

APPENDIX K – MITIGATION, MONITORING, AND REPORTING PROGRAM

Mitigation, Monitoring & Reporting Program-Equestrian Facilities Project

Mitigation Measure	Timing of Action	Reporting Methods & Standards	Monitoring Reporting Party	Completion Date
<p>1. Aesthetics:</p> <ul style="list-style-type: none"> The project shall incorporate a visual buffer around the Descanso Area Development campground, which would include native trees and shrubs, earthen berms, boulders, and rustic style ranch fencing. DPR would voluntarily comply with San Diego County’s Light Pollution Code Sections 59.105 and 59.106. This includes installation of fully shielded low pressure sodium lights per the Class II requirements. 	<p>Prior to construction and during operation</p> <p>Prior to construction and during operation</p>	<p>Review of plans prior to bid</p> <p>Review of plans prior to bid</p>	<p>Project Manager and District Maintenance Chief</p> <p>Project Manager and District Maintenance Chief</p>	
<p>2. Biological Resources:</p> <ul style="list-style-type: none"> <i>Noise:</i> At all project locations, DPR shall control noise sources during construction and through installation of noise barriers, if deemed necessary by the bio-monitor. <i>Wildlife:</i> Routes of escape from excavated pits and trenches shall be maintained for animals that might get trapped in these areas. Post holes and other narrow pits and trenches shall be covered with boards. During construction, these areas will be checked daily by the bio-monitor to ensure that trapped animals are released unharmed. <i>Migratory Birds and Raptors:</i> Trees or structures containing unoccupied nests (stick nests or tree cavities) shall be removed prior to 15 February 1 January or after 15 September. Also, unoccupied nests shall be removed where they occur in trees that are not to be removed, but that are within areas expected to be subjected to disturbance during the breeding season. Should construction activities take place during the breeding season (1 January 15 February to 15 September); a qualified biologist shall conduct a preconstruction survey no more than one week prior to construction. If it is determined that construction would affect an active nest or disrupt reproductive behavior, then avoidance strategies shall be implemented. No 	<p>Prior to and during construction</p> <p>Prior to and during construction</p> <p>Prior to and during construction</p>	<p>Monitoring Report / Record for the CEQA file</p> <p>Monitoring Report / Record for the CEQA file</p> <p>Monitoring Report / Record for the CEQA file</p>	<p>Project Manager and DPR Environmental Scientist</p> <p>Project Manager and DPR Environmental Scientist</p> <p>Project Manager and DPR Environmental Scientist</p>	

<p>construction could occur within 500 feet of an active nest, until a qualified biologist determines that the subject birds are no longer nesting or until any juvenile birds are no longer using the nest as their primary day and night roost. These measures should apply to all species of birds that are afforded protection from take, as defined by the federal Migratory Bird Treaty Act.</p> <ul style="list-style-type: none"> All permanent impacts to sensitive vegetation communities will be mitigated using the accepted replacement-to-impact ratios: montane-hardwood conifer forest (2:1) and nonnative grassland (0.5:1). The replacement ratios (using rooted plants in liners or direct planting of acorns) for oak trees that are removed will be as follows: <ul style="list-style-type: none"> -trees less than 5 inches diameter at breast height (DBH) should be replaced at 3:1; -trees between 5 and 12 inches DBH should be replaced at 5:1; -trees between 12 and 36 inches DBH should be replaced at 10:1; -trees greater than 36 inches DBH should be replaced at 20:1. <p>The replacement ratio for damaged oak trees less than 12 inches DBH will be 2:1, and greater than 12 inches DBH will be 5:1. All other oaks will be fenced off and tagged to prevent equipment from operating in their drip line. Oak replanting efforts will utilize locally collected acorns or saplings grown from collected acorns. When possible, appropriate understory species will also be included to enhance structural diversity of the mitigation site. The site will be monitored and managed for a minimum of 10 years to ensure success of the restoration effort.</p> Grading and other ground disturbance activities in the Descanso Area Development shall be timed to avoid the overwintering season of the arroyo toad (generally September 	<p>Post-construction</p> <p>Post-construction</p> <p>Prior to and during construction</p>	<p>Monitoring Report / Record for the CEQA file</p> <p>Monitoring Report / Record for the CEQA file</p> <p>Preview of plans prior to bid; monitoring report</p>	<p>DPR Environmental Scientist</p> <p>DPR Environmental Scientist</p> <p>Project Manager and DPR Environmental Scientist</p>	
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<p>through March).</p> <ul style="list-style-type: none"> • A qualified biologist will be available to inspect all excavations before refilling occurs, ensuring that any trapped special-status species are passively relocated to avoid incidental take. • Off-trail horse riding, biking, and hiking will continue to be discouraged; public access to the Sweetwater River reaches and associated uplands identified as suitable arroyo toad breeding habitat will be restricted. Unobtrusive informational signs will be installed to make the public aware of the restrictions and justifications. The signs, shall be designed so that they do not provide perches from which corvids search out and prey on arroyo toads. These displays shall provide information regarding the ramifications of disturbing, collecting, or killing protected species. Outreach shall also involve working with Park Rangers that patrol areas with known arroyo toad populations. • A protocol will be developed that includes maps delineating safe zones (outside of arroyo toad breeding and upland habitat) within which heavy machinery can be brought on site and operated when fire conditions or post-fire management actions (e.g., creation of roads for firefighting, dead tree removal) require them. Arroyo toads would be at greatest risk of being crushed in the riparian zone between the start of the first warm rains of winter through late summer (roughly January through September), and in upland habitat during the fall and early winter (September through December). • A barrier (large logs) shall be placed along the southern and western edge of the Descanso Area Development to direct arroyo toad around the new campground. 	<p>Prior to and during construction</p>	<p>Monitoring Report / Record for the CEQA file</p>	<p>DPR Environmental Scientist</p>	
	<p>Prior to and post-construction</p>	<p>Review of plans prior to bid</p>	<p>District Maintenance Chief and Park Rangers; DPR Environmental Scientist</p>	
	<p>Prior to and during construction</p>	<p>Review of plans prior to bid</p>	<p>DPR Environmental Scientist</p>	
	<p>Post-construction</p>	<p>Review of plans prior to bid</p>	<p>DPR Environmental Scientist and District Maintenance Chief</p>	
<p>3. Cultural Resources / Archeology</p>				
<ul style="list-style-type: none"> • During previous consultation with Native American representatives, Native American monitoring was requested 	<p>Prior to and during</p>	<p>Monitoring Report / Record for the CEQA</p>	<p>Project Manager & DPR Archeologist</p>	

<p>within the Descanso Area Development site. A DPR-approved cultural resource specialist will coordinate with a Native American monitor for work within the Descanso Area Development site. For other locations, additional consultation will determine if Native American monitoring is needed.</p> <ul style="list-style-type: none"> To protect cultural resources in the vicinity of the Descanso Area Development, fencing shall be placed along the campground’s perimeter trail. Signage shall also be placed to dissuade visitors from going off-trail into those areas with the most sensitive resources. Rangers and other Park personnel shall be informed of the presence and extent of the archaeological sites and features within this portion of the Park. Site CA-SDI-8855 shall be included within Colorado Desert District’s site stewardship program, so that it is visited and evaluated for archaeological resources and condition on a regular basis. An archaeological site condition assessment record or other such condition report shall be filled out for the site, and updated every few years, or as the level or threat of impact or damage warrants. In the event that previously unknown cultural resources (including but not limited to dark soil containing shellfish, bone, flaked stone, groundstone, or deposits of historic trash) are encountered during construction related activities by anyone, the site manager will put work on hold at that specific location and personnel will be redirected to other tasks. A DPR-approved cultural resources specialist will record and evaluate the finds and work with site manager to implement avoidance, preservation, or recovery measures as appropriate prior to any work resuming at that specific location. 	<p>construction</p> <p>Prior to and during construction</p> <p>Post-construction and Operation</p> <p>Post-construction and Operation</p> <p>During construction</p>	<p>file</p> <p>Review of plans prior to bid</p> <p>Monitoring Report / Record for the CEQA file</p> <p>Archeological Site Condition Record kept on file at District Headquarters and the Southern Service Center</p> <p>Monitoring Report / Record for the CEQA file</p>	<p>DPR Archeologist</p> <p>DPR Archeologist</p> <p>DPR Archeologist</p> <p>DPR Archeologist</p>	
<p>4. Cultural Resources / Historical</p>				
<ul style="list-style-type: none"> The proposed landscape elements shall complement the site 	<p>Pre-construction</p>	<p>Review of plans prior to bid</p>	<p>Project Manager</p>	

<p>and blend in with the surrounding area.</p> <ul style="list-style-type: none"> DPR will: 1) preserve identified historic-era buildings, structures, and landscape improvements in place; 2) design new improvements that complement but not mimic these features in scale and materials; 3) have a qualified archaeological monitor will be on site during any excavation work. 	<p>All phases including operations</p>	<p>Review of plans prior to bid and Monitoring Report / Record for the CEQA file</p>	<p>Project Manager and DPR Archeologist</p>	
<p>5. Hydrology / Water Quality</p>				
<ul style="list-style-type: none"> Paso Picacho Day Use Area: The 10-year storm design will segregate the clean mountain side stormwater runoff from the parking lot runoff. Descanso Area Development: Any structure that cannot withstand flooding will be built with a pad elevation higher than 3,404 feet or be elevated such that the sheet flow from runoff will not impact the area. Descanso Area Development: A detention basin will provide treatment for stormwater runoff coming from parking lots, streets and roads, and horse facilities. A portion of the stormwater will be treated by roadside vegetated swales and vegetated buffer strips. Green Valley Campground Loop A and Descanso Area Development: Campers will be informed that they must clean the corrals daily and place the horse manure in one of the on-site manure trailers. Corrals will be designed to slope away from any adjacent waterway and both the corrals and the trailer(s) will be located away from any waterways to prevent manure entering these areas. Trailer(s) will be emptied 2-3 times each week, depending on visitor use. No horse waste shall be dumped on the edge of, or directly into waterways. The wash area shall be elevated above the surrounding ground. All wash water shall be drained away from the wash area to a filter strip or other vegetated area. Water from horse wash 	<p>Prior to construction</p>	<p>Review of plans prior to bid</p>	<p>Project Manager</p>	
	<p>Prior to construction</p>	<p>Review of plans prior to bid</p>	<p>Project Manager</p>	
	<p>Prior to construction</p>	<p>Review of plans prior to bid</p>	<p>Project Manager</p>	
	<p>Prior to construction and operations</p>	<p>Review of plans prior to bid ; Rules & Regulations Posted at the Campgrounds</p>	<p>Project Manager and District Maintenance Chief</p>	

<p>areas shall not be allowed to flow into storm drains, creeks, ponds or seasonal drainages. A shut-off nozzle or low-flow nozzle shall be used at the end of all hoses. Signage shall be placed encouraging the proper use of horse grooming and health products, recommending using plain water to rinse horses and to avoid using soap as much as possible. Horse access and human activities around the horse facilities shall be prohibited in drainages, swales, creeks, creek banks, meadows, and steep hillsides.</p> <ul style="list-style-type: none"> • Paso Picacho Day Use Area: A Storm Water Pollution Prevention Plan (SWPPP) shall be developed prior to construction. It will incorporate details of pre-construction BMPs and construction BMPs. Site Design BMPs, Source Control BMPs, and Treatment Control BMPs will also be implemented to the maximum extent practicable based on the pollutants of concern, receiving water bodies, and proposed development. • Roof runoff shall be directed away from high-use, bare, un-vegetated areas and manure storage areas. New buildings and confinement areas shall be located away from drainages. Wash stations and manure storage areas shall be separated from any waterways with buffer strips of vegetation to filter sediments and absorb nutrients in runoff. Potential runoff from water troughs shall be controlled with automatic waterers or other means. Clean water shall be diverted around areas with pollutants by building berms, ditches, underground pipelines or other methods. • Construction activities, particularly those resulting in substantial soil disturbance, shall be scheduled during periods of low precipitation and low groundwater, when feasible, to reduce the risk of accidental hydrocarbon leaks or spills reaching surface and/or groundwater, to reduce the potential for soil contamination, and to minimize erosion of loose 	<p>Prior to and during construction</p> <p>Prior to and during construction</p> <p>Prior to and post-construction</p>	<p>SWPPP Review of plans prior to bid</p> <p>SWPPP Review of plans prior to bid</p> <p>Review of plans prior to bid</p>	<p>Project Manager, Construction Manager, and DPR Environmental Scientist</p> <p>Project Manager, Construction Manager, and DPR Environmental Scientist</p> <p>Project Manager, Construction Manager, and DPR Environmental Scientist</p>	
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<p>materials in construction areas. Volatile wastes and oils shall be disposed of in approved containers for removal from construction sites to avoid contamination of soils, drainages, and watercourses. Equipment shall be inspected for hydraulic and oil leaks prior to use on construction sites, and inspection schedules shall be implemented to prevent contamination of soil and water. When using heavy equipment, absorbent pads, booms, and other materials shall be kept on site, so as to contain oil, hydraulic fluid, and solvents.</p>				
<p>6. Hydrology / Erosion</p>				
<ul style="list-style-type: none"> Disturbed areas shall be revegetated as appropriate to minimize erosion. Native shrubs, grasses, and other groundcover shall also be planted along and within the drainages to reduce erosion. To the extent feasible, bridges shall be constructed and/or culverts installed when there is no water in the watercourses. Ditches shall be kept vegetated with native grass to help maintain stability and shall be cleared of sediments. Vegetated ditches with a gentle slope of 2 to 6 percent will slow the velocity of the stormwater and allow sediment to drop-out of the system. For chronic sediment problems, the erosion source shall be addressed. 	<p>Prior to and post-construction and operation</p>	<p>Review of plans prior to bid</p>	<p>Project Manager , Construction Manager, and DPR Environmental Scientist</p>	
<p>7. Noise / Construction</p>				
<ul style="list-style-type: none"> Work hours within 0.25 mile of sensitive noise receptors shall not begin before 7 AM and shall end by 7 PM, Monday-Friday; there shall be no work on Saturdays, Sundays or State holidays. Access by large, noisy equipment to the work site shall also be limited to these days and times. All equipment shall have sound-control devices that are no less effective than those provided on the original equipment including a muffled exhaust. As directed by DPR, the contractor shall implement standard noise abatement measures, such as developing a construction schedule that minimizes impacts to adjacent noise-sensitive receptors; using best-available noise control techniques wherever feasible; using 	<p>Prior to and during construction</p> <p>Prior to and during construction</p>	<p>Review of plans prior to bid</p> <p>Review of plans prior to bid</p>		

<p>hydraulically or electrically powered impact tools when feasible; locating stationary noise sources as far from sensitive uses as possible; erecting temporary noise barriers; turning off idling equipment; rescheduling construction activity; and notifying adjacent residents in advance of construction work.</p> <ul style="list-style-type: none"> Both campgrounds will have posted “Quiet Hours”, which is usually from 10 pm to 7am to ensure that noise levels are kept to a minimum at night. 	<p>Operation</p>	<p>Rules & Regulations Posted at the Campgrounds</p>	<p>Camp Host and Park Rangers</p>	
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