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Understanding with CDFG for live-trapping of heteromyid species in Southern California.

> Translocation: Should translocation between distinct population groups be necessary, as determined through the Adaptive Management and Monitoring Program, activity should be conducted by a qualified biologist who possesses a Memorandum of Understanding with CDFG for live-trapping of heteromyid species in Southern California. Trapping and subsequent translocation activity should be conducted in accordance with accepted protocols. Translocation programs should be coordinated by or conducted by the CVCC and/or RMOC to determine the appropriate trapping, holding, marking, and handling methods and potential translocation sites.

<u>Little San Bernardino Mountains Linanthus.</u> This measure does not apply to single-family residences and any non-commercial accessory uses and structures, including but not limited to second units on an existing legal lot, or to O&M of Covered Activities. To avoid and minimize impacts to this species as much as possible, the following avoidance and minimization effort shall occur:

➤ Salvage: Salvage of top soil and/or seeds should occur prior to ground disturbance in accordance with Section 6.6.1. Salvage should be conducted by or in cooperation with the CVCC.

4.5 Land Use Adjacency Guidelines

The purpose of Land Use Adjacency Guidelines is to avoid or minimize indirect effects from Development adjacent to or within the Conservation Areas. Adjacent means sharing a common boundary with any parcel in a Conservation Area. Such indirect effects are commonly referred to as edge effects, and may include noise, lighting, drainage, intrusion of people, and the introduction of non-native plants and non-native predators such as dogs and cats. Edge effects will also be addressed through reserve management activities such as fencing. The following Land Use Adjacency Guidelines shall be considered by the Permittees in their review of individual public and private Development projects adjacent to or within the Conservation Areas to minimize edge effects, and shall be implemented where applicable.

4.5.1 Drainage

Proposed Development adjacent to or within a Conservation Area shall incorporate plans to ensure that the quantity and quality of runoff discharged to the adjacent Conservation Area is not altered in an adverse way when compared with existing conditions. Stormwater systems shall be designed to prevent the release of

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toxins, chemicals, petroleum products, exotic plant materials or other elements that might degrade or harm biological resources or ecosystem processes within the adjacent Conservation Area.

4.5.2 Toxics

Land uses proposed adjacent to or within a Conservation Area that use chemicals or generate bioproducts such as manure that are potentially toxic or may adversely affect wildlife and plant species, Habitat, or water quality shall incorporate measures to ensure that application of such chemicals does not result in any discharge to the adjacent Conservation Area.

4.5.3 Lighting

For proposed Development adjacent to or within a Conservation Area, lighting shall be shielded and directed toward the developed area. Landscape shielding or other appropriate methods shall be incorporated in project designs to minimize the effects of lighting adjacent to or within the adjacent Conservation Area in accordance with the guidelines to be included in the Implementation Manual.

4.5.4 *Noise*

Proposed Development adjacent to or within a Conservation Area that generates noise in excess of 75 dBA L_{eq} hourly shall incorporate setbacks, berms, or walls, as appropriate, to minimize the effects of noise on the adjacent Conservation Area in accordance with the guidelines to be included in the Implementation Manual.

4.5.5 Invasives

Invasive, non-native plant species shall not be incorporated in the landscape for land uses adjacent to or within a Conservation Area. Landscape treatments within or adjacent to a Conservation Area shall incorporate native plant materials to the maximum extent Feasible; recommended native species are listed in Table 4-112. The plants listed in Table 4-113 shall not be used within or adjacent to a Conservation Area. This list may be amended from time to time through a Minor Amendment with Wildlife Agency Concurrence.

Table 4-112: Coachella Valley Native Plants Recommended for Landscaping¹

BOTANICAL NAME	COMMON NAME
Trees	
Washingtonia filifera	California Fan Palm
Cercidium floridum	Blue Palo Verde
Chilopsis linearis	Desert Willow
Olneya tesota	Ironwood Tree
Prosopis glandulosa var. torreyana	Honey Mesquite
Shrubs	
Acacia greggii	Cat's Claw Acacia
Ambrosia dumosa	Burro Bush
Atriplex canescens	Four Wing Saltbush
Atriplex lentiformis	Quailbush
Atriplex polycarpa	Cattle Spinach
Baccharis sergiloides	Squaw Water-weed
Bebia juncea	Sweet Bush
Cassia (Senna) covesii	Desert Senna
Condalia parryi	Crucillo
Crossosoma bigelovii	Crossosoma
Dalea emoryi	Dye Weed
Dalea (Psorothamnus) schottii	Indigo Bush
Datura meteloides	Jimson Weed
Encelia farinosa	Brittle Bush
Ephedra aspera	Mormon Tea
Eriogonum fasciculatum	California Buckwheat
Eriogonum wrightii membranaceum	Wright's Buckwheat
Fagonia laevis	(No Common Name)
Gutierrezia sarothrae	Matchweed
Haplopappus acradenius	Goldenbush
Hibiscus denudatus	Desert Hibiscus
Hoffmannseggia microphylla	Rush Pea
Hymenoclea salsola	Cheesebush
Hyptis emoryi	Desert Lavender
Isomeris arborea	Bladder Pod
Juniperus californica	California Juniper
Krameria grayi	Ratany
Krameria parvifolia	Little-leaved Ratany
Larrea tridentate	Creosote Bush
Lotus rigidus	Desert Rock Pea
Lycium andersonii	Box Thorn
Petalonyx linearis	Long-leaved Sandpaper Plant
Petalonyx thurberi	Sandpaper Plant
Peucephyllum schottii	Pygmy Cedar
Prunus fremontii	Desert Apricot
Rhus ovata	Sugar-bush
Salazaria mexicana	Paper-bag Bush

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Table 4-112 (cont.)

BOTANICAL NAME COMMON NAME		
Salvia apiana	White Sage	
Salvia eremostachya	Santa Rosa Sage	
Salvia vaseyi	Wand Sage	
Simmondsia chinensis	Jojoba	
Sphaeralcia ambigua	Globemallow (Desert Mallow)	
Sphaeralcia ambigua rosacea	Apricot Mallow	
Trixis californica	Trixis	
Zauschneria californica	California Fuchsia	
Groundcovers		
Mirabilis bigelovii	Wishbone Bush (Four O'Clock)	
Mirabilis tenuiloba	White Four O'Clock (Thin-lobed)	
Vines		
Vitis girdiana	Desert Grape	
Accent		
Muhlenbergia rigens	Deer Grass	
Herbaceous Perennials ²	SAME STANDS	
Adiantum capillus-veneris	Maiden-hair Fern (w)	
Carex alma	Sedge (w)	
Dalea parryi	Parry Dalea	
Eleocharis montevidensis	Spike Rush (w)	
Equisetum laevigatum	Horsetail (w)	
Juncus bufonis	Toad Rush (w)	
Juncus effuses	Juncus (w)	
Juncus macrophyllus	Juncus (w)	
Juncus mexicanus	Mexican Rush (w)	
Juncus xiphioides	Juncus (w)	
Notholaena parryi	Parry Cloak Fern	
Pallaea mucronata	Bird-foot Fern	
Cacti and Succulents	Did toot i en	
Agave deserti	Desert Agave	
Asclepias albicans	Desert Milkweed (Buggy-whip)	
Asclepias subulata	Ajamete	
Dudleya arizonica	Live-forever	
Dudleya saxosa	Rock Dudleya	
Echinocereus engelmannii	Calico Hedgehog Cactus	
Ferocactus acanthodes	Barrel Cactus	
Fouquieria splendens	Ocotillo	
Mamillaria dioica	Nipple Cactus	
Mamillaria tetrancistra	Corkseed Cactus	
Nolina parryi	Parry Nolina	
Opuntia acanthocarpa	Stag-horn or Deer-horn Cholla	
Opuntia bigelovii	Teddy Bear or Jumping Cholla	
Opuntia basilaris	Beavertail Cactus	
Opuntia echinocarpa	Silver or Golden Cholla	
Opuntia ramosissima	Pencil Cholla, Darning Needle Cholla	

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Table 4-112 (cont.)

BOTANICAL NAME	COMMON NAME
Yucca schidigera	Mojave Yucca, Spanish Dagger
Yucca whipplei	Our Lord's Candle

Source: "Coachella Valley Native Plants, Excluding Annuals (0 ft. to approximately 3,000 ft. elevation)." Compiled by Dave Heveron, Garden Collections Manager, and Kirk Anderson, Horticulturist, The Living Desert, May, 2000, for the Coachella Valley Mountains Conservancy.

Common names for herbaceous perennials that are followed by "(w)" indicate a water or riparian species.

Table 4-113: Prohibited Invasive Ornamental Plants¹

BOTANICAL NAME	COMMON NAME
Acacia spp. (all species except A. greggii)	Acacia (all species except native catclaw acacia)
Arundo donax (✓)	Giant Reed or Arundo Grass
Atriplex semibaccata (✓)	Australian Saltbush
Avena barbata	Slender Wild Oat
Avena fatua	Wild Oat
Brassica tournefortii (🗸)	African or Saharan Mustard
Bromus madritensis ssp. rubens (🗸)	Red Brome
Bromus tectorum (🗸 🗸)	Cheat Grass or Downy Brome
Cortaderia jubata [syn.C. atacamensis]	Jubata Grass or Andean Pampas Grass
Cortaderia dioica [syn. C. selloana]	Pampas Grass
Descurainia sophia	Tansy Mustard
Eichhornia crassipes	Water Hyacinth
Elaegnus angustifolia	Russian Olive
Foeniculum vulgare	Sweet Fennel
Hirschfeldia incana	Mediterranean or Short-pod Mustard
Lepidium latifolium	Perennial Pepperweed
Lolium multiflorum	Italian Ryegrass
Nerium oleander	Oleander
Nicotiana glauca (✔)	Tree Tobacco
Oenothera berlandieri (#)	Mexican Evening Primrose
Olea europea	European Olive Tree
Parkinsonia aculeata (✔)	Mexican Palo Verde
Pennisetum clandestinum	Kikuyu Grass
Pennisetum setaceum (🗸)	Fountain Grass
Phoenix canariensis (#)	Canary Island Date Palm
Phoenix dactylifera (#)	Date Palm
Ricinus communis (🗸)	Castorbean
Salsola tragus (🗸)	Russian Thistle
Schinus molle	Peruvian Pepper Tree or California Pepper
Schinus terebinthifolius	Brazilian Pepper Tree
Schismus arabicus	Mediterranean Grass
Schismus barbatus (🗸)	Saharan Grass, Abu Mashi
Stipa capensis (🗸 🗸)	No Common Name
Tamarix spp. (all species) (🗸)	Tamarisk or Salt Cedar
Taeniatherum caput-medusae	Medusa-head

Table 4-113 (cont.)

BOTANICAL NAME	COMMON NAME
Tribulus terrestris	Puncturevine
Vinca major	Periwinkle
Washingtonia robusta	Mexican fan palm
Yucca gloriosa (#)	Spanish Dagger

Sources: California Exotic Pest Plant Council, United States Department of Agriculture-Division of Plant Health and Pest Prevention Services, California Native Plant Society, Fremontia Vol. 26 No. 4, October 1998, The Jepson Manual; Higher Plants of California, and County of San Diego Department of Agriculture.

Key to Table 4-113:

- # indicates species not on CalEPPC October 1999 "Exotic Pest Plants of Greatest Ecological Concern in California" list
- indicates species known to be invasive in the Plan Area
- indicates particularly troublesome invasive species

4.5.6 Barriers

Land uses adjacent to or within a Conservation Area shall incorporate barriers in individual project designs to minimize unauthorized public access, domestic animal predation, illegal trespass, or dumping in a Conservation Area. Such barriers may include native landscaping, rocks/boulders, fencing, walls and/or signage.

4.5.7 Grading/Land Development

Manufactured slopes associated with site Development shall not extend into adjacent land in a Conservation Area.

4.6 Impact and Anticipated Levels of Take and Habitat Loss

This section summarizes anticipated Take levels. The information is necessary to assess the Plan's impacts on the Covered Species and the conserved natural communities and to delineate the extent of Take authorized under the permits. A full discussion of the Plan's effects on the Covered Species and conserved natural communities is found in the EIR/EIS accompanying the Plan.

In the Plan, anticipated Take for Listed Species (animal species) for which Habitat distribution models have been developed is measured in terms of Habitat acres affected by the Covered Activities both outside and within the Conservation Areas. For purposes of this calculation, it is assumed that all non-federal lands outside the Conservation Areas may be subject to Take. This represents a worst-case scenario, and Take or Habitat loss at that level is not likely to occur within the 75-year term of the Take Permits. The acres of Take or Habitat loss were determined by overlaying Habitat maps with the Plan Area