



MSCP Management Actions Report

JANUARY 1, 2017 — DECEMBER 31, 2017





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Introduction

The **MULTIPLE SPECIES CONSERVATION PROGRAM (MSCP)** can only be successful through informed management of conserved lands. Management in support of the City of San Diego's (City) MSCP Subarea Plan is performed by the City's Park and Recreation, Public Utilities, and Environmental Services Departments. The City often partners with other public agencies, schools, environmental consultants, and non-profit groups to complete management tasks.

This report provides a summary of the management projects undertaken on conserved City-owned lands in 2017 including mitigation, habitat enhancement and restoration, invasive species removal, access control, trash and debris removal, enforcement, abatement of homeless encampments, and volunteer events. Environmental education is also a vital part of our natural resource stewardship and is included as management because positive experiences in nature encourage the local communities to protect and care for their local natural parks.

Park Rangers, Pesticide Applicators, Ground Maintenance Managers and Workers, Biologists, Planners and Nature Center Directors work together and are dedicated to management of the City's Open Space Parks and Preserves. Those staff not only protect the native species and habitats that occur within each Park, but also provide educational opportunities for Park visitors. Thousands of people visit our two nature centers each year and hundreds of children participate in environmental education through partnerships with local schools, nature programs, guided walks, and interpretive signs and kiosks.

We thank you for your interest in San Diego's conserved lands, and invite you to take a look at the projects that we worked on in 2017. And please take a moment to review our incredible list of partners on the last page!



City of San Diego Park Rangers work to protect native species and habitats that occur within each Park, but also provide educational opportunities for Park visitors.



Management Actions: At-A-Glance

Education

- ◆ Over 102,000 people visited Mission Trails Visitor Center and Tecolote Nature Center.
- ◆ At Mission Trails Regional Park alone, 5,006 adults and 3,897 children participated in Ranger-led walks and hikes. Additionally, 5,802 students participated in curriculum based school programs at Mission Trails.
- ◆ 13 schools from preschools to universities took field trips to visit Open Space parks and preserves.
- ◆ The annual Explore Mission Trails Day event was attended by approximately 1,500 participants.

Enforcement

- ◆ A SANDAG grant was awarded to the City to fund San Diego Policer Officer overtime to perform joint patrols alongside Park Rangers in City Open Space Preserves.
- ◆ Through this program, over 50 patrols were conducted with police officers. During these patrols a total of 95 field interviews were conducted, 16 citations issued, and 8 individuals with outstanding warrants were arrested.
- ◆ A SANDAG EMP grant funded the installation of over 6,000 feet of fencing in Otay Mesa Open Space to stop illegal off-road traffic and protect sensitive habitat.

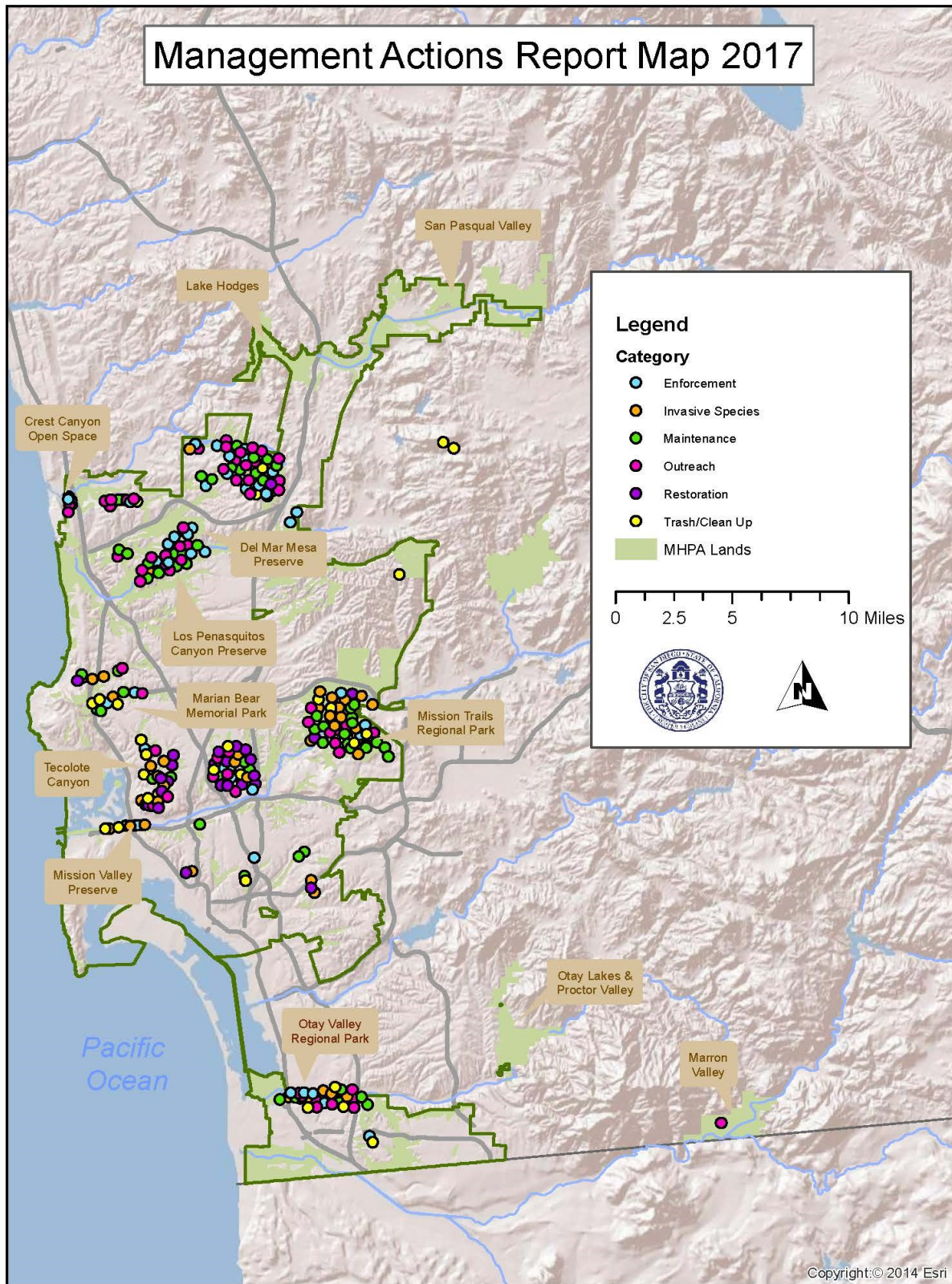
Invasive Weed Management

- ◆ City Pesticide Applicators treated invasive weed species at an average of 11 preserves per month
- ◆ Park Rangers, volunteer weed groups, and crews completed over 45 additional treatments targeting over 22 nonnative species.
- ◆ City pesticide applicators treated nine locations with MSCP-covered San Diego thornmint for invasive purple false brome using the Conservation Biology Institute protocol
- ◆ Performed annual mowing treatments to control nonnative grasses at the San Diego ambrosia site at Kumeyaay Lake.

Habitat Restoration & Beautification

- ◆ Over 3,600 native plants installed to protect and restore habitat adjacent to trails.
- ◆ Closed/reclosed a total of 82 unauthorized trails for restoration and wildlife corridor area.
- ◆ Over 6,400 volunteers dedicated over 34,400 hours to cleanup, restoration, and park beautification activities.
- ◆ Over 900 tires removed from Ocean View Hills Open Space.
- ◆ The San Diego River Park Foundation removed over 148 tons of trash from the San Diego River alone.

Management Actions: Map



Black Mountain **Open Space Park**

Park Management Highlights

- ◆ Presented “Tour For All People”, the first wheelchair accessible interpretive program on the Jas Arnold Trail For All People. This monthly interpretive walk highlights the ethnobotany, geology, and wildlife found in Black Mountain Open Space Park.
- ◆ Worked with the American Conservation Experience crew on trail rehabilitation projects at Crest Canyon, Gonzales Canyon, Black Mountain, and Clevenger Canyon.
- ◆ Presented Solar Eclipse Walk at Hilltop Park, attended by more than 200 people.

BLACK MOUNTAIN PARK is located west of I-15 and harbors habitat for California gnatcatcher as well as several other sensitive species. Black Mountain also provides a natural experience for nearby residents with trails, viewpoints, and interpretive information.

Stewardship Management Actions and Outreach

- Performed park-wide patrols to monitor trail conditions, conduct enforcement activities, and perform general maintenance (i.e. trash removal, fence and sign repairs, brush clearing, etc.)—Weekly
- Conducted regular maintenance of trail systems, park-wide—Monthly
- Led “Tour For All People”, the first wheelchair accessible interpretive program on the Jas Arnold Trail For All People. This interpretive walk highlights the ethnobotany, geology, and wildlife found in Black Mountain Open Space Park—Monthly
- Led interpretive walks and other outreach events through the “Ranger Adventure Hike” Program including monthly “Full Moon Hikes” at Black Mountain—Monthly
- Presented the “Black Mountain Geology Hike” to Black Mountain Peak. The program was attended by 32 participants—January
- Met with residents of Rancho Peñasquitos on the east side of Black Mountain to address trespassing and illegal activities in open space areas. Rangers installed new signage and replaced old regulation signs and coordinated with SDPD—January
- Responded to complaints from residents in neighborhood north east of Black Mountain regarding off-highway motorcycle being operated in their neighborhood and in open space park. Rangers installed regulation signage and passed on information to SDPD—January
- Repaired a broken sign at Clevenger Canyon North—January
- Rangers continued working with San Diego Mountain Bike Association and other volunteers on Manzanita Loop Trail hosting 2 work events—January
- Rangers discovered that a storm had damaged trees, fences, a water main, and bathroom area at Torrey Highlands Park. Rangers helped to secure the park, close down potentially hazardous



The Jas Arnold Trail for All People at Black Mountain Open Space Park.

areas, and arrange for crews to repair damage—January

- Installed new signage indicating the temporary closure of the Miner’s Ridge Loop trail at Black Mountain due to Arsenic contamination—January
- Removed trash, wood and other items from “party spot” near Torrey Highlands Park—February
- Coordinated the Mount Woodson Cleanup Event with representatives from Mesa Rim Climbing Center, Allied Climbers of San Diego, and the San Diego Chapter of the American Alpine Club. 73 volunteers worked to remove a substantial amount of graffiti and trash from rocks and trails on the mountain—February
- Black Mountain Rangers continued working with the ACE crew on trail rehabilitation projects at Crest Canyon, Gonzales Canyon, Black Mountain, and Clevenger Canyon—February through April
- Worked with Alpha Project to clear severely overgrown vegetation from the trail at Clevenger North making it accessible after heavy storms—March
- Ranger responded to severe vehicle accident on Highway 78 involving a trailer carrying heavy machinery. Secured the scene and provided traffic control until emergency personnel arrived—March
- Redesigned and processed brochures for Black Mountain Park with an updated map of new trails as well as new content including a section on the unique geology found in the park—March
- Rangers used mower deck on Kubota to clear overgrown vegetation along Lusardi Loop trail, Lazanja, and Glider Port—March
- Ranger presented the “Lusardi Canyon Flower Safari.” More than 20 participants attended the 3 mile interpretive hike—April
- Coordinated volunteer cleanup event at Black Mountain Open Space Park and Hilltop Community Park for an Israel Scouts troop. The scouts participated in the event as part of their annual “Good Deed Day.” They picked up a substantial amount of trash from the community park and



A beautiful sunset view from Black Mountain.



Ranger led monthly Full Moon hikes at Black Mountain.

surrounding trails, and also painted a park kiosk that had been vandalized—April

- Black Mountain Park Ranger represented the City of San Diego and Open Space Parks at the “Healthy Kids Day” event at the McGrath Family YMCA in East County. The Ranger staffed a very popular booth, gave out maps and info on city-wide open space parks and presented an interpretive program on snakes—April
- Coordinated with Alpha Project crew to brush-cut overgrown vegetation at two Lazanja Canyon locations, Miner’s Ridge Loop trailhead, Sundevil Way, Nighthawk trail, and the Black Mountain Service Road—April
- Used Kubota and Sweco tractors to grade parts of the Lusardi Loop trail in need of repair, as well as build a diversion along a section of the trail where a sinkhole had opened up—April
- Used Kubota tractor to move boulders to block entrances into small section of open space area between Newmont Dr. and Meadowrun St. where illegal mulch dumping has occurred—May
- Performed extensive trail maintenance throughout the parks due to storm damage, and above average growth rates in vegetation—May through June
- Broke down part of illegal bike track that had been re-built after initial dismantlement. Posted signs at both ends of illegal track indicating to stay out—May
- Rangers increased monitoring of illegal bike track that runs into Lusardi from unofficial trail. Maintained signs at both ends of illegal track indicating to stay out—June through December
- Ranger contacted youngsters beginning construction of another illegal bike trail connecting private communities through open space property near Lazanja Canyon. Spoke with parents and gained compliance—June
- Worked with Allied Climbers to remove graffiti from large boulders on the southern face of Mt. Woodson—June
- Worked with volunteers and the Alpha Project to remove invasive Tamarisk from Lusardi Creek—June
- Rangers conducted joint patrols with SDPD officers through open space areas of Black Mountain Ranger District and surrounding areas—July
- Rangers oversaw a 50k Trail Race and provided emergency medical support—July
- The Black Mountain Open Space Park Junior Ranger Activity Journal was created as part of a new citywide program implemented by the Interpretive Committee—July
- Assisted Department of Fish & Wildlife Biologists to assess the habitat condition of a city owned



Park Ranger teaches participants about coastal sage scrub plant communities during a guided nature hike at Black Mountain.

parcel—July

- Presented Solar Eclipse Walk at Hilltop Park, attended by more than 200 people—August
- Black Mountain Rangers presented interpretive programs for children at McGrath Family YMCA on two separate days. Programs focused on safety, wildlife, and the duties of Park Rangers—August
- Rangers participated in National Night Out, an annual community building campaign that promotes law enforcement – community partnerships and neighborhood camaraderie—August
- Black Mountain Rangers participated in the Annual MSCP workshop and provided information on park areas, conservation, native vegetation, and local wildlife—August
- Worked with boy scouts to plan Eagle Scout projects that include new signs, benches, kiosks, and other additions to park areas—August
- Removed illegally dumped materials at Clevenger Canyon trailheads—August
- Installed trail counters at two access points to monitor visitation at Mount Woodson —October
- Black Mountain hosted a 10K and half marathon foot race as well as a portion of a 50 mile bike ride —October
- An updated Black Mountain Fire Gate map was prepared and submitted to San Diego Fire Department—October
- Worked with Boy Scout troop on trail trimming project at Black Mountain. Approximately 1 ½ miles of the Little Black Loop were trimmed—November
- Rangers worked with Sweco to fill in rutted-out parts of service road above black widow approach on Black Mountain—November
- Investigated encroachment onto City property in Darkwood Canyon—December
- Met with Cub Scout leader in Santa Luz area to walk area trails and discuss possible ongoing scout trail maintenance project—December



Park Ranger and volunteers demonstrate safe ways to view the solar eclipse at Black Mountain.

Management Actions Related to MSCP Covered Species

- Rangers assisted biologists with maintaining and monitoring remote wildlife cameras at Black Mountain, Lusardi Canyon, Lazanja Canyon, and McGonigle Canyon to monitor wildlife absence / presence for the Lusardi NRMP—Yearlong
- Pesticide Applicators performed herbicide treatments to manage nonnative grasses and forbs at the San Diego thornmint site using the weed control protocol developed by Conservation Biology Institute—March
- Biologists performed monitoring of rare plant occurrences of San Diego thornmint, Threadleaf brodiaea, and Variegated dudleya using the SDMMP IMG protocol—April through June



Remote wildlife cameras installed at Black Mountain, Lusardi Canyon, Lazanja Canyon, and McGonigle Canyon show presence of black-tailed jackrabbit, bobcat, coyote and mule deer.

Crest Canyon & Gonzales Canyon

Open Space

Park Management Highlights

- ◆ Hosted a “Creek to Bay Cleanup” volunteer event at Crest Canyon and Gonzales Canyon.
- ◆ Assisted Restoration Ecologists with habitat restoration project at Crest Canyon by supplying labor and equipment to fill the 500 gallon water reservoir on site.
- ◆ Presented “Crest Canyon Nature Exploration” with focus on rare native flora and fauna, unique plant communities, and habitat restoration.

CREST CANYON and **GONZALES CANYON** are located in coastal North County and are home to numerous sensitive species. Crest Canyon connects to the San Dieguito Lagoon and offers trails through native scrub habitat dotted with the rare Torrey pine.

Stewardship Management Actions and Outreach

- Performed park-wide patrols to monitor trail conditions, conduct enforcement activities, and perform general maintenance (i.e. trash removal, fence and sign repairs, brush clearing, etc.)—Weekly
- Conducted regular maintenance of trail systems, park-wide—Monthly
- Conducted trail repair and built up diversions at Crest Canyon to allow rainwater to flow off the trail to lessen the impact from erosion during rain events—January
- Installed a new sign in Senterra community near Gonzales Canyon per request by HOA President after residents complained about off-highway vehicles entering the open space park—January
- Rangers surveyed trail conditions and storm damage in Gonzales Canyon in preparation for maintenance work crews—February
- Presented the “Gonzales Canyon Flower Walk” at Gonzales Canyon with more than 30 participants—March
- Rangers had second meeting with Equestrian Coalition, City Council Liaison, SDPD and San Dieguito River Valley Conservancy to discuss crosswalk and other issues at Old El Camino entrance to Gonzales Canyon—March



City of San Diego Open Space Management Interns lead an interpretive hike at Torrey Pines Loop Trail in Gonzalez Canyon.



Park Ranger teaches about ethnobotany on a guided nature hike in Gonzales Canyon.

- Black Mountain Rangers continued working with the ACE crew on trail rehabilitation projects at Crest Canyon, Gonzales Canyon, Black Mountain, and Clevenger Canyon—February
- Rangers worked with Alpha Project to conduct trail maintenance and repairs at Crest Canyon—March
- Hosted a “Creek to Bay Cleanup” volunteer event at Crest Canyon and Gonzales Canyon—April
- Assisted Restoration Ecologists with habitat restoration project at Crest Canyon by supplying labor and equipment to fill the 500 gallon water reservoir on site—May through August
- Presented “Gonzales Canyon Nature Walk” with focus on native plants and ethnobotany. Attended by 23 hikers—July
- Presented “Crest Canyon Nature Exploration” with focus on rare native flora and fauna, unique plant communities, and habitat restoration—August
- Ranger met with member of Equestrian Coalition to address trail issues in Gonzales Canyon—October
- Presented the Torrey Pines Loop Trail Hike in Gonzales Canyon with focus on ethnobotany—October
- Led an interpretive hike in Gonzales Canyon in Collaboration with San Diego Canyonlands and the San Diego River Park Conservancy for REI’s Opt Outside program—November
- Ranger helped co-lead a guided nature walk in Crest Canyon organized by San Diego Canyonlands—November
- Rangers responded to report of Torrey pine tree being cut down at Crest Canyon—December

Management Actions Related to MSCP Covered Species

- Biologists performed monitoring of rare plant occurrences of Short-leaved dudleya and Coast wallflower using the SDMMP IMG protocol—April



Park Ranger teaches about sensitive plant species such as short-leaved dudleya while leading a nature walk.



Short-leaved dudleya at Crest Canyon.

Los Peñasquitos Canyon

Preserve

Park Management Highlights

- ◆ Los Peñasquitos Park Rangers hosted the 2017 MSCP Workshop event at Ocean Air Recreation Center and lead interpretive walks on surrounding trails.
- ◆ Ranger and volunteers worked together to remove several Mexican fan palms and Canary Island palms from Peñasquitos Creek.
- ◆ Friends of Peñasquitos Canyon volunteers performed hand weeding to remove invasive grasses from around patches of Willowy monardella at Lopez Canyon.

LOS PEÑASQUITOS CANYON PRESERVE is an urban natural resource based park that functions as an east-west wildlife corridor through the heart of San Diego. This area is visited frequently by recreationalists and makes nature accessible to local residents. Citizen interest in the preserve led to the development of the well-known Friends of Los Peñasquitos Preserve and the San Diego Tracking Team.

Stewardship Management Actions and Outreach

- Performed park-wide patrols to monitor trail conditions, conduct enforcement activities, and perform general maintenance (i.e. trash removal, fence and sign repairs, brush clearing, etc.)—Weekly
- Conducted regular maintenance of trail systems, park-wide—Monthly
- Led interpretive walks and other outreach events —Monthly
- Performed extensive trail repairs after rain and prepared areas for potential flooding from predicted storms. Trails remained closed for month of January and most of February because trails were flooded and/or saturated to the point of being unsafe—January through April
- Rangers assisted with inspection of El Cuervo Adobe Ruin damage with Public Works and consultants—March
- Performed brush maintenance and trimming along trails—May
- Coordinated with San Diego Mountain Bike Association to host a pit stop for Bike To Work Day. This was the only trail pit stop in San Diego, with over 100 visits—May
- Rangers conducted joint patrols with San Diego Police Department officers. Once per week up to three officers patrol Los Peñasquitos Canyon Preserve, Del Mar Mesa Open Space and Carmel Mountain Open Space with a Park Ranger to make public contacts and address issues—July through December
- Completed development of Los Peñasquitos Canyon Preserve Junior Ranger Activity Journal as part of new citywide program—August



Volunteers walk across a bridge in Penasquitos Canyon.

- Los Peñasquitos Park Rangers hosted the 2017 MSCP Workshop event at Ocean Air Recreation Center and lead interpretive walks on surrounding trails. Additionally, large interpretive MSCP posters were created for the event—August
- Eagle Scout project was completed in the Overlook Park area of Los Peñasquitos Canyon. A bench was installed and trail work was completed—August
- Responding to a “Get-it-Done” report, Rangers and volunteers cut overgrown plants and brush near Salmon River Road that were hanging over sidewalks—September
- Rangers investigated complaints of transient living at Lopez Ridge Park. Met with Center Director and assisted with the removal of an illegal campsite—September
- Rangers responded to complaints of human waste dumping at a former transient camp on a ridgeline of Lopez Canyon near Sequence Dr. in Mira Mesa. Documented and alerted appropriate parties for hazardous waste removal—September
- Assisted San Diego Location Scout with photographing sites for commercial production activities near the Waterfall and Carson’s Crossing—September
- Ranger responded to complaints of encroachment in neighborhood near Park Valley and Spindrift. Reported incident to City Encroachment Investigator and contacted homeowner—November
- Placed Shot hole borer traps throughout riparian areas of the park to proactively monitor for presence of this invasive tree pest. No invasive shot hole borers had been found in the park to date—November
- Ranger and SDPD officers responded to complaints of possible homeless camp off Montongo Street. Rangers discovered individual camping inside of storm drain pipe, area also had graffiti and some trash. Volunteers assisted rangers in removing graffiti and trash—December
- Responded to complaints of sinkhole and vandalized fences near Creekside Elementary School in Sabre Springs—December



A volunteer checking a sticky trap for the invasive shot hole borer in Peñasquitos Canyon.

Management Actions Related to MSCP Covered Species

- Using the SDMMP IMG protocol, Biologists performed monitoring of rare plant occurrences of San Diego thornmint and Variegated dudleya in Los Peñasquitos Canyon; Willowy monardella in Lopez Canyon; and San Diego Goldenstar, Orcutt's brodiaea, and San Diego mesa mint at Lopez Ridge—April through June
- Pesticide Applicators performed herbicide treatments to manage nonnative grasses and forbs at the San Diego thornmint site using the weed control protocol developed by Conservation Biology Institute—March
- Friends of Penasquitos Canyon volunteers performed hand weeding to remove invasive grasses from around patches of Willowy monardella at Lopez Canyon.



San Diego thornmint at Los Peñasquitos Canyon Preserve.

Del Mar Mesa & Carmel Mountain **Preserves**

Park Management Highlights

- ◆ Rangers conducted joint patrols with San Diego Police Department officers. Once per week up to three officers patrolled Los Peñasquitos Canyon Preserve, Del Mar Mesa Open Space and Carmel Mountain Open Space with a Park Ranger to make public contacts and address issues.
- ◆ Removed several illegal jumps from Carmel Mountain Ranch Open Space.
- ◆ Worked with Chaparral Lands Conservancy on the installation of 2 new interpretive panels in the Carmel Mountain area.

DEL MAR MESA and **CARMEL MOUNTAIN** are MSCP core biological areas north of Los Peñasquitos Preserve. Known for their vernal pool habitat, the areas also support migratory birds and large mammals such as mule deer.

Stewardship Management Actions and Outreach

- Performed park-wide patrols to monitor trail conditions, conduct enforcement activities, and perform general maintenance (i.e. trash removal, fence and sign repairs, brush clearing, etc.)—Weekly
- Conducted regular maintenance of trail systems, park-wide—Monthly
- Led interpretive walks and other outreach events —Monthly
- Resumed Mrs. Lubo’s 4th grade class Carmel Mountain Preserve interpretive program, this was the 9th year after short hiatus—January
- Created diversions to improve trail drainage and prevent water from the mesa flowing down the slope on west end of Carmel Mountain Preserve above Greenbrier Community Association —January
- Replaced post and cable fencing along SDG&E access path—February
- The Carmel Valley Recreational and Equestrian Path was renamed Marvin Gerst Trail (approved by Park & Recreation Board)—February
- Supervised Alpha Project crews conducting trail trimming in Carmel Mountain Preserve—March
- Volunteers performed regular patrols through Del Mar Mesa preserve to remove trash and hand removal of non-native species—April through May



San Diego Police Officers assisted Rangers with patrols of Del Mar Mesa and Carmel Mountain Preserves .



San Diego Police Officers assisted with enforcement of illegal trail closures at Del Mar Mesa.

- Removed several illegal jumps from Carmel Mountain Ranch Open Space—May
- Rangers conducted joint patrols with San Diego Police Department officers. Once per week up to three officers patrolled Los Peñasquitos Canyon Preserve, Del Mar Mesa Open Space and Carmel Mountain Open Space with a Park Ranger to make public contacts and address issues—July through December
- Rangers investigated complaints of “trail trimming” and encroachment in the Del Mar Mesa area—October
- Rangers and SDPD increased regular patrols at Del Mar Mesa in response to reports of illegal “trail trimming” and encroachment—October through December
- Worked with Chaparral Lands Conservancy on the installation of 2 new interpretive panels in the Carmel Mountain area.—December

Management Actions Related to MSCP Covered Species

- Performed trail patrols and inspection of the vernal pools at Del Mar Mesa following storms. Areas were noted to be wet and the vernal pools were full—January and February
- Rangers repaired fences and pulled non-natives to improve habitat for short-leaved dudleya and vernal pools—April
- Monitored rare plant occurrences of short-leaved dudleya at Carmel Mountain Preserve using the SDMMP IMG protocol—April and May



One of three Short-leaved dudleya monitoring sites at Carmel Mountain Preserve.

Mission Trails **Regional Park**

Park Management Highlights

- ◆ Coordinated and managed the 5-Peak Challenge which drew over 1500 participants.
- ◆ Performed ongoing treatment of invasive and nonnative plants covering over 22 different species throughout the park.
- ◆ Performed herbicide treatments to manage nonnative grasses and forbs in areas with San Diego thornmint using the weed control protocol developed by Conservation Biology Institute.
- ◆ Led a Monitoring Wildlife Corridors program for attendees of the annual Urban Wildlife Conference.

MISSION TRAILS REGIONAL PARK is the largest and most well-known open space park in San Diego. The park provides ample space for wildlife, including large mammals, and also harbors a diverse cultural history.

Stewardship Management Actions and Outreach

- Performed park-wide patrols to monitor trail conditions, conduct enforcement activities, and perform general maintenance (i.e. trash removal, fence and sign repairs, brush clearing, graffiti removal, etc.)—Weekly
- Scheduled, coordinated and led a variety of outreach events including curriculum based school programs, self-guided school trips, Foundation programs, Mountain Bike with a Ranger, and Trail Guide walks—Weekly
- Performed ongoing treatment of invasive and nonnative plants covering over 22 different species throughout the park. Utilized herbicide, mechanical and hand pulling methods—Weekly
- Responded to a variety of enforcement and emergency incidents including dogs off-leash, illegally parked vehicles, drug use, injured hikers and/or lost hikers, heat related illness, etc.—Weekly
- Led volunteer trail crews on a variety of trail maintenance projects park-wide. Trail crews installed jute netting, planted native plants, installed timber steps, and weeded invasive species—Weekly
- Rangers led monthly Park Beautification, Habitat Restoration, and Trail Maintenance volunteer crews—Yearlong
- Conducted regular maintenance of trail systems, park-wide—Weekly
- Coordinated and managed the 5-Peak Challenge which drew over 1500 participants— Monthly



A child uses a magnifying glass to take a close look at plants during a Ranger-led school program at Mission Trails Regional Park.



A ranger presents an educational nature hike to local youth.

- Supervised County probation crew on various resource management projects park-wide – Yearlong
- Removed cattails from Kumeyaay Lake—January
- Installed 20 native container plants at West Sycamore—January
- Rangers led resource management projects for 45 volunteers from Outdoor Outreach, 24 scouts, and 10 students from Gompers Elementary—January
- Rangers worked to clear a mudslide caused by winter storms from Father Serra Road—January
- Evicted a chronic rule/regulation offender from the campground—January
- Ranger led a monthly volunteer trail crew restoring section of Kumeyaay Lake Trail East—February
- Pesticide Applicators conducted herbicide treatments to control invasive species at the Kumeyaay Lake San Diego ambrosia site—February
- Performed herbicide treatments to control invasive fountain grass in West Sycamore—February
- Repaired peeler log fence at Kumeyaay Lake Trail—March
- Rangers and Pesticide Applicators performed herbicide applications to control artichoke thistle at West Sycamore—March
- Removed several non-native trees from area north of Kumeyaay Lake—March
- Supervised American Conservation Experience crew on resource management projects throughout April—April
- Herbicide treatments targeting nonnative and invasive species were conducted at West Sycamore, Oak Canyon, Jackson Crossing, and Kumeyaay Lake—April
- Supervised an SD river cleanup volunteer event at Kumeyaay Lake Trail—April
- Supervised an I Love a Clean San Diego volunteer river cleanup event—April



Local youth learn about Old Mission Dam as part of the Kids to Canyons program.

- Coordinated and held the annual Explore Mission Trails Day event attended by approximately 1,500 participants—May
- Removed nonnative species from the Visitor Center Loop trail, Father Serra Trail and the East Fortuna Staging North trail—May
- Ranger led a bilingual interpretive walk at the Kumeyaay Lake Campground for 15 adults and 7 children—June
- Led a Monitoring Wildlife Corridors program for attendees of the annual Urban Wildlife Conference—June
- Pesticide Applicators performed herbicide applications to control nonnative species at the Jackson and Deerfield Trail areas—June
- Removed nonnative weeds from Grinding Rocks Trail and Spring Canyon areas—June
- Installed new monument sign footings at Pyles, North Fortuna, South Fortuna, and Kwaay Paay—June
- Pesticide Applicators performed herbicide applications to control nonnative species at Grasslands, Jackson area, Campground, and West Sycamore—July
- Conducted trimming of overgrown vegetation along the Visitor Center Loop Trail and Deerfield Trail—July and August
- Replaced seven illegally removed signs indicating “Area Closed” in East Elliot—July
- Installed a total of 28 new directional signs and replaced 5 interpretive signs throughout park —July
- Assisted with Beginning Tracking Training for Wildlife Survey Volunteers—July
- Rangers staffed a table at Cowles staging area to promote City’s Parks Fit program—July
- Controlled nonnative species using targeted herbicide applications and hand pulling methods at Fortuna Saddle, Suycott Valley, Shepard Ridge and San Diego River Crossing—August through October



Over 5,800 students participated in curriculum-based school programs at Mission Trails Regional Park.

- Worked on the development of three new interpretive displays for the Visitor Center—August
- Conducted trimming of overgrown vegetation along Shepard Ridge Trail—October
- Repaired or replaced eight sections of fencing park-wide—October
- Removed illegal dumps from Big Rock Trailhead and Father Serra Trail areas—October
- Performed herbicide applications and nonnative removal at BMX Overlook, Spring Canyon, Father Junipero Serra Trail, and Old Mission Dam—November
- Completed overgrown trail trimming projects at KLC Lake Trail, Oak Grove Trail, Father Junipero Serra Trail, and Grasslands Trail—November
- Removed an illegal dump from Bushy Hill Dr.—November
- Removed down and dead wood buildup at Old Mission Dam—November
- Performed herbicide applications and removed nonnative species from around the day use lot, Portobello Trail head, Mesa Rd., Spring Canyon, Visitor Center loop trail, and Oak Grove areas - December
- Replaced 15 damaged/vandalized signs park-wide—December
- Placed Shot hole borer traps throughout riparian areas of the park to proactively monitor for presence of this invasive tree pest. No invasive shot hole borers had been found in the park to date—December

Management Actions Related to MSCP Covered Species

- Pesticide Applicators performed herbicide treatments to control invasive species at the Kumeyaay Lake San Diego ambrosia site—March
- Pesticide Applicators performed herbicide treatments to manage nonnative grasses and forbs in areas with San Diego thornmint using the weed control protocol developed by Conservation Biology Institute—March
- Monitored Orcutt's brodiaea, San Diego Ambrosia, San Diego goldenstar, San Diego thornmint, Variegated dudleya—May
- Performed mowing to reduce nonnative grass thatch at San Diego ambrosia site—November
- Conducted quarterly wildlife tracking survey along transects 30 (Wildlife Tunnel), 31 (Oak Canyon) and 62 (Spring Canyon)—Quarterly



San Diego goldenstar at Mission Trails Regional Park.

Tri-Canyons & Mission Valley **Preserve**

Park Management Highlights

- ◆ Rangers conducted joint patrols with San Diego Police Department the Mission Valley Preserve in order to address new transient camps forming.
- ◆ Led a Canyon Day clean up event with over 150 volunteers plus 20 team leaders. The teams filled a 40 yard dumpster of trash and removed 50 palms from the creek.
- ◆ Collaborated with The San Diego River Park Foundation to complete multiple transient camp clean ups in the Mission Valley Preserve.

The **TRI-CANYONS** area includes Tecolote Canyon Natural Park, Marian Bear Open Space Park and Rose Canyon Open Space Park. Though located in an urban setting, these canyons provide opportunities for residents to enjoy nature and host many native habitats and species. The **MISSION VALLEY PRESERVE** is located in the San Diego River Floodplain within the Tri-Canyon Parks. The Preserve contains primarily riparian scrub and forest habitat and provides habitat for the federally endangered least Bell's vireo.

Stewardship Management Actions and Outreach

- Park-wide trail monitoring and maintenance—Monthly
- Performed regular patrols and maintenance in all of the Tri Canyon Parks and worked with SDPD on patrols through the Mission Valley Preserve.—Monthly
- Volunteers assisted with local native plant propagation for restoration at the newly established Tecolote Nature Center nursery—Yearlong
- Worked with Weed Warrior volunteers in Tecolote Canyon, Marian Bear and Rose Canyon to remove trash and shopping carts from the creek bed and control nonnative species, including hand pulling thousands of palm seedlings—Weekly
- Utilized Alpha Project crews to complete a variety of large maintenance tasks including removal of transient debris, cleaning storm drains, blocking illegal trails, and invasive species control in Tecolote Canyon, Marian Bear, Rose Canyon and Mission Valley Preserve—Monthly
- Worked with SDPD to evict transient camps and coordinated with the San Diego River Park Foundation on monthly cleanup events in the Mission Valley Preserve—Monthly
- A volunteer planted 30 native plants in Tecolote canyon—January
- Supervised installation of an Eagle Scout Kiosk at the Mission Valley Preserve—January
- Ranger and volunteers installed gate closure signs at Marian Bear Park in preparation for the gates being locked at night—January
- Ranger met with SDG&E work crew to discuss access to their poles for work to be done in west Marian Bear Park—January



The Tecolote Nature Center.



A volunteer and young guest admire a California mountain king snake at the Tecolote Nature Center.

- Removed illegal encampments in Tecolote's Linda Vista area—January
- Rangers conducted joint patrols with San Diego Police Department within the Mission Valley Preserve in order to address new transient camps forming—January
- Ranger and volunteers conducted targeted herbicide treatments and hand weeded around the Tecolote revegetation site—February
- Removed a large amount of onion weed from Marian Bear Park and Tecolote Canyon—February
- Ranger and volunteers removed several palms and tree tobacco at Mount Etna—February
- Over 50 volunteers from High Tech High school worked in Tecolote Canyon on Conservation and Preservation and assisted with planting 50 native container plants—February
- Removed several Canary island palms and Mexican fan palms from the Mission Valley Preserve—February
- Volunteer weed warriors helped remove seven bags of trash off High Knoll in Tecolote Canyon—February
- Ranger issued a citation for a chronic illegal lodging offender in Tecolote Canyon—February
- Coordinated with Environmental Services Department for a new recycle and trash collection system throughout the Tri Canyons and Mission Valley Preserve Park systems—March
- Worked with 20 volunteers from Torrey Cove planting natives, weeding and watering in Tecolote Canyon—March
- Volunteers from UCSD worked with a Ranger on planting natives, weeding and watering in Tecolote Canyon—March
- Trimmed back overgrown vegetation from the trail off Regents Rd. in Rose Canyon—March
- Cleared trails of storm debris and fallen trees with volunteer help throughout Marian Bear—March
- Removed storm debris from under Regents bridge and repaired the West Regents parking lot in Marian Bear—March
- Replaced old/damaged park signs near Mt. Brundage in Tecolote Canyon—March



A volunteer leads an educational nature walk in Tecolote Canyon.



A Ranger presents a program on native plants and seed collection to kids at the Tecolote Nature Center.

- Led a Canyon Day clean up event with over 150 volunteers plus 20 team leaders. The teams filled a 40 yard dumpster of trash and removed 50 palms from the creek on Mesa College side—April
- Collaborated with The San Diego River Park Foundation to complete multiple transient camp clean ups in the Mission Valley Preserve—April
- Led a girl scout troop on a guided tour through the nature center and native garden—April
- Rangers issue Vehicle Habitation citations to address the vehicle habitation issue in the Tecolote parking lots —April
- Worked with 10 Sanford School volunteers planting native plants in Tecolote Canyon—May
- Hosted a River Days volunteer event during which 15 volunteers helped water newly planted plants and trimmed overgrown vegetation along trails—May
- Installed Shot Hole Borer Beetle traps in riparian areas of the Tecolote Canyon and the Mission Valley Preserve to proactively monitor for presence of this invasive tree pest. Shot hole borer has not been detected in these areas to date—May
- Worked with an Eagle scout in Rose Canyon making improvements to an interpretive kiosk —May
- Ranger led a guided ranger walk for high school students in Tecolote Canyon—May
- Senior Weed Warriors performed trail maintenance from Chateau to Balboa in Tecolote Canyon and also removed 5 bags of castor bean seeds behind the driving range and 2 buckets of golf balls—June
- Supervised Alpha Project crews cleaning up the Mission Valley Preserve bike path and removing invasive castor bean—June
- Led a group of 3rd graders on an interpretive hike through Marian Bear Park—June
- Rangers and volunteers removed three illegal camps in the Linda Vista portion of Tecolote Canyon—June
- Removed an illegal dump of palm tree cuttings from under the bridge at Marian Bear Park.—July



The Tecolote Native Plant Nursery.

- Ranger and a volunteer removed several invasive palms in Rose Canyon—July
- Supervised Alpha Project crews performing trail maintenance at the Gardena St. trail and removing invasive tumbleweed—August
- Worked with I Love a Clean San Diego (39 volunteers) to clean up the flood channel and water plants in Tecolote Canyon—August
- A volunteer and Ranger team removed 2 bags of trash, 100 tree tobaccos, 50 castor bean plants, 5 small Canary Island Palms and 50 palm seedlings from Tecolote Canyon—September
- Cleaned out all brow ditches and storm drains as part of biyearly maintenance—September
- Volunteers helped plant 12 native plants in Tecolote Canyon—October
- Rangers and volunteers began removing nonnatives in Tecolote Canyon in preparation for native plantings to be installed before the rainy season—October through December
- Friends of Rose Canyon and volunteers removed nonnatives around Oak Trees that were planted in past years—October
- Rangers cleaned up six encampments near Kelly Street Park in Tecolote Canyon—October
- Ranger and volunteers planted 10 native plants in Tecolote Canyon and began seeding more native plants for the Tecolote Native Plant Nursery—November
- Weed Warriors and Alpha project removed approximately 20 yards of nonnative Ice Plant from Tecolote Canyon—November
- Ranger led an impromptu talk on the history and native flora and fauna of Tecolote Canyon for the Cleveland Ohio Hiking Club with 28 members—November
- Volunteers assisted with planting 47 native plants in Tecolote Canyon—December
- Installed new trash and recycle bins throughout the Tri-Canyons parks—December
- Painted over a large amount of graffiti at the Marian Bear comfort station—December



A photo of Cedar Waxwings taken outside the Tecolote Visitor Center by volunteer Tom Walsh.

Citywide Open Space & Urban Canyons

Park Management Highlights

- ♦ Held a ribbon cutting ceremony for the opening of Canyon's Loop Trail in City Heights.
- ♦ Removed a total of 972 tires and 500 rims from Ocean View Hills Open Space.
- ♦ Installed over 1000 feet of t-post and wire fence and one swing gate in Otay Mesa Open Space to stop illegal off-road traffic and protect sensitive vernal pool and burrowing owl habitat.
- ♦ Performed maintenance and repairs on several artificial burrowing owl burrows at Otay Mesa Open Space. A burrowing owl pair was observed using one of the repaired burrows in December.

CITY-WIDE OPEN SPACE and URBAN CANYONS within the Multi-Habitat Planning Area are found throughout the City of San Diego. Although small and subject to intense pressures, many continue to support native plants and wildlife. In fact, many of the large canyons are habitat for the sensitive California gnatcatcher and cactus wren. Management actions can counteract edge effects from development to maintain the habitat provided by these canyons.

Stewardship Management Actions and Outreach

- Coordinated and led the ongoing effort to prevent homeless encampments and clean up active or abandoned encampments with volunteers, Alpha Project, San Diego Police Department, and Urban Corps. Rangers worked with SDPD Joint Patrols and Quality of Life teams to remove transients from various canyon locations—Yearlong
- Worked with various non-profit groups including SD Canyonlands, the Friends of Ruffin Canyon, Friends of University Heights Open Space, Friends of Navajo Canyon, Friends of Chollas Creek, Friends of Juniper Canyon, Friends of 47th St. and Friends of Maple Canyon on invasive removal, trash pickup, trail maintenance and habitat restoration—Yearlong
- Supervised Alpha Project and Urban Corps crews in trash pickup and weed removal in various Canyon locations—Yearlong
- Pesticide Applicators performed herbicide applications to control non-native and invasive weed in various Open Space Canyons including: Serra Mesa Rec Center Open Space, Balboa Blvd, Maple Canyon, Pottery Canyon, Rancho Mission Park, Curlew Open Space, Navajo Canyon, Emerald Hills Open Space, Marian Bear Park, Regents Rd, Juniper Canyon, and Tecolote Canyon, Chollas Creek Open Space, Guymon Open Space, Mission Trails, 46th and Home St. Open Space, and Dennery Rd Open Space, Camino Del Luna, Otay Mesa, Nobel Drive—Yearlong (as needed)
- Coordinated with Urban Corps on an ongoing habitat restoration project in Radio Canyon—Monthly



Volunteers from Progressive Insurance helped Park Rangers remove invasive species and perform trail maintenance at Ruffin Canyon.

- Performed park-wide trail monitoring and maintenance—Monthly
- Rangers participated in and led a group at the “We All Count” homeless event—January
- Rangers worked with other City staff on a Maple Canyon post storm maintenance project that consisted of cutting up downed Eucalyptus trees, trail maintenance and step installation—January
- Worked with Hands on San Diego to install 400 native plants at Rancho Mission Canyon—January
- Performed drainage/erosion repairs in Pottery Canyon —January and February
- Utilized County Probation crew to perform habitat maintenance at Rancho Mission Canyon—January and February
- Worked with San Diego Police Department Homeless Outreach Team to remove transients from Flanders Open Space—January
- Hydro-seeding was performed by Pesticide Applicators at Ruffin Canyon, Maple Canyon, Pottery Canyon, and 31st and Cedar Open Space—January
- Coordinated and supervised a children’s planting event at Ruffin Canyon—February
- Supervised Urban Corps crews to remove invasive plants and install 100 native plants at Adobe Falls—February/March
- Supervised San Diego Audubon Habitat Helpers planting event at Ruffin Canyon—February
- Worked with SD County Park & Rec staff and SD County Probation Convict crew to install 300 plants at Emerald Hills Open Space—February
- Installed new sensitive habitat signs at Ruffin Canyon—February
- Rangers supervised the ACE Trail crew performing trail maintenance at Juniper Canyon for two weeks—March
- Ranger supervised Alpha Project crews performing Arundo removal in San Diego River—March
- Ranger led a nature walk for 20 homeschool children and parents at Chollas Creek—March
- Utilized County Probation crew to perform maintenance at Guymon OS and Chollas Creek—March
- Rangers and Pesticide Applicators helped plan, set up and execute the removal of 269 tires from an Open Space canyon in Otay Mesa—March



San Diego Audubon Habitat Helpers planted native coastal sage scrub plants at Ruffin Canyon.

- Worked with 42 volunteers from the Church of God to beautify Emerald Hills Open Space—April
- Held a ribbon cutting ceremony for the new Canyon's Loop Trail in City Heights—April
- Hosted a Creek to Bay cleanup site at La Jolla Heights Open Space—April
- Installed temporary irrigation at Maple Canyon and Pottery Canyon to help with newly hydro seeded areas—April
- Hosted a planting event at Soledad Mountain Open Space and installed 150 native plants—May
- Rangers led a high school nature talk and volunteer event at Rancho Mission Canyon attended by 70 students. Students could visit three different stations to learn about tracking, restoration and nature—May
- Pesticide Applicators cleared weeds using mechanical methods, sprayed weeds, installed new irrigation, installed native container plants and watered hydro-seeded areas at both Pottery Canyon and Maple Canyon twice a week—May
- Rangers hosted and attended the first Natural Resource Management Park Ranger Committee Meeting—June
- Repaired trails at Ruffin Canyon—June
- Rangers performed weeding and watering maintenance at Adobe Falls—June through November
- Pesticide Applicators worked with an Urban Corps crew to remove a total of 972 tires and 500 rims from the Ocean View Hills Open Space—June
- Rangers and Pesticide Applicators performed hydro-seeding at Curlew Street Open Space—July
- Hosted a volunteer event at Guymon Street Open Space removing weeds, picking up trash and spreading mulch with 20 volunteers—July



A total of 972 tires and 500 rims were removed from Ocean View Hills Open Space in June.

- Performed supplemental watering for all previously hydro-seeded sites including Curlew, Pottery Canyon, Maple Canyon, Ruffin Canyon, as well as new plantings areas at University Heights and Emerald Hills Open Space—June through December
- Hosted a volunteer event at Ruffin Canyon that involved trimming along the trail and spreading 20 tons of decomposed granite along trail with 70 volunteers from Progressive Insurance—August
- Removed 8 invasive palm trees from Sandrock Canyon—August
- Hosted a Coastal Cleanup Day event at Juniper Canyon—September
- Worked with SDPD Homicide Detectives and the District Attorney Investigator on a homicide case in Manzanita Canyon —September through October
- Led an invasive plant removal volunteer event at Serra Mesa Rec Canyon with 12 volunteers—September
- Performed erosion control and weed maintenance in remediation area at Pottery Canyon—October and November
- Rangers assisted with the setup of a temporary homeless shelter at the 20th and B street vehicle yard in response to the Hepatitis A outbreak—October
- Led a county probation crew at Pottery Canyon that helped plant 650 native container plants—November and December
- Performed erosion control work at Chollas Creek Open Space and removed debris from the creek bed—November
- Performed hydro-seeding at Bates Ave and Maple Canyon—November
- Volunteers planted over 50 plants at Rancho Mission Canyon, Juniper Canyon, Chollas Creek—December
- Rangers and Pesticide Applicators assisted with an ongoing Arundo removal project at San Diego River—December



Eight invasive palms were removed from Sandrock Canyon.



An ongoing arundo removal project at the San Diego River.

Management Actions Related to MSCP Covered Species

- Replaced a long section of fence that had been stolen and installed a new gate to protect sensitive vernal pool habitat off of Innovative Dr. and Otay Mesa Rd—March
- Installed over 6000 feet of t-post and wire fence and one swing gate in Otay Mesa Open Space to stop illegal off-road traffic and protect sensitive vernal pool and burrowing owl habitat—March through December.
- Rangers performed maintenance and repairs on several artificial burrowing owl burrows at Otay Mesa Open Space—November
- A burrowing owl pair was observed using one of the repaired artificial burrows at Otay Mesa Open Space on December 29, 2017.



Over 1,000 feet of fencing was installed at Otay Mesa Open Space to protect sensitive vernal pool and burrowing owl habitat.



A cluster of young spadefoot toads observed near a vernal pool at Otay Mesa.



A burrowing owl perched outside an artificial burrow at Otay Mesa.



Otay Valley **Regional Park**

Park Management Highlights

- ◆ Supervised Urban Corps, San Diego County Probation Crews and Center for Employment Opportunities (CEO) up to three days a week to clean up old homeless encampments and remove invasive weed species park-wide.
- ◆ San Diego Audubon Society received a grant from the Port of San Diego to conduct afterschool Outdoor Explore program in OVRP for the next five years. The program will be offered to Myrtle Finney, Juarez Lincoln, Otay, and Montgomery Elementary schools.

OTAY VALLEY REGIONAL PARK (OVRP) is an east-west corridor surrounding the Otay River in southern San Diego. The park supports least Bell's vireo and rare native plants, such as Orcutt's bird's-beak.

Stewardship Management Actions and Outreach

- Park Rangers performed weekly patrols of the interior of the park to deter homeless camps and other unwanted activities—Yearlong
- Improved security at the staging areas by increasing the visibility and enforcing gate closing hours by security. Number of suspicious visits by vehicle and vandalism at the staging area has dropped significantly during past year—Yearlong
- Park-wide trail monitoring and maintenance—Monthly
- Supervised Urban Corps, San Diego County Probation Crews and Center for Employment Opportunities (CEO) up to three days a week to clean up old homeless encampments and remove invasive weed species park-wide—Yearlong
- Ranger performed monthly bird surveys of OVRP with the help of volunteers from San Diego Audubon—Monthly
- Rangers conducted joint patrols with San Diego Police Department officers to help deter unlawful activities within the park —Weekly (July through August)
- Installed new hours sign at the entrance to the Finny Overlook—January
- Developed, planned, and presented OVRP's first children's outdoor program, Nature Club, to kick off the year. Three programs were hosted in January with approximately 30 participants ages 5 to 12—January
- Published the first quarterly kids newsletter for OVRP—February
- Coordinated with the City of Chula Vista Recycling Specialist to provide access to the Otay Landfill for Rangers to discard excessive amount of trash from western OVRP, green, recyclable, and hazardous waste cleaned up from a large illegal dump—February
- Four Navy volunteers helped to remove several small eucalyptus trees—March



Interpretive signs at Otay Valley Regional Park.



A Ranger led hike in Otay Valley Regional Park.

- Coordinated with City of Chula Vista tree-trimming supervisor and visited three sites within the City of Chula Vista jurisdiction to evaluate and address reported tree safety issues—March
- Hosted an Earth Day Creek to Bay volunteer event. Approximately 30 volunteers participated in the event to pick up trash, paint over graffiti, and remove non-native plants—April
- Hosted volunteer event with 1 adult and 6 high school students from Montgomery High School to clean up around the Fenton Pond—April
- Volunteers pruned and weeded the Tecolote Native Plant Garden during the volunteer event Sunday In the Garden—April
- Hosted approximately 65 volunteers from a church group. They helped remove weeds and trash around the Fenton Pond and the trail east of the ranger station—May
- Provided a tour of OVRP to Geologist Dr. Norrie Robins in an effort to prepare for the OVRP Day geology table—May
- Worked with the city GIS staff to develop a sensitive species map and sewer and manhole locations of OVRP in order to better plan and manage the park land—May
- Presented a tour of OVRP to approximately 10 to 15 participants from Outdoor Outreach Group—May
- The San Diego Audubon Society hosted Outdoor Explore programs and introduced OVRP to the children from Finney Elementary school—May
- Utilized a skid steer and tractor to mow weeds and spread wood chips in an effort to suppress weed population—May
- Performed fence repair/replacement project with the help of a work crew—June
- Over 30 volunteers helped host the annual Discover OVRP Day event—June
- Approximately 11 volunteers removed weeds along the trail at Palm Ave. on City of San Diego side of the park—June
- San Diego Audubon Society received a grant from the Port of San Diego to conduct afterschool Outdoor Explore program in OVRP for the next five years. The program will be offered to Myrtle Finney, Juarez Lincoln, Otay, and Montgomery Elementary schools —June



Homeless encampments generate large amounts of trash and degrade sensitive habitats. Park Rangers performed weekly patrols of the interior of the park to deter homeless camps and worked with Urban Corps, San Diego County Probation Crews and Center for Employment Opportunities to clean up encampment areas.

- Three possible tree hazardous locations (Beyer Way, Date Street, Rancho Dr.) were evaluated and prioritized for tree trimming by the City of SD GMM and contractors—June
- A large volunteer group of approximately 73 participants removed nonnative weeds along the trail at 27th Street—July
- Adventure Passport Program, hosted 6 youth and 4 adult volunteers for a holiday bike ride in nature. The kids wore Halloween costumes and/or decorated their helmets before the group ride—October
- Pesticide Applicators performed herbicide applications to control invasive species throughout the park—October
- A County probation crew assisted Rangers with transient camp removal, weed suppression and other necessary maintenance projects throughout the park—October
- Installed Shot Hole Borer Beetle traps in riparian areas to proactively monitor for presence of this invasive tree pest. Ranger monitored traps and submitted samples to County for identification. Samples submitted in late December were confirmed to be Kuroshio Shot Hole Borer. Management strategies are currently being evaluated—November through December
- Responded to two brush fire concern/complaints on City of Chula Vista property—November
- Ranger attended a Dennery Trails plan site visit meeting with other City staff and a representative from USFWS—December
- Hosted a meeting with City Biologist staff at the Ranger Station to Kick-off Preparation of the Western OVRP Natural Resource Management Plan—December

Management Actions Related to MSCP Covered Species

- Biologists performed monitoring of rare plant occurrences of Orcutt's birds beak along the Otay River, as well as San Diego thornmint, Otay tarplant, and Small leaved rose at Dennery Canyon—April



Otay tarplant at Dennery Canyon.



Small leaved rose at Dennery Canyon.

Thanks to our Partners!

- Allied Gardens Recreation Center
- Alpha Project
- AmeriCorps
- American Conservation Experience
- Atlas Tree Service
- Bay Park Nature Walks
- Bayside Community Center
- Boy Scouts of America
- Cabrillo Recreation Center
- California Native Plant Society
- Cambridge Elementary School
- Camelback Group
- Chula Vista Home School
- CEO – Center for Employment Opportunities
- CETYS High School in Tijuana
- Chaparral Lands Conservancy
- City of Chula Vista
- City of San Diego – Police Department
- Conservation Biology Institute
- County of San Diego
- Del Dios Habitat Protection League
- Donovan Crew
- Eagle Scouts
- Empower Charter School
- Finney Elementary School
- Friends of 47th Street Canyon
- Friends of Arroyo Canyon
- Friends of Chollas Creek
- Friends of Juniper Canyon
- Friends of Mission Valley Preserve
- Friends of Lake Murray
- Friends of Los Peñasquitos Canyon Preserve
- Friends of Navajo Canyon
- Friends of Rose Canyon
- Friends of Ruffin Canyon
- Friends of Tecolote Canyon
- Friends of University Heights Open Space
- Girl Scouts of America
- Groundworks Chollas
- Hands on San Diego
- High Tech High
- Holmes Elementary School
- I Love a Clean San Diego
- Jewish Community Center
- Juarez Elementary School
- Kate Sessions Elementary School
- Key Club
- Longfellow Elementary School
- Mesa College
- Mike Kelly & Associates
- Mission Resource Conservation League
- Mormon Missionaries
- Ocean Discovery Institute
- Outdoor Adventures
- Outdoor Outreach
- River Partners
- Safe Routes to Nature
- San Diego Association of Governments (SANDAG)
- San Diego Audubon Society
- San Diego Canyonlands
- San Diego Cooperative Charter School
- SDG&E
- San Diego Natural History Museum
- San Diego Management and Monitoring Program
- San Diego Mountain Biking Association
- San Diego River Park Foundation
- San Dieguito River Park Conservancy
- San Diego State University
- San Diego Zoo Institute for Conservation Research
- Sierra Club
- Sky Hunters
- Spreckles Elementary School
- The Institute for Effective Education (TIEE)
- Trail Life USA
- University of San Diego
- Urban Corps of San Diego County
- US Fish and Wildlife Service
- US Navy
- WildCoast

Thank you for your support
of natural open space within the City of San
Diego!

For questions or to volunteer, please contact:

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