County of San Diego Department of Parks and Recreation Targeted Monitoring Plan

2018 Monitoring Results

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Location of Preserves in the TMP





2018 Monitoring Efforts

- Tri-colored Blackbird
- Arroyo Toad
- Burrowing Owl
- Stephens' Kangaroo Rat

- San Diego Cactus
 Wren
- Vernal Pool/Alkali
 Playa Habitat
- Rare Plant Species



Tri-Colored Blackbird Monitoring

- In 2017 a flock of 200-300 tri-colored blackbirds was observed near the northern RMWD pond and included adult males and females as well as fledglings
- In 2018 no nesting or foraging tri-colored blackbirds were observed during focused surveys, nor incidentally during other monitoring surveys





Arroyo Toad Monitoring

- USGS established monitoring reaches for arroyo toad along Santa Maria Creek in Ramona Grasslands Preserve
- Habitat assessment performed to document current conditions
- Any ponded areas were inspected for presence of arroyo toad tadpoles or eggs and presence of invasive non-native animals or plants



Arroyo Toad Monitoring Results

- Santa Maria Creek channel and surrounding upland habitat appears to be stable and provides adequate cover for all life stages of ARTO
- During site visits portions of the creek were flowing or ponded and occupied by ARTO tadpoles – between Reaches 24-25, 27-28 and within all Reaches 29-34











Threats to Arroyo Toad

- Bullfrog, mosquitofish, crayfish, and catfish
- Small patches of saltcedar and giant reed
- Azolla observed in areas inhabited by arroyo toad





Burrowing Owl Monitoring



Adaptive Management Recommendations for Burrowing Owl



Stephens' Kangaroo Rat Monitoring

- Habitat assessment of the 28 plots established during the 2016 SKR monitoring effort
- Kangaroo rat sign (burrows, tracks, dust bathing sites, scat and runways)
- Percent cover of open ground and vegetation







Stephens' Kangaroo Rat Monitoring Results

- Sample plot conditions appeared similar in the winter of 2017-2018 season to the conditions reported in 2016
- Even with active grazing much of the lowland grasslands exhibited a lack of bare ground and/or high obstruction factors
- Obstructions consisted of a thick litter layer comprised mainly of Erodium

















Cactus Wren Monitoring

- Avian point count stations established
- Cactus restoration areas and other large cactus inspected for presence of cactus wren nests
- Photo-monitoring was conducted at photo-points established within each cactus restoration area in 2011
- Threats assessment















Cactus Wren Monitoring

- Cactus wren observed foraging on Preserve
- No cactus wren nests observed on-site
- Photo monitoring determined northern and southern cactus restoration areas are in good condition
- Native and non-native plants growing among cactus patches potentially creating ladders for predators to access potential nesting sites









Qualitative Monitoring of Vernal Pools

- Inspections for water quality, edge effects, invasive non-native plant species, topographic disturbance, vernal pool indicator plant species, and target sensitive plant and animal species
- Photographs were taken at the permanent photopoints established at each pool in 2016





Qualitative Monitoring Results

- Woolly marbles, flowering quill wort, hairy clover, water pygmyweed, and prairie plantain
- Southern tarplant and graceful tarplant were observed in the surveyed pools
- Invasive non-native plants also observed
 - red-beaked filaree, wild barley, perennial ryegrass, grass poly, and brass buttons





Rare Plant Species Monitored in 2018

- San Diego thornmint
- San Miguel savory
- Variegated dudleya
- Willowy monardella



2018 Rare Plant Species Monitoring

15 sensitive plant monitoring plots were monitored within the TMP Preserves in 2018

- Ten monitoring plots for San Diego thornmint within Sycamore Canyon/Goodan Ranch Preserve
- Two monitoring plots for San Miguel savory within Boulder Oaks Preserve
- One monitoring plot for variegated dudleya within Lusardi Creek Preserve
- One monitoring plot for variegated dudleya within Sycamore Canyon/Goodan Ranch Preserve
- One monitoring plot for willowy monardella within Sycamore Canyon/Goodan Ranch Preserve











San Diego thornmint

- Within the plots a total of 5,525 plants were detected
- Overall the habitat of San Diego thornmint is under heavy invasion from purple false brome and other non-native grasses







San Miguel Savory

- A total of 75 plants were detected within the 2 monitoring plots at Boulder Oaks Preserve
- Population of San Miguel savory appears stable and to be doing well
- Weed cover was extremely low in the monitoring plots and no immediate threats were detected

















Variegated Dudleya

- Two plots were monitored, one at Lusardi Creek Preserve and one at Sycamore Canyon/Goodan Ranch Preserve
- 140 variegated dudleya plants were detected in the plot at Lusardi Creek Preserve- all flowering
- 63 variegated dudleya plants were detected in the plot at Sycamore Canyon/Goodan Ranch Preserve
- Treatment of purple false brome at Lusardi Creek Preserve occurred during 2018 monitoring season











Dole & Time, Thu Jun 2003/6257 FtT 2017 Peatters 11 P. 454500 062201 Admetes 0231 Dolema 2005-20 Admete Reset up 000° P0081 18-90ado (Peas Reset on Scotta - 4545° Platters Angla - 4545°

ECELIZAT

2017 Lusardi Creek Preserve

2018 Lusardi Creek Preserve







2017 Sycamore/Goodan

2018 Sycamore/ Goodan



Willowy Monardella

- 63 willowy monardella plants were detected within the plots at Sycamore Canyon/Goodan Ranch Preserve— almost all in fruiting stage
- The population of willowy monardella appears to be doing well with minor weed management required

















2019 Monitoring

- San Diego thornmint
- San Miguel savory
- Variegated dudleya
- Willowy monardella
- Encinitas baccharis

- Arroyo toad
- Tri-colored blackbird
- Burrowing owl
- Cactus Wren
- Vernal Pool/Alkali Playa











Thank You

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