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Sunrise Powerlink Adaptive Weed Control Strategy

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INTRODUCTION

San Diego Gas & Electric (SDG&E), in consultation with RECON Environmental, developed an Adaptive Weed Control Strategy (AWCS) as mitigation for the Sunrise Powerlink Energy Project that focuses on enhancement of large, biologically significant parcels of land as opposed to traditional weed control specifically within the powerline right-of-way. SDG&E created this strategy with the purpose of using allocated funding for the betterment of native flora and fauna with a target of restoring land that has the potential to reconnect disturbed areas with adjacent native habitat. Using a series of key variables, including fire potential, non-native abundance/Cal-IPC rating, connectivity to undisturbed land, and presence of sensitive biological resources, as a means to determine appropriate areas for treatment; SDG&E, in coordination with landowners, is able to address weed control at the source. This strategy allows stakeholders to focus funding at the most appropriate location or the source of the issue. The AWCS strategy allows regulatory agencies, land managers/owners, and other stakeholders a formalized mechanism to address key weed and habitat restoration issues on their lands. For the duration of the Sunrise Powerlink Project, approximately 50 years, SDG&E and these groups will have a program and allocated funding to target critical weed issues surrounding the project area.

This poster summarizes activities that were performed during Year 2 (October 2013 through September 2014) on the properties of Lakeside Ranch, Eichenlaub Ranch, and Suncrest. Habitat enhancement efforts included weed removal and seeding. Weed control within AWCS sites targets all non-native and invasive annual and perennial plant species, including the following priority species: saltcedar (*Tamarix* spp.), tree tobacco (*Nicotiana glauca*), Russian thistle (*Salsola tragus*), castor bean (*Ricinus communis*), mustards (*Brassica* spp.), and non-native grasses. Weeds are controlled through manual (hand or machine) and/or chemical means.

GOALS AND OBJECTIVES

- Treat all weed species present in a selected treatment area regardless of their designated status.
- Expand weed control treatment areas to include entire weed infestations, including locations outside of the project right-of-way.
- Exclusion of invasive species through habitat enhancement (i.e., broadcast seeding of native species).
- Eradication of yellow starthistle (*Centaurea solstitalis*) populations in approved locations throughout San Diego County.

Treatment Area	Acreage	NNIS Treatment Methods	Predominant Weed Treated
Eichenlaub Ranch (Phases I-III)	23.10	Dethatching, herbicide application	Avena fatua; Bromus spp.; Centaurea solstitialis; Erodium cicutarium
Suncrest	50.30	Dethatching, herbicide application	Avena fatua; Brassica nigra; Bromus spp.; Centaurea melitensis; Erodium cicutarium
Lakeside Ranch	18.12	Dethatching, herbicide application	Bromus spp.; Centaurea melitensis; Erodium cicutarium; Hirschfeldia incana
TOTAL	91.52		

