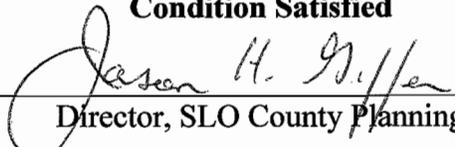


Condition 59	Morro blue butterfly surveys
<p>Prior to construction activities on the Broderson and Mid-town properties, a qualified biologist shall be retained to identify and demarcate all host silver dune lupine (<i>Lupinus chamissonis</i>) shrubs that occur within the impact area. The qualified biologist shall inspect each host lupine for the presence of any Morro blue butterfly eggs, larvae, or pupae. In an effort to avoid mortality of butterfly eggs, larvae, or pupae prior to the onset of adult emergence, any host lupine specimens determined to contain eggs, larvae, or pupae shall be considered for relocation outside of the impact area and within suitable coastal dune scrub habitat on either the Broderson or Mid-town properties. To avoid take of the Morro shoulderband snail (<i>Helminthoglypta walkeriana</i>) while conducting Morro blue butterfly survey activities, any person conducting such surveys shall be a qualified biologist knowledgeable in the general habitat requirements of the Morro shoulderband snail and familiar with the diagnostic features of all native and introduced snail species. Any planting and restoration efforts proposed as mitigation for the project shall include silver dune lupine within the plant palette to encourage the species to continue to use the area.</p>	
<p>Evidence of compliance: County Public Works biologists addressed Morro blue butterfly mitigation through a method used for similar butterfly species. In order to minimize impacts to adult butterflies during construction in the summer, and to avoid harm to adult butterflies by catching and relocating individuals, a majority of dune lupine plants on the Midtown and Broderson sites were removed. This work took place on January 27, February 24, and March 5, 2012. Three County biologists who are authorized by the Los Osos Wastewater Project's biological opinion to survey for and relocate snails, carefully collected the duff under each cut lupine and relocated the duff to adjacent lupines that will not be affected by the project. The duff could contain a larval stage of the butterfly (if present) and the relocation would allow any larvae to metamorphose into adult butterflies this year. Habitat removal in areas to be disturbed also prevents adult butterflies from laying eggs on plants that will be removed during construction. Relocation of mature dune lupine plants is not considered a feasible option.</p> <p>The Habitat Management Plan (previously provided) incorporates silver dune lupine at both Midtown and the Broderson leach field.</p>	

Condition Satisfied



Director, SLO County Planning

APRIL 6, 2012

Date