        |
| Tube Steel Barrier                            | Proposed Hydroseed               |
| Sign: Seasonal Closure                        | Proposed Seed by Hand            |
| Bollards: Removable                           | Matching: Proposed Weeding       |
| Locked Gate                                   |                                  |

FIGURE 3  
QCB Short-term Threat Reduction Project Location