

**City of San Diego
2018 MSCP Rare Plant
Monitoring Report**

City of San Diego
Park and Recreation Department
Open Space Division

October 2018



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Appendix A - City of San Diego MSCP Rare Plant Monitoring: 2018 Field Monitoring Dates and Staff

I. Introduction

The Biological Monitoring Plan for the Multiple Species Conservation Program (Ogden Environmental, Inc. 1996), Status Summary of MSCP Biological Monitoring Protocols (Conservation Biology Institute 2001), San Diego MSCP Rare Plant Monitoring Review and Revision (USGS, 2007) and the Assessment of Eleven Years of Rare Plant Monitoring Data from the San Diego Multiple Species Conservation Program (2010) are important components of the City of San Diego's MSCP under its 1997 Implementing Agreement (R28455) with the U.S. Fish and Wildlife Service and the California Department of Fish and Wildlife. The monitoring program includes plant, animal, and habitat monitoring requirements for each MSCP-participating jurisdiction; the City of San Diego began rare plant monitoring in 1999. In 2018, the City performed rare plant monitoring using the Management Strategic Plan (MSP) 2018 Monitoring Protocol (SDMMP 2018) for the following species:

Acanthomintha ilicifolia – Black Mountain, Dennery Ranch East, Los Peñasquitos Canyon, Mission Trails Regional Park, Otay Lakes, Sabre Springs

Acmispon prostratus – Mission Bay

Ambrosia pumila – Mission Trails Regional Park (Kumeyaay Lake)

Bloomeria clevelandii – East Elliott, Lopez Ridge, Marron Valley, Mission Trails Regional Park, Otay Lakes

Brodiaea filifolia – Black Mountain

Brodiaea orcuttii – Carroll Canyon, Lopez Ridge, Mission Trails Regional Park (Oak Creek), Nobel Drive

Chloropyron maritimum ssp. *maritimum* – Dog Beach

Cylindropuntia californica var. *californica* – Balboa Golf, Spring Canyon

Deinandra conjugens – Dennery Ranch, Dennery Ranch East, Proctor Valley

Dicranostegia orcuttiana – Otay River Valley, Dennery Ranch East

Dudleya brevifolia – Carmel Mountain, Crest Canyon

Dudleya variegata – Black Mountain East, East Elliott, Goat Mesa/Spring Canyon, Marron Valley, Mercy Road, Mission Trails Regional Park, Rancho Mission Canyon, Otay Lakes, Santa Luz

Erysimum ammophilum – Crest Canyon, North City West Open Space, Gonzales Canyon

Monardella stoneana – Marron Valley, Otay Lakes

Monardella viminea – Flanders Canyon, Lopez Canyon, Sycamore Canyon

Rosa minutifolia – Dennery Ranch

References:

San Diego Management and Monitoring Program (SDMMP). 2017. Management Strategic Plan (MSP) 2015 Monitoring Protocol for Rare Plant Occurrences on Conserved Lands in Western San Diego County. Prepared March 11, 2014; revised March 8, 2017.

City of San Diego MSCP Rare Plant Monitoring: 2018 Summary Results

| Species | Site Name | MSP Occurrence ID | Population | | | Native | | Non-Native | | Management Recommendations | Field Data Sht (pg.#) | Photo (pg. #) |
|---|-------------------------------------|-------------------|-------------------------------------|---|--------------------------------|--------------------------------|----------------------------|-------------------|----------------------------|--|-----------------------|---------------|
| | | | Area (m ²) ¹ | # Individuals in current maximum extent | Percent cover in sampling area | Number of Species ² | Percent Cover ² | Number of Species | Percent Cover ³ | | | |
| <i>Acanthomintha ilicifolia</i> (San Diego Thorn-mint) | Black Mountain | ACIL_6BLMO032-1 | 0.0 | 0 | 0.0% | 16 | 14.0% | 10 | 56.6% | Continue preserve stewardship and weed treatments, evaluate feasibility of seed bulking project. | 12 | 15 |
| | Dennerly Ranch East | ACIL_3DREA005 - 1 | 0.0 | 0 | 0.0% | 6 | 14.8% | 5 | 1.8% | Continue preserve stewardship and weed treatments, evaluate feasibility of seed bulking project. | 17 | 20 |
| | Los Penasquitos Canyon Obs. 1 | ACIL_6LPCA039 - 1 | 15.9 | 229 | 0.2% | 15 | 24.0% | 8 | 9.0% | Continue weed treatments to address BRDI and broad-leaf invasives | 22 | 25 |
| | Los Penasquitos Canyon Obs. 2 | ACIL_6LPCA039 - 2 | 3.1 | 12 | 0.0% | 10 | 25.0% | 17 | 21.4% | Continue weed treatments and preserve stewardship | 27 | 30 |
| | Los Penasquitos Canyon Obs. 3 | ACIL_6LPCA039 - 3 | 0.0 | 0 | 0.0% | 14 | 24.0% | 6 | 21.0% | Continue weed treatments and preserve stewardship | 32 | 35 |
| | Mission Trails Regional Park | ACIL_MTRP021 - 1 | 16.0 | 77 | 0.0% | 13 | 11.8% | 6 | 2.0% | Continue ongoing restoration efforts - weed control, seed bulking and supplemental seeding | 37 | 40 |
| | Otay Lakes | ACIL_3OTLA012 - 1 | 0.0 | 0 | 0.0% | 10 | 4.4% | 4 | 67.4% | Continue preserve stewardship | 42 | 45 |
| | Sabre Springs East #1 Subpopulation | ACIL_4SASP025 - 1 | 0.0 | 0 | 0.0% | 10 | 25.0% | 17 | 21.4% | Continue weed control and preserve stewardship actions | 47 | 50 |

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|---|---|-------------------|-------------------------------------|---|--------------------------------|--------------------------------|----------------------------|-------------------|----------------------------|---|-----------------------|---------------|
| | | | Area (m ²) ¹ | # Individuals in current maximum extent | Percent cover in sampling area | Number of Species ² | Percent Cover ² | Number of Species | Percent Cover ³ | | | |
| <i>Acanthomintha ilicifolia</i> (San Diego Thorn-mint) | Sabre Springs West #2 Subpopulation | ACIL_4SASP025 - 2 | 0.0 | 0 | 0.0% | 11 | 13.2% | 15 | 13.8% | Continue preserve stewardship and weed treatments, evaluate feasibility of seed bulking project | 52 | 55 |
| | Sabre Springs South #3 Subpopulation | ACIL_4SASP025 - 3 | 0.0 | 0 | 0.0% | 11 | 14.6% | 5 | 8.8% | Continue preserve stewardship and weed treatments, evaluate feasibility of seed bulking project | 57 | 60 |
| | | | | | | | | | | | | |
| <i>Acmispon prostratus</i> (Nuttall's Lotus) | Dune Triangle (Mission Bay Site #5) | ACPR_1DUTR005 - 5 | 0.0 | 0 | 0.0% | 4 | 59.4% | 5 | 1.2% | Continue preserve stewardship and perform weed control as funding is available | 63 | 66 |
| | Hospitality Point (Mission Bay Site #2) | ACPR_1HOPO002 - 2 | 3308.3 | 5788 | 15.0% | 3 | 29.0% | 4 | 27.4% | Continue preserve stewardship and weed control as funding permits | 68 | 71 |
| | Mariner's Point (Mission Bay Site #4) | ACPR_1MAPO004-4 | n/a | n/a | 18.0% | 4 | 68.0% | 0 | 0.0% | Continue preserve stewardship and continue to maintain area for tern nesting. | 73 | 76 |
| | No Man's Land (Mission Bay Site #1) | ACPR_1NMLA001 - 1 | 1502.3 | 236 | 6.0% | 7 | 47.8% | 7 | 19.0% | Continue preserve stewardship and weed treatments as funding permits | 77 | 80 |

City of San Diego MSCP Rare Plant Monitoring: 2018 Summary Results

| Species | Site Name | MSP Occurrence ID | Population | | | Native | | Non-Native | | Management Recommendations | Field Data Sht (pg.#) | Photo (pg. #) |
|--|--|-------------------|-------------------------------------|---|--------------------------------|--------------------------------|----------------------------|-------------------|----------------------------|---|-----------------------|---------------|
| | | | Area (m ²) ¹ | # Individuals in current maximum extent | Percent cover in sampling area | Number of Species ² | Percent Cover ² | Number of Species | Percent Cover ³ | | | |
| <i>Acmispon prostratus</i> (Nuttall's Lotus) | Rip Rap (Mission Bay Site #3) | ACPR_1RRSO003 - 3 | 354.8 | 152 | 0.0% | 7 | 10.8% | 10 | 37.2% | Continue preserve stewardship and control pennesetum as funding permits | 82 | 85 |
| | South Shores (Mission Bay Site #6) | ACPR_1SOSH006 - 6 | 426.7 | 100 | 0.0% | 3 | 7.4% | 4 | 49.2% | Continue preserve stewardship and continue weed control as funding allows | 87 | 90 |
| | | | | | | | | | | | | |
| <i>Ambrosia pumila</i> (San Diego Ambrosia) | Mission Trails Regional Park Kumeyaay Lake | AMPU_4KULA005-1 | 6355.8 | 32009 | 0.0% | 9 | 38.0% | 6 | 23.0% | Continue annual mowing and targeted weed control | 93 | 96 |
| | | | | | | | | | | | | |
| <i>Bloomeria clevelandii</i> (San Diego Goldenstar) | East Elliott Obs. 1 | BLCL_4EAEL014 - 1 | 26674.1 | 2773 | 0.2% | 18 | 40.6% | 8 | 58.8% | Evaluate feasibility of BRDI treatment on steep, remote slopes | 99 | 102 |
| | East Elliott Obs. 2 | BLCL_4EAEL014 - 2 | 0.0 | 0 | 0.0% | 12 | 20.6% | 7 | 4.0% | Continue preserve stewardship | 104 | 107 |
| | East Elliott Obs. 3 | BLCL_4EAEL014 - 3 | 0.0 | 0 | 0.0% | 8 | 30.8% | 3 | 1.4% | Continue preserve stewardship | 109 | 112 |
| | East Elliott Obs. 5 | BLCL_4EAEL014 - 5 | 0.0 | 0 | 0.0% | 14 | 29.6% | 6 | 1.2% | Continue preserve stewardship | 114 | 117 |
| | Lopez Ridge | BLCL_6LORI021 - 1 | 97.9 | 77 | 0.0% | 10 | 38.2% | 10 | 8.4% | Continue preserve stewardship | 119 | 122 |
| | Marron Valley Obs. 1 | BLCL_3MAVA005 - 1 | 20760.6 | 2087 | 0.2% | 12 | 29.8% | 7 | 31.8% | Continue preserve stewardship | 124 | 127 |
| | Marron Valley Obs. 2 | BLCL_3MAVA005 - 2 | 20760.6 | 2087 | 0.0% | 11 | 36.8% | 6 | 28.6% | Continue preserve stewardship | 129 | 132 |

City of San Diego MSCP Rare Plant Monitoring: 2018 Summary Results

| Species | Site Name | MSP Occurrence ID | Population | | | Native | | Non-Native | | Management Recommendations | Field Data Sht (pg.#) | Photo (pg. #) |
|--|------------------------------|-------------------|-------------------------------------|---|--------------------------------|--------------------------------|----------------------------|-------------------|----------------------------|---|-----------------------|---------------|
| | | | Area (m ²) ¹ | # Individuals in current maximum extent | Percent cover in sampling area | Number of Species ² | Percent Cover ² | Number of Species | Percent Cover ³ | | | |
| <i>Bloomeria clevelandii</i> (San Diego Goldenstar) | Marron Valley Obs. 3 | BLCL_3MAVA005 - 3 | 20760.6 | 2087 | 0.2% | 18 | 34.8% | 11 | 14.8% | Continue preserve stewardship | 134 | 137 |
| | Marron Valley Obs. 4 | BLCL_3MAVA005 - 4 | 20760.6 | 2087 | 0.2% | 12 | 16.0% | 7 | 70.6% | Continue preserve stewardship | 139 | 142 |
| | Mission Trails Regional Park | BLCL_4MTRP023 - 1 | 0.0 | 0 | 0.0% | 12 | 30.2% | 8 | 67.4% | Continue preserve stewardship; control nonnative grasses and forbs as funding becomes available | 144 | 147 |
| | Otay Lakes East Obs. 1 | BLCL_3OTLA006 - 1 | 23012.3 | 1183 | 0.0% | 9 | 14.2% | 2 | 65.0% | Continue preserve stewardship | 149 | 152 |
| | Otay Lakes West Obs. 2 | BLCL_3OTLA006 - 2 | 23012.3 | 1183 | 0.0% | 10 | 29.2% | 4 | 53.2% | Continue preserve stewardship | 154 | 157 |
| | | | | | | | | | | | | |
| <i>Brodiaea filifolia</i> (Thread-leaved Brodiaea) | Black Mountain | BRFL_6BMRA002 - 1 | 59.8 | 136 | 0.2% | 6 | 26.4% | 8 | 30.8% | Continue weed management treatments | 160 | 163 |
| | | | | | | | | | | | | |
| <i>Brodiaea orcuttii</i> (Orcutt's Brodiaea) | Nobel Drive | BROR_2NODR002 - 1 | 0 | 0 | 0.0% | 10 | 13.6% | 7 | 21.0% | Continue preserved stewardship; weed control for Dittrichia | 166 | 169 |
| | Oak Creek (MTRP) | BROR_4OACR012 - 1 | 61.17 | 79 | 0.2% | 26 | 46.8% | 21 | 19.2% | Continue preserve stewardship | 171 | 175 |
| | Carroll Canyon | BROR_6CACA015 - 1 | 978.48 | 238 | 0.2% | 16 | 27.8% | 5 | 10.6% | Continue preserve stewardship and perform invasive species removal/control as funding permits | 177 | 180 |

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| Species | Site Name | MSP Occurrence ID | Population | | | Native | | Non-Native | | Management Recommendations | Field Data Sht (pg.#) | Photo (pg. #) |
|--|---------------------|---------------------|-------------------------------------|---|--------------------------------|--------------------------------|----------------------------|-------------------|----------------------------|--|-----------------------|---------------|
| | | | Area (m ²) ¹ | # Individuals in current maximum extent | Percent cover in sampling area | Number of Species ² | Percent Cover ² | Number of Species | Percent Cover ³ | | | |
| <i>Brodiaea orcuttii</i> (Orcutt's Brodiaea) | Lopez Ridge | BROR_6LORI018 - 1 | 44.32 | 26 | 0.2% | 10 | 38.2% | 10 | 8.4% | Continue preserve stewardship | 182 | 185 |
| <i>Chloropyron maritimum</i> ssp. <i>maritimum</i> (Salt-marsh Bird's Beak) | Dog Beach | COMAM3_1DOBE007 - 1 | 2749.8 | 7771 | 3.0% | 10 | 47.6% | 1 | 35.0% | Continue preserve stewardship | 188 | 191 |
| <i>Cylindropuntia californica</i> (Snake Cholla) | Balboa Park Golf | CYCA_2BPGC001 - 1 | 724.2 | 8 | 0.2% | 13 | 84.0% | 1 | 4.0% | Continue preserve stewardship and remove penneisetum as funding permits | 194 | 197 |
| | Spring Canyon | CYCA_3GOME003 - 1 | 1658.7 | 83 | 0.0% | 10 | 40.0% | 5 | 14.4% | Continue preserve stewardship | 199 | 202 |
| <i>Deinandra conjugens</i> (Otay Tarplant) | Dennerly Ranch | DECO13_3DERA020 - 1 | 3.1 | 4 | 0.0% | 11 | 49.2% | 3 | 12.4% | Continue preserve stewardship | 205 | n/a |
| | Dennerly Ranch East | DECO13_3DREA021 - 1 | 3936.9 | 388 | 0.2% | 6 | 4.0% | 5 | 21.6% | Clean up trash from old encampment, continue preserve stewardship | 210 | 213 |
| | Proctor Valley | DECO13_3PRVA013 - 1 | 0.0 | 0 | 0.0% | 8 | 7.0% | 8 | 73.0% | Continue preserve stewardship | 215 | n/a |
| <i>Dicranostegia orcuttiana</i> (Orcutt's Bird's Beak) | Dennerly Ranch East | COOR7_3DREA007 - 1 | 0.0 | 0 | 0.0% | 7 | 37.2% | 2 | 1.2% | Continue preserve stewardship and continue to perform weed control as needed | 221 | 224 |

City of San Diego MSCP Rare Plant Monitoring: 2018 Summary Results

| Species | Site Name | MSP Occurrence ID | Population | | | Native | | Non-Native | | Management Recommendations | Field Data Sht (pg.#) | Photo (pg. #) |
|---|---------------------------|---------------------|-------------------------------------|---|--------------------------------|--------------------------------|----------------------------|-------------------|----------------------------|--|-----------------------|---------------|
| | | | Area (m ²) ¹ | # Individuals in current maximum extent | Percent cover in sampling area | Number of Species ² | Percent Cover ² | Number of Species | Percent Cover ³ | | | |
| <i>Dicranostegia orcuttiana</i> (Orcutt's Bird's Beak) | Otay River Valley | COOR7_3ORVA001 - 1 | 90.3 | 390 | 0.2% | 12 | 42.0% | 1 | 0.2% | Continue preserve stewardship and repair fencing along trail | 226 | 229 |
| | | | | | | | | | | | | |
| <i>Dudleya brevifolia</i> (Short-Leaved Dudleya) | Carmel Mountain Obs. 1 | DUBLB2_6CMR001 - 1 | 84.5 | 275 | 0.2% | 13 | 49.6% | 2 | 5.2% | Continue preserve stewardship | 232 | 235 |
| | Carmel Mountain Obs. 2 | DUBLB2_6CMR001 - 2 | 81.3 | 140 | 0.2% | 13 | 30.0% | 4 | 0.8% | Continue preserve stewardship | 237 | 240 |
| | Carmel Mountain Obs. 3 | DUBLB2_6CMR001 - 3 | 880.8 | 4202 | 0.2% | 9 | 31.2% | 3 | 0.6% | Continue preserve stewardship | 242 | 245 |
| | Crest Canyon North | DUBLB2_7CRCA003 - 1 | 186.1 | 2330 | 1.0% | 12 | 62.0% | 5 | 4.8% | Continue preserve stewardship and continue to positively engage nearby property owners. | 247 | 250 |
| | Crest Canyon South | DUBLB2_7CRCA003 - 2 | 13.8 | 50 | 0.2% | 16 | 36.8% | 2 | 0.4% | Continue preserve stewardship | 252 | 255 |
| | | | | | | | | | | | | |
| <i>Dudleya variegata</i> (Variegated Dudleya) | Black Mountain East | DUVA_6BMRA020 - 1 | 0.0 | 0 | 0.0% | 13 | 39.4% | 4 | 59.2% | Continue preserve stewardship | 258 | 261 |
| | East Elliott - Hilltop | DUVA_4EAEL012 - 1 | 35.96 | 33 | 0.0% | 16 | 50.6% | 2 | 1.2% | Continue preserve stewardship | 263 | 266 |
| | East Elliott - Creek | DUVA_4EAEL012 - 2 | 0.0 | 0 | 0.0% | 17 | 53.0% | 8 | 25.3% | Continue preserve stewardship and perform weed control for invasive grasses as funding permits | 268 | 271 |
| | Goat Mesa (Spring Canyon) | DUVA_3GOME003 - 1 | 72.3 | 85 | 0.2% | 11 | 41.0% | 4 | 1.6% | Continue preserve stewardship | 273 | 276 |
| | Marron Valley | DUVA_3MAVA004 - 1 | 286.5 | 8789 | 0.2% | 10 | 8.4% | 4 | 75.4% | Continue preserve stewardship | 278 | 281 |

City of San Diego MSCP Rare Plant Monitoring: 2018 Summary Results

| Species | Site Name | MSP Occurrence ID | Population | | | Native | | Non-Native | | Management Recommendations | Field Data Sht (pg.#) | Photo (pg. #) |
|--|--|--------------------|-------------------------------------|---|--------------------------------|--------------------------------|----------------------------|-------------------|----------------------------|---|-----------------------|---------------|
| | | | Area (m ²) ¹ | # Individuals in current maximum extent | Percent cover in sampling area | Number of Species ² | Percent Cover ² | Number of Species | Percent Cover ³ | | | |
| <i>Dudleya variegata</i> (Variegated Dudleya) | Mercy Road | DUVA_4MERO014 - 1 | 82.8 | 319 | 0.2% | 26.2 | 26.2% | 6 | 14.4% | Continue preserve stewardship | 283 | 286 |
| | Mission Trails #1 | DUVA_4MTRP015 - 1 | 36.1 | 129 | 0.2% | 14 | 39.4% | 4 | 16.2% | Survey site for additional <i>Melinis repens</i> and treat as needed | 288 | 291 |
| | Mission Trails #2 | DUVA_4MTRP015 - 2 | 138.1 | 302 | 0.2% | 14 | 28.8% | 6 | 55.6% | Continue preserve stewardship and perform weed control for erosion and brachypodium | 293 | 296 |
| | Mission Trails #3 | DUVA_4MTRP015 - 3 | 23.7 | 118 | 0.2% | 17 | 35.0% | 9 | 45.0% | Continue preserve stewardship, look into feasibility of weed control at this site | 298 | 301 |
| | Navajo/Mission Gorge | DUVA_4NAVA016 - 1 | 14.3 | 176 | 0.2% | 13 | 55.8% | 9 | 16.6% | Continue preserve stewardship and targeted weed control efforts | 303 | 306 |
| | Otay Lakes | DUVA_3OTLA005 - 1 | 184.1 | 787 | 0.0% | 8 | 7.2% | 4 | 42.4% | Continue preserve stewardship | 308 | 311 |
| | Santa Luz | DUVA_6SALU024 - 1 | 0.0 | 0 | 0.0% | 12 | 13.8% | 4 | 20.2% | Continue preserve stewardship | 313 | 316 |
| <i>Erysimum ammophilum</i> (Coast Wallflower) | North City West Open Space (Overlook Park) | ERAM4_6DEMA001 - 1 | 78.6 | 190 | 0.2% | 17 | 71.2% | 2 | 4.2% | Treat tree tobacco | 320 | 323 |
| | Gonzales Canyon | ERAM4_6GOCA003 - 1 | 26.3 | 39 | 0.2% | 15 | 52.0% | 2 | 3.2% | Continue preserve stewardship | 325 | 328 |

City of San Diego MSCP Rare Plant Monitoring: 2018 Summary Results

| Species | Site Name | MSP Occurrence ID | Population | | | Native | | Non-Native | | Management Recommendations | Field Data Sht (pg.#) | Photo (pg. #) |
|--|--------------------------------|--------------------|-------------------------------------|---|--------------------------------|--------------------------------|----------------------------|-------------------|----------------------------|---|-----------------------|---------------|
| | | | Area (m ²) ¹ | # Individuals in current maximum extent | Percent cover in sampling area | Number of Species ² | Percent Cover ² | Number of Species | Percent Cover ³ | | | |
| <i>Erysimum amphilum</i> (Coast Wallflower) | Crest Canyon | ERAM4_7CRCA002 - 1 | 0 | 0 | 0.0% | 15 | 30.8% | 2 | 15.2% | Weed treatments recommended to control the spread of Ehrharta grass. | 330 | 333 |
| | | | | | | | | | | | | |
| <i>Monardella stoneana</i> ³ (Jennifer's Monardella) | Marron Valley | MOST_3MAVA002 - 1 | 188.4 | 51 | 0.2% | 20 | 35.2% | 7 | 16.8% | Continue preserve stewardship | 336 | 339 |
| | Otay Lakes | MOST_3OTLA005 - 1 | 0.0 | 0 | 0.0% | 14 | 26.6% | 9 | 28.2% | Continue preserve stewardship | 341 | 344 |
| | | | | | | | | | | | | |
| <i>Monardella viminea</i> (Willow Mondardella) | Flanders Canyon | MOLIV_6FLCA007 - 1 | 314.2 | 73 | 4.0% | 7 | 63.4% | 2 | 5.0% | Continue preserve stewardship and control weeds as funding permits | 347 | 350 |
| | Lopez Canyon West Terrace #1 | MOLIV_6LOCA004 - 1 | 0.0 | 0 | 0.0% | 14 | 48.8% | 16 | 32.6% | Continue preserve stewardship and implement weed control as funding permits | 352 | 355 |
| | Lopez Canyon East of Bridge #2 | MOLIV_6LOCA004 - 2 | 54.4 | 6 | 0.2% | 11 | 39.8% | 12 | 50.6% | Continue preserve stewardship and weed control as funding permits | 357 | 360 |
| | Lopez Canyon East of Bridge #3 | MOLIV_6LOCA004 - 3 | 0.7 | 3 | 0.2% | 13 | 53.4% | 17 | 9.6% | Continue preserve stewardship and weed control as funding permits | 362 | 365 |
| | Sycamore Canyon | MOLIV_4SYCA001 - 1 | 178.0 | 52 | 1.0% | 15 | 35.0% | 11 | 26.0% | Continue preserve stewardship and investigate feasibility of restoration actions to help stabilize stream channel | 367 | 370 |
| | | | | | | | | | | | | |

City of San Diego MSCP Rare Plant Monitoring: 2018 Summary Results

| Species | Site Name | MSP Occurrence ID | Population | | | Native | | Non-Native | | Management Recommendations | Field Data Sht (pg.#) | Photo (pg. #) |
|---|---------------|---------------------|-------------------------------------|---|--------------------------------|--------------------------------|----------------------------|-------------------|----------------------------|-------------------------------|-----------------------|---------------|
| | | | Area (m ²) ¹ | # Individuals in current maximum extent | Percent cover in sampling area | Number of Species ² | Percent Cover ² | Number of Species | Percent Cover ³ | | | |
| <i>Rosa minutifolia</i> (Small-leaved Rose) | Dennery Ranch | ROMI80_3DENC001 - 1 | 228.3 | 14 | 0.2% | 13 | 36.4% | 13 | 28.6% | Continue preserve stewardship | 373 | n/a |
| 1) Current Mapped Extent | | | | | | | | | | | | |
| 2) Number and percent cover of native species includes species of interest. | | | | | | | | | | | | |
| 3) Elvin.M.A and Sanders, S.C. (2003) A New Species of Monardella (Lamiaceae) from Baja California, Mexico, and Southern California, United States. Novon. 13:4. 425432 | | | | | | | | | | | | |
| * Photopoint locations within the same large continuous polygon mapped as current mapped extent | | | | | | | | | | | | |
| † No data collected | | | | | | | | | | | | |

Acanthomintha ilicifolia
San Diego Thorn-Mint



© City of San Diego 2015

ACIL_6BLMO032-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

MSP - RARE PLANT MONITORING DATA

V. ASSOCIATED SPECIES

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 8 |
| Acmispon wrangelianus - Chilean trefoil | Native | Annual | Herb | 0.2 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 1 |
| Avena barbata - slender oat | Nonnative | Annual | Grass | 0.2 |
| Brachypodium distachyon - purple false brome | Nonnative | Annual | Grass | 55 |
| Calystegia macrostegia - island false bindweed | Native | Perennial | Herb | 0.2 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Chorizanthe fimbriata - fringed spineflower | Native | Annual | Herb | 0.2 |
| Convolvulus simulans - field bindweed | Native | Annual | Herb | 0.2 |
| Corethrogyne filaginifolia - California sandaster | Native | Perennial | Herb | 0.2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Dichelostemma capitatum - bluedicks | Native | Perennial | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 0.2 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Harpagonella palmeri - Palmer's grappling-hook | Native | Annual | Herb | 1 |
| Helminthotheca echioides - bristly oxtongue | Nonnative | Annual | Herb | 0.2 |
| Lysimachia arvensis - scarlet pimpernel | Nonnative | Annual | Herb | 0.2 |
| Opuntia littoralis - coastal pricklypear | Native | Perennial | Shrub | 1 |
| Phalaris minor - littleseed canarygrass | Nonnative | Annual | Grass | 0.2 |
| Plantago erecta - California plantain | Native | Annual | Herb | 0.2 |
| Plantago rhodosperma - redseed plantain | Native | Annual | Herb | 0.2 |
| Salsola tragus - prickly Russian thistle | Nonnative | Annual | Herb | 0.2 |
| Salvia mellifera - black sage | Native | Perennial | Shrub | 1 |
| Sonchus asper - spiny sowthistle | Nonnative | Annual | Herb | 0.2 |
| Sonchus oleraceus - common sowthistle | Nonnative | Annual | Herb | 0.2 |

ACIL_6BLM0032-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="4"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="6"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="7"/> | if present, describe: <input type="text" value="Targeted herbicide treatments and dethatching as part of invasive species removal effort."/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Acanthomintha ilicifolia* (San Diego Thornmint)**
Black Mountain

MSP Occurrence ID: ACIL_6BLMO032-1

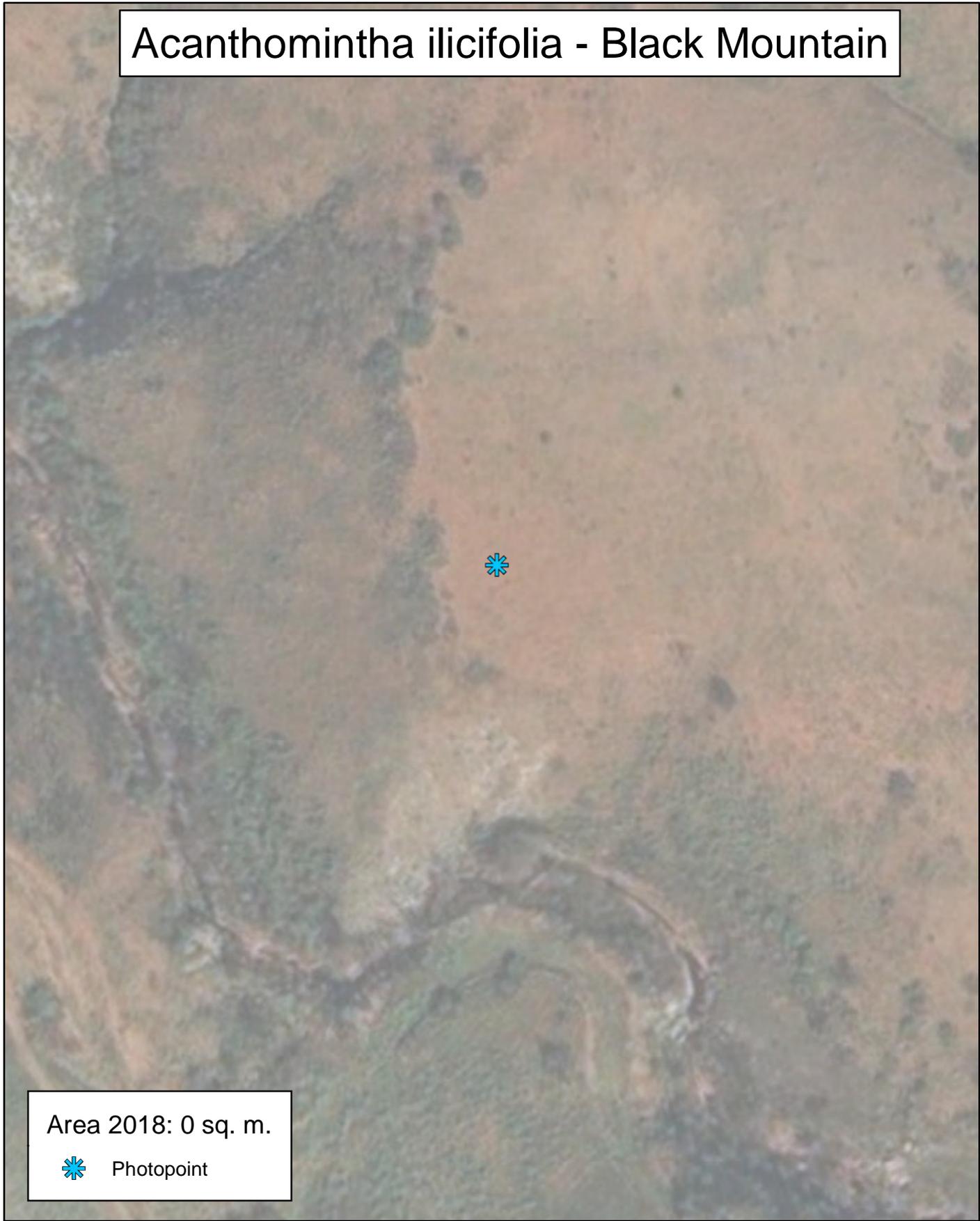


Panorama from Southwestern edge of population, facing North, Northeast, East, Southeast.

Panorama location is 6284663.39 1946643.29 NAD83 State Plane California Zone 6 (feet)

Photos merged using ArcSoft Panorama Maker 4.

Acanthomintha ilicifolia - Black Mountain

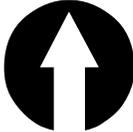


Area 2018: 0 sq. m.
* Photopoint

Pop. Area 2003 - 2018
Max Area: 56.496 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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ACIL_3DREA005-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

ACIL_3DREA005-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Ambrosia chenopodiifolia - San Diego bur ragweed | Native | Perennial | Shrub | 0.2 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 1 |
| Brassica nigra - black mustard | Nonnative | Annual | Herb | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 1 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Cylindropuntia prolifera - coastal cholla | Native | Perennial | Shrub | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 0.2 |
| Lysimachia arvensis - scarlet pimpernel | Nonnative | Annual | Herb | 0.2 |
| Peritoma arborea - bladderpod spiderflower | Native | Perennial | Shrub | 0.2 |
| Simmondsia chinensis - jojoba | Native | Perennial | Shrub | 13 |
| Sonchus asper - spiny sowthistle | Nonnative | Annual | Herb | 0.2 |

ACIL_3DREA005-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="7"/> | if present, describe: <input type="text" value="Targeted herbicide treatments and dethatching as part of invasive species removal effort."/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Acanthomintha ilicifolia* (San Diego Thornmint)**
Dennerly Ranch East
MSP Occurrence ID: ACIL_3DREA005 - 1



Acanthomintha ilicifolia - Dennergy Ranch East

Acanthomintha ilicifolia photopoint



Dicranostegia orcuttiana photopoint

Area 2018: 0 sq. m.



Photopoint

Pop. Area 2003 - 2018
Max Area: 1,005.8 sq. m.
Min Area: 0 sq. m.

0 10 20
Meters

Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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ACIL_6LPCA039-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

MSP - RARE PLANT MONITORING DATA

V. ASSOCIATED SPECIES

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|--|----------------------|----------------------|------------|---------|
| Acanthomintha ilicifolia - San Diego thornmint | Native | Annual | Herb | 0.2 |
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 0.2 |
| Acmispon wrangelianus - Chilean trefoil | Native | Annual | Herb | 2 |
| Adolphia californica - California adolphia | Native | Perennial | Shrub | 6 |
| Apiastrum angustifolium - mock parsley | Native | Annual | Herb | 0.2 |
| Brachypodium distachyon - purple false brome | Nonnative | Annual | Grass | 5 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 0.2 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 1 |
| Convolvulus simulans - field bindweed | Native | Annual | Herb | 0.2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 7 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 1 |
| Ferocactus viridescens - San Diego barrel cactus | Native | Perennial | Shrub | 0.2 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 0.2 |
| Harpagonella palmeri - Palmer's grappling-hook | Native | Annual | Herb | 0.2 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 0.2 |
| Logfia gallica - narrowleaf cottonrose | Nonnative | Annual | Herb | 0.2 |
| Lysimachia arvensis - scarlet pimpernel | Nonnative | Annual | Herb | 0.2 |
| Microseris douglasii - Douglas' silverpuffs | Native | Annual | Herb | 0.2 |
| Plantago erecta - California plantain | Native | Annual | Herb | 1 |
| Pseudognaphalium californicum - ladies' tobacco | Native | Perennial | Herb | 0.2 |
| Salvia mellifera - black sage | Native | Perennial | Shrub | 6 |
| Sonchus asper - spiny sowthistle | Nonnative | Annual | Herb | 1 |
| Stipa pulchra - purple needle grass | Native | Perennial | Grass | 0.2 |

ACIL_6LPCA039-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="7"/> | if present, describe: <input type="text" value="Targeted herbicide treatments and dethatching as part of invasive species removal effort."/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="2"/> | if trails are present, are they authorized? <input type="text"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text"/> | Biking: <input type="text"/> | Equestrian: <input type="text"/> |
| Dog: <input type="text"/> | Service Vehicles: <input type="text"/> | Other: <input type="text"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Acanthomintha ilicifolia* (San Diego Thornmint)**
Penasquitos Canyon Observation # 1
MSP Occurrence ID: ACIL_6LPCA039 - 1



Acanthomintha ilicifolia - Los Penasquitos Canyon



Point 1
Area: 15.8 sq. m.

Point 3
Area: 0 sq. m.

Point 2
Area: 3.1 sq. m.

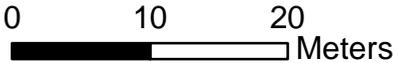
Area 2018: 18.9 sq. m.

 Photopoint

SPECIES

 Acanthomintha ilicifolia

Pop. Area 2000 - 2018
Max Area: 2062 sq. m.
Min Area: 12 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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ACIL_6LPCA039-2

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

ACIL_6LPCA039-2

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 0.2 |
| Adolphia californica - California adolphia | Native | Perennial | Shrub | 3 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 0.2 |
| Baccharis pilularis - coyotebrush | Native | Perennial | Shrub | 8 |
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 3 |
| Brachypodium distachyon - purple false brome | Nonnative | Annual | Grass | 2 |
| Brassica nigra - black mustard | Nonnative | Annual | Herb | 2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 7 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Deinandra sp. - tarplant | Native | Annual | Herb | 0.2 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 0.2 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Erodium moschatum - Musky stork's bill | Nonnative | Annual | Herb | 0.2 |
| Euphorbia peplus - petty spurge | Nonnative | Annual | Herb | 0.2 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 7 |
| Foeniculum vulgare - sweet fennel | Nonnative | Perennial | Herb | 0.2 |
| Geranium carolinianum - Carolina geranium | Native | Annual | Herb | 0.2 |
| Helminthotheca echioides - bristly oxtongue | Nonnative | Annual | Herb | 1 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 1 |
| Lactuca serriola - prickly lettuce | Nonnative | Annual | Herb | 0.2 |
| Logfia gallica - narrowleaf cottonrose | Nonnative | Annual | Herb | 0.2 |
| Lysimachia arvensis - scarlet pimpernel | Nonnative | Annual | Herb | 0.2 |
| Mellilotus indica - annual yellow sweetclover | Nonnative | Annual | Herb | 0.2 |
| Pseudognaphalium californicum - ladies' tobacco | Native | Perennial | Herb | 0.2 |
| Quercus berberidifolia - scrub oak | Native | Perennial | Tree | 9 |
| Reseda luteola - Dyer's mignonette | Nonnative | Perennial | Herb | 0.2 |
| Sonchus asper - spiny sowthistle | Nonnative | Annual | Herb | 0.2 |

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="4"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="4"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="7"/> | if present, describe: <input type="text" value="Targeted herbicide treatments and dethatching as part of invasive species removal effort."/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

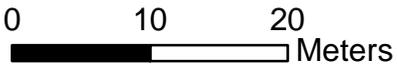
***Acanthomintha ilicifolia* (San Diego Thornmint)**
Penasquitos Canyon Observation # 2
MSP Occurrence ID: ACIL_6LPCA039 - 2



Acanthomintha ilicifolia - Los Penasquitos Canyon



Pop. Area 2000 - 2018
Max Area: 2062 sq. m.
Min Area: 12 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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ACIL_6LPCA039-3

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

ACIL_6LPCA039-3

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 0.2 |
| Acmispon wrangelianus - Chilean trefoil | Native | Annual | Herb | 0.2 |
| Adolphia californica - California adolphia | Native | Perennial | Shrub | 15 |
| Apiastrum angustifolium - mock parsley | Native | Annual | Herb | 0.2 |
| Brachypodium distachyon - purple false brome | Nonnative | Annual | Grass | 20 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Chlorogalum sp. - soap plant | Native | Perennial | Herb | 0.2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 0.2 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 0.2 |
| Heteromeles arbutifolia - toyon | Native | Perennial | Shrub | 0.2 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 1 |
| Logfia gallica - narrowleaf cottonrose | Nonnative | Annual | Herb | 0.2 |
| Plantago rhodosperma - redseed plantain | Native | Annual | Herb | 0.2 |
| Rhamnus crocea - spiny redberry | Native | Perennial | Shrub | 3 |
| Salvia mellifera - black sage | Native | Perennial | Shrub | 3 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 0.2 |
| Sonchus asper - spiny sowthistle | Nonnative | Annual | Herb | 0.2 |
| Stipa pulchra - purple needle grass | Native | Perennial | Grass | 0.2 |

ACIL_6LPCA039-3

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="4"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Acanthomintha ilicifolia* (San Diego Thornmint)**
Penasquitos Canyon Observation # 3
MSP Occurrence ID: ACIL_6LPCA039 - 3



Acanthomintha illicifolia - Los Penasquitos Canyon



Point 1
Area: 15.8 sq. m.

Point 3
Area: 0 sq. m.

Point 2
Area: 3.1 sq. m.

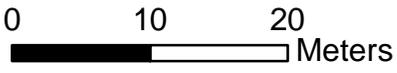
Area 2018: 18.9 sq. m.

 Photopoint

SPECIES

 Acanthomintha illicifolia

Pop. Area 2000 - 2018
Max Area: 2062 sq. m.
Min Area: 12 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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ACIL_4MTRP021-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

ACIL_4MTRP021-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|--|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 0.2 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 0.2 |
| Brachypodium distachyon - purple false brome | Nonnative | Annual | Grass | 1 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Chlorogalum sp. - soap plant | Native | Perennial | Herb | 0.2 |
| Convolvulus simulans - field bindweed | Native | Annual | Herb | 0.2 |
| Crassula connata - sand pygmyweed | Native | Annual | Herb | 0.2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Heteromeles arbutifolia - toyon | Native | Perennial | Shrub | 2 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 1 |
| Logfia gallica - narrowleaf cottonrose | Nonnative | Annual | Herb | 0.2 |
| Lysimachia arvensis - scarlet pimpernel | Nonnative | Annual | Herb | 0.2 |
| Malosma laurina - laurel sumac | Native | Perennial | Shrub | 5 |
| Opuntia littoralis - coastal pricklypear | Native | Perennial | Shrub | 2 |
| Peritoma arborea - bladderpod spiderflower | Native | Perennial | Shrub | 0.2 |
| Salvia mellifera - black sage | Native | Perennial | Shrub | 0.2 |
| Sonchus asper - spiny sowthistle | Nonnative | Annual | Herb | 0.2 |
| Stipa pulchra - purple needle grass | Native | Perennial | Grass | 0.2 |

ACIL_4MTRP021-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="4"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="4"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="7"/> | if present, describe: <input type="text"/> | |
| Brush Manangement: <input type="text" value="7"/> | if present, describe: <input type="text" value="Targeted herbicide treatments and dethatching as part of invasive species removal effort."/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="2"/> | if trails are present, are they authorized? <input type="text"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text"/> | Biking: <input type="text"/> | Equestrian: <input type="text"/> |
| Dog: <input type="text"/> | Service Vehicles: <input type="text"/> | Other: <input type="text"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="4"/> | if present, describe: <input type="text"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Acanthomintha ilicifolia* (San Diego Thornmint)**
Mission Trails Regional Park
MSP Occurrence ID: ACIL_MTRP021 - 1



Acanthomintha illicifolia - Mission Trails Regional Park



Area 2018: 171.7 sq. m.

 Photopoint

SPECIES

 Acanthomintha illicifolia

Pop. Area 2001 - 2018
Max Area: 1206.07 sq. m.
Min Area: 8.17 sq. m.

0 10 20
 Meters

Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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ACIL_30TLA012-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

ACIL_30TLA012-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|--|----------------------|----------------------|------------|---------|
| <i>Acmispon glaber</i> - deerweed | Native | Perennial | Shrub | 0.2 |
| <i>Bromus hordeaceus</i> - soft brome | Nonnative | Annual | Grass | 0.2 |
| <i>Bromus madritensis</i> - compact brome | Nonnative | Annual | Grass | 2 |
| <i>Chlorogalum pomeridianum</i> - soap plant | Native | Perennial | Herb | 0.2 |
| <i>Cressa truxillensis</i> - spreading alkaliweed | Native | Perennial | Herb | 0.2 |
| <i>Deinandra fasciculata</i> - clustered tarweed | Native | Annual | Herb | 0.2 |
| <i>Dudleya variegata</i> - Variegated dudleya | Native | Perennial | Herb | 0.2 |
| <i>Eriogonum fasciculatum</i> - Eastern Mojave buckwheat | Native | Perennial | Shrub | 1 |
| <i>Erodium botrys</i> - longbeak stork's bill | Nonnative | Annual | Herb | 65 |
| <i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button celery | Native | Annual | Herb | 0.2 |
| <i>Hordeum murinum</i> - mouse barley | Nonnative | Annual | Grass | 0.2 |
| <i>Isocoma menziesii</i> - Menzies' goldenbush | Native | Perennial | Shrub | 1 |
| <i>Plantago erecta</i> - California plantain | Native | Annual | Herb | 0.2 |
| <i>Sisyrinchium bellum</i> - Western blue-eyed grass | Native | Perennial | Herb | 0.2 |

ACIL_30TLA012-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="6"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Acanthomintha ilicifolia* (San Diego Thornmint)**
Otay Lakes

MSP Occurrence ID: ACIL_3OTLA012 - 1



Acanthomintha ilicifolia - Otay Lakes

Acanthomintha ilicifolia photopoint



Bloomeria clevelandii photopoint

Area 2018: 0 sq. m.

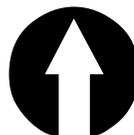


Photopoint

Pop. Area 2003 - 2018
Max Area: 10.7 sq. m.
Min Area: 0 sq. m.

0 25 50
Meters

Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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ACIL_4SASP025-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

ACIL_4SASP025-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 0.2 |
| Adolphia californica - California adolphia | Native | Perennial | Shrub | 3 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 0.2 |
| Baccharis pilularis - coyotebrush | Native | Perennial | Shrub | 8 |
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 3 |
| Brachypodium distachyon - purple false brome | Nonnative | Annual | Grass | 2 |
| Brassica nigra - black mustard | Nonnative | Annual | Herb | 2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 7 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 0.2 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Erodium moschatum - Musky stork's bill | Nonnative | Annual | Herb | 0.2 |
| Euphorbia peplus - petty spurge | Nonnative | Annual | Herb | 0.2 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 7 |
| Foeniculum vulgare - sweet fennel | Nonnative | Perennial | Herb | 0.2 |
| Geranium carolinianum - Carolina geranium | Native | Annual | Herb | 0.2 |
| Helminthotheca echioides - bristly oxtongue | Nonnative | Annual | Herb | 1 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 1 |
| Lactuca serriola - prickly lettuce | Nonnative | Annual | Herb | 0.2 |
| Logfia gallica - narrowleaf cottonrose | Nonnative | Annual | Herb | 0.2 |
| Lysimachia arvensis - scarlet pimpernel | Nonnative | Annual | Herb | 0.2 |
| Mellilotus albus - white sweetclover | Nonnative | Annual | Herb | 0.2 |
| Pseudognaphalium californicum - ladies' tobacco | Native | Perennial | Herb | 0.2 |
| Quercus berberidifolia - scrub oak | Native | Perennial | Tree | 9 |
| Reseda luteola - Dyer's mignonette | Nonnative | Perennial | Herb | 0.2 |
| Sonchus asper - spiny sowthistle | Nonnative | Annual | Herb | 0.2 |

ACIL_4SASP025-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="4"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="4"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="7"/> | if present, describe: <input type="text" value="Targeted herbicide treatments and dethatching as part of invasive species removal effort."/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Acanthomintha ilicifolia* (San Diego Thornmint) Sabre Springs East Subpopulation # 1**

MSP Occurrence ID: ACIL_4SASP025 - 1



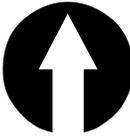
Acanthomintha ilicifolia - Sabre Springs



Pop. Area 2006 - 2018
Max Area: 282.1 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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ACIL_4SASP025-2

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

ACIL_4SASP025-2

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|--|----------------------|----------------------|------------|---------|
| Adolphia californica - California adolphia | Native | Perennial | Shrub | 5 |
| Apiastrum angustifolium - mock parsley | Native | Annual | Herb | 0.2 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 0.2 |
| Avena barbata - slender oat | Nonnative | Annual | Grass | 0.2 |
| Baccharis pilularis - coyotebrush | Native | Perennial | Shrub | 3 |
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 2 |
| Brachypodium distachyon - purple false brome | Nonnative | Annual | Grass | 3 |
| Brassica nigra - black mustard | Nonnative | Annual | Herb | 1 |
| Bromus diandrus - ripgut brome | Nonnative | Annual | Grass | 0.2 |
| Bromus hordeaceus - soft brome | Nonnative | Annual | Grass | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 2 |
| Convolvulus simulans - field bindweed | Native | Annual | Herb | 1 |
| Cuscuta occidentalis - chaparral dodder | Native | Annual | Herb | 0.2 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 1 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Erodium moschatum - Musky stork's bill | Nonnative | Annual | Herb | 0.2 |
| Euphorbia peplus - petty spurge | Nonnative | Annual | Herb | 0.2 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 0.2 |
| Galium angustifolium - narrowleaf bedstraw | Native | Perennial | Herb | 0.2 |
| Geranium carolinianum - Carolina geranium | Native | Annual | Herb | 0.2 |
| Helminthotheca echioides - bristly oxtongue | Nonnative | Annual | Herb | 4 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 1 |
| Lactuca serriola - prickly lettuce | Nonnative | Annual | Herb | 0.2 |
| Lysimachia arvensis - scarlet pimpernel | Nonnative | Annual | Herb | 1 |
| Opuntia littoralis - coastal pricklypear | Native | Perennial | Shrub | 0.2 |
| Rumex crispus - curly dock | Nonnative | Perennial | Herb | 0.2 |

ACIL_4SASP025-2

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="4"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="7"/> | if present, describe: <input type="text" value="Targeted herbicide treatments and dethatching as part of invasive species removal effort."/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Acanthomintha ilicifolia* (San Diego Thornmint)**
Sabre Springs West Flat Subpopulation # 2
MSP Occurrence ID: ACIL_4SASP025 - 2



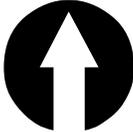
Acanthomintha ilicifolia - Sabre Springs



Pop. Area 2006 - 2018
Max Area: 282.1 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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ACIL_4SASP025-3

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

ACIL_4SASP025-3

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|--|----------------------|----------------------|------------|---------|
| Adolphia californica - California adolphia | Native | Perennial | Shrub | 6 |
| Apiastrum angustifolium - mock parsley | Native | Annual | Herb | 0.2 |
| Baccharis pilularis - coyotebrush | Native | Perennial | Shrub | 0.2 |
| Convolvulus simulans - field bindweed | Native | Annual | Herb | 1 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Euphorbia peplus - petty spurge | Nonnative | Annual | Herb | 0.2 |
| Helminthotheca echioides - bristly oxtongue | Nonnative | Annual | Herb | 8 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 0.2 |
| Lysimachia arvensis - scarlet pimpernel | Nonnative | Annual | Herb | 0.2 |
| Marah macrocarpus - Cucamonga manroot | Native | Perennial | Herb | 0.2 |
| Quercus berberidifolia - scrub oak | Native | Perennial | Tree | 6 |
| Sonchus asper - spiny sowthistle | Nonnative | Annual | Herb | 0.2 |
| Stachys sp. - hedgenettle | Native | Perennial | Herb | 0.2 |
| Stipa pulchra - purple needle grass | Native | Perennial | Grass | 0.2 |
| Toxicoscordion venenosum - meadow deathcamas | Native | Perennial | Herb | 0.2 |

ACIL_4SASP025-3

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="4"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Acanthomintha ilicifolia* (San Diego Thornmint)**
Sabre Springs Southern Subpopulation # 3
MSP Occurrence ID: ACIL_4SASP025 - 3



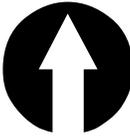
Acanthomintha ilicifolia - Sabre Springs



Pop. Area 2006 - 2018
Max Area: 282.1 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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Acmispon prostratus
Nuttall's Lotus



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ACPR_1DUTR005-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

ACPR_1DUTR005-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Brassica tournefortii - Asian mustard | Nonnative | Annual | Herb | 0.2 |
| Encelia californica - California brittlebush | Native | Perennial | Shrub | 55 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Heliotropium curassavicum - salt heliotrope | Native | Perennial | Herb | 0.2 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 4 |
| Lepidium nitidum - shining pepperweed | Native | Annual | Herb | 0.2 |
| Mellilotus indica - annual yellow sweetclover | Nonnative | Annual | Herb | 0.2 |
| Oncosiphon piluliferum - stinknet | Nonnative | Annual | Herb | 0.2 |
| Salsola tragus - prickly Russian thistle | Nonnative | Annual | Herb | 0.2 |

ACPR_1DUTR005-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="2"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="2"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="3"/> | if trails are present, are they authorized? <input type="text"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text"/> | Biking: <input type="text"/> | Equestrian: <input type="text"/> |
| Dog: <input type="text"/> | Service Vehicles: <input type="text"/> | Other: <input type="text"/> |
| Illegal Trail Use: <input type="text"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

Continue preserve stewardship and perform weed control as funding is available

VII. MANAGEMENT ACTIONS IN LAST YEAR

Preserve stewardship

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

none

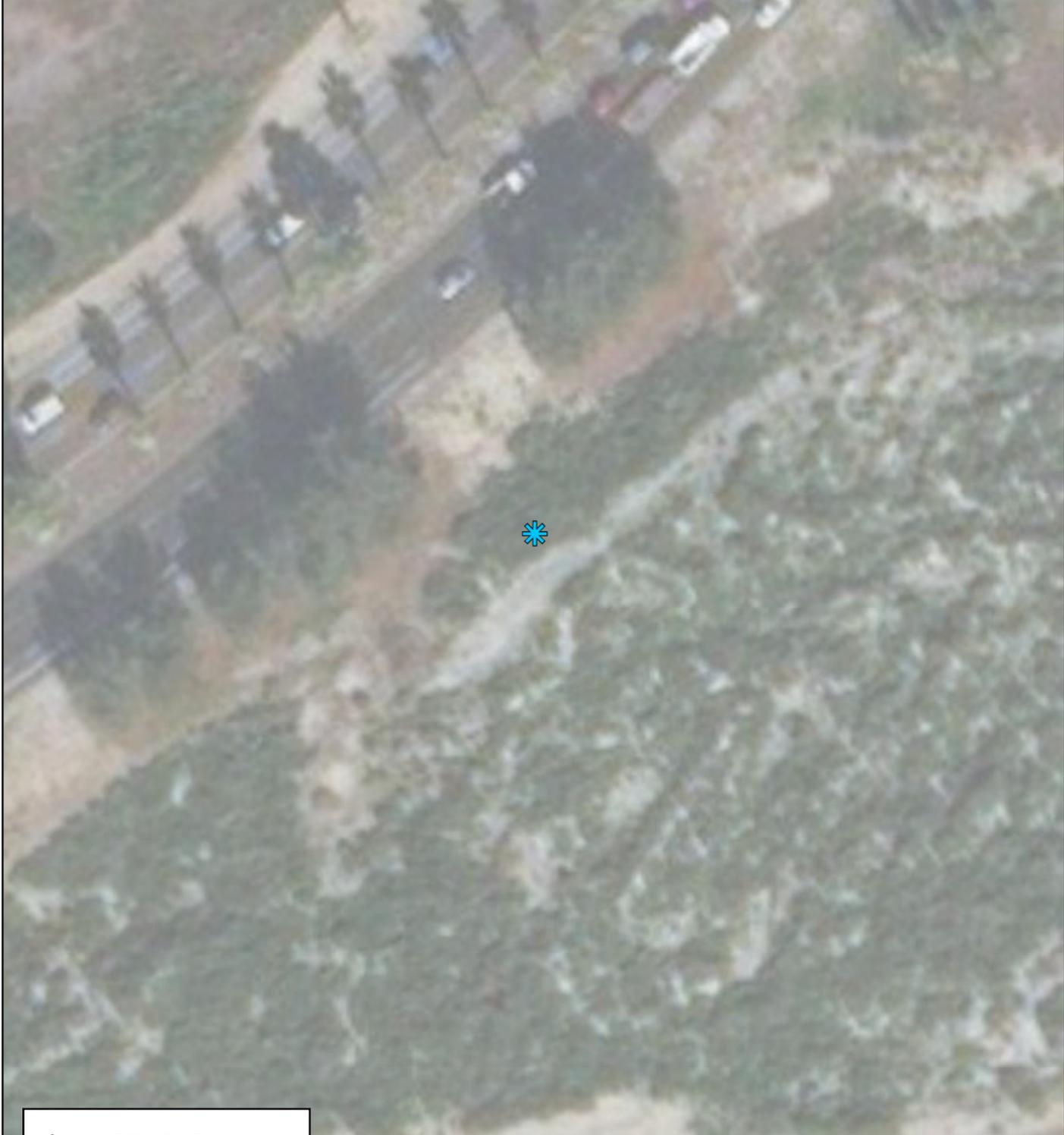
NOTES:

Photos 0850 -0855, photo at center

***Acmispon prostratus* (Nuttall's Acmispon)**
Mission Bay – Dune Triangle Site # 1
MSP Occurrence ID: ACPR_1DUTR005 - 1



Acmispon Prostratus - Dune Triangle, Mission Bay



Area 2018: 0 sq. m.

 Photopoint

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Pop. Area 2006 - 2018
Max Area: 725.15 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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ACPR_1HOPO002-2

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

MSP - RARE PLANT MONITORING DATA

V. ASSOCIATED SPECIES

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Abronia umbellata - pink sand verbena | Native | Perennial | Herb | 2 |
| Acmispon prostratus - Nuttall's acmispon | Native | Annual | Herb | 15 |
| Bromus diandrus - ripgut brome | Nonnative | Annual | Grass | 20 |
| Camissoniopsis cheiranthifolia - beach suncup | Native | Perennial | Herb | 12 |
| Digitaria sanguinalis - hairy crabgrass | Nonnative | Annual | Grass | 7 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Salsola tragus - prickly Russian thistle | Nonnative | Annual | Herb | 0.2 |

ACPR_1HOPO002-2

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="5"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="7"/> | if present, describe: <input type="text" value="Restoration and weed control as funding permits"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="4"/> | if trails are present, are they authorized? <input type="text"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text"/> | Biking: <input type="text"/> | Equestrian: <input type="text"/> |
| Dog: <input type="text"/> | Service Vehicles: <input type="text"/> | Other: <input type="text"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Acmispon prostratus* (Nuttall's Acmispon)**
Mission Bay – Hospitality Point Site # 2
MSP Occurrence ID: ACPR_1HOPO002 - 2



Acmispon Prostratus - Hospitality Point, Mission Bay



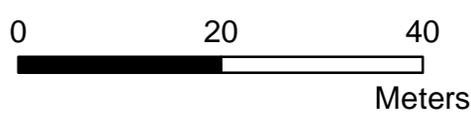
Area 2018: 3308.2

 Photopoint

SPECIES

 Acmispon prostratus

Pop. Area 2006 - 2018
Max Area: 5505.4 sq. m.
Min Area: 16220 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017

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ACPR_1MAPO004-4

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

ACPR_1MAPO004-4

2018

MSP - RARE PLANT MONITORING DATA

V. ASSOCIATED SPECIES

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Abronia umbellata - pink sand verbena | Native | Perennial | Herb | 15 |
| Acmispon prostratus - Nuttall's acmispon | Native | Annual | Herb | 18 |
| Ambrosia chamissonis - silver bur ragweed | Native | Perennial | Herb | 20 |
| Camissoniopsis cheiranthifolia - beach suncup | Native | Perennial | Herb | 15 |

ACPR_1MAPO004-4

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="7"/> | if present, describe: <input type="text" value="San Diego Audubon hosted volunteer events to remove iceplant and other nonnatives."/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Acmispon prostratus* (Nuttall's Acmispon)**
Mission Bay – Mariners Point Site
MSP Occurrence ID: ACPR_1MAPO004-4



Panorama from Northern edge of population, facing Southeast, South, Southwest.
Panorama location is 6255570.10 1857963.18 NAD83 State Plane California Zone 6 (feet)
Photos merged using ArcSoft Panorama Maker 4.

ACPR_1NMLA001-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:
 Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:
 Land Owner: Land Manager:
 Preserve Name: Occurrence Name:
 Surveyors: Other Surveyors:
 Affiliation:
 Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:
 Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim
 Current Extent Mapping Method: Species Found in Max Extent
 If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):
 Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:
 Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:
 Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:
 Coordinates at Center of Plot: E: N:
 Camera Type: Coordinates of Photo Point: E: N:
 Photo Direction: Camera Height: Camera Angle Photo Numbers:
 File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:
 Total % Cover:
 SANDAG 2012 Vegetation Alliance/Association
 Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:
 Average Thatch Depth (cm): Thatch Depth Max (cm):
 Dead Standing Biomass? Dead Standing Biomass Species:
 Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):
 Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

ACPR_1NMLA001-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|--|----------------------|----------------------|------------|---------|
| Acmispon prostratus - Nuttall's acmispon | Native | Annual | Herb | 6 |
| Avena barbata - slender oat | Nonnative | Annual | Grass | 0.2 |
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 1 |
| Brassica tournefortii - Asian mustard | Nonnative | Annual | Herb | 16 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 0.2 |
| Camissoniopsis cheiranthifolia - beach suncup | Native | Perennial | Herb | 40 |
| Erigeron canadensis - Canada horseweed | Native | Annual | Herb | 0.2 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 2 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Erodium moschatum - Musky stork's bill | Nonnative | Annual | Herb | 0.2 |
| Glebionis coronaria - crown daisy | Nonnative | Annual | Herb | 0.2 |
| Heliotropium curassavicum - salt heliotrope | Native | Perennial | Herb | 0.2 |
| Heterotheca grandiflora - telegraphweed | Native | Annual | Herb | 0.2 |
| Stephanomeria diegensis - San Diego milk aster | Native | Annual | Herb | 0.2 |

ACPR_1NMLA001-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="5"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="3"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="3"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="5"/> | if present, describe: <input type="text" value="San Diego Audubon hosted volunteer events to remove iceplant and other nonnatives."/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="2"/> | if trails are present, are they authorized? <input type="text"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text"/> | Biking: <input type="text"/> | Equestrian: <input type="text"/> |
| Dog: <input type="text"/> | Service Vehicles: <input type="text"/> | Other: <input type="text"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Acmispon prostratus* (Nuttall's Acmispon)**
Mission Bay – No Man's Land Site #1
MSP Occurrence ID: ACPR_1NMLA001 - 1



Acmispon Prostratus - No Man's Land, Mission Bay



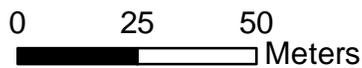
Area 2018: 1502.3 sq. m.

 Photopoint

SPECIES

 Acmispon prostratus

Pop. Area 2003 - 2018
Max Area: 44032.65 sq. m.
Min Area: 2 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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ACPR_1RRSO003-3

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

ACPR_1RRS0003-3

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| <i>Brassica tournefortii</i> - Asian mustard | Nonnative | Annual | Herb | 1 |
| <i>Bromus diandrus</i> - ripgut brome | Nonnative | Annual | Grass | 1 |
| <i>Cuscuta pacifica</i> - saltmarsh dodder | Native | Annual | Herb | 0.2 |
| <i>Distichlis spicata</i> - saltgrass | Native | Perennial | Grass | 5 |
| <i>Frankenia salina</i> - alkali seaheath | Native | Perennial | Herb | 4 |
| <i>Glebionis coronaria</i> - crown daisy | Nonnative | Annual | Herb | 1 |
| <i>Heterotheca grandiflora</i> - telegraphweed | Native | Annual | Herb | 0.2 |
| <i>Jaumea carnosa</i> - marsh jaumea | Native | Perennial | Herb | 0.2 |
| <i>Limonium duriusculum</i> - European sea lavender | Nonnative | Perennial | Herb | 0.2 |
| <i>Malva parviflora</i> - cheeseweed mallow | Nonnative | Annual | Herb | 0.2 |
| <i>Mellilotus indica</i> - annual yellow sweetclover | Nonnative | Annual | Herb | 0.2 |
| <i>Pennisetum setaceum</i> - crimson fountaingrass | Nonnative | Perennial | Grass | 33 |
| <i>Salicornia pacifica</i> - glasswort | Native | Perennial | Herb | 1 |
| <i>Salsola tragus</i> - prickly Russian thistle | Nonnative | Annual | Herb | 0.2 |
| <i>Schismus barbatus</i> - common Mediterranean grass | Nonnative | Annual | Grass | 0.2 |
| <i>Suaeda esteroa</i> - estuary seablite | Native | Perennial | Herb | 0.2 |
| <i>Tribulus terrestris</i> - puncture vine | Nonnative | Annual | Herb | 0.2 |

ACPR_1RRSO003-3

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="7"/> |
| Nonnative Grass: <input type="text" value="5"/> | Trampling: <input type="text" value="3"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="2"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="3"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="4"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="2"/> | if trails are present, are they authorized? <input type="text"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text"/> | Biking: <input type="text"/> | Equestrian: <input type="text"/> |
| Dog: <input type="text"/> | Service Vehicles: <input type="text"/> | Other: <input type="text"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Acmispon prostratus* (Nuttall's Acmispon)**

Mission Bay – Rip Rap Site #3

MSP Occurrence ID: ACPR_1RRSO003 - 3



Panorama from Southern edge of population, facing Southwest, West, Northwest.
Panorama location is 6258823.558 1857305.759 NAD83 State Plane California Zone 6 (feet)
Photos merged using ArcSoft Panorama Maker 4.

Acmispon Prostratus - Rip Rap, Mission Bay



Hospitality Point photopoint

Rip Rap photopoint

Area 2018: 354.8 sq. m.

 Photopoint

Species

 Acmispon prostratus

Pop. Area 2008 - 2018
 Max Area: 10,774.29 sq. m.
 Min Area: 70.41 sq. m.



Source: San GIS & City of San Diego Park & Rec
 Map Created By: Priscilla Hare 2017



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ACPR_1SOSH006-6

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

ACPR_1SOSH006-6

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 7 |
| Brassica tournefortii - Asian mustard | Nonnative | Annual | Herb | 7 |
| Carpobrotus edulis - hottentot fig | Nonnative | Perennial | Herb | 35 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Glebionis coronaria - crown daisy | Nonnative | Annual | Herb | 7 |
| Heliotropium curassavicum - salt heliotrope | Native | Perennial | Herb | 0.2 |
| Lepidium nitidum - shining pepperweed | Native | Annual | Herb | 0.2 |

ACPR_1SOSH006-6

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="6"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="2"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="2"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="5"/> | if present, describe: <input type="text" value="San Diego Audubon hosted volunteer events to remove iceplant and other nonnatives."/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="2"/> | if trails are present, are they authorized? <input type="text"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text"/> | Biking: <input type="text"/> | Equestrian: <input type="text"/> |
| Dog: <input type="text"/> | Service Vehicles: <input type="text"/> | Other: <input type="text"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Acmispon prostratus* (Nuttall's Acmispon)**
Mission Bay – South Shores Site # 6

MSP Occurrence ID: ACPR_1SOSH006 - 6



Acmispon Prostratus - South Shores, Mission Bay



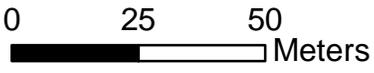
Area 2018: 426.7 sq. m.

 Photopoint

SPECIES

 Acmispon prostratus

Pop. Area 2001 - 2018
Max Area: 15,970.4 sq. m.
Min Area: 15.6 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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Ambrosia pumila
San Diego Ambrosia



© City of San Diego 2015

AMPU_4KULA005-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

AMPU_4KULA005-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon micranthus - San Diego bird's-foot trefoil | Native | Annual | Herb | 0.2 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 0.2 |
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 0.2 |
| Brassica nigra - black mustard | Nonnative | Annual | Herb | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 0.2 |
| Camissoniopsis bistorta - southern suncup | Native | Annual | Herb | 0.2 |
| Distichlis spicata - saltgrass | Native | Perennial | Grass | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 20 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 22 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 0.2 |
| Nuttallanthus texanus - Texas toadflax | Native | Annual | Herb | 12 |
| Pseudognaphalium beneolens - cudweed | Native | Perennial | Herb | 0.2 |
| Pseudognaphalium californicum - ladies' tobacco | Native | Perennial | Herb | 5 |
| Sonchus asper - spiny sowthistle | Nonnative | Annual | Herb | 0.2 |

AMPU_4KULA005-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="5"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="5"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:
 Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Ambrosia pumila* (San Diego Ragweed)**
Mission Trails Regional Park - Kumeyaay Lake
MSP Occurrence ID: AMPU_4KULA005-1



Ambrosia pumila - Mission Trails Regional Park Kumeyaay Lake



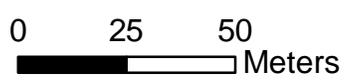
Area 2018: 6,355.7 sq. m.

 Photopoint

SPECIES

 Ambrosia pumila

Pop. Area 1998 - 2018
 Max Area: 16,809.01 sq. m.
 Min Area: 5,276.08 sq. m.



Source: San GIS & City of San Diego Park & Rec
 Map Created By: Priscilla Hare 2017



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Bloomeria clevelandii
San Diego Goldenstar



© City of San Diego, 2015

BLCL_4EAEL014-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

BLCL_4EAEL014-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 4 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 6 |
| Avena barbata - slender oat | Nonnative | Annual | Grass | 0.2 |
| Bloomeria clevelandii - San Diego goldenstar | Native | Perennial | Herb | 0.2 |
| Brachypodium distachyon - purple false brome | Nonnative | Annual | Grass | 35 |
| Bromus hordeaceus - soft brome | Nonnative | Annual | Grass | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 20 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 2 |
| Corethrogyne filaginifolia - California sandaster | Native | Perennial | Herb | 0.2 |
| Crassula connata - sand pygmyweed | Native | Annual | Herb | 2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Dichondra occidentalis - western ponysfoot | Native | Perennial | Herb | 0.2 |
| Diplacus aurantiacus var. Aurantiacus - sticky monkeyflower | Native | Perennial | Shrub | 1 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 1 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 0.2 |
| Galium angustifolium - narrowleaf bedstraw | Native | Perennial | Herb | 2 |
| Hypochaeris glabra - smooth cat's ear | Nonnative | Annual | Herb | 0.2 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 0.2 |
| Lonicera subspicata - southern honeysuckle | Nonnative | Perennial | Shrub | 1 |
| Malosma laurina - laurel sumac | Native | Perennial | Shrub | 12 |
| Pseudognaphalium californicum - ladies' tobacco | Native | Perennial | Herb | 0.2 |
| Rhamnus crocea - spiny redberry | Native | Perennial | Shrub | 8 |
| Salvia apiana - white sage | Native | Perennial | Shrub | 3 |
| Sanicula arguta - sharp toothed snakeroot | Native | Perennial | Herb | 0.2 |
| Sisyrinchium bellum - Western blue-eyed grass | Native | Perennial | Herb | 0.2 |
| Stipa pulchra - purple needle grass | Native | Perennial | Grass | 0.2 |

BLCL_4EAEL014-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="7"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="3"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

Evaluate feasibility of BRDI treatment on steep, remote slopes

VII. MANAGEMENT ACTIONS IN LAST YEAR

Preserve stewardship, maintained trail closures

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

none

NOTES:

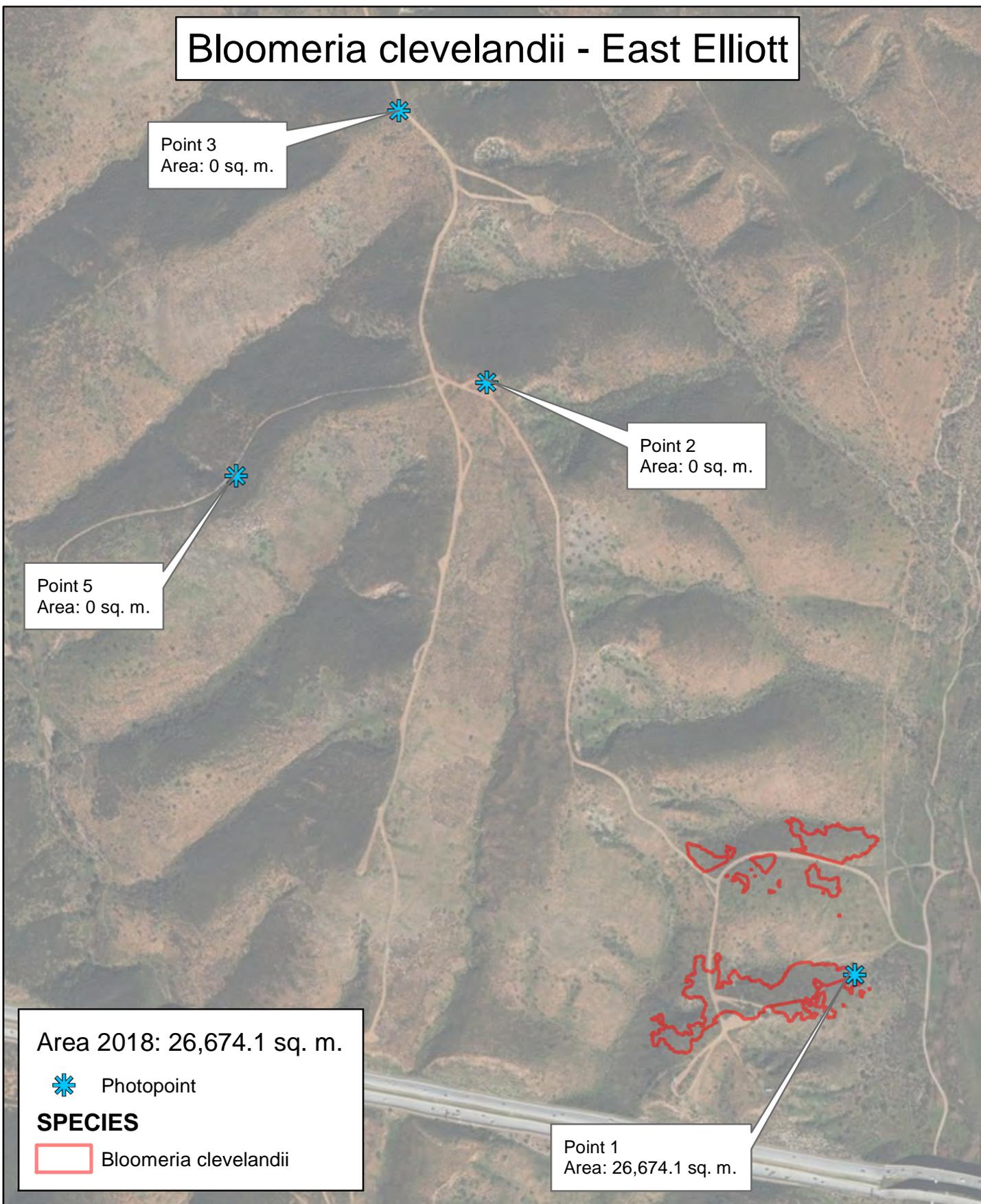
photos 100-0622 - 100-0626

***Bloomeria clevelandii* (San Diego Goldenstar)**
East Elliott # 1

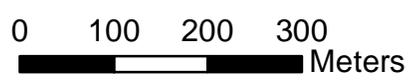
MSP Occurrence ID: BLCL_4EAEL014 - 1



Bloomeria clevelandii - East Elliott



Pop. Area 2008 - 2018
 Max Area: 809,519 sq. m.
 Min Area: 2,404 sq. m.



Source: San GIS & City of San Diego Park & Rec
 Map Created By: Priscilla Hare 2017



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BLCL_4EAEL014-2

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

BLCL_4EAEL014-2

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 3 |
| Adenostoma fasciculatum - chamise | Native | Perennial | Shrub | 12 |
| Brachypodium distachyon - purple false brome | Nonnative | Annual | Grass | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 2 |
| Ceanothus tomentosus - woollyleaf ceanothus | Native | Perennial | Shrub | 2 |
| Chlorogalum sp. - soap plant | Native | Perennial | Herb | 0.2 |
| Crassula connata - sand pygmyweed | Native | Annual | Herb | 0.2 |
| Daucus pusillus - American wild carrot | Native | Annual | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 2 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 0.2 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 1 |
| Hypochaeris glabra - smooth cat's ear | Nonnative | Annual | Herb | 0.2 |
| Lasthenia coronaria - royal goldfields | Native | Annual | Herb | 0.2 |
| Logfia gallica - narrowleaf cottonrose | Nonnative | Annual | Herb | 0.2 |
| Malosma laurina - laurel sumac | Native | Perennial | Shrub | 0.2 |
| Salvia mellifera - black sage | Native | Perennial | Shrub | 0.2 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 0.2 |
| Spergularia bocconi - sand spurry | Nonnative | Annual | Herb | 0.2 |
| Stipa lepida - foothill needle grass | Native | Perennial | Grass | 0.2 |

BLCL_4EAEL014-2

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

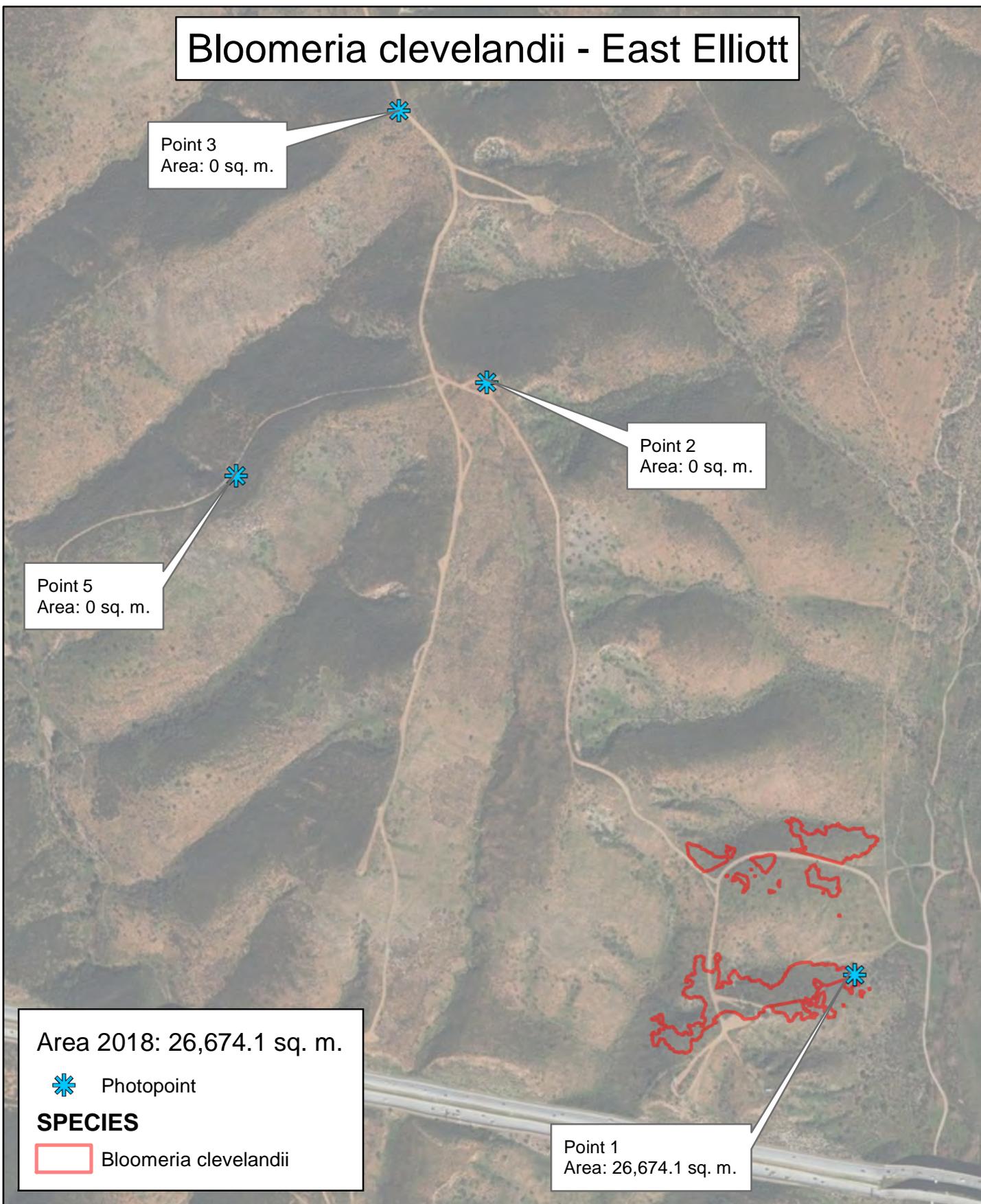
VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

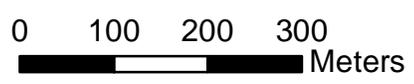
***Bloomeria clevelandii* (San Diego Goldenstar)**
East Elliott # 2
MSP Occurrence ID: BLCL_4EAEL014 - 2



Bloomeria clevelandii - East Elliott



Pop. Area 2008 - 2018
 Max Area: 809,519 sq. m.
 Min Area: 2,404 sq. m.



Source: San GIS & City of San Diego Park & Rec
 Map Created By: Priscilla Hare 2017



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BLCL_4EAEL014-3

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

BLCL_4EAEL014-3

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 1 |
| Adenostoma fasciculatum - chamise | Native | Perennial | Shrub | 22 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 1 |
| Chlorogalum sp. - soap plant | Native | Perennial | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 6 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 0.2 |
| Hypochaeris glabra - smooth cat's ear | Nonnative | Annual | Herb | 0.2 |
| Lasthenia coronaria - royal goldfields | Native | Annual | Herb | 0.2 |
| Plantago erecta - California plantain | Native | Annual | Herb | 0.2 |
| Psilocarphus tenellus - slender woolly heads | Native | Annual | Herb | 0.2 |
| Xylococcus bicolor - mission manzanita | Native | Perennial | Shrub | 1 |

BLCL_4EAEL014-3

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:
 Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Bloomeria clevelandii* (San Diego Goldenstar)**
East Elliott # 3

MSP Occurrence ID: BLCL_4EAEL014 - 3



Bloomeria clevelandii - East Elliott

Point 3
Area: 0 sq. m.

Point 2
Area: 0 sq. m.

Point 5
Area: 0 sq. m.

Area 2018: 26,674.1 sq. m.

 Photopoint

SPECIES

 Bloomeria clevelandii

Point 1
Area: 26,674.1 sq. m.

Pop. Area 2008 - 2018
Max Area: 809,519 sq. m.
Min Area: 2,404 sq. m.

0 100 200 300
Meters

Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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BLCL_4EAEL014-5

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

BLCL_4EAEL014-5

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 6 |
| Adenostoma fasciculatum - chamise | Native | Perennial | Shrub | 12 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 0.2 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Chlorogalum pomeridianum - soap plant | Native | Perennial | Herb | 0.2 |
| Diplacus aurantiacus var. Aurantiacus - sticky monkeyflower | Native | Perennial | Shrub | 3 |
| Eriophyllum confertiflorum - golden yarrow | Native | Annual | Herb | 0.2 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 0.2 |
| Helianthemum scoparium - Bisbee peak rushrose | Native | Perennial | Shrub | 0.2 |
| Hypochaeris glabra - smooth cat's ear | Nonnative | Annual | Herb | 0.2 |
| Logfia gallica - narrowleaf cottonrose | Nonnative | Annual | Herb | 0.2 |
| Pellaea mucronata - birdfoot cliffbrake | Native | Perennial | Fern | 0.2 |
| Plantago erecta - California plantain | Native | Annual | Herb | 0.2 |
| Porophyllum gracile - slender poreleaf | Native | Perennial | Herb | 0.2 |
| Pseudognaphalium californicum - ladies' tobacco | Native | Perennial | Herb | 0.2 |
| Psilocarphus tenellus - slender woolly heads | Native | Annual | Herb | 0.2 |
| Quercus berberidifolia - scrub oak | Native | Perennial | Tree | 1 |
| Rhamnus crocea - spiny redberry | Native | Perennial | Shrub | 1 |
| Spergularia bocconi - sand spurry | Nonnative | Annual | Herb | 0.2 |
| Stipa lepida - foothill needle grass | Native | Perennial | Grass | 5 |
| Unknown - bulb | Unknown | Unknown | Herb | 0.2 |

BLCL_4EAEL014-5

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="4"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="4"/> | if trails are present, are they authorized? <input type="text"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text"/> | Biking: <input type="text"/> | Equestrian: <input type="text"/> |
| Dog: <input type="text"/> | Service Vehicles: <input type="text"/> | Other: <input type="text"/> |
| Illegal Trail Use: <input type="text"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

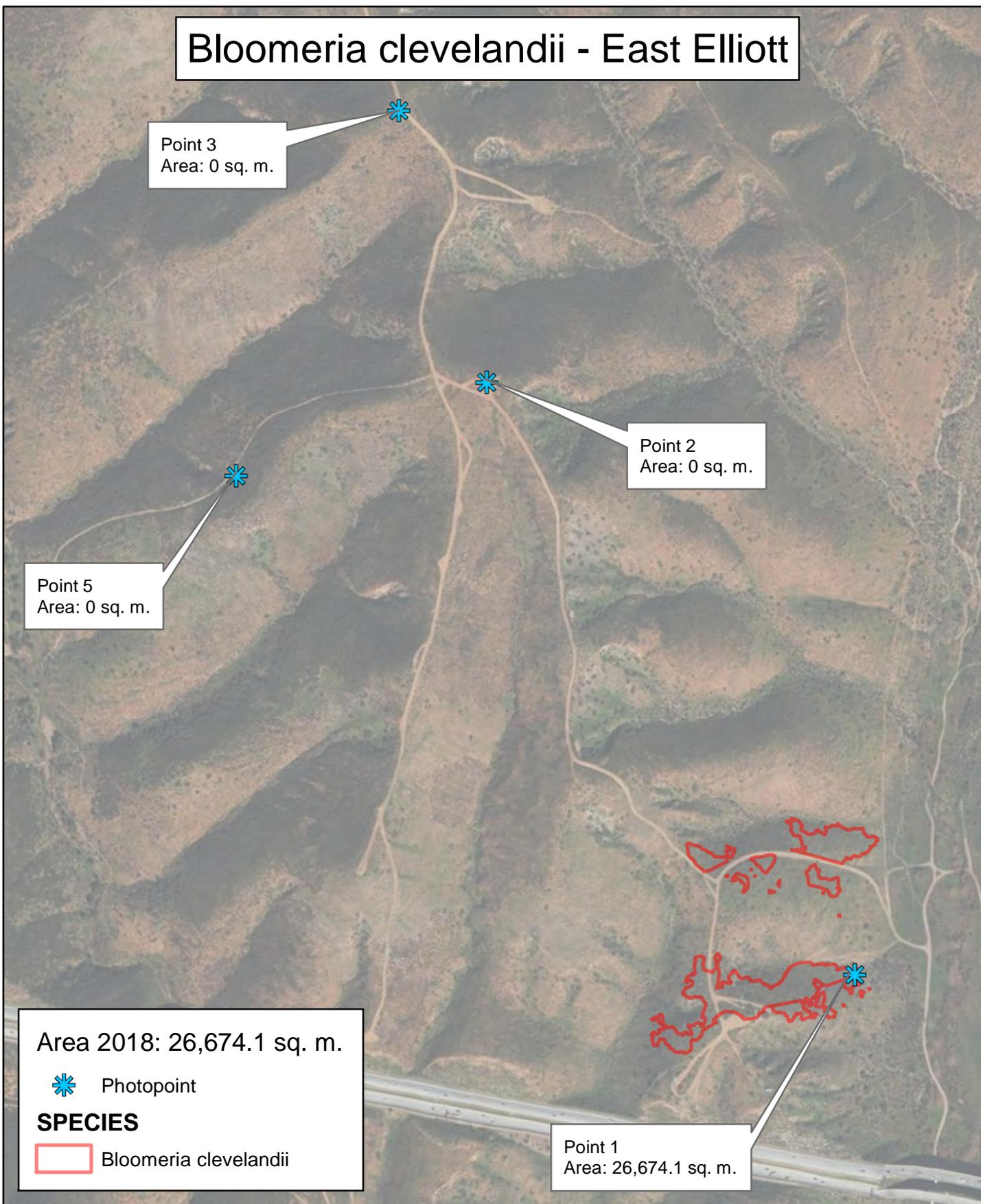
NOTES:

***Bloomeria clevelandii* (San Diego Goldenstar)**
East Elliott # 5

MSP Occurrence ID: BLCL_4EAEL014 - 5



Bloomeria clevelandii - East Elliott



Area 2018: 26,674.1 sq. m.

 Photopoint

SPECIES

 Bloomeria clevelandii

Point 1
Area: 26,674.1 sq. m.

Pop. Area 2008 - 2018
Max Area: 809,519 sq. m.
Min Area: 2,404 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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BLCL_6LORI021-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

BLCL_6LORI021-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Adenostoma fasciculatum - chamise | Native | Perennial | Shrub | 7 |
| Avena barbata - slender oat | Nonnative | Annual | Grass | 0.2 |
| Brodiaea orcuttii - Orcutt's brodiaea | Native | Perennial | Herb | 0.2 |
| Bromus hordeaceus - soft brome | Nonnative | Annual | Grass | 3 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 1 |
| Castilleja exserta - exserted Indian paintbrush | Native | Annual | Herb | 0.2 |
| Crassula aquatica - Aquatic pygmy weed | Native | Annual | Herb | 0.2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Deschampsia danthonioides - annual hairgrass | Native | Annual | Grass | 0.2 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 0.2 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 0.2 |
| Gastridium phleoides - nit grass | Nonnative | Annual | Grass | 0.2 |
| Hordeum marinum - seaside barley | Nonnative | Annual | Grass | 3 |
| Hypochaeris glabra - smooth cat's ear | Nonnative | Annual | Herb | 0.2 |
| Logfia gallica - narrowleaf cottonrose | Nonnative | Annual | Herb | 0.2 |
| Navarretia hamata - hooked pincushionplant | Native | Annual | Herb | 0.2 |
| Pogogyne abramsii - San Diego mesa mint | Native | Annual | Herb | 18 |
| Psilocarphus brevissimus - woolly marble | Native | Annual | Herb | 10 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 2 |
| Sonchus asper - spiny sowthistle | Nonnative | Annual | Herb | 0.2 |

BLCL_6LORI021-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

Nonnative Forbs:

Feral Pig Activity:

Altered Hydrology:

Nonnative Grass:

Trampling:

Erosion:

Nonnative Woody Plants:

Vandalism:

Urban Runoff:

Competitive Native Plants:

Current Grazing:

Slope Movement:

Dumping/Trash:

Historic Grazing:

Soil Compaction:

Encampments:

Historic Agriculture:

Fuel Modification Zone/ Fire Break:

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Bloomeria clevelandii* (San Diego Goldenstar)**
Lopez Ridge

MSP Occurrence ID: BLCL_6LORI021 - 1



Bloomeria clevelandii - Lopez Ridge



Area 2018: 97.8 sq. m.

 Photopoint

SPECIES

 Bloomeria clevelandii

Pop. Area 2011 - 2018
Max Area: 3,613.48 sq. m.
Min Area: 12 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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BLCL_3MAVA005-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

BLCL_3MAVA005-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 6 |
| Avena barbata - slender oat | Nonnative | Annual | Grass | 0.2 |
| Bahiopsis laciniata - torhleaf goldeneye | Native | Perennial | Shrub | 2 |
| Bloomeria clevelandii - San Diego goldenstar | Native | Perennial | Herb | 0.2 |
| Bromus hordeaceus - soft brome | Nonnative | Annual | Grass | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 12 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Corethrogyne filaginifolia - California sandaster | Native | Perennial | Herb | 0.2 |
| Eriophyllum confertiflorum - golden yarrow | Native | Annual | Herb | 1 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 16 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 3 |
| Galium angustifolium - narrowleaf bedstraw | Native | Perennial | Herb | 0.2 |
| Gastridium phleoides - nit grass | Nonnative | Annual | Grass | 0.2 |
| Gutierrezia californica - San Joaquin snakeweed | Native | Perennial | Shrub | 6 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 1 |
| Malosma laurina - laurel sumac | Native | Perennial | Shrub | 6 |
| Rhamnus crocea - spiny redberry | Native | Perennial | Shrub | 4 |
| Salvia apiana - white sage | Native | Perennial | Shrub | 3 |
| Stipa pulchra - purple needle grass | Native | Perennial | Grass | 0.2 |

BLCL_3MAVA005-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="4"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="6"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Bloomeria clevelandii* (San Diego Goldenstar)**
Marron Valley # 1

MSP Occurrence ID: BLCL_3MAVA005 - 1



Bloomeria clevelandii - Marron Valley

Dudleya variegata photopoint



Area 2018: 20,760.5 sq. m.

 Photopoint

SPECIES

 Bloomeria clevelandii

Pop. Area 2004 - 2018
Max Area: 139,269 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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BLCL_3MAVA005-2

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

BLCL_3MAVA005-2

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 9 |
| Avena barbata - slender oat | Nonnative | Annual | Grass | 0.2 |
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 8 |
| Calochortus splendens - splendid mariposa lily | Native | Perennial | Herb | 0.2 |
| Calystegia macrostegia - island false bindweed | Native | Perennial | Herb | 0.2 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Dichelostemma capitatum - bluedicks | Native | Perennial | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 5 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 18 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 0.2 |
| Gutierrezia sarothrae - Broom snakeweed | Native | Perennial | Shrub | 6 |
| Hirschfeldia incana - shortpod mustard | Nonnative | Perennial | Herb | 2 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 4 |
| Malosma laurina - laurel sumac | Native | Perennial | Shrub | 5 |
| Salvia apiana - white sage | Native | Perennial | Shrub | 5 |
| Stipa pulchra - purple needle grass | Native | Perennial | Grass | 0.2 |

BLCL_3MAVA005-2

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

Nonnative Forbs:

Feral Pig Activity:

Altered Hydrology:

Nonnative Grass:

Trampling:

Erosion:

Nonnative Woody Plants:

Vandalism:

Urban Runoff:

Competitive Native Plants:

Current Grazing:

Slope Movement:

Dumping/Trash:

Historic Grazing:

Soil Compaction:

Encampments:

Historic Agriculture:

Fuel Modification Zone/ Fire Break:

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Bloomeria clevelandii* (San Diego Goldenstar)**
Marron Valley # 2

MSP Occurrence ID: BLCL_3MAVA005 - 2



Bloomeria clevelandii - Marron Valley

Dudleya variegata photopoint



Area 2018: 20,760.5 sq. m.

 Photopoint

SPECIES

 Bloomeria clevelandii

Pop. Area 2004 - 2018
Max Area: 139,269 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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BLCL_3MAVA005-3

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

BLCL_3MAVA005-3

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|--|----------------------|----------------------|------------|---------|
| <i>Apiastrum angustifolium</i> - mock parsley | Native | Annual | Herb | 0.2 |
| <i>Artemisia californica</i> - coastal sagebrush | Native | Perennial | Shrub | 10 |
| <i>Avena barbata</i> - slender oat | Nonnative | Annual | Grass | 0.2 |
| <i>Bloomeria clevelandii</i> - San Diego goldenstar | Native | Perennial | Herb | 0.2 |
| <i>Brachypodium distachyon</i> - purple false brome | Nonnative | Annual | Grass | 2 |
| <i>Brassica tournefortii</i> - Asian mustard | Nonnative | Annual | Herb | 0.2 |
| <i>Bromus hordeaceus</i> - soft brome | Nonnative | Annual | Grass | 0.2 |
| <i>Bromus madritensis</i> - compact brome | Nonnative | Annual | Grass | 10 |
| <i>Centaurea melitensis</i> - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| <i>Corethrogyne filaginifolia</i> - California sandaster | Native | Perennial | Herb | 0.2 |
| <i>Dichelostemma capitatum</i> - bluedicks | Native | Perennial | Herb | 0.2 |
| <i>Eriogonum fasciculatum</i> - Eastern Mojave buckwheat | Native | Perennial | Shrub | 5 |
| <i>Eriophyllum confertiflorum</i> - golden yarrow | Native | Annual | Herb | 2 |
| <i>Erodium moschatum</i> - Musky stork's bill | Nonnative | Annual | Herb | 0.2 |
| <i>Festuca perennis</i> - Italian rye grass | Nonnative | Annual | Grass | 0.2 |
| <i>Galium angustifolium</i> - narrowleaf bedstraw | Native | Perennial | Herb | 1 |
| <i>Gutierrezia californica</i> - San Joaquin snakeweed | Native | Perennial | Shrub | 1 |
| <i>Hedynois cretica</i> - Cretanweed | Nonnative | Annual | Herb | 0.2 |
| <i>Hesperoyucca whipplei</i> - chaparral yucca | Native | Perennial | Shrub | 0.2 |
| <i>Hirschfeldia incana</i> - shortpod mustard | Nonnative | Perennial | Herb | 1 |
| <i>Isocoma menziesii</i> - Menzies' goldenbush | Native | Perennial | Shrub | 1 |
| <i>Layia platyglossa</i> - coastal tidytips | Native | Annual | Herb | 0.2 |
| <i>Malosma laurina</i> - laurel sumac | Native | Perennial | Shrub | 0.2 |
| <i>Pentagramma triangularis</i> - goldbeck fern | Native | Perennial | Fern | 0.2 |
| <i>Phalaris minor</i> - littleseed canarygrass | Nonnative | Annual | Grass | 0.2 |
| <i>Plantago erecta</i> - California plantain | Native | Annual | Herb | 5 |
| <i>Salvia apiana</i> - white sage | Native | Perennial | Shrub | 3 |
| <i>Selaginella bigelovii</i> - Bigelow's spike moss | Native | Perennial | Fern | 0.2 |
| <i>Stipa pulchra</i> - purple needle grass | Native | Perennial | Grass | 5 |

BLCL_3MAVA005-3

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

Nonnative Forbs:

Feral Pig Activity:

Altered Hydrology:

Nonnative Grass:

Trampling:

Erosion:

Nonnative Woody Plants:

Vandalism:

Urban Runoff:

Competitive Native Plants:

Current Grazing:

Slope Movement:

Dumping/Trash:

Historic Grazing:

Soil Compaction:

Encampments:

Historic Agriculture:

Fuel Modification Zone/ Fire Break:

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Bloomeria clevelandii* (San Diego Goldenstar)**
Marron Valley # 3

MSP Occurrence ID: BLCL_3MAVA005 - 3



Bloomeria clevelandii - Marron Valley

Dudleya variegata photopoint



Area 2018: 20,760.5 sq. m.

 Photopoint

SPECIES

 Bloomeria clevelandii

Pop. Area 2004 - 2018
Max Area: 139,269 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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BLCL_3MAVA005-4

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

BLCL_3MAVA005-4

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 3 |
| Avena barbata - slender oat | Nonnative | Annual | Grass | 3 |
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 0.2 |
| Bloomeria clevelandii - San Diego goldenstar | Native | Perennial | Herb | 0.2 |
| Bromus diandrus - ripgut brome | Nonnative | Annual | Grass | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 6 |
| Calochortus splendens - splendid mariposa lily | Native | Perennial | Herb | 0.2 |
| Crassula connata - sand pygmyweed | Native | Annual | Herb | 0.2 |
| Dudleya variegata - Variegated dudleya | Native | Perennial | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 4 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 60 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 0.2 |
| Gutierrezia californica - San Joaquin snakeweed | Native | Perennial | Shrub | 4 |
| Hirschfeldia incana - shortpod mustard | Nonnative | Perennial | Herb | 1 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 1 |
| Lepidium nitidum - shining pepperweed | Native | Annual | Herb | 0.2 |
| Phalaris minor - littleseed canarygrass | Nonnative | Annual | Grass | 0.2 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 3 |
| Stipa pulchra - purple needle grass | Native | Perennial | Grass | 0.2 |

BLCL_3MAVA005-4

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="4"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="6"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Bloomeria clevelandii* (San Diego Goldenstar)**
Marron Valley # 4

MSP Occurrence ID: BLCL_3MAVA005 - 4



Bloomeria clevelandii - Marron Valley

Dudleya variegata photopoint



Area 2018: 20,760.5 sq. m.

 Photopoint

SPECIES

 Bloomeria clevelandii

Pop. Area 2004 - 2018
Max Area: 139,269 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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BLCL_4MTRP023-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

BLCL_4MTRP023-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 10 |
| Adenostoma fasciculatum - chamise | Native | Perennial | Shrub | 9 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 4 |
| Avena sp. - oat | Nonnative | Annual | Grass | 1 |
| Brachypodium distachyon - purple false brome | Nonnative | Annual | Grass | 50 |
| Bromus hordeaceus - soft brome | Nonnative | Annual | Grass | 1 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Dichondra occidentalis - western ponysoot | Native | Perennial | Herb | 0.2 |
| Diplacus aurantiacus var. Aurantiacus - sticky monkeyflower | Native | Perennial | Shrub | 2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 0.2 |
| Eriophyllum confertiflorum - golden yarrow | Native | Annual | Herb | 0.2 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 10 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 3 |
| Helianthemum scoparium - Bisbee peak rushrose | Native | Perennial | Shrub | 0.2 |
| Hypochaeris glabra - smooth cat's ear | Nonnative | Annual | Herb | 0.2 |
| Pseudognaphalium californicum - ladies' tobacco | Native | Perennial | Herb | 1 |
| Sanicula arguta - sharp toothed snakeroot | Native | Perennial | Herb | 0.2 |
| Sonchus oleraceus - common sowthistle | Nonnative | Annual | Herb | 0.2 |
| Stipa pulchra - purple needle grass | Native | Perennial | Grass | 3 |

BLCL_4MTRP023-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="6"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Bloomeria clevelandii* (San Diego Goldenstar)**
Mission Trails Regional Park
MSP Occurrence ID: BLCL_4MTRP023 - 1



Bloomeria clevelandii - Mission Trails Regional Park



Area 2018: 0 sq. m.

 Photopoint

Pop. Area 2001 - 2018
Max Area: 1,255.77 sq. m.
Min Area: 0 sq. m.

0 50 100
 Meters

Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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BLCL_30TLA006-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

BLCL_30TLA006-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 1 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 1 |
| Cressa truxillensis - spreading alkaliweed | Native | Perennial | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 10 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 64 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 2 |
| Peritoma arborea - bladderpod spiderflower | Native | Perennial | Shrub | 0.2 |
| Plantago erecta - California plantain | Native | Annual | Herb | 0.2 |
| Sisyrinchium bellum - Western blue-eyed grass | Native | Perennial | Herb | 0.2 |
| Stipa lepida - foothill needle grass | Native | Perennial | Grass | 0.2 |

BLCL_30TLA006-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="5"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="3"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

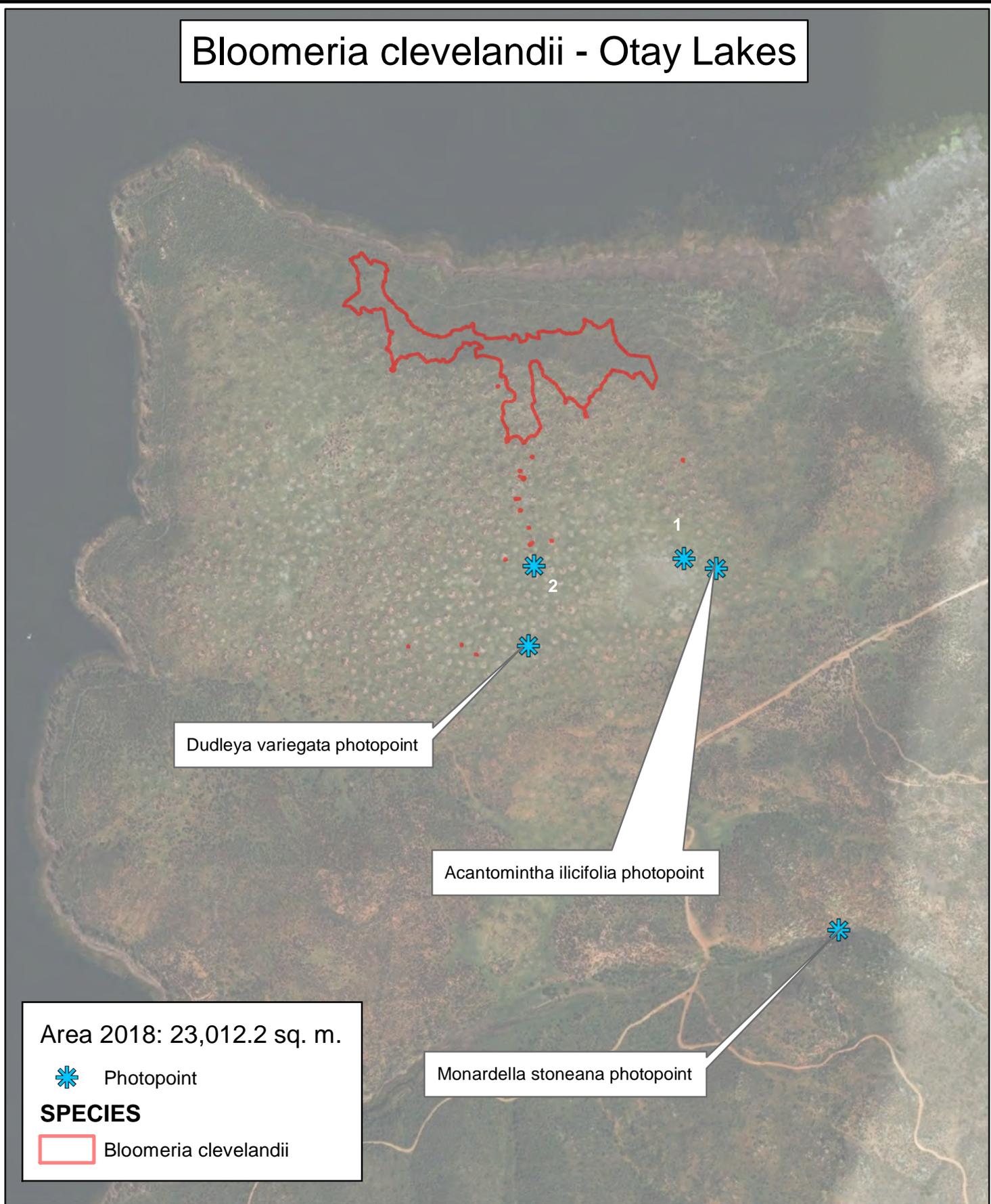
***Bloomeria clevelandii* (San Diego Goldenstar)**

Otay Lakes Observation # 1

MSP Occurrence ID: BLCL_3OTLA006 - 1



Bloomeria clevelandii - Otay Lakes



Dudleya variegata photopoint

Acantomntha ilicifolia photopoint

Monardella stoneana photopoint

Area 2018: 23,012.2 sq. m.

Photopoint

SPECIES

Bloomeria clevelandii

Pop. Area 2003 - 2018
 Max Area: 381,089 sq. m.
 Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
 Map Created By: Priscilla Hare 2017



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BLCL_30TLA006-2

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

BLCL_30TLA006-2

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|--|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 1 |
| Bromus hordeaceus - soft brome | Nonnative | Annual | Grass | 4 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 6 |
| Calochortus splendens - splendid mariposa lily | Native | Perennial | Herb | 0.2 |
| Cressa truxillensis - spreading alkaliweed | Native | Perennial | Herb | 0.2 |
| Cuscuta californica - California dodder | Native | Annual | Herb | 22 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 4 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 43 |
| Eryngium aristulatum var. parishii - San Diego button celery | Native | Annual | Herb | 1 |
| Hordeum murinum - mouse barley | Nonnative | Annual | Grass | 0.2 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 0.2 |
| Lepidium nitidum - shining pepperweed | Native | Annual | Herb | 0.2 |
| Plantago erecta - California plantain | Native | Annual | Herb | 0.2 |
| Uropappus lindleyi - silver puffs | Native | Annual | Herb | 0.2 |

BLCL_30TLA006-2

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

Nonnative Forbs:

Feral Pig Activity:

Altered Hydrology:

Nonnative Grass:

Trampling:

Erosion:

Nonnative Woody Plants:

Vandalism:

Urban Runoff:

Competitive Native Plants:

Current Grazing:

Slope Movement:

Dumping/Trash:

Historic Grazing:

Soil Compaction:

Encampments:

Historic Agriculture:

Fuel Modification Zone/ Fire Break:

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

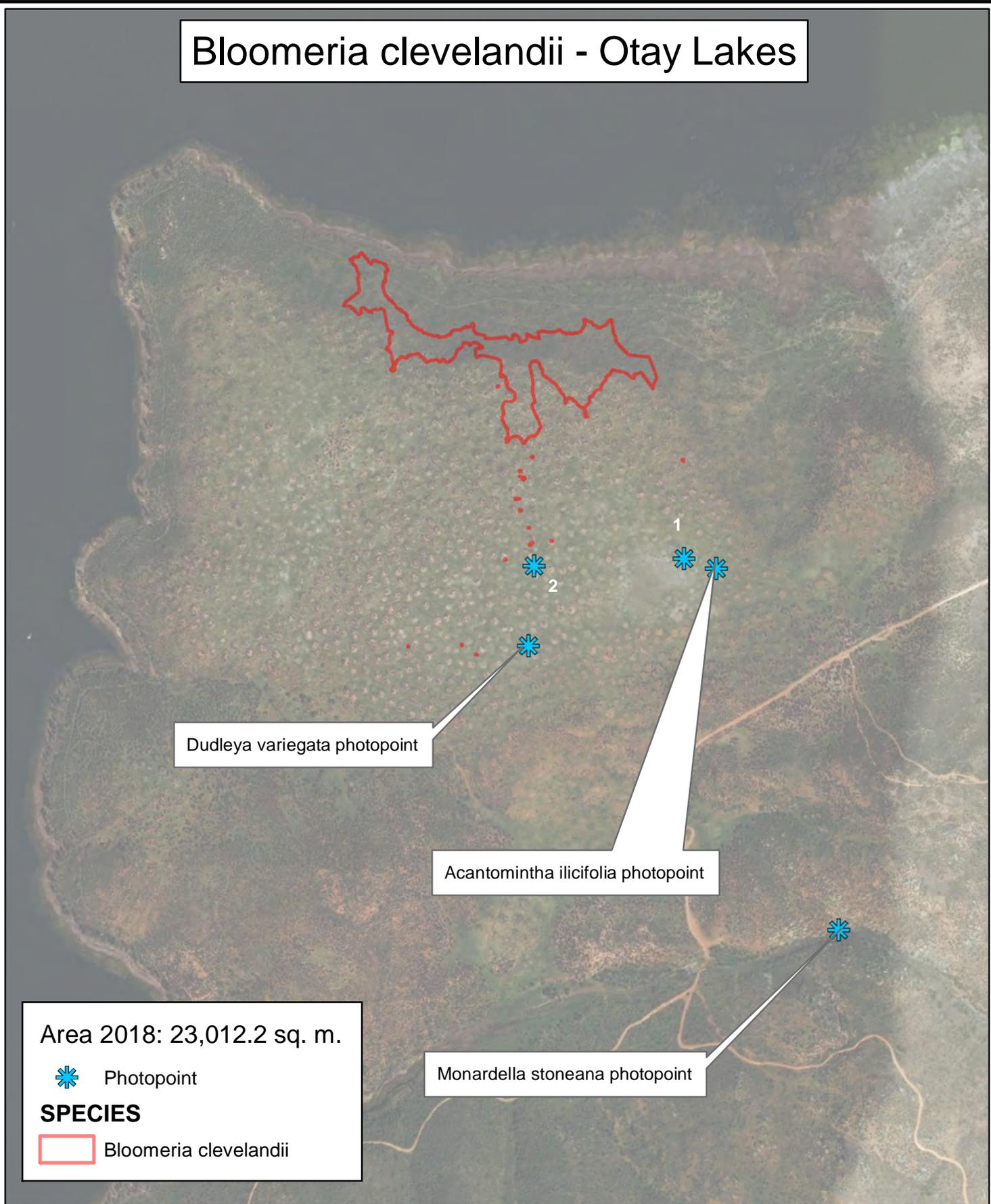
***Bloomeria clevelandii* (San Diego Goldenstar)**

Otay Lakes Observation # 2

MSP Occurrence ID: BLCL_3OTLA006 - 2



Bloomeria clevelandii - Otay Lakes



Dudleya variegata photopoint

Acantomntha ilicifolia photopoint

Monardella stoneana photopoint

Area 2018: 23,012.2 sq. m.

Photopoint

SPECIES

Bloomeria clevelandii

Pop. Area 2003 - 2018
 Max Area: 381,089 sq. m.
 Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
 Map Created By: Priscilla Hare 2017

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Brodiaea filifolia
Thread-leaved Brodiaea



© City of San Diego, 2014

BRFI_6BMRA002-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

BRFI_6BMRA002-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|--|----------------------|----------------------|------------|---------|
| <i>Avena barbata</i> - slender oat | Nonnative | Annual | Grass | 3 |
| <i>Brachypodium distachyon</i> - purple false brome | Nonnative | Annual | Grass | 25 |
| <i>Brassica nigra</i> - black mustard | Nonnative | Annual | Herb | 0.2 |
| <i>Brodiaea filifolia</i> - Thread-leaved brodiaea | Native | Perennial | Herb | 0.2 |
| <i>Calystegia macrostegia</i> - island false bindweed | Native | Perennial | Herb | 4 |
| <i>Centaurea melitensis</i> - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| <i>Chlorogalum parviflorum</i> - smallflower soap plant | Native | Perennial | Herb | 0.2 |
| <i>Cynara cardunculus</i> - artichoke thistle | Nonnative | Perennial | Herb | 0.2 |
| <i>Eriogonum fasciculatum</i> - Eastern Mojave buckwheat | Native | Perennial | Shrub | 14 |
| <i>Lactuca serriola</i> - prickly lettuce | Nonnative | Annual | Herb | 1 |
| <i>Malosma laurina</i> - laurel sumac | Native | Perennial | Shrub | 7 |
| <i>Sonchus asper</i> - spiny sowthistle | Nonnative | Annual | Herb | 1 |
| <i>Sonchus oleraceus</i> - common sowthistle | Nonnative | Annual | Herb | 0.2 |
| <i>Stipa pulchra</i> - purple needle grass | Native | Perennial | Grass | 1 |

BRFI_6BMRA002-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

Nonnative Forbs:

Feral Pig Activity:

Altered Hydrology:

Nonnative Grass:

Trampling:

Erosion:

Nonnative Woody Plants:

Vandalism:

Urban Runoff:

Competitive Native Plants:

Current Grazing:

Slope Movement:

Dumping/Trash:

Historic Grazing:

Soil Compaction:

Encampments:

Historic Agriculture:

Fuel Modification Zone/ Fire Break:

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Brodiaea filifolia* (Threadleaf Brodiaea)**
Black Mountain Ranch
MSP Occurrence ID: BRFI_6BMRA002 - 1



Brodiaea filifolia - Black Mountain



Area 2018: 59.7 sq. m.

 Photopoint

SPECIES

 Brodiaea filifolia

Pop. Area 2014 - 2018
Max Area: 353.9 sq. m.
Min Area: 31.36 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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Brodiaea orcuttii
Orcutt's Brodiaea



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BROR_2NODR002-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

BROR_2NODR002-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 0.2 |
| Chamaesyce sp. - | Native | Annual | Herb | 0.2 |
| Cotula coronopifolia - common brassbuttons | Nonnative | Perennial | Herb | 0.2 |
| Crassula aquatica - Aquatic pygmy weed | Native | Annual | Herb | 0.2 |
| Croton setigerus - dove weed | Native | Annual | Herb | 0.2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Deschampsia danthonioides - annual hairgrass | Native | Annual | Grass | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 11 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 12 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 8 |
| Hypochaeris glabra - smooth cat's ear | Nonnative | Annual | Herb | 0.2 |
| Plantago erecta - California plantain | Native | Annual | Herb | 0.2 |
| Pseudognaphalium californicum - ladies' tobacco | Native | Perennial | Herb | 0.2 |
| Psilocarphus brevisimus - woolly marble | Native | Annual | Herb | 1 |
| Schismus barbatus - common Mediterranean grass | Nonnative | Annual | Grass | 0.2 |
| Sonchus asper - spiny sowthistle | Nonnative | Annual | Herb | 0.2 |

BROR_2NODR002-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="4"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="5"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="2"/> | if trails are present, are they authorized? <input type="text"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text"/> | Biking: <input type="text"/> | Equestrian: <input type="text"/> |
| Dog: <input type="text"/> | Service Vehicles: <input type="text"/> | Other: <input type="text"/> |
| Illegal Trail Use: <input type="text"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

Continue preserved stewardship; weed control for Dittrichia

VII. MANAGEMENT ACTIONS IN LAST YEAR

Preserve stewardship

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

none

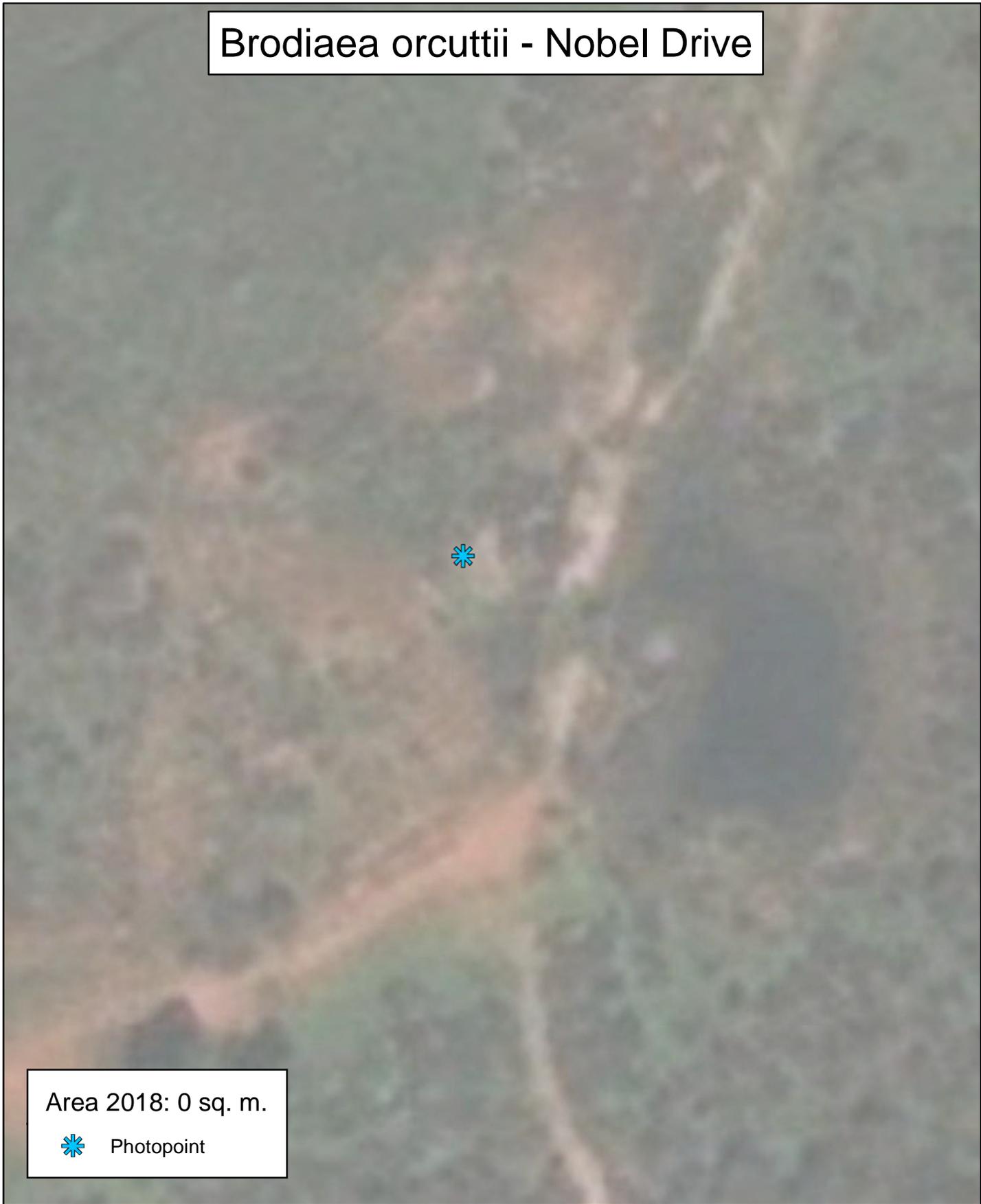
NOTES:

photos 100-0681 - 100-0685

***Brodiaea orcuttii* (Orcutt's Brodiaea)**
Nobel Drive
MSP Occurrence ID: BROR_2NODR002 - 1



Brodiaea orcuttii - Nobel Drive



Area 2018: 0 sq. m.
* Photopoint

Pop. Area 2003 - 2018
Max Area: 22.28 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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BROR_4OACR012-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

BROR_40ACR012-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|--|----------------------|----------------------|------------|---------|
| <i>Acmispon americanus</i> - American bird's-foot trefoil | Native | Annual | Herb | 0.2 |
| <i>Acmispon glaber</i> - deerweed | Native | Perennial | Shrub | 0.2 |
| <i>Acmispon micranthus</i> - San Diego bird's-foot trefoil | Native | Annual | Herb | 0.2 |
| <i>Ambrosia psilostachya</i> - Cuman ragweed | Native | Perennial | Herb | 0.2 |
| <i>Avena barbata</i> - slender oat | Nonnative | Annual | Grass | 0.2 |
| <i>Bothriochloa barbinodis</i> - cane bluestem | Native | Perennial | Grass | 5 |
| <i>Brachypodium distachyon</i> - purple false brome | Nonnative | Annual | Grass | 10 |
| <i>Brassica nigra</i> - black mustard | Nonnative | Annual | Herb | 0.2 |
| <i>Briza minor</i> - little quakinggrass | Nonnative | Annual | Grass | 0.2 |
| <i>Brodiaea orcuttii</i> - Orcutt's brodiaea | Native | Perennial | Herb | 0.2 |
| <i>Bromus diandrus</i> - ripgut brome | Nonnative | Annual | Grass | 0.2 |
| <i>Bromus madritensis</i> - compact brome | Nonnative | Annual | Grass | 2 |
| <i>Carduus pycnocephalus</i> - Italian plumeless thistle | Nonnative | Annual | Herb | 0.2 |
| <i>Ceanothus tomentosus</i> - woolyleaf ceanothus | Native | Perennial | Shrub | 5 |
| <i>Centaurea melitensis</i> - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| <i>Cerastium glomeratum</i> - sticky mouseear chickweed | Nonnative | Annual | Herb | 0.2 |
| <i>Crassula connata</i> - sand pygmyweed | Native | Annual | Herb | 0.2 |
| <i>Cyperus eragrostis</i> - tall flatsedge | Native | Perennial | Herb | 0.2 |
| <i>Digitaria sanguinalis</i> - hairy crabgrass | Nonnative | Annual | Grass | 2 |
| <i>Eriogonum fasciculatum</i> - Eastern Mojave buckwheat | Native | Perennial | Shrub | 1 |
| <i>Erodium botrys</i> - longbeak stork's bill | Nonnative | Annual | Herb | 3 |
| <i>Festuca myuros</i> - rattail fescue | Nonnative | Annual | Grass | 0.2 |
| <i>Festuca perennis</i> - Italian rye grass | Nonnative | Annual | Grass | 1 |
| <i>Geranium carolinianum</i> - Carolina geranium | Native | Annual | Herb | 0.2 |
| <i>Hedypnois cretica</i> - Cretanweed | Nonnative | Annual | Herb | 0.2 |
| <i>Heteromeles arbutifolia</i> - toyon | Native | Perennial | Shrub | 3 |
| <i>Hypochaeris glabra</i> - smooth cat's ear | Nonnative | Annual | Herb | 0.2 |
| <i>Juncus bryoides</i> - moss rush | Native | Annual | Herb | 0.2 |
| <i>Juncus bufonius</i> - toad rush | Native | Annual | Herb | 0.2 |
| <i>Juncus dubius</i> - finger rush | Native | Perennial | Herb | 1 |
| <i>Lamarckia aurea</i> - goldentop grass | Nonnative | Annual | Grass | 0.2 |
| <i>Lepidium nitidum</i> - shining pepperweed | Native | Annual | Herb | 0.2 |
| <i>Logfia gallica</i> - narrowleaf cottonrose | Nonnative | Annual | Herb | 0.2 |
| <i>Lysimachia arvensis</i> - scarlet pimpernel | Nonnative | Annual | Herb | 0.2 |
| <i>Malacothamnus fasciculatus</i> - Mendocino bushmallow | Native | Perennial | Shrub | 0.2 |
| <i>Malosma laurina</i> - laurel sumac | Native | Perennial | Shrub | 8 |
| <i>Medicago polymorpha</i> - burclover | Nonnative | Annual | Herb | 0.2 |
| <i>Mimulus guttatus</i> - seep monkeyflower | Native | Annual | Herb | 0.2 |
| <i>Pseudognaphalium</i> sp. - cudweed | Native | Perennial | Herb | 0.2 |
| <i>Salix lasiolepis</i> - Arroyo willow | Native | Perennial | Tree | 0.2 |

| | | | | |
|---|-----------|-----------|-------|-----|
| Salvia mellifera - black sage | Native | Perennial | Shrub | 20 |
| Selaginella bigelovii - Bigelow's spike moss | Native | Perennial | Fern | 0.2 |
| Silene gallica - common catchfly | Nonnative | Annual | Herb | 0.2 |
| Sonchus oleraceus - common sowthistle | Nonnative | Annual | Herb | 0.2 |
| Stemodia durantifolia - White woolly stemodia | Native | Perennial | Herb | 0.2 |
| Trifolium albopurpureum - Indian clover | Native | Annual | Herb | 0.2 |
| Xanthium strumarium - rough cocklebur | Native | Perennial | Shrub | 0.2 |

BROR_40ACR012-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="4"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="2"/> | if trails are present, are they authorized? <input type="text"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text"/> | Biking: <input type="text"/> | Equestrian: <input type="text"/> |
| Dog: <input type="text"/> | Service Vehicles: <input type="text"/> | Other: <input type="text"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Brodiaea orcuttii* (Orcutt's Brodiaea)**
Mission Trails Regional Park- Oak Creek
MSP Occurrence ID: BROR_4OACR012 - 1



Brodiaea orcuttii - Oak Creek



Area 2018: 61.1 sq. m.

 Photopoint

SPECIES

 Brodiaea orcuttii

Pop. Area 2015 - 2018
Max Area: 51.7 sq. m.
Min Area: 0.58 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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BROR_6CACA015-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

BROR_6CACA015-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|--|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 0.2 |
| Adenostoma fasciculatum - chamise | Native | Perennial | Shrub | 8 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 2 |
| Brodiaea orcuttii - Orcutt's brodiaea | Native | Perennial | Herb | 0.2 |
| Calochortus splendens - splendid mariposa lily | Native | Perennial | Herb | 0.2 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Crassula aquatica - Aquatic pygmy weed | Native | Annual | Herb | 0.2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Eriophyllum confertiflorum - golden yarrow | Native | Annual | Herb | 5 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 4 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 6 |
| Hypochaeris glabra - smooth cat's ear | Nonnative | Annual | Herb | 0.2 |
| Lepidium nitidum - shining pepperweed | Native | Annual | Herb | 0.2 |
| Navarretia hamata - hooked pincushionplant | Native | Annual | Herb | 0.2 |
| Osmadenia tenella - false rosinweed | Native | Annual | Herb | 0.2 |
| Plantago erecta - California plantain | Native | Annual | Herb | 6 |
| Psilocarphus brevissimus - woolly marble | Native | Annual | Herb | 3 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 1 |
| Sonchus oleraceus - common sowthistle | Nonnative | Annual | Herb | 0.2 |
| Xylococcus bicolor - mission manzanita | Native | Perennial | Shrub | 1 |
| Zeltnera venusta - charming centauray | Native | Annual | Herb | 0.2 |

BROR_6CACA015-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

Nonnative Forbs:

Feral Pig Activity:

Altered Hydrology:

Nonnative Grass:

Trampling:

Erosion:

Nonnative Woody Plants:

Vandalism:

Urban Runoff:

Competitive Native Plants:

Current Grazing:

Slope Movement:

Dumping/Trash:

Historic Grazing:

Soil Compaction:

Encampments:

Historic Agriculture:

Fuel Modification Zone/ Fire Break:

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Brodiaea orcuttii* (Orcutt's Brodiaea)**
Carroll Canyon

MSP Occurrence ID: BROR_6CACA015 - 1



Brodiaea orcuttii - Carroll Canyon



Area 2018: 978.4 sq. m.

 Photopoint

SPECIES

 Brodiaea orcuttii

Pop. Area 2003 - 2018
Max Area: 4,863.29 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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BROR_6LORI018-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

BROR_6LORI018-1

2018

MSP - RARE PLANT MONITORING DATA

V. ASSOCIATED SPECIES

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Adenostoma fasciculatum - chamise | Native | Perennial | Shrub | 7 |
| Avena barbata - slender oat | Nonnative | Annual | Grass | 0.2 |
| Brodiaea orcuttii - Orcutt's brodiaea | Native | Perennial | Herb | 0.2 |
| Bromus hordeaceus - soft brome | Nonnative | Annual | Grass | 3 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 1 |
| Castilleja exserta - exserted Indian paintbrush | Native | Annual | Herb | 0.2 |
| Crassula aquatica - Aquatic pygmy weed | Native | Annual | Herb | 0.2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Deschampsia danthonioides - annual hairgrass | Native | Annual | Grass | 0.2 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 0.2 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 0.2 |
| Gastridium phleoides - nit grass | Nonnative | Annual | Grass | 0.2 |
| Hordeum marinum - seaside barley | Nonnative | Annual | Grass | 3 |
| Hypochaeris glabra - smooth cat's ear | Nonnative | Annual | Herb | 0.2 |
| Logfia gallica - narrowleaf cottonrose | Nonnative | Annual | Herb | 0.2 |
| Navarretia hamata - hooked pincushionplant | Native | Annual | Herb | 0.2 |
| Pogogyne abramsii - San Diego mesa mint | Native | Annual | Herb | 18 |
| Psilocarphus brevissimus - woolly marble | Native | Annual | Herb | 10 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 2 |
| Sonchus asper - spiny sowthistle | Nonnative | Annual | Herb | 0.2 |

BROR_6LORI018-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

Nonnative Forbs:

Feral Pig Activity:

Altered Hydrology:

Nonnative Grass:

Trampling:

Erosion:

Nonnative Woody Plants:

Vandalism:

Urban Runoff:

Competitive Native Plants:

Current Grazing:

Slope Movement:

Dumping/Trash:

Historic Grazing:

Soil Compaction:

Encampments:

Historic Agriculture:

Fuel Modification Zone/ Fire Break:

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Brodiaea orcuttii* (Orcutt's Brodiaea)**
Lopez Ridge

MSP Occurrence ID: BROR_6LORI018 - 1



Brodiaea orcuttii - Lopez Ridge



Area 2018: 44.3 sq. m.

 Photopoint

SPECIES

 Brodiaea orcuttii

Pop. Area 2003 - 2018
Max Area: 1,456.19 sq. m.
Min Area: 25 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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Chloropyron maritimum ssp.
maritimum
Salt-marsh Bird's Beak



© 2016 City of San Diego

COMAM3_1DOBE007-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

COMAM3_1DOBE007-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Chloropyron maritimum var. maritimum - Salt marsh bird's-beak | Native | Annual | Herb | 3 |
| Cuscuta pacifica - saltmarsh dodder | Native | Annual | Herb | 0.2 |
| Distichlis littoralis - shoregrass | Native | Perennial | Grass | 10 |
| Frankenia salina - alkali seaheath | Native | Perennial | Herb | 7 |
| Jaumea carnososa - marsh jaumea | Native | Perennial | Herb | 11 |
| Juncus acutus - spiny rush | Native | Perennial | Herb | 0.2 |
| Limonium californicum - California sea lavender | Native | Perennial | Herb | 1 |
| Limonium duriusculum - European sea lavender | Nonnative | Perennial | Herb | 35 |
| Salicornia pacifica - glasswort | Native | Perennial | Herb | 5 |
| Suaeda esteroa - estuary seablite | Native | Perennial | Herb | 0.2 |
| Triglochin maritima - seaside arrow grass | Native | Perennial | Herb | 10 |

COMAM3_1DOBE007-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="5"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="2"/> | Trampling: <input type="text" value="3"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="3"/> | Urban Runoff: <input type="text" value="3"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="3"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="2"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="2"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="4"/> | if trails are present, are they authorized? <input type="text"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text"/> | Biking: <input type="text"/> | Equestrian: <input type="text"/> |
| Dog: <input type="text"/> | Service Vehicles: <input type="text"/> | Other: <input type="text"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

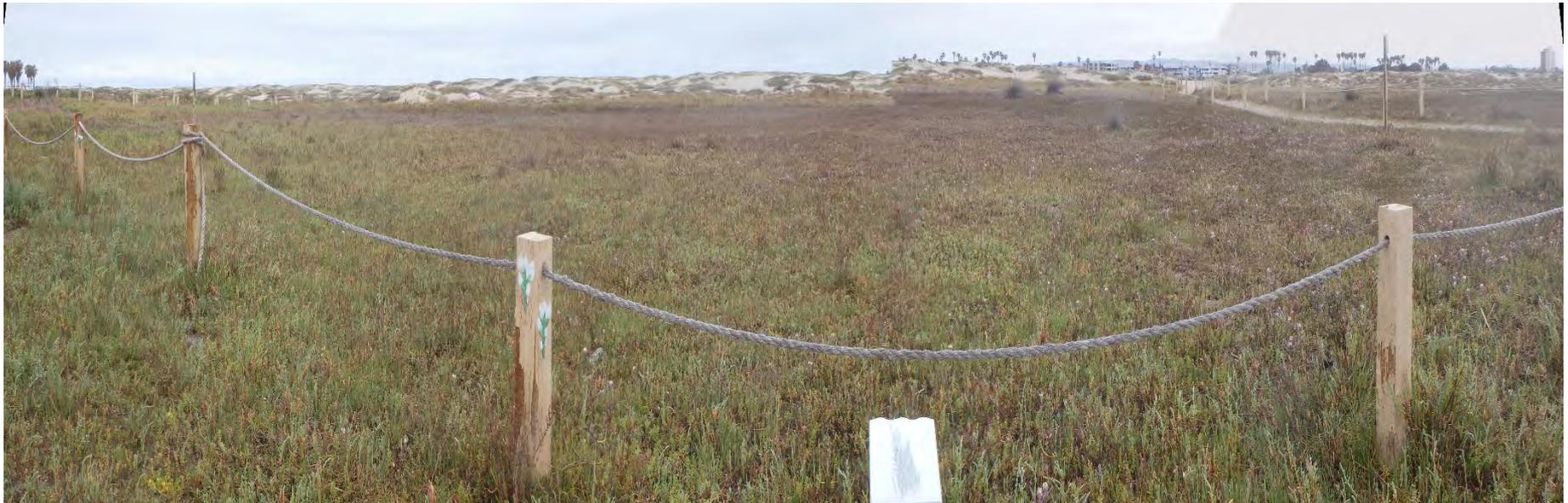
VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Chloropyron maritimum* ssp. *Maritimum* (Salt Marsh Bird's Beak)
Dog Beach**

MSP Occurrence ID: COMAM3_1DOBE007 - 1



Chloropyron maritimum - Dog Beach



Pop. Area 2014 - 2018
Max Area: 10,023.1 sq. m.
Min Area: 223.57 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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Cylindropuntia californica var. *californica*
Snake Cholla



© City of San Diego, 2015

CYCA_2BPGC001-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

CYCA_2BPGC001-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Adenostoma fasciculatum - chamise | Native | Perennial | Shrub | 4 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 42 |
| Cercocarpus minutiflorus - smooth mountain-mahogany | Native | Perennial | Shrub | 1 |
| Diplacus aurantiacus var. Aurantiacus - sticky monkeyflower | Native | Perennial | Shrub | 3 |
| Encelia californica - California brittlebush | Native | Perennial | Shrub | 1 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 1 |
| Ferocactus viridescens - San Diego barrel cactus | Native | Perennial | Shrub | 0.2 |
| Helianthemum scoparium - Bisbee peak rushrose | Native | Perennial | Shrub | 0.2 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 3 |
| Malosma laurina - laurel sumac | Native | Perennial | Shrub | 3 |
| Opuntia littoralis - coastal pricklypear | Native | Perennial | Shrub | 1 |
| Pennisetum setaceum - crimson fountaingrass | Nonnative | Perennial | Grass | 4 |
| Salvia mellifera - black sage | Native | Perennial | Shrub | 8 |
| Yucca schidigera - Mojave yucca | Native | Perennial | Shrub | 12 |

CYCA_2BPGC001-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="3"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="3"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Cylindropuntia californica* var. *californica* (Snake Cholla)**
Balboa Golf Course
MSP Occurrence ID: CYCA_2BPGC001 - 1



Cylindropuntia californica - Balboa Golf Course

Balboa Park
Golf Course



Area 2018: 724.1 sq. m.

 Photopoint

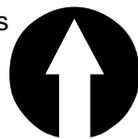
SPECIES

 Cylindropuntia californica

Pop. Area 2004 - 2018
Max Area: 724.1 sq. m.
Min Area: 5.94 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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CYCA_3GOME003-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

CYCA_3GOME003-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|--|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 0.2 |
| Ambrosia chamissonis - silver bur ragweed | Native | Perennial | Herb | 8 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 2 |
| Atriplex pacifica - Davidson's saltbush | Native | Annual | Herb | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 3 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Encelia californica - California brittlebush | Native | Perennial | Shrub | 1 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 0.2 |
| Ferocactus viridescens - San Diego barrel cactus | Native | Perennial | Shrub | 0.2 |
| Logfia gallica - narrowleaf cottonrose | Nonnative | Annual | Herb | 3 |
| Salsola tragus - prickly Russian thistle | Nonnative | Annual | Herb | 8 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 9 |
| Simmondsia chinensis - jojoba | Native | Perennial | Shrub | 11 |
| Stipa lepida - foothill needle grass | Native | Perennial | Grass | 0.2 |

CYCA_3GOME003-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

Nonnative Forbs:

Feral Pig Activity:

Altered Hydrology:

Nonnative Grass:

Trampling:

Erosion:

Nonnative Woody Plants:

Vandalism:

Urban Runoff:

Competitive Native Plants:

Current Grazing:

Slope Movement:

Dumping/Trash:

Historic Grazing:

Soil Compaction:

Encampments:

Historic Agriculture:

Fuel Modification Zone/ Fire Break:

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Cylindropuntia californica* var. *californica* (Snake Cholla)**
Spring Canyon

MSP Occurrence ID: CYCA_3GOME003 - 1



Cylindropuntia californica - Spring Canyon



Area 2018: 1,658.7 sq. m.

 Photopoint

SPECIES

 Cylindropuntia californica

Pop. Area 2002 - 2018
Max Area: 3,138.6 sq. m.
Min Area: 559.0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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Deinandra conjugens
Otay Tarplant



© City of San Diego, 2015

DECO13_3DERA020-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DECO13_3DERA020-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Ambrosia chenopodiifolia - San Diego bur ragweed | Native | Perennial | Shrub | 0.2 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 35 |
| Baccharis pilularis - coyotebrush | Native | Perennial | Shrub | 0.2 |
| Bahiopsis laciniata - torhleaf goldeneye | Native | Perennial | Shrub | 6 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 12 |
| Cylindropuntia prolifera - coastal cholla | Native | Perennial | Shrub | 0.2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Encelia californica - California brittlebush | Native | Perennial | Shrub | 6 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 0.2 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 0.2 |
| Mellilotus indica - annual yellow sweetclover | Nonnative | Annual | Herb | 0.2 |
| Peritoma arborea - bladderpod spiderflower | Native | Perennial | Shrub | 1 |
| Rosa minutifolia - small-leaved rose | Native | Perennial | Shrub | 0.2 |
| Simmondsia chinensis - jojoba | Native | Perennial | Shrub | 5 |

DECO13_3DERA020-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="4"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="5"/> | if present, describe: <input type="text" value="Max extent includes brush management zone near homes"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Deinandra conjugens* (Otay Tarplant)**
Dennery Ranch

MSP Occurrence ID: DECO13_3DERA020 - 1

Photo not available.

Deinandra conjugens - Dennery Ranch



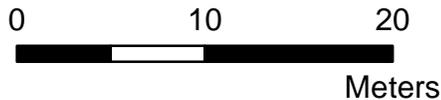
Area 2018: 3.1 sq. m.

 Photopoint

SPECIES

 *Deinandra conjugens*

Pop. Area 2000 - 2018
Max Area: 43,623.64 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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DECO13_3DREA021-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DECO13_3DREA021-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Ambrosia chenopodiifolia - San Diego bur ragweed | Native | Perennial | Shrub | 0.2 |
| Brassica nigra - black mustard | Nonnative | Annual | Herb | 0.2 |
| Bromus hordeaceus - soft brome | Nonnative | Annual | Grass | 1 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 20 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Deinandra conjugens - Otay tarplant | Native | Annual | Herb | 0.2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 0.2 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 0.2 |
| Lysimachia arvensis - scarlet pimpernel | Nonnative | Annual | Herb | 0.2 |
| Simmondsia chinensis - jojoba | Native | Perennial | Shrub | 3 |

DECO13_3DREA021-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

Nonnative Forbs:

Feral Pig Activity:

Altered Hydrology:

Nonnative Grass:

Trampling:

Erosion:

Nonnative Woody Plants:

Vandalism:

Urban Runoff:

Competitive Native Plants:

Current Grazing:

Slope Movement:

Dumping/Trash:

Historic Grazing:

Soil Compaction:

Encampments:

Historic Agriculture:

Fuel Modification Zone/ Fire Break:

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

Clean up trash from old encampment, continue preserve stewardship

VII. MANAGEMENT ACTIONS IN LAST YEAR

Preserve stewardship

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

none

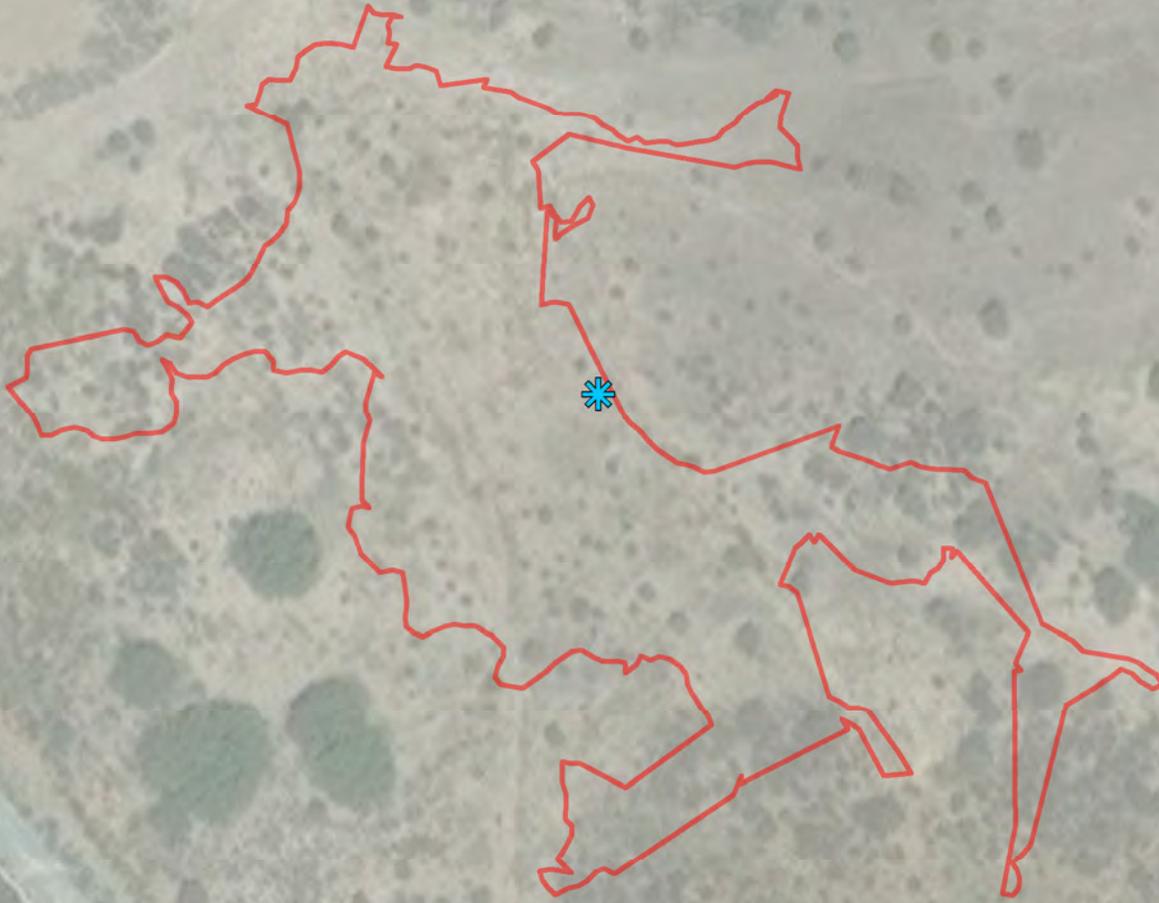
NOTES:

Photo taken from center of circle plot

***Deinandra conjugens* (Otay Tarplant)**
Dennerly Ranch East
MSP Occurrence ID: DECO13_3DREA021 - 1



Deinandra conjugens - Dennergy Ranch East



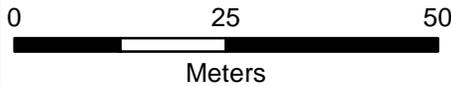
Area 2018: 3,936.8 sq. m.

 Photopoint

SPECIES

 Deinandra conjugens

Pop. Area 2000 - 2018
Max Area: 55,840.2 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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DECO13_3PRVA013-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DECO13_3PRVA013-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 2 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 0.2 |
| Avena sp. - oat | Nonnative | Annual | Grass | 0.2 |
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 0.2 |
| Brachypodium distachyon - purple false brome | Nonnative | Annual | Grass | 70 |
| Brassica tournefortii - Asian mustard | Nonnative | Annual | Herb | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 0.2 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 1 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Gutierrezia californica - San Joaquin snakeweed | Native | Perennial | Shrub | 0.2 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 1 |
| Pseudognaphalium californicum - ladies' tobacco | Native | Perennial | Herb | 0.2 |
| Salsola tragus - prickly Russian thistle | Nonnative | Annual | Herb | 1 |
| Stipa pulchra - purple needle grass | Native | Perennial | Grass | 3 |

DECO13_3PRVA013-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="4"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="7"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="3"/> | if trails are present, are they authorized? <input type="text"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text"/> | Biking: <input type="text"/> | Equestrian: <input type="text"/> |
| Dog: <input type="text"/> | Service Vehicles: <input type="text"/> | Other: <input type="text"/> |
| Illegal Trail Use: <input type="text"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

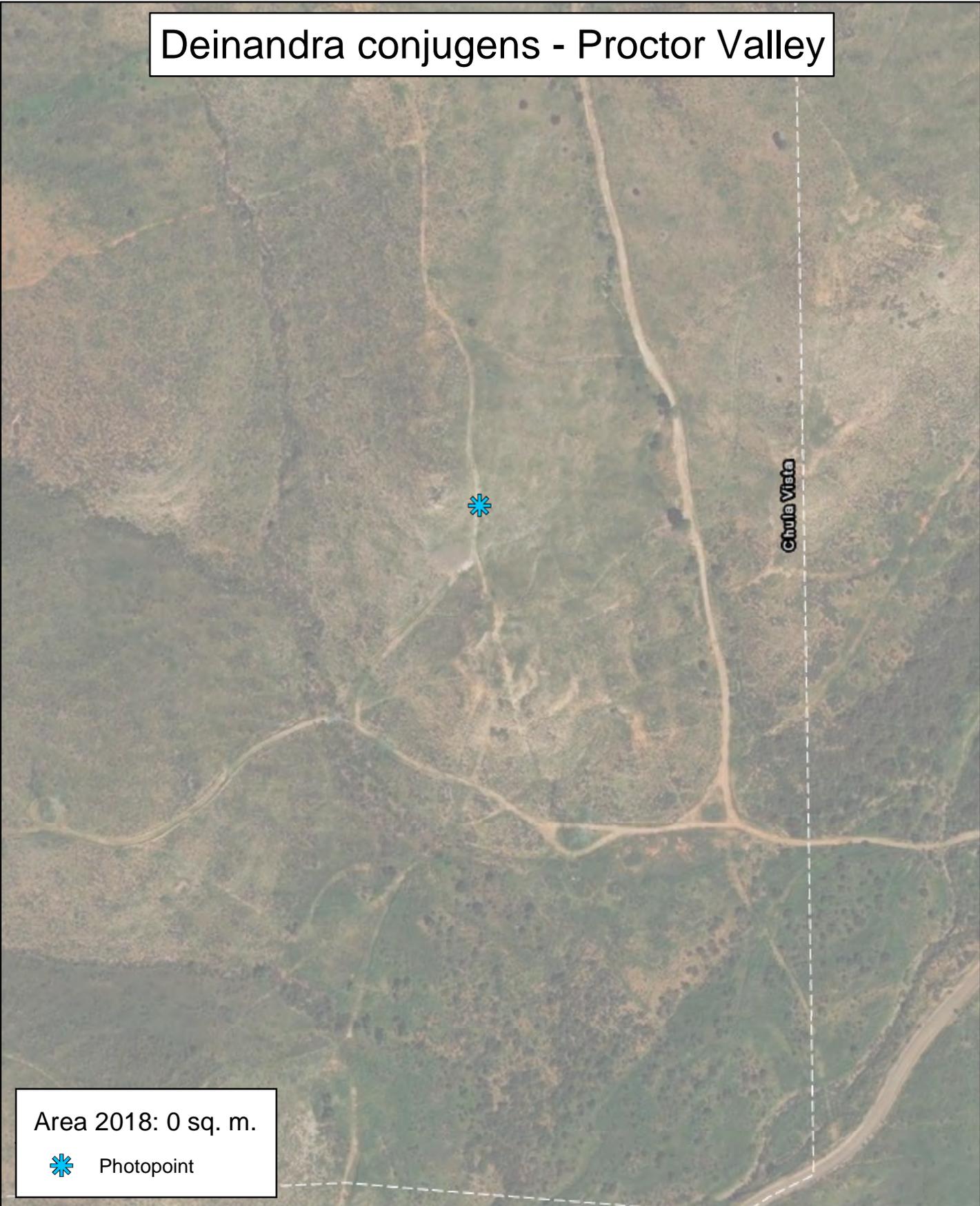
NOTES:

***Deinandra conjugens* (Otay Tarplant)**
Proctor Valley

MSP Occurrence ID: DECO13_3PRVA013 - 1

Photo not available.

Deinandra conjugens - Proctor Valley

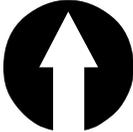


Area 2018: 0 sq. m.
* Photopoint

Pop. Area 2003 - 2018
Max Area: 3,347.3 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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Dicranostegia orcuttiana
Orcutt's Bird's Beak



© City of San Diego, 2015

COOR7_3DREA007-1

2018

MSP - RARE PLANT MONITORING DATAScientific Name: Common Name: MSP Occurr. ID: Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit: Land Owner: Land Manager: Preserve Name: Occurrence Name: Surveyors: Other Surveyors: Affiliation: Survey Date: Time Start: Time End: **I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.**Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty: Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim Current Extent Mapping Method: Species Found in Max Extent If not found, known or suspected reason: Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m): Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting: Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted: Is Sampling Area Representative of Current Mapped Extent Collection Taken? Collector: Collection #: Museum/Herbarium: **II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING**GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System: Coordinates at Center of Plot: E: N: Camera Type: Coordinates of Photo Point: E: N: Photo Direction: Camera Height: Camera Angle Photo Numbers: File Location: **III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).**% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation: Total % Cover: SANDAG 2012 Vegetation Alliance/Association Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover: Average Thatch Depth (cm): Thatch Depth Max (cm): Dead Standing Biomass? Dead Standing Biomass Species: Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm): Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

COOR7_3DREA007-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 1 |
| Brassica nigra - black mustard | Nonnative | Annual | Herb | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 1 |
| Cylindropuntia prolifera - coastal cholla | Native | Perennial | Shrub | 5 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 2 |
| Peritoma arborea - bladderpod spiderflower | Native | Perennial | Shrub | 3 |
| Rhus integrifolia - lemonade berry | Native | Perennial | Shrub | 17 |
| Simmondsia chinensis - jojoba | Native | Perennial | Shrub | 8 |
| Stipa lepida - foothill needle grass | Native | Perennial | Grass | 0.2 |

COOR7_3DREA007-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Dicranostegia orcuttiana* (Orcutt's Bird's Beak)**
Dennergy Ranch East

MSP Occurrence ID: COOR7_3DREA007 - 1



Dicranostegia orcuttiana - Dennery Ranch East

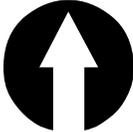


Acanthomintha ilicifolia photopoint

Dicranostegia orcuttiana photopoint

Area 2018: 0 sq. m.
* Photopoint

Pop. Area 2016 - 2018
Max Area: 165.2 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017

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COOR7_3ORVA001-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

COOR7_3ORVA001-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 5 |
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 9 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 0.2 |
| Dicranostegia orcuttiana - Orcutt's birds-beak | Native | Annual | Herb | 0.2 |
| Diplacus aurantiacus var. Aurantiacus - sticky monkeyflower | Native | Perennial | Shrub | 21 |
| Dudleya pulverulenta - chalk dudleya | Native | Perennial | Herb | 0.2 |
| Galium angustifolium - narrowleaf bedstraw | Native | Perennial | Herb | 0.2 |
| Malosma laurina - laurel sumac | Native | Perennial | Shrub | 2 |
| Peritoma arborea - bladderpod spiderflower | Native | Perennial | Shrub | 0.2 |
| Rhamnus crocea - spiny redberry | Native | Perennial | Shrub | 1 |
| Salvia apiana - white sage | Native | Perennial | Shrub | 1 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 2 |
| Toxicodendron diversilobum - poison oak | Native | Perennial | Shrub | 0.2 |

COOR7_3ORVA001-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

Nonnative Forbs:

Feral Pig Activity:

Altered Hydrology:

Nonnative Grass:

Trampling:

Erosion:

Nonnative Woody Plants:

Vandalism:

Urban Runoff:

Competitive Native Plants:

Current Grazing:

Slope Movement:

Dumping/Trash:

Historic Grazing:

Soil Compaction:

Encampments:

Historic Agriculture:

Fuel Modification Zone/ Fire Break:

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Dicranostegia orcuttiana* (Orcutt's Bird's Beak)**
Otay River Valley

MSP Occurrence ID: COOR7_3ORVA001 - 1



Dicranostegia orcuttiana - Otay River Valley



Pop. Area 2003 - 2018
Max Area: 754.8 sq. m.
Min Area: 9.0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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Dudleya brevifolia
Short-Leaved Dudleya



© City of San Diego, 2016

DUBLB2_6CMR001-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DUBLB2_6CMPR001-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Adenostoma fasciculatum - chamise | Native | Perennial | Shrub | 4 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 5 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Dudleya brevifolia - Short-leaved dudleya | Native | Perennial | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 4 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Ferocactus viridescens - San Diego barrel cactus | Native | Perennial | Shrub | 0.2 |
| Opuntia littoralis - coastal pricklypear | Native | Perennial | Shrub | 0.2 |
| Osmadenia tenella - false rosinweed | Native | Annual | Herb | 0.2 |
| Plantago erecta - California plantain | Native | Annual | Herb | 10 |
| Pseudognaphalium californicum - ladies' tobacco | Native | Perennial | Herb | 0.2 |
| Quercus dumosa - Nuttall's scrub oak | Native | Perennial | Shrub | 0.2 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 29 |
| Xylococcus bicolor - mission manzanita | Native | Perennial | Shrub | 1 |

DUBLB2_6CMR001-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="3"/> | if trails are present, are they authorized? <input type="text"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text"/> | Biking: <input type="text"/> | Equestrian: <input type="text"/> |
| Dog: <input type="text"/> | Service Vehicles: <input type="text"/> | Other: <input type="text"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Dudleya brevifolia* (Short-Leaved Dudleya)**
Carmel Mountain Subpopulation # 1

MSP Occurrence ID: DUBLB2_6CMPR001 - 1



Dudleya brevifolia - Carmel Mountain Subpop 1



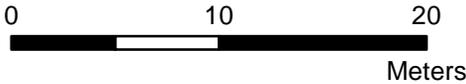
Area 2018: 84.5 sq. m.

 Photopoint

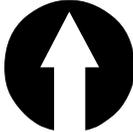
SPECIES

 Dudleya brevifolia

Pop. Area 2001 - 2018
Max Area: 313.3 sq. m.
Min Area: 84.5 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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DUBLB2_6CMR001-2

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DUBLB2_6CMR001-2

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|--|----------------------|----------------------|------------|---------|
| Adenostoma fasciculatum - chamise | Native | Perennial | Shrub | 7 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 0.2 |
| Cardionema ramosissimum - sandcarpet | Native | Perennial | Herb | 0.2 |
| Chorizanthe polygonoides - knotweed spineflower | Native | Annual | Herb | 0.2 |
| Crassula connata - sand pygmyweed | Native | Annual | Herb | 0.2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Dudleya brevifolia - Short-leaved dudleya | Native | Perennial | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 1 |
| Eryngium aristulatum var. parishii - San Diego button celery | Native | Annual | Herb | 0.2 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 0.2 |
| Navarretia hamata - hooked pincushionplant | Native | Annual | Herb | 0.2 |
| Pogogyne abramsii - San Diego mesa mint | Native | Annual | Herb | 0.2 |
| Pseudognaphalium stramineum - cottonbatting plant | Native | Perennial | Herb | 0.2 |
| Schismus barbatus - common Mediterranean grass | Nonnative | Annual | Grass | 0.2 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 20 |
| Spergularia bocconi - sand spurry | Nonnative | Annual | Herb | 0.2 |
| Xylococcus bicolor - mission manzanita | Native | Perennial | Shrub | 0.2 |

DUBLB2_6CMR001-2

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="3"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Dudleya brevifolia* (Short-Leaved Dudleya)**
Carmel Mountain Subpopulation # 2
MSP Occurrence ID: DUBLB2_6CMPR001 - 2



Dudleya brevifolia - Carmel Mountain Subpop 2



Area 2018: 81.2 sq. m.

 Photopoint

SPECIES

 Dudleya brevifolia

Pop. Area 2001 - 2018
Max Area: 249.35 sq. m.
Min Area: 26.54 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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DUBLB2_6CMR001-3

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DUBLB2_6CMPR001-3

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Adenostoma fasciculatum - chamise | Native | Perennial | Shrub | 2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 0.2 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Chorizanthe polygonoides - knotweed spineflower | Native | Annual | Herb | 0.2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Dudleya brevifolia - Short-leaved dudleya | Native | Perennial | Herb | 0.2 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 0.2 |
| Navarretia hamata - hooked pincushionplant | Native | Annual | Herb | 0.2 |
| Plantago erecta - California plantain | Native | Annual | Herb | 0.2 |
| Rhus integrifolia - lemonade berry | Native | Perennial | Shrub | 18 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 10 |
| Stipa pulchra - purple needle grass | Native | Perennial | Grass | 0.2 |

DUBLB2_6CMR001-3

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

Nonnative Forbs:

Feral Pig Activity:

Altered Hydrology:

Nonnative Grass:

Trampling:

Erosion:

Nonnative Woody Plants:

Vandalism:

Urban Runoff:

Competitive Native Plants:

Current Grazing:

Slope Movement:

Dumping/Trash:

Historic Grazing:

Soil Compaction:

Encampments:

Historic Agriculture:

Fuel Modification Zone/ Fire Break:

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Dudleya brevifolia* (Short-Leaved Dudleya)**
Carmel Mountain Subpopulation # 3
MSP Occurrence ID: DUBLB2_6CMPR001 - 3



Dudleya brevifolia - Carmel Mountain Subpop 3



Area 2018: 880.7 sq. m.

 Photopoint

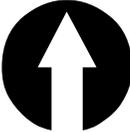
SPECIES

 Dudleya brevifolia

Pop. Area 2001 - 2018
Max Area: 1,487.37 sq. m.
Min Area: 321.5 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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DUBLB2_7CRCA003-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DUBLB2_7CRCA003-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Adenostoma fasciculatum - chamise | Native | Perennial | Shrub | 4 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 3 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 4 |
| Cneoridium dumosum - bush rue | Native | Perennial | Shrub | 1 |
| Dudleya brevifolia - Short-leaved dudleya | Native | Perennial | Herb | 1 |
| Ehrharta erecta - panic veldtgrass | Nonnative | Perennial | Grass | 0.2 |
| Eucrypta chrysanthemifolia - spotted eucrypta | Native | Annual | Herb | 0.2 |
| Galium angustifolium - narrowleaf bedstraw | Native | Perennial | Herb | 0.2 |
| Hypochaeris glabra - smooth cat's ear | Nonnative | Annual | Herb | 0.2 |
| Lepidium nitidum - shining pepperweed | Native | Annual | Herb | 0.2 |
| Marah macrocarpus - Cucamonga manroot | Native | Perennial | Herb | 0.2 |
| Plantago erecta - California plantain | Native | Annual | Herb | 7 |
| Pseudognaphalium stramineum - cottonbatting plant | Native | Perennial | Herb | 0.2 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 40 |
| Sonchus asper - spiny sowthistle | Nonnative | Annual | Herb | 0.2 |
| Spergularia bocconi - sand spurry | Nonnative | Annual | Herb | 0.2 |
| Xylococcus bicolor - mission manzanita | Native | Perennial | Shrub | 5 |

DUBLB2_7CRCA003-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="4"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

Continue preserve stewardship and continue to positively engage nearby property owners.

VII. MANAGEMENT ACTIONS IN LAST YEAR

Preserve stewardship

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

none

NOTES:

Nearby home has installed signs limiting access - good job!

***Dudleya brevifolia* (Short-Leaved Dudleya)**
Crest Canyon – Northern Subpopulation
MSP Occurrence ID: DUBLB2_7CRCA003 - 1



Dudleya brevifolia - Crest Canyon North



Area 2018: 186.0 sq. m.
* Photopoint
SPECIES
□ Dudleya brevifolia

Pop. Area 2001 - 2018
Max Area: 186.0 sq. m.
Min Area: 9.4 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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DUBLB2_7CRCA003-2

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DUBLB2_7CRCA003-2

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Adenostoma fasciculatum - chamise | Native | Perennial | Shrub | 25 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 0.2 |
| Ceanothus verrucosus - Wart-stemmed ceanothus | Native | Perennial | Shrub | 1 |
| Chorizanthe polygonoides - knotweed spineflower | Native | Annual | Herb | 0.2 |
| Cneoridium dumosum - bush rue | Native | Perennial | Shrub | 4 |
| Crassula connata - sand pygmyweed | Native | Annual | Herb | 0.2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Diplacus aurantiacus var. Aurantiacus - sticky monkeyflower | Native | Perennial | Shrub | 0.2 |
| Dudleya brevifolia - Short-leaved dudleya | Native | Perennial | Herb | 0.2 |
| Dudleya lanceolata - lanceleaf liveforever | Native | Perennial | Herb | 0.2 |
| Hazardia squarrosa - sawtooth goldenbush | Native | Perennial | Shrub | 0.2 |
| Malosma laurina - laurel sumac | Native | Perennial | Shrub | 1 |
| Marah macrocarpus - Cucamonga manroot | Native | Perennial | Herb | 0.2 |
| Salvia mellifera - black sage | Native | Perennial | Shrub | 1 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 1 |
| Spergularia bocconi - sand spurry | Nonnative | Annual | Herb | 0.2 |
| Stipa pulchra - purple needle grass | Native | Perennial | Grass | 0.2 |
| Xylococcus bicolor - mission manzanita | Native | Perennial | Shrub | 2 |

DUBLB2_7CRCA003-2

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

Nonnative Forbs:

Feral Pig Activity:

Altered Hydrology:

Nonnative Grass:

Trampling:

Erosion:

Nonnative Woody Plants:

Vandalism:

Urban Runoff:

Competitive Native Plants:

Current Grazing:

Slope Movement:

Dumping/Trash:

Historic Grazing:

Soil Compaction:

Encampments:

Historic Agriculture:

Fuel Modification Zone/ Fire Break:

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

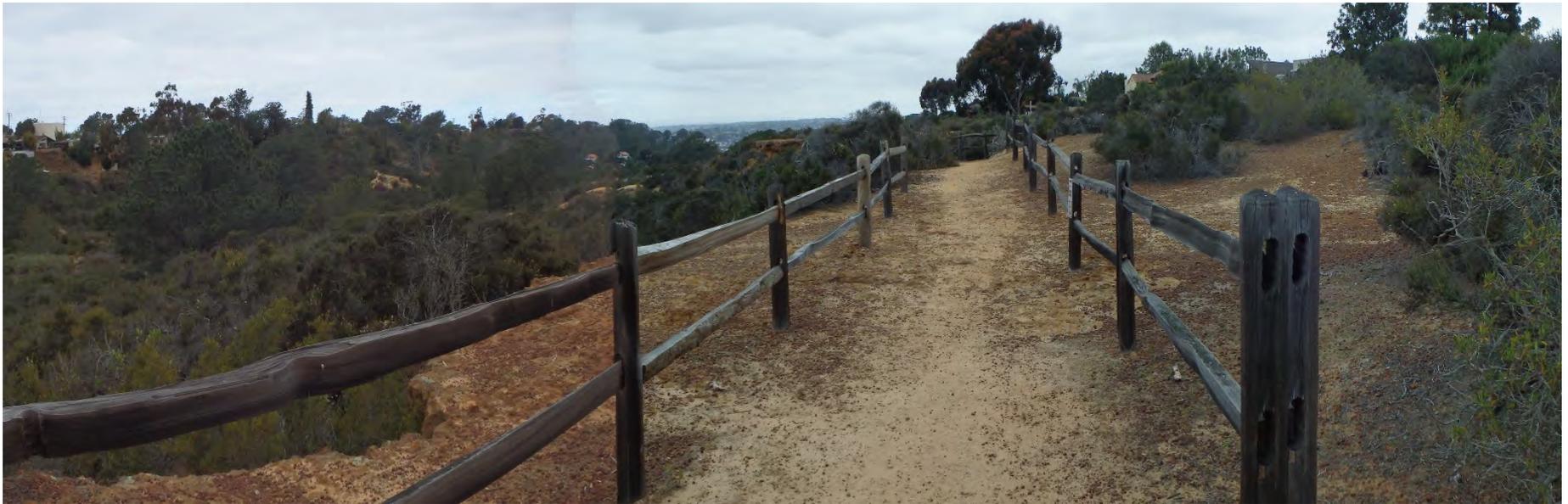
VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Dudleya brevifolia* (Short-Leaved Dudleya)**
Crest Canyon – Southern Subpopulation

MSP Occurrence ID: DUBLB2_7CRCA003 - 2



Dudleya brevifolia - Crest Canyon South



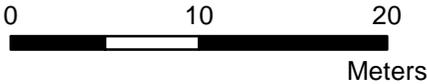
Area 2018: 13.7 sq. m.

 Photopoint

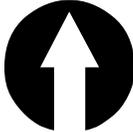
SPECIES

 Dudleya brevifolia

Pop. Area 2005 - 2018
Max Area: 126.9 sq. m.
Min Area: 4.3 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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Dudleya variegata
Variegated Dudleya



© City of San Diego, 2004

DUVA_6BMRA020-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DUVA_6BMRA020-1

2018

MSP - RARE PLANT MONITORING DATA

V. ASSOCIATED SPECIES

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 5 |
| Baccharis pilularis - coyotebrush | Native | Perennial | Shrub | 0.2 |
| Bloomeria crocea - common goldenstar | Native | Perennial | Herb | 0.2 |
| Brachypodium distachyon - purple false brome | Nonnative | Annual | Grass | 52 |
| Calochortus splendens - splendid mariposa lily | Native | Perennial | Herb | 0.2 |
| Calystegia macrostegia - island false bindweed | Native | Perennial | Herb | 0.2 |
| Corethrogyne filaginifolia - California sandaster | Native | Perennial | Herb | 0.2 |
| Cynara cardunculus - artichoke thistle | Nonnative | Perennial | Herb | 3 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 7 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 4 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 0.2 |
| Mirabilis laevis - desert wishbone bush | Native | Perennial | Herb | 1 |
| Pseudognaphalium californicum - ladies' tobacco | Native | Perennial | Herb | 0.2 |
| Salvia apiana - white sage | Native | Perennial | Shrub | 6 |
| Sisyrinchium bellum - Western blue-eyed grass | Native | Perennial | Herb | 1 |
| Sonchus asper - spiny sowthistle | Nonnative | Annual | Herb | 0.2 |
| Stipa pulchra - purple needle grass | Native | Perennial | Grass | 18 |

DUVA_6BMRA020-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="6"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

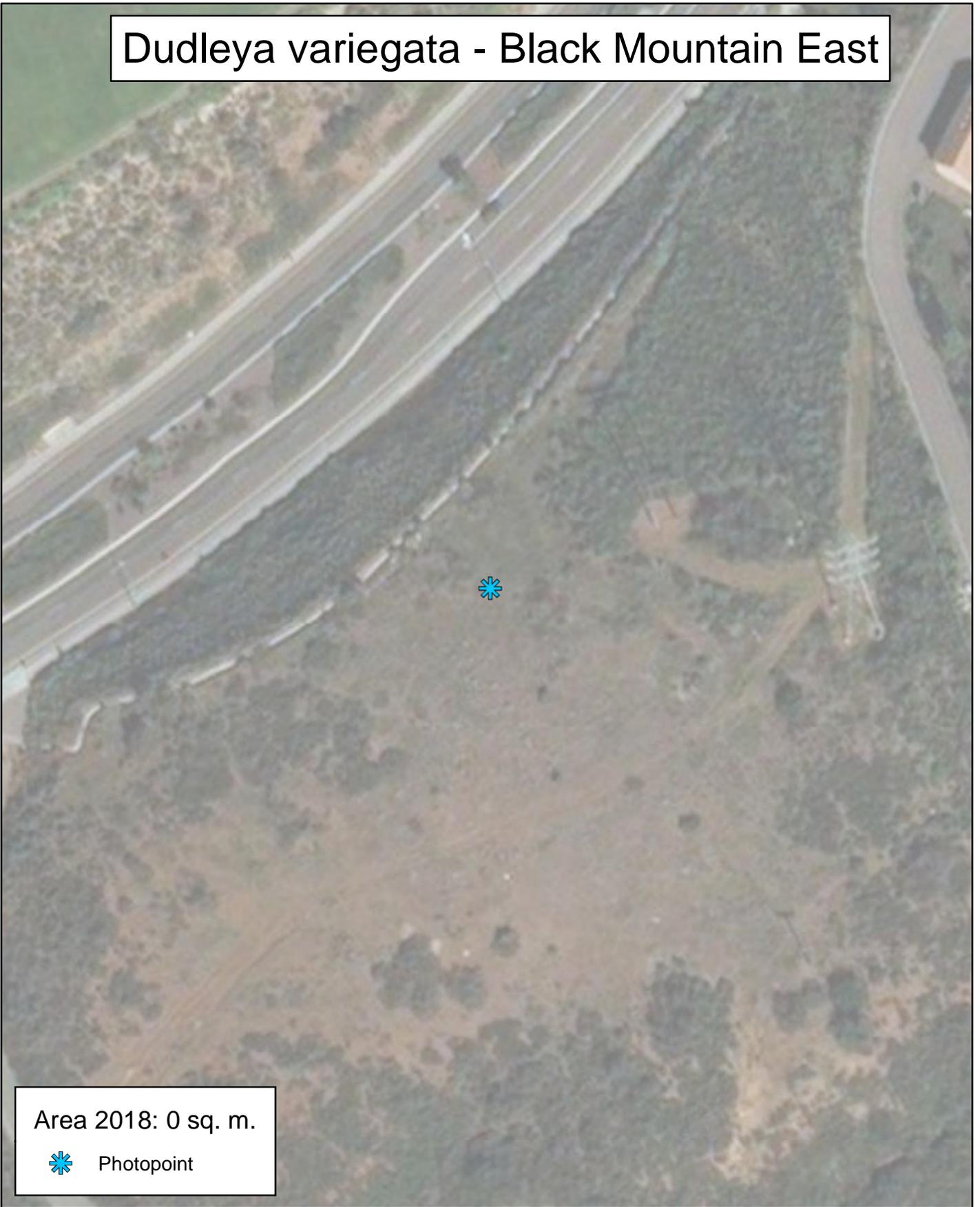
VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Dudleya variegata* (Variegated Dudleya)**
Black Mountain East
MSP Occurrence ID: DUVA_6BMRA020 - 1



Dudleya variegata - Black Mountain East



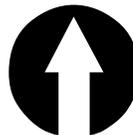
Area 2018: 0 sq. m.

 Photopoint

Pop. Area 2001 - 2018
Max Area: 1,845.9 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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DUVA_4EAELO12-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DUVA_4EAELO12-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 3 |
| Adenostoma fasciculatum - chamise | Native | Perennial | Shrub | 25 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 3 |
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 1 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Chorizanthe fimbriata - fringed spineflower | Native | Annual | Herb | 0.2 |
| Cuscuta californica - California dodder | Native | Annual | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 4 |
| Hesperoyucca whipplei - chaparral yucca | Native | Perennial | Shrub | 0.2 |
| Malosma laurina - laurel sumac | Native | Perennial | Shrub | 3 |
| Mirabilis laevis - desert wishbone bush | Native | Perennial | Herb | 0.2 |
| Opuntia littoralis - coastal pricklypear | Native | Perennial | Shrub | 0.2 |
| Porophyllum gracile - slender poreleaf | Native | Perennial | Herb | 0.2 |
| Pseudognaphalium californicum - ladies' tobacco | Native | Perennial | Herb | 0.2 |
| Quercus berberidifolia - scrub oak | Native | Perennial | Tree | 5 |
| Salvia mellifera - black sage | Native | Perennial | Shrub | 6 |
| Stipa lepida - foothill needle grass | Native | Perennial | Grass | 0.2 |

DUVA_4EAEL012-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Dudleya variegata* (Variegated Dudleya)**
East Elliott – Hilltop

MSP Occurrence ID: DUVA_4EAEL012 - 1



Dudleya variegata - East Elliott Hilltop



Area 2018: 35.9 sq. m.

 Photopoint

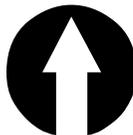
SPECIES

 Dudleya variegata

Pop. Area 2004 - 2018
Max Area: 369.1 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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DUVA_4EAELO12-2

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DUVA_4EAE012-2

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 4 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 4 |
| Avena fatua - wild oat | Nonnative | Annual | Grass | 0.2 |
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 0.2 |
| Brachypodium distachyon - purple false brome | Nonnative | Annual | Grass | 9 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 15 |
| Calochortus splendens - splendid mariposa lily | Native | Perennial | Herb | 0.2 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Diplacus aurantiacus var. Aurantiacus - sticky monkeyflower | Native | Perennial | Shrub | 2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 2 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Galium angustifolium - narrowleaf bedstraw | Native | Perennial | Herb | 1 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 1 |
| Juncus dubius - finger rush | Native | Perennial | Herb | 3 |
| Lathyrus vestitus var. alefeldii - San Diego pea | Native | Annual | Herb | 0.2 |
| Logfia gallica - narrowleaf cottonrose | Nonnative | Annual | Herb | 0.2 |
| Lysimachia arvensis - scarlet pimpernel | Nonnative | Annual | Herb | 0.2 |
| Malosma laurina - laurel sumac | Native | Perennial | Shrub | 5 |
| Pseudognaphalium stramineum - cottonbatting plant | Native | Perennial | Herb | 0.2 |
| Rhamnus crocea - spiny redberry | Native | Perennial | Shrub | 3 |
| Salsola tragus - prickly Russian thistle | Nonnative | Annual | Herb | 0.2 |
| Salvia apiana - white sage | Native | Perennial | Shrub | 7 |
| Salvia mellifera - black sage | Native | Perennial | Shrub | 15 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 0.2 |
| Stipa pulchra - purple needle grass | Native | Perennial | Grass | 5 |

DUVA_4EAEL012-2

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="5"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="3"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="3"/> | if trails are present, are they authorized? <input type="text"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text"/> | Biking: <input type="text"/> | Equestrian: <input type="text"/> |
| Dog: <input type="text"/> | Service Vehicles: <input type="text"/> | Other: <input type="text"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

Continue preserve stewardship and perform weed control for invasive grasses as funding permits

VII. MANAGEMENT ACTIONS IN LAST YEAR

Preserve stewardship

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

none

NOTES:

Photos on Sara's phone 20180508_135537

***Dudleya variegata* (Variegated Dudleya)**

East Elliott – Creek

MSP Occurrence ID: DUVA_4EAEL012 - 2



Dudleya variegata - East Elliott Creek



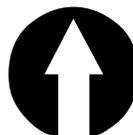
Area 2018: 0 sq. m.

 Photopoint

Pop. Area 2004 - 2018
Max Area: 1,725.2 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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DUVA_3GOME003-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:
 Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:
 Land Owner: Land Manager:
 Preserve Name: Occurrence Name:
 Surveyors: Other Surveyors:
 Affiliation:
 Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:
 Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim
 Current Extent Mapping Method: Species Found in Max Extent
 If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):
 Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:
 Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:
 Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:
 Coordinates at Center of Plot: E: N:
 Camera Type: Coordinates of Photo Point: E: N:
 Photo Direction: Camera Height: Camera Angle Photo Numbers:
 File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:
 Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DUVA_3GOME003-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Ambrosia chenopodiifolia - San Diego bur ragweed | Native | Perennial | Shrub | 1 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 6 |
| Cylindropuntia californica - snake cholla | Native | Perennial | Herb | 1 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Dudleya variegata - Variegated dudleya | Native | Perennial | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 9 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 1 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Ferocactus viridescens - San Diego barrel cactus | Native | Perennial | Shrub | 0.2 |
| Logfia gallica - narrowleaf cottonrose | Nonnative | Annual | Herb | 0.2 |
| Psilocarphus brevissimus - woolly marble | Native | Annual | Herb | 0.2 |
| Salsola tragus - prickly Russian thistle | Nonnative | Annual | Herb | 0.2 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 12 |
| Simmondsia chinensis - jojoba | Native | Perennial | Shrub | 10 |
| Stipa lepida - foothill needle grass | Native | Perennial | Grass | 1 |

DUVA_3GOME003-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Dudleya variegata* (Variegated Dudleya)**
Goat Mesa/Spring Canyon
MSP Occurrence ID: DUVA_3GOME003 - 1



Dudleya variegata - Spring Canyon



Area 2018: 72.3 sq. m.

 Photopoint

SPECIES

 Dudleya variegata

Pop. Area 2003 - 2018
Max Area: 1,065.54 sq. m.
Min Area: 37.0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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DUVA_3MAVA004-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DUVA_3MAVA004-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 1 |
| Avena sp. - oat | Nonnative | Annual | Grass | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 25 |
| Crassula connata - sand pygmyweed | Native | Annual | Herb | 0.2 |
| Dudleya variegata - Variegated dudleya | Native | Perennial | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 0.2 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 50 |
| Gutierrezia californica - San Joaquin snakeweed | Native | Perennial | Shrub | 0.2 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 0.2 |
| Lepidium nitidum - shining pepperweed | Native | Annual | Herb | 0.2 |
| Plantago erecta - California plantain | Native | Annual | Herb | 1 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 5 |
| Silene gallica - common catchfly | Nonnative | Annual | Herb | 0.2 |
| Stipa pulchra - purple needle grass | Native | Perennial | Grass | 0.2 |

DUVA_3MAVA004-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

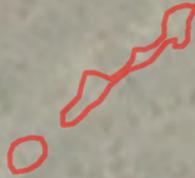
***Dudleya variegata* (Variegated Dudleya)**
Marron Valley

MSP Occurrence ID: DUVA_3MAVA004 - 1



Dudleya variegata - Marron Valley

Bloomeria clevelandii
Photopoint 1



Bloomeria clevelandii
Photopoint 2



Area 2018: 286.5 sq. m.

 Photopoint

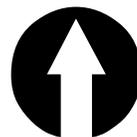
SPECIES

 Dudleya variegata

Pop. Area 2005 - 2018
Max Area: 574.64 sq. m.
Min Area: 33.6 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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DUVA_4MERO014-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DUVA_4MERO014-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|--|----------------------|----------------------|------------|---------|
| <i>Acmispon glaber</i> - deerweed | Native | Perennial | Shrub | 1 |
| <i>Adolphia californica</i> - California adolphia | Native | Perennial | Shrub | 1 |
| <i>Artemisia californica</i> - coastal sagebrush | Native | Perennial | Shrub | 2 |
| <i>Bloomeria crocea</i> - common goldenstar | Native | Perennial | Herb | 0.2 |
| <i>Bromus madritensis</i> - compact brome | Nonnative | Annual | Grass | 4 |
| <i>Calochortus splendens</i> - splendid mariposa lily | Native | Perennial | Herb | 0.2 |
| <i>Centaurea melitensis</i> - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| <i>Chlorogalum parviflorum</i> - smallflower soap plant | Native | Perennial | Herb | 0.2 |
| <i>Corethrogyne filaginifolia</i> - California sandaster | Native | Perennial | Herb | 0.2 |
| <i>Daucus pusillus</i> - American wild carrot | Native | Annual | Herb | 0.2 |
| <i>Deinandra fasciculata</i> - clustered tarweed | Native | Annual | Herb | 0.2 |
| <i>Erodium botrys</i> - longbeak stork's bill | Nonnative | Annual | Herb | 5 |
| <i>Festuca myuros</i> - rattail fescue | Nonnative | Annual | Grass | 2 |
| <i>Hypochaeris glabra</i> - smooth cat's ear | Nonnative | Annual | Herb | 0.2 |
| <i>Isocoma menziesii</i> - Menzies' goldenbush | Native | Perennial | Shrub | 3 |
| <i>Lomatium dasycarpum</i> - woollyfruit desertparsley | Nonnative | Perennial | Herb | 3 |
| <i>Peritoma arborea</i> - bladderpod spiderflower | Native | Perennial | Shrub | 0.2 |
| <i>Salvia mellifera</i> - black sage | Native | Perennial | Shrub | 0.2 |
| <i>Selaginella bigelovii</i> - Bigelow's spike moss | Native | Perennial | Fern | 0.2 |
| <i>Selaginella cinerascens</i> - mesa spikemoss | Native | Perennial | Fern | 7 |
| <i>Sisyrinchium bellum</i> - Western blue-eyed grass | Native | Perennial | Herb | 0.2 |
| <i>Stipa lepida</i> - foothill needle grass | Native | Perennial | Grass | 10 |
| <i>Stipa pulchra</i> - purple needle grass | Native | Perennial | Grass | 0.2 |

DUVA_4MERO014-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

Nonnative Forbs:

Feral Pig Activity:

Altered Hydrology:

Nonnative Grass:

Trampling:

Erosion:

Nonnative Woody Plants:

Vandalism:

Urban Runoff:

Competitive Native Plants:

Current Grazing:

Slope Movement:

Dumping/Trash:

Historic Grazing:

Soil Compaction:

Encampments:

Historic Agriculture:

Fuel Modification Zone/ Fire Break:

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

Continue preserve stewardship

VII. MANAGEMENT ACTIONS IN LAST YEAR

Preserve stewardship

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

CAGN heard calling up slope to north

NOTES:

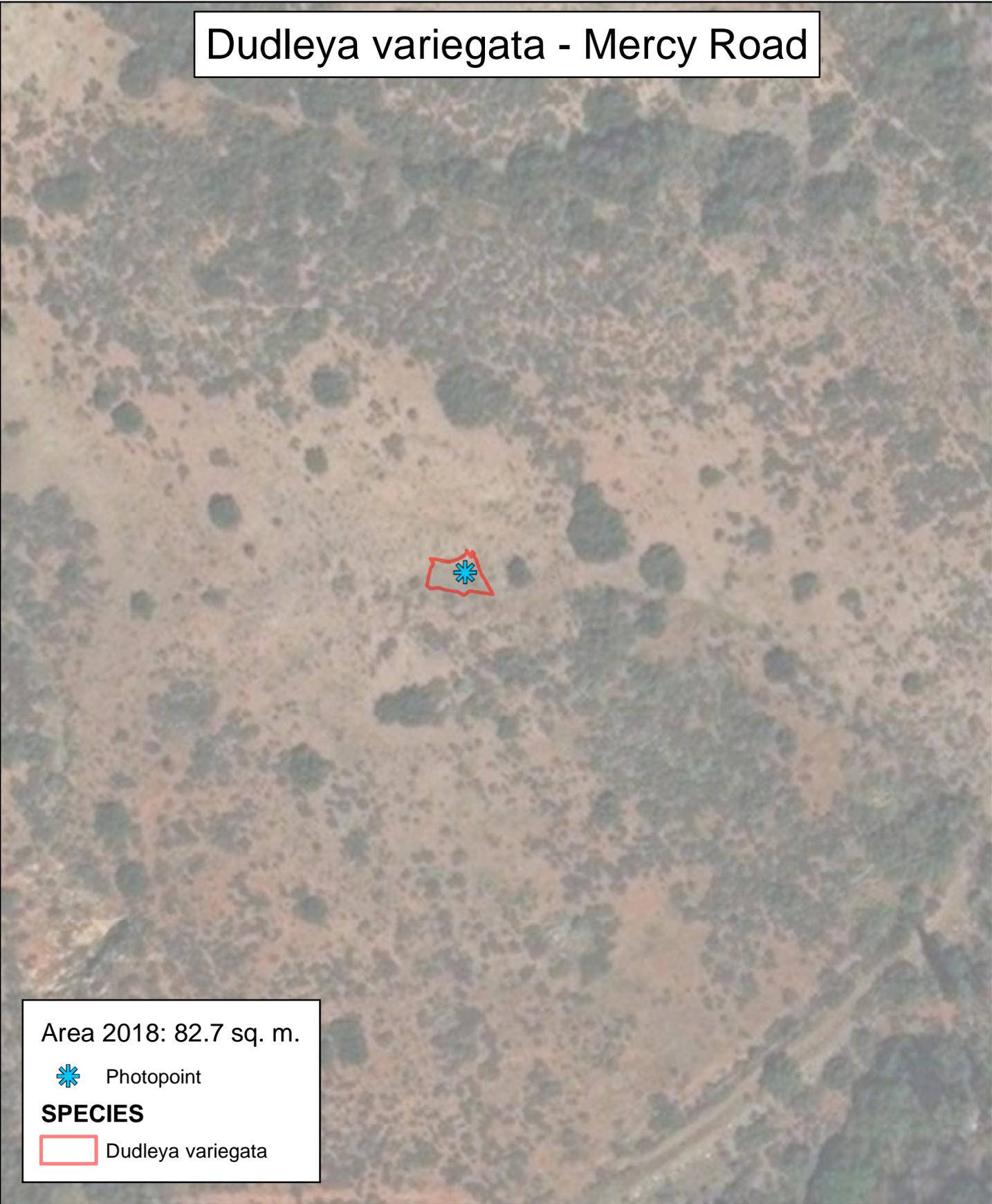
Photos 100-0714 - 100-0717

***Dudleya variegata* (Variegated Dudleya)**
Mercy Road

MSP Occurrence ID: DUVA_4MERO014 - 1



Dudleya variegata - Mercy Road



Area 2018: 82.7 sq. m.

 Photopoint

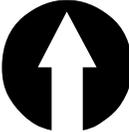
SPECIES

 Dudleya variegata

Pop. Area 2003 - 2018
Max Area: 494.99 sq. m.
Min Area: 66.0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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DUVA_4MTRP015-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DUVA_4MTRP015-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 1 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 2 |
| Bahiopsis laciniata - torhleaf goldeneye | Native | Perennial | Shrub | 1 |
| Brachypodium distachyon - purple false brome | Nonnative | Annual | Grass | 6 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 4 |
| Chlorogalum parviflorum - smallflower soap plant | Native | Perennial | Herb | 0.2 |
| Crassula connata - sand pygmyweed | Native | Annual | Herb | 0.2 |
| Dudleya variegata - Variegated dudleya | Native | Perennial | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 20 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 6 |
| Ferocactus viridescens - San Diego barrel cactus | Native | Perennial | Shrub | 0.2 |
| Lepidium nitidum - shining pepperweed | Native | Annual | Herb | 0.2 |
| Melinis repens - natal grass | Nonnative | Perennial | Grass | 0.2 |
| Mirabilis laevis - desert wishbone bush | Native | Perennial | Herb | 0.2 |
| Opuntia littoralis - coastal pricklypear | Native | Perennial | Shrub | 0.2 |
| Peritoma arborea - bladderpod spiderflower | Native | Perennial | Shrub | 1 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 12 |
| Stipa pulchra - purple needle grass | Native | Perennial | Grass | 1 |

DUVA_4MTRP015-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

Nonnative Forbs:

Feral Pig Activity:

Altered Hydrology:

Nonnative Grass:

Trampling:

Erosion:

Nonnative Woody Plants:

Vandalism:

Urban Runoff:

Competitive Native Plants:

Current Grazing:

Slope Movement:

Dumping/Trash:

Historic Grazing:

Soil Compaction:

Encampments:

Historic Agriculture:

Fuel Modification Zone/ Fire Break:

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Dudleya variegata* (Variegated Dudleya)**
Mission Trails Regional Park Subpopulation # 1
MSP Occurrence ID: DUVA_4MTRP015 - 1



Dudleya variegata - Mission Trails Regional Park Point 1



Area 2018: 36.0 sq. m.

 Photopoint

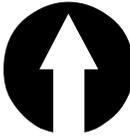
SPECIES

 Dudleya variegata

Pop. Area 2004 - 2018
Max Area: 386.4 sq. m.
Min Area: 2.78 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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DUVA_4MTRP015-2

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DUVA_4MTRP015-2

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|--|----------------------|----------------------|------------|---------|
| <i>Acmispon glaber</i> - deerweed | Native | Perennial | Shrub | 2 |
| <i>Artemisia californica</i> - coastal sagebrush | Native | Perennial | Shrub | 1 |
| <i>Avena fatua</i> - wild oat | Nonnative | Annual | Grass | 0.2 |
| <i>Bahiopsis laciniata</i> - torhleaf goldeneye | Native | Perennial | Shrub | 0.2 |
| <i>Brachypodium distachyon</i> - purple false brome | Nonnative | Annual | Grass | 35 |
| <i>Bromus madritensis</i> - compact brome | Nonnative | Annual | Grass | 5 |
| <i>Centaurea melitensis</i> - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| <i>Chlorogalum pomeridianum</i> - soap plant | Native | Perennial | Herb | 0.2 |
| <i>Corethrogyne filaginifolia</i> - California sandaster | Native | Perennial | Herb | 0.2 |
| <i>Dudleya variegata</i> - Variegated dudleya | Native | Perennial | Herb | 0.2 |
| <i>Eriogonum fasciculatum</i> - Eastern Mojave buckwheat | Native | Perennial | Shrub | 15 |
| <i>Erodium botrys</i> - longbeak stork's bill | Nonnative | Annual | Herb | 15 |
| <i>Ferocactus viridescens</i> - San Diego barrel cactus | Native | Perennial | Shrub | 0.2 |
| <i>Hazardia squarrosa</i> - sawtooth goldenbush | Native | Perennial | Shrub | 0.2 |
| <i>Logfia gallica</i> - narrowleaf cottonrose | Nonnative | Annual | Herb | 0.2 |
| <i>Malosma laurina</i> - laurel sumac | Native | Perennial | Shrub | 4 |
| <i>Osmadenia tenella</i> - false rosinweed | Native | Annual | Herb | 0.2 |
| <i>Selaginella cinerascens</i> - mesa spikemoss | Native | Perennial | Fern | 5 |
| <i>Sisyrinchium bellum</i> - Western blue-eyed grass | Native | Perennial | Herb | 0.2 |
| <i>Stipa lepida</i> - foothill needle grass | Native | Perennial | Grass | 0.2 |

DUVA_4MTRP015-2

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

Nonnative Forbs:

Feral Pig Activity:

Altered Hydrology:

Nonnative Grass:

Trampling:

Erosion:

Nonnative Woody Plants:

Vandalism:

Urban Runoff:

Competitive Native Plants:

Current Grazing:

Slope Movement:

Dumping/Trash:

Historic Grazing:

Soil Compaction:

Encampments:

Historic Agriculture:

Fuel Modification Zone/ Fire Break:

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

Continue preserve stewardship and perform weed control for erosion and brachypodium

VII. MANAGEMENT ACTIONS IN LAST YEAR

Preserve stewardship

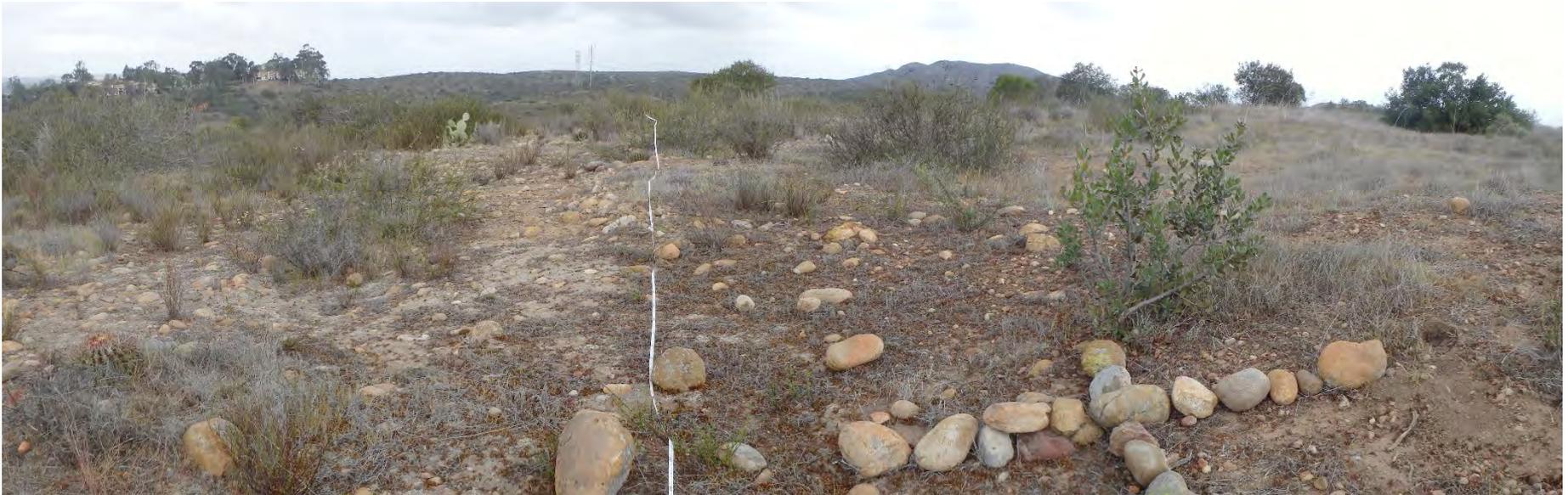
VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

none

NOTES:

photos: 100-0691 - 100-0694

***Dudleya variegata* (Variegated Dudleya)**
Mission Trails Regional Park Subpopulation # 2
MSP Occurrence ID: DUVA_4MTRP015 - 2



Dudleya variegata - Mission Trails Regional Park Point 2



Area 2018: 138.1 sq. m.

 Photopoint

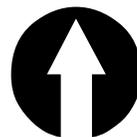
SPECIES

 Dudleya variegata

Pop. Area 2004 - 2018
Max Area: 241.36 sq. m.
Min Area: 36.16 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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DUVA_4MTRP015-3

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:
 Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:
 Land Owner: Land Manager:
 Preserve Name: Occurrence Name:
 Surveyors: Other Surveyors:
 Affiliation:
 Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:
 Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim
 Current Extent Mapping Method: Species Found in Max Extent
 If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):
 Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:
 Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:
 Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:
 Coordinates at Center of Plot: E: N:
 Camera Type: Coordinates of Photo Point: E: N:
 Photo Direction: Camera Height: Camera Angle Photo Numbers:
 File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:
 Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DUVA_4MTRP015-3

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|--|----------------------|----------------------|------------|---------|
| <i>Acmispon glaber</i> - deerweed | Native | Perennial | Shrub | 7 |
| <i>Artemisia californica</i> - coastal sagebrush | Native | Perennial | Shrub | 4 |
| <i>Avena barbata</i> - slender oat | Nonnative | Annual | Grass | 2 |
| <i>Brachypodium distachyon</i> - purple false brome | Nonnative | Annual | Grass | 6 |
| <i>Bromus hordeaceus</i> - soft brome | Nonnative | Annual | Grass | 0.2 |
| <i>Bromus madritensis</i> - compact brome | Nonnative | Annual | Grass | 31 |
| <i>Calochortus</i> sp. - lily | Native | Perennial | Herb | 0.2 |
| <i>Centaurea melitensis</i> - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| <i>Chlorogalum parviflorum</i> - smallflower soap plant | Native | Perennial | Herb | 0.2 |
| <i>Dichondra occidentalis</i> - western ponysfoot | Native | Perennial | Herb | 1 |
| <i>Dudleya variegata</i> - Variegated dudleya | Native | Perennial | Herb | 0.2 |
| <i>Eriogonum fasciculatum</i> - Eastern Mojave buckwheat | Native | Perennial | Shrub | 6 |
| <i>Erodium botrys</i> - longbeak stork's bill | Nonnative | Annual | Herb | 5 |
| <i>Galium angustifolium</i> - narrowleaf bedstraw | Native | Perennial | Herb | 0.2 |
| <i>Hedypnois cretica</i> - Cretanweed | Nonnative | Annual | Herb | 0.2 |
| <i>Hypochaeris glabra</i> - smooth cat's ear | Nonnative | Annual | Herb | 0.2 |
| <i>Isocoma menziesii</i> - Menzies' goldenbush | Native | Perennial | Shrub | 0.2 |
| <i>Lathyrus vestitus</i> var. <i>alefeldii</i> - San Diego pea | Native | Annual | Herb | 0.2 |
| <i>Lepidium nitidum</i> - shining pepperweed | Native | Annual | Herb | 0.2 |
| <i>Malosma laurina</i> - laurel sumac | Native | Perennial | Shrub | 6 |
| <i>Opuntia littoralis</i> - coastal pricklypear | Native | Perennial | Shrub | 0.2 |
| <i>Plantago erecta</i> - California plantain | Native | Annual | Herb | 0.2 |
| <i>Pseudognaphalium californicum</i> - ladies' tobacco | Native | Perennial | Herb | 0.2 |
| <i>Selaginella cinerascens</i> - mesa spikemoss | Native | Perennial | Fern | 8 |
| <i>Sonchus oleraceus</i> - common sowthistle | Nonnative | Annual | Herb | 0.2 |
| <i>Stipa pulchra</i> - purple needle grass | Native | Perennial | Grass | 1 |

DUVA_4MTRP015-3

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="5"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="3"/> | if trails are present, are they authorized? <input type="text"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text"/> | Biking: <input type="text"/> | Equestrian: <input type="text"/> |
| Dog: <input type="text"/> | Service Vehicles: <input type="text"/> | Other: <input type="text"/> |
| Illegal Trail Use: <input type="text"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Dudleya variegata* (Variegated Dudleya)**
Mission Trails Regional Park Subpopulation # 3
MSP Occurrence ID: DUVA_4MTRP015 - 3



Dudleya variegata - Mission Trails Regional Park Point 3



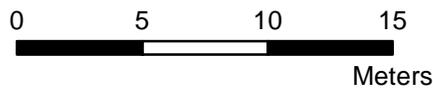
Area 2018: 23.7 sq. m.

 Photopoint

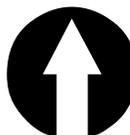
SPECIES

 Dudleya variegata

Pop. Area 2004 - 2018
Max Area: 44.7 sq. m.
Min Area: 0.04 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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DUVA_4NAVA016-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DUVA_4NAVA016-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 4 |
| Baccharis pilularis - coyotebrush | Native | Perennial | Shrub | 2 |
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 14 |
| Bloomeria crocea - common goldenstar | Native | Perennial | Herb | 0.2 |
| Brachypodium distachyon - purple false brome | Nonnative | Annual | Grass | 15 |
| Brassica nigra - black mustard | Nonnative | Annual | Herb | 0.2 |
| Bromus hordeaceus - soft brome | Nonnative | Annual | Grass | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 0.2 |
| Diplacus aurantiacus var. Aurantiacus - sticky monkeyflower | Native | Perennial | Shrub | 23 |
| Dudleya variegata - Variegated dudleya | Native | Perennial | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 3 |
| Eriophyllum confertiflorum - golden yarrow | Native | Annual | Herb | 0.2 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 0.2 |
| Hedynois cretica - Cretanweed | Nonnative | Annual | Herb | 0.2 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 1 |
| Logfia gallica - narrowleaf cottonrose | Nonnative | Annual | Herb | 0.2 |
| Lysimachia arvensis - scarlet pimpernel | Nonnative | Annual | Herb | 0.2 |
| Salvia mellifera - black sage | Native | Perennial | Shrub | 1 |
| Sanicula arguta - sharp toothed snakeroot | Native | Perennial | Herb | 0.2 |
| Sisyrinchium bellum - Western blue-eyed grass | Native | Perennial | Herb | 4 |
| Sonchus asper - spiny sowthistle | Nonnative | Annual | Herb | 0.2 |
| Stipa pulchra - purple needle grass | Native | Perennial | Grass | 2 |

DUVA_4NAVA016-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="6"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="2"/> | if present, describe: <input type="text" value="Annual dethatch and targeted herbicide treatments to control invasive species."/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Dudleya variegata* (Variegated Dudleya)**
Navajo/Mission Gorge

MSP Occurrence ID: DUVA_4NAVA016 - 1



Dudleya variegata - Navajo/Mission Gorge



Area 2018: 14.3 sq. m.

 Photopoint

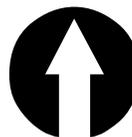
SPECIES

 Dudleya variegata

Pop. Area 2003 - 2018
Max Area: 451.44 sq. m.
Min Area: 14.3 sq. m.

0 10 20 Meters

Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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DUVA_30TLA005-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DUVA_30TLA005-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 0.2 |
| Bloomeria clevelandii - San Diego goldenstar | Native | Perennial | Herb | 0.2 |
| Bromus hordeaceus - soft brome | Nonnative | Annual | Grass | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 2 |
| Crassula connata - sand pygmyweed | Native | Annual | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 4 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 40 |
| Isocoma menziesii - Menzies' goldenbush | Native | Perennial | Shrub | 2 |
| Lepidium nitidum - shining pepperweed | Native | Annual | Herb | 0.2 |
| Microseris douglasii - Douglas' silverpuffs | Native | Annual | Herb | 0.2 |
| Salsola tragus - prickly Russian thistle | Nonnative | Annual | Herb | 0.2 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 0.2 |

DUVA_30TLA005-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="5"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="3"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

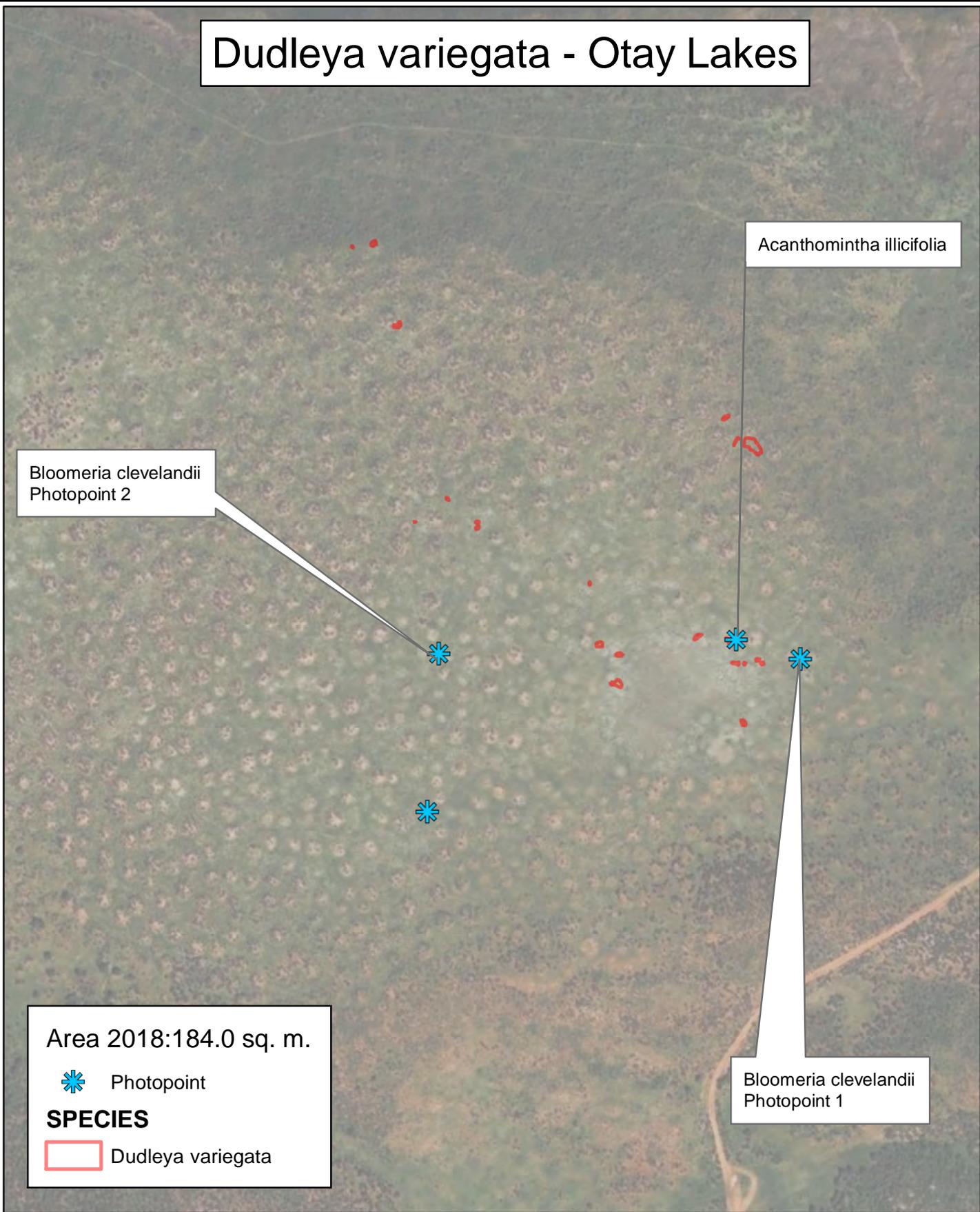
NOTES:

***Dudleya variegata* (Variegated Dudleya)**
Otay Lakes

MSP Occurrence ID: DUVA_3OTLA005 - 1



Dudleya variegata - Otay Lakes



Acanthomintha illicifolia

Bloomeria clevelandii
Photopoint 2

Bloomeria clevelandii
Photopoint 1

Area 2018:184.0 sq. m.

 Photopoint

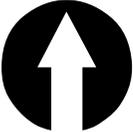
SPECIES

 Dudleya variegata

Pop. Area 2003 - 2018
Max Area: 196,313.4 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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DUVA_6SALU024-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

DUVA_6SALU024-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|--|----------------------|----------------------|------------|---------|
| <i>Acmispon glaber</i> - deerweed | Native | Perennial | Shrub | 8 |
| <i>Artemisia californica</i> - coastal sagebrush | Native | Perennial | Shrub | 3 |
| <i>Baccharis pilularis</i> - coyotebrush | Native | Perennial | Shrub | 0.2 |
| <i>Brachypodium distachyon</i> - purple false brome | Nonnative | Annual | Grass | 10 |
| <i>Brassica nigra</i> - black mustard | Nonnative | Annual | Herb | 0.2 |
| <i>Bromus madritensis</i> - compact brome | Nonnative | Annual | Grass | 5 |
| <i>Calystegia macrostegia</i> - island false bindweed | Native | Perennial | Herb | 0.2 |
| <i>Datura wrightii</i> - sacred thorn-apple | Native | Perennial | Herb | 0.2 |
| <i>Erodium botrys</i> - longbeak stork's bill | Nonnative | Annual | Herb | 5 |
| <i>Galium angustifolium</i> - narrowleaf bedstraw | Native | Perennial | Herb | 0.2 |
| <i>Lepidium nitidum</i> - shining pepperweed | Native | Annual | Herb | 0.2 |
| <i>Malacothamnus fasciculatus</i> - Mendocino bushmallow | Native | Perennial | Shrub | 0.2 |
| <i>Malosma laurina</i> - laurel sumac | Native | Perennial | Shrub | 1 |
| <i>Mirabilis laevis</i> - desert wishbone bush | Native | Perennial | Herb | 0.2 |
| <i>Sisyrinchium bellum</i> - Western blue-eyed grass | Native | Perennial | Herb | 0.2 |
| <i>Stipa pulchra</i> - purple needle grass | Native | Perennial | Grass | 0.2 |

DUVA_6SALU024-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="4"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="4"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Dudleya variegata* (Variegated Dudleya)**
Santa Luz West
MSP Occurrence ID: MSP Occurrence ID:

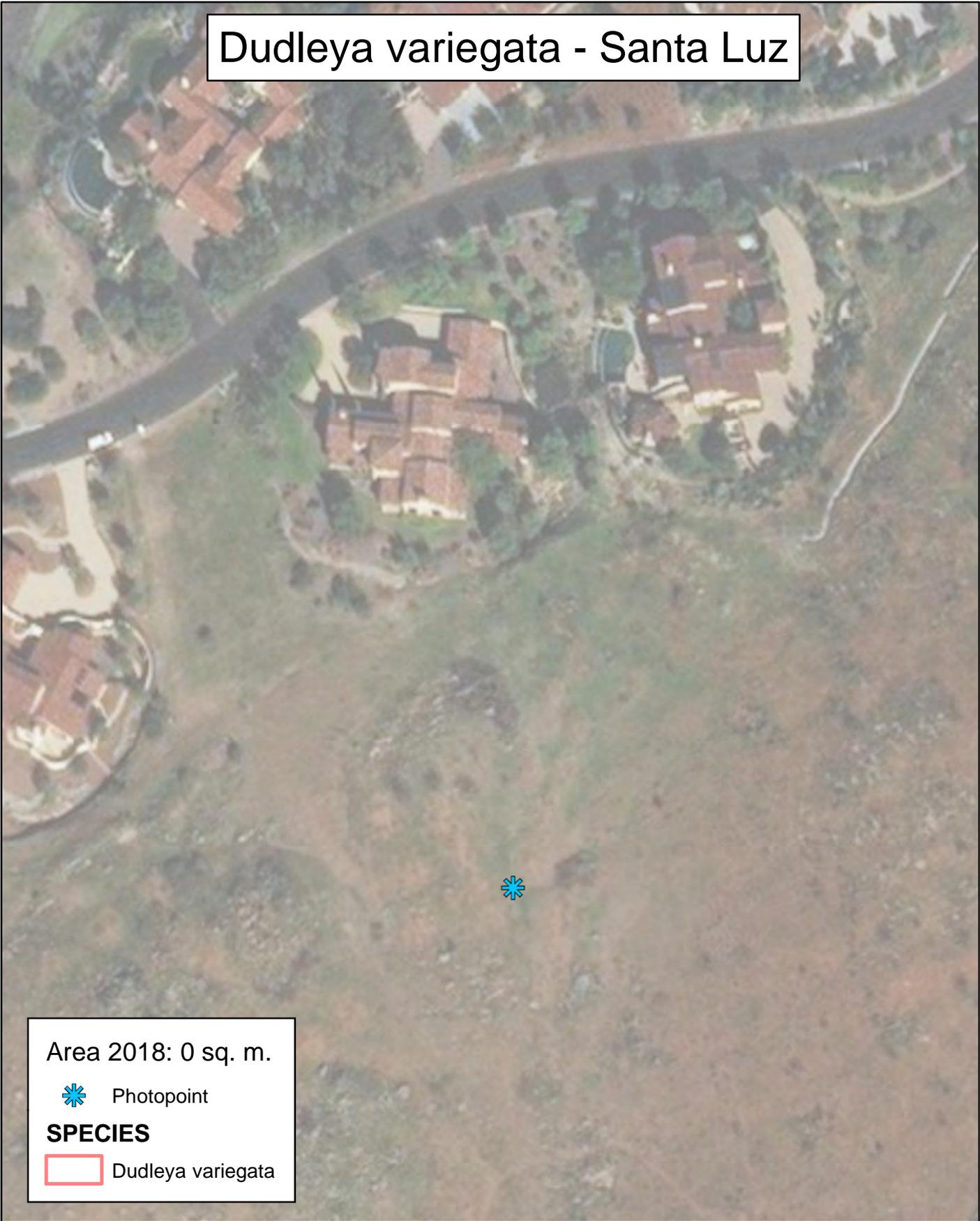


***Dudleya variegata* (Variegated Dudleya)**
Santa Luz East

MSP Occurrence ID: MSP Occurrence ID:



Dudleya variegata - Santa Luz



Area 2018: 0 sq. m.

 Photopoint

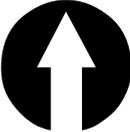
SPECIES

 Dudleya variegata

Pop. Area 2001 - 2018
Max Area: 617.05 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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Erysimum ammophilum
Coast wallflower



© City of San Diego, 2015

ERAM4_6DEMA001-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

ERAM4_6DEMA001-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 0.2 |
| Ambrosia psilostachya - Cuman ragweed | Native | Perennial | Herb | 8 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 27 |
| Artemisia palmeri - San Diego sagewort | Native | Annual | Herb | 2 |
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 4 |
| Bromus sp. - brome | Nonnative | Annual | Grass | 0.2 |
| Croton californicus - California croton | Native | Perennial | Herb | 4 |
| Erysimum ammophilum - Coast wallflower | Native | Perennial | Herb | 0.2 |
| Malosma laurina - laurel sumac | Native | Perennial | Shrub | 15 |
| Marah macrocarpus - Cucamonga manroot | Native | Perennial | Herb | 2 |
| Mirabilis laevis - desert wishbone bush | Native | Perennial | Herb | 1 |
| Nicotiana glauca - tree tobacco | Nonnative | Perennial | Shrub | 4 |
| Opuntia littoralis - coastal pricklypear | Native | Perennial | Shrub | 2 |
| Pseudognaphalium californicum - ladies' tobacco | Native | Perennial | Herb | 0.2 |
| Pterostegia drymarioides - woodland threadstem | Native | Annual | Herb | 0.2 |
| Salvia apiana - white sage | Native | Perennial | Shrub | 1 |
| Salvia mellifera - black sage | Native | Perennial | Shrub | 0.2 |
| Scrophularia californica - California figwort | Native | Perennial | Herb | 4 |
| Stephanomeria sp. - wire lettuce | Native | Annual | Herb | 0.2 |

ERAM4_6DEMA001-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="2"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="2"/> | Trampling: <input type="text" value="2"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="2"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="4"/> |

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Erysimum ammophilum* (Coast Wallflower)**

North City West Observation

MSP Occurrence ID: ERAM4_6DEMA001 - 1



Erysimum ammophilum - Overlook Park



Area 2018: 78.5 sq. m.

 Photopoint

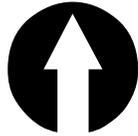
SPECIES

 Erysimum ammophilum

Pop. Area 2015 - 2018
Max Area: 420.2 sq. m.
Min Area: 78.5 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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ERAM4_6GOCA003-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

ERAM4_6GOCA003-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 10 |
| Ambrosia psilostachya - Cuman ragweed | Native | Perennial | Herb | 3 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 22 |
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 7 |
| Bromus sp. - brome | Nonnative | Annual | Grass | 3 |
| Cardionema ramosissimum - sandcarpet | Native | Perennial | Herb | 0.2 |
| Chaenactis glabriuscula - yellow pincushion | Native | Annual | Herb | 1 |
| Crassula connata - sand pygmyweed | Native | Annual | Herb | 0.2 |
| Croton californicus - California croton | Native | Perennial | Herb | 1 |
| Cylindropuntia prolifera - coastal cholla | Native | Perennial | Shrub | 0.2 |
| Daucus pusillus - American wild carrot | Native | Annual | Herb | 0.3 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 2 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Erysimum ammophilum - Coast wallflower | Native | Perennial | Herb | 0.2 |
| Opuntia littoralis - coastal pricklypear | Native | Perennial | Shrub | 1 |
| Salvia mellifera - black sage | Native | Perennial | Shrub | 3 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 2 |

ERAM4_6GOCA003-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="3"/> | if trails are present, are they authorized? <input type="text"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| | Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> |
| | | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Erysimum ammophilum* (Coast Wallflower)**
Gonzales Canyon

MSP Occurrence ID: ERAM4_6GOCA003 - 1



Panorama from Northern edge of population, facing Northeast, East, Southeast.
Panorama location is 6262965.904 1932798.061 NAD83 State Plane California Zone 6 (feet)
Photos merged using ArcSoft Panorama Maker 4.

Erysimum ammophilum - Gonzalez Canyon



Area 2018: 26.2 sq. m.

 Photopoint

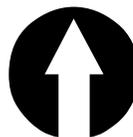
SPECIES

 Erysimum ammophilum

Pop. Area 2016 - 2018
Max Area: 925.6 sq. m.
Min Area: 26.2 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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ERAM4_7CRCA002-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

ERAM4_7CRCA002-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 5 |
| Corethrogyne filaginifolia - California sandaster | Native | Perennial | Herb | 0.2 |
| Dudleya edulis - fingertips | Native | Perennial | Herb | 0.2 |
| Dudleya pulverulenta - chalk dudleya | Native | Perennial | Herb | 0.2 |
| Ehrharta calycina - perennial veldtgrass | Nonnative | Perennial | Grass | 15 |
| Encelia californica - California brittlebush | Native | Perennial | Shrub | 3 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 5 |
| Hypochaeris glabra - smooth cat's ear | Nonnative | Annual | Herb | 0.2 |
| Malosma laurina - laurel sumac | Native | Perennial | Shrub | 3 |
| Marah macrocarpus - Cucamonga manroot | Native | Perennial | Herb | 2 |
| Mirabilis laevis - desert wishbone bush | Native | Perennial | Herb | 2 |
| Osmadenia tenella - false rosinweed | Native | Annual | Herb | 0.2 |
| Pinus torreyana - torrey pine | Native | Perennial | Tree | 1 |
| Polypodium californicum - California polypody | Native | Perennial | Fern | 4 |
| Rhamnus crocea - spiny redberry | Native | Perennial | Shrub | 1 |
| Selaginella cinerascens - mesa spikemoss | Native | Perennial | Fern | 1 |
| Stipa coronata - crested needle grass | Native | Perennial | Grass | 3 |

ERAM4_7CRCA002-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="4"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

Weed treatments recommended to control the spread of Ehrharta grass.

VII. MANAGEMENT ACTIONS IN LAST YEAR

Preserve stewardship

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

California gnatcatcher calling at parking area on Racetrack View Dr and at survey point

NOTES:

0

***Erysimum ammophilum* (Coast Wallflower)**
Crest Canyon

MSP Occurrence ID: ERAM4_7CRCA002 - 1



Erysimum ammophilum - Crest Canyon



Area 2018: 0 sq. m.

 Photopoint

Pop. Area 2015 - 2018
Max Area: 1,120.5 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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Monardella stoneana
Jennifer's Monardella



© City of San Diego, 2005

MOST_3MAVA002-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

MOST_3MAVA002-1

2018

MSP - RARE PLANT MONITORING DATA

V. ASSOCIATED SPECIES

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Ambrosia psilostachya - Cuman ragweed | Native | Perennial | Herb | 2 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 0.2 |
| Avena fatua - wild oat | Nonnative | Annual | Grass | 5 |
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 10 |
| Bahiopsis laciniata - torhleaf goldeneye | Native | Perennial | Shrub | 4 |
| Brassica tournefortii - Asian mustard | Nonnative | Annual | Herb | 0.2 |
| Bromus diandrus - ripgut brome | Nonnative | Annual | Grass | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 10 |
| Calystegia macrostegia - island false bindweed | Native | Perennial | Herb | 0.2 |
| Cuscuta occidentalis - chaparral dodder | Native | Annual | Herb | 1 |
| Dudleya pulverulenta - chalk dudleya | Native | Perennial | Herb | 0.2 |
| Ephedra californica - California jointfir | Native | Perennial | Shrub | 1 |
| Eriodictyon trichocalyx - hairy yerba santa | Native | Perennial | Shrub | 2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 9 |
| Festuca perennis - Italian rye grass | Nonnative | Annual | Grass | 0.2 |
| Funastrum cynanchoides - climbing milkweed | Native | Perennial | Herb | 0.2 |
| Galium angustifolium - narrowleaf bedstraw | Native | Perennial | Herb | 0.2 |
| Helianthemum scoparium - Bisbee peak rushrose | Native | Perennial | Shrub | 0.2 |
| Hirschfeldia incana - shortpod mustard | Nonnative | Perennial | Herb | 0.2 |
| Lepidium nitidum - shining pepperweed | Native | Annual | Herb | 0.2 |
| Lonicera subspicata - southern honeysuckle | Nonnative | Perennial | Shrub | 1 |
| Malosma laurina - laurel sumac | Native | Perennial | Shrub | 3 |
| Mirabilis laevis - desert wishbone bush | Native | Perennial | Herb | 0.2 |
| Monardella stoneana - Jennifer's monardella | Native | Perennial | Herb | 0.2 |
| Romneya trichocalyx - hairy matilija poppy | Native | Perennial | Herb | 0.2 |
| Salvia apiana - white sage | Native | Perennial | Shrub | 0.2 |
| Selaginella bigelovii - Bigelow's spike moss | Native | Perennial | Fern | 1 |

MOST_3MAVA002-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="4"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="4"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="3"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

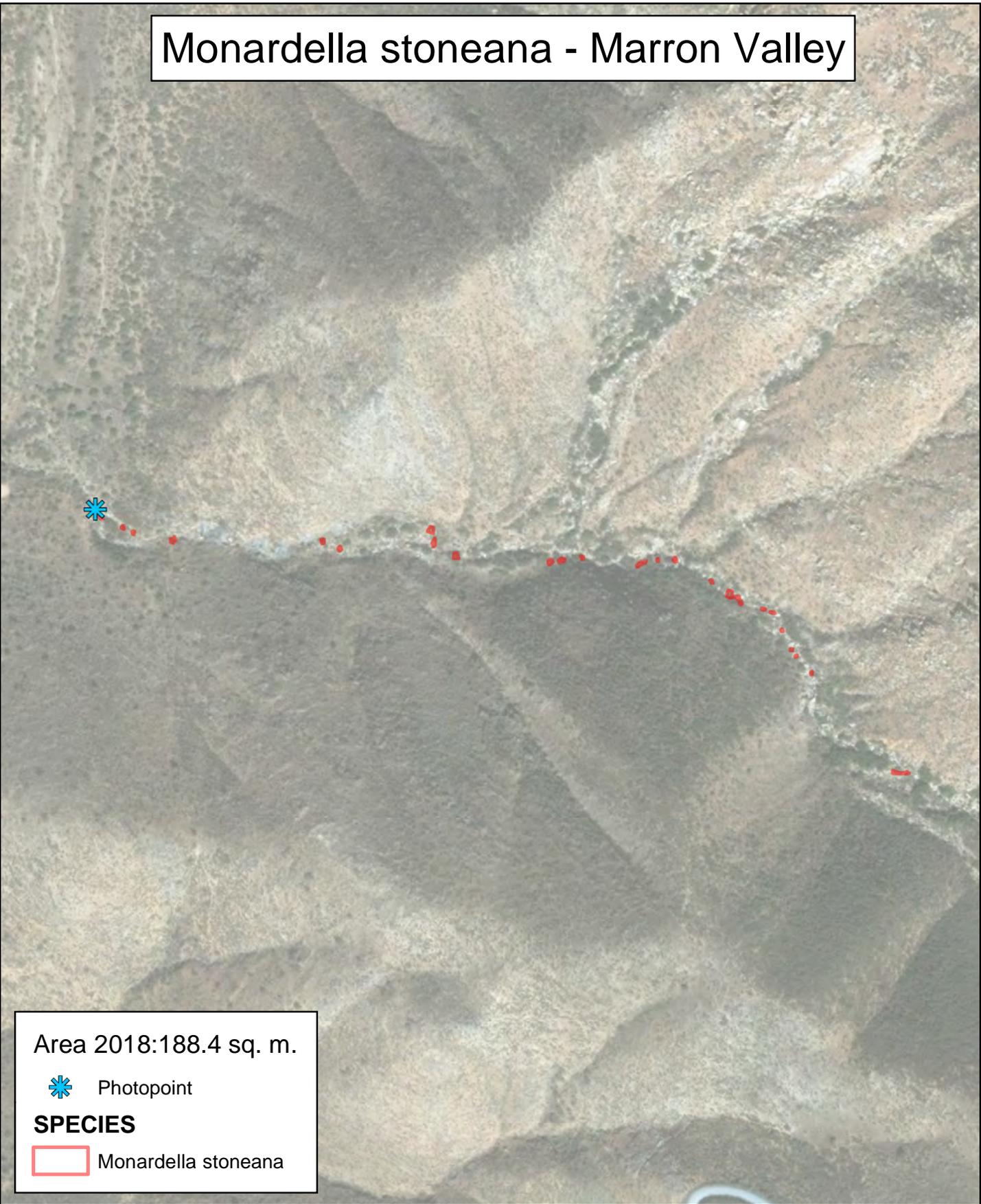
NOTES:

***Monardella stoneana* (Jennifer's Monardella)**
Marron Valley

MSP Occurrence ID: MOST_3MAVA002 - 1



Monardella stoneana - Marron Valley



Area 2018: 188.4 sq. m.

 Photopoint

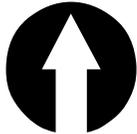
SPECIES

 Monardella stoneana

Pop. Area 2003 - 2018
Max Area: 13,959.5 sq. m.
Min Area: 26 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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MOST_30TLA005-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

MOST_30TLA005-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 0.2 |
| Amsinckia intermedia - common fiddleneck | Native | Annual | Herb | 0.2 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 1 |
| Avena fatua - wild oat | Nonnative | Annual | Grass | 2 |
| Bahiopsis laciniata - torhleaf goldeneye | Native | Perennial | Shrub | 2 |
| Brassica nigra - black mustard | Nonnative | Annual | Herb | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 24 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 3 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 0.2 |
| Heteromeles arbutifolia - toyon | Native | Perennial | Shrub | 1 |
| Iva hayesiana - San Diego marsh elder | Native | Perennial | Shrub | 14 |
| Lepidium nitidum - shining pepperweed | Native | Annual | Herb | 0.2 |
| Lonicera subspicata - southern honeysuckle | Nonnative | Perennial | Shrub | 1 |
| Malosma laurina - laurel sumac | Native | Perennial | Shrub | 4 |
| Marah macrocarpus - Cucamonga manroot | Native | Perennial | Herb | 0.2 |
| Muhlenbergia microsperma - littleseed muhly | Native | Annual | Grass | 0.2 |
| Myriopteris newberryi - Newberry's lip fern | Native | Perennial | Herb | 0.2 |
| Rumex crispus - curly dock | Nonnative | Perennial | Herb | 0.2 |
| Salsola tragus - prickly Russian thistle | Nonnative | Annual | Herb | 0.2 |
| Scrophularia californica - California figwort | Native | Perennial | Herb | 0.2 |
| Sisymbrium sp. - mustard | Nonnative | Annual | Herb | 0.2 |
| Tamarix sp. - tamarisk | Nonnative | Perennial | Tree | 0.2 |

MOST_30TLA005-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="5"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="3"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Monardella stoneana* (Jennifer's Monardella)**
Otay Lakes

MSP Occurrence ID: MOST_3OTLA005 - 1



Monardella stoneana - Otay Lakes



Area 2018: 0 sq. m.

 Photopoint

Pop. Area 2003 - 2018
Max Area: 7.98 sq. m.
Min Area: 26 sq. m.

0 10 20 Meters

Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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Monardella viminea
Willowy Monardella



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MOLIV_6FLCA007-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

MOLIV_6FLCA007-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Acmispon glaber - deerweed | Native | Perennial | Shrub | 1 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 2 |
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 16 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 3 |
| Encelia californica - California brittlebush | Native | Perennial | Shrub | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 40 |
| Foeniculum vulgare - sweet fennel | Nonnative | Perennial | Herb | 2 |
| Monardella viminea - Willowy monardella | Native | Perennial | Herb | 4 |
| Pseudognaphalium beneolens - cudweed | Native | Perennial | Herb | 0.2 |

MOLIV_6FLCA007-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="3"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

Continue preserve stewardship and control weeds as funding permits

VII. MANAGEMENT ACTIONS IN LAST YEAR

Preserve stewardship

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

CAGN seen and heard at point

NOTES:

Photos: 0888-0891; photo taken at plot center

***Monardella viminea* (Willowy Monardella)**
Flanders Canyon

MSP Occurrence ID: MOLIV_6FLCA007 - 1



Monardella viminea - Flanders Canyon



Area 2018: 314.1 sq. m.

 Photopoint

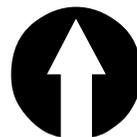
SPECIES

 Monardella viminea

Pop. Area 2015 - 2018
Max Area: 399.7 sq. m.
Min Area: 314.1 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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MOLIV_6LOCA004-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

MOLIV_6LOCA004-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Ambrosia psilostachya - Cuman ragweed | Native | Perennial | Herb | 0.2 |
| Avena barbata - slender oat | Nonnative | Annual | Grass | 0.2 |
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 5 |
| Brassica nigra - black mustard | Nonnative | Annual | Herb | 0.2 |
| Brickellia californica - California brickellbush | Native | Perennial | Shrub | 3 |
| Bromus diandrus - rippgut brome | Nonnative | Annual | Grass | 2 |
| Bromus hordeaceus - soft brome | Nonnative | Annual | Grass | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 27 |
| Carduus pycnocephalus - Italian plumeless thistle | Nonnative | Annual | Herb | 0.2 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Cercocarpus minutiflorus - smooth mountain-mahogany | Native | Perennial | Shrub | 3 |
| Cyperus eragrostis - tall flatsedge | Native | Perennial | Herb | 0.2 |
| Dichelostemma capitatum - bluedicks | Native | Perennial | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 12 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Euphorbia peplus - petty spurge | Nonnative | Annual | Herb | 0.2 |
| Foeniculum vulgare - sweet fennel | Nonnative | Perennial | Herb | 0.2 |
| Glebionis coronaria - crown daisy | Nonnative | Annual | Herb | 0.2 |
| Hedypnois cretica - Cretanweed | Nonnative | Annual | Herb | 0.2 |
| Lonicera subspicata - southern honeysuckle | Nonnative | Perennial | Shrub | 1 |
| Marah macrocarpus - Cucamonga manroot | Native | Perennial | Herb | 0.2 |
| Opuntia littoralis - coastal pricklypear | Native | Perennial | Shrub | 2 |
| Phacelia cicutaria - caterpillar phacelia | Native | Annual | Herb | 1 |
| Phalaris minor - littleseed canarygrass | Nonnative | Annual | Grass | 0.2 |
| Prunus ilicifolia - hollyleaf cherry | Native | Perennial | Shrub | 18 |
| Rhamnus crocea - spiny redberry | Native | Perennial | Shrub | 1 |
| Salvia apiana - white sage | Native | Perennial | Shrub | 2 |
| Sonchus asper - spiny sowthistle | Nonnative | Annual | Herb | 0.2 |
| Sonchus oleraceus - common sowthistle | Nonnative | Annual | Herb | 0.2 |
| Toxicodendron diversilobum - poison oak | Native | Perennial | Shrub | 1 |

MOLIV_6LOCA004-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="6"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="3"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

Continue preserve stewardship and implement weed control as funding permits

VII. MANAGEMENT ACTIONS IN LAST YEAR

Preserve stewardship

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

CAGN

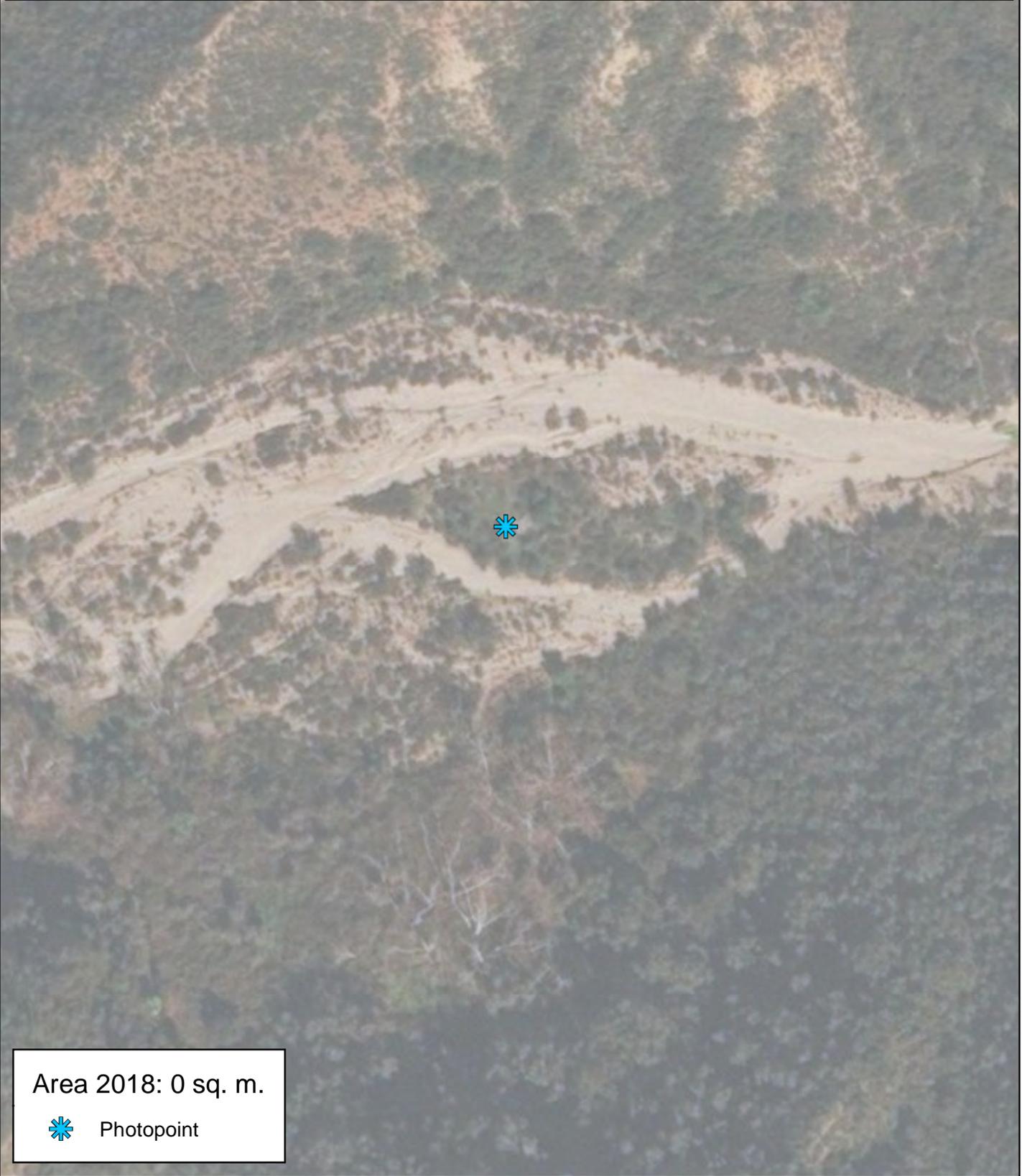
NOTES:

Photo: 0882-0887; Photo at center

***Monardella viminea* (Willowy Monardella)**
Lopez Canyon – West Terrace Observation # 1
MSP Occurrence ID: MOLIV_6LOCA004 - 1



Monardella viminea - Lopez Canyon West Terrace #1



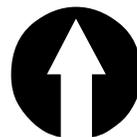
Area 2018: 0 sq. m.

 Photopoint

Pop. Area 2004 - 2018
Max Area: 1,459.15 sq. m.
Min Area: 0 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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MOLIV_6LOCA004-2

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

MOLIV_6LOCA004-2

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 2 |
| Avena barbata - slender oat | Nonnative | Annual | Grass | 0.2 |
| Baccharis pilularis - coyotebrush | Native | Perennial | Shrub | 0.2 |
| Baccharis sarothroides - desertbroom | Native | Perennial | Shrub | 18 |
| Brassica nigra - black mustard | Nonnative | Annual | Herb | 13 |
| Brickellia californica - California brickellbush | Native | Perennial | Shrub | 6 |
| Bromus diandrus - ripgut brome | Nonnative | Annual | Grass | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 30 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Cercocarpus minutiflorus - smooth mountain-mahogany | Native | Perennial | Shrub | 0.2 |
| Crassula connata - sand pygmyweed | Native | Annual | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 9 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 0.2 |
| Erodium cicutarium - redstem stork's bill | Nonnative | Annual | Herb | 0.2 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 6 |
| Heteromeles arbutifolia - toyon | Native | Perennial | Shrub | 0.2 |
| Hypochaeris glabra - smooth cat's ear | Nonnative | Annual | Herb | 0.2 |
| Lactuca serriola - prickly lettuce | Nonnative | Annual | Herb | 0.2 |
| Lonicera subspicata - southern honeysuckle | Nonnative | Perennial | Shrub | 1 |
| Monardella viminea - Willowy monardella | Native | Perennial | Herb | 1 |
| Opuntia littoralis - coastal pricklypear | Native | Perennial | Shrub | 2 |
| Phacelia cicutaria - caterpillar phacelia | Native | Annual | Herb | 1 |
| Sonchus asper - spiny sowthistle | Nonnative | Annual | Herb | 0.2 |

MOLIV_6LOCA004-2

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="5"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

Continue preserve stewardship and weed control as funding permits

VII. MANAGEMENT ACTIONS IN LAST YEAR

Preserve stewardship and invasive weed control

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

none

NOTES:

Photos: 0877-0881, photo taken at plot center

***Monardella viminea* (Willowy Monardella)**
Lopez Canyon – East of Bridge Observation # 2
MSP Occurrence ID: MOLIV_6LOCA004 - 2



Monardella viminea - Lopez Canyon East of Bridge #2



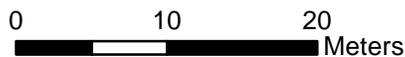
Area 2018: 54.3 sq. m.

 Photopoint

SPECIES

 Monardella viminea

Pop. Area 2003 - 2018
Max Area: 435.8 sq. m.
Min Area: 1 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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MOLIV_6LOCA004-3

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

MOLIV_6LOCA004-3

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|--|----------------------|----------------------|------------|---------|
| <i>Amaranthus albus</i> - pigweed amaranth | Nonnative | Annual | Herb | 0.2 |
| <i>Ambrosia psilostachya</i> - Cuman ragweed | Native | Perennial | Herb | 0.2 |
| <i>Artemisia californica</i> - coastal sagebrush | Native | Perennial | Shrub | 0.2 |
| <i>Avena barbata</i> - slender oat | Nonnative | Annual | Grass | 0.2 |
| <i>Baccharis pilularis</i> - coyotebrush | Native | Perennial | Shrub | 1 |
| <i>Baccharis sarothroides</i> - desertbroom | Native | Perennial | Shrub | 20 |
| <i>Brachypodium distachyon</i> - purple false brome | Nonnative | Annual | Grass | 1 |
| <i>Brassica nigra</i> - black mustard | Nonnative | Annual | Herb | 3 |
| <i>Bromus diandrus</i> - ripgut brome | Nonnative | Annual | Grass | 2 |
| <i>Bromus madritensis</i> - compact brome | Nonnative | Annual | Grass | 0.2 |
| <i>Carduus pycnocephalus</i> - Italian plumeless thistle | Nonnative | Annual | Herb | 0.2 |
| <i>Centaurea melitensis</i> - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| <i>Cercocarpus minutiflorus</i> - smooth mountain-mahogany | Native | Perennial | Shrub | 18 |
| <i>Clematis pauciflora</i> - few flowered clematis | Native | Perennial | Herb | 0.2 |
| <i>Ehrharta erecta</i> - panic veldtgrass | Nonnative | Perennial | Grass | 0.2 |
| <i>Erigeron canadensis</i> - Canada horseweed | Native | Annual | Herb | 0.2 |
| <i>Eriogonum fasciculatum</i> - Eastern Mojave buckwheat | Native | Perennial | Shrub | 2 |
| <i>Euphorbia peplus</i> - petty spurge | Nonnative | Annual | Herb | 0.2 |
| <i>Festuca perennis</i> - Italian rye grass | Nonnative | Annual | Grass | 0.2 |
| <i>Foeniculum vulgare</i> - sweet fennel | Nonnative | Perennial | Herb | 1 |
| <i>Glebionis coronaria</i> - crown daisy | Nonnative | Annual | Herb | 0.2 |
| <i>Hedypnois cretica</i> - Cretanweed | Nonnative | Annual | Herb | 0.2 |
| <i>Iva hayesiana</i> - San Diego marsh elder | Native | Perennial | Shrub | 0.2 |
| <i>Lactuca serriola</i> - prickly lettuce | Nonnative | Annual | Herb | 0.2 |
| <i>Monardella viminea</i> - Willowy monardella | Native | Perennial | Herb | 1 |
| <i>Sonchus asper</i> - spiny sowthistle | Nonnative | Annual | Herb | 0.2 |
| <i>Stephanomeria</i> sp. - wire lettuce | Native | Annual | Herb | 0.2 |
| <i>Stipa miliacea</i> - smilo grass | Nonnative | Perennial | Grass | 0.2 |
| <i>Toxicodendron diversilobum</i> - poison oak | Native | Perennial | Shrub | 10 |
| <i>Xanthium strumarium</i> - rough cocklebur | Native | Perennial | Shrub | 0.2 |

MOLIV_6LOCA004-3

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="3"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="3"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

Continue preserve stewardship and weed control efforts as funding permits.

VII. MANAGEMENT ACTIONS IN LAST YEAR

Preserve stewardship

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

none

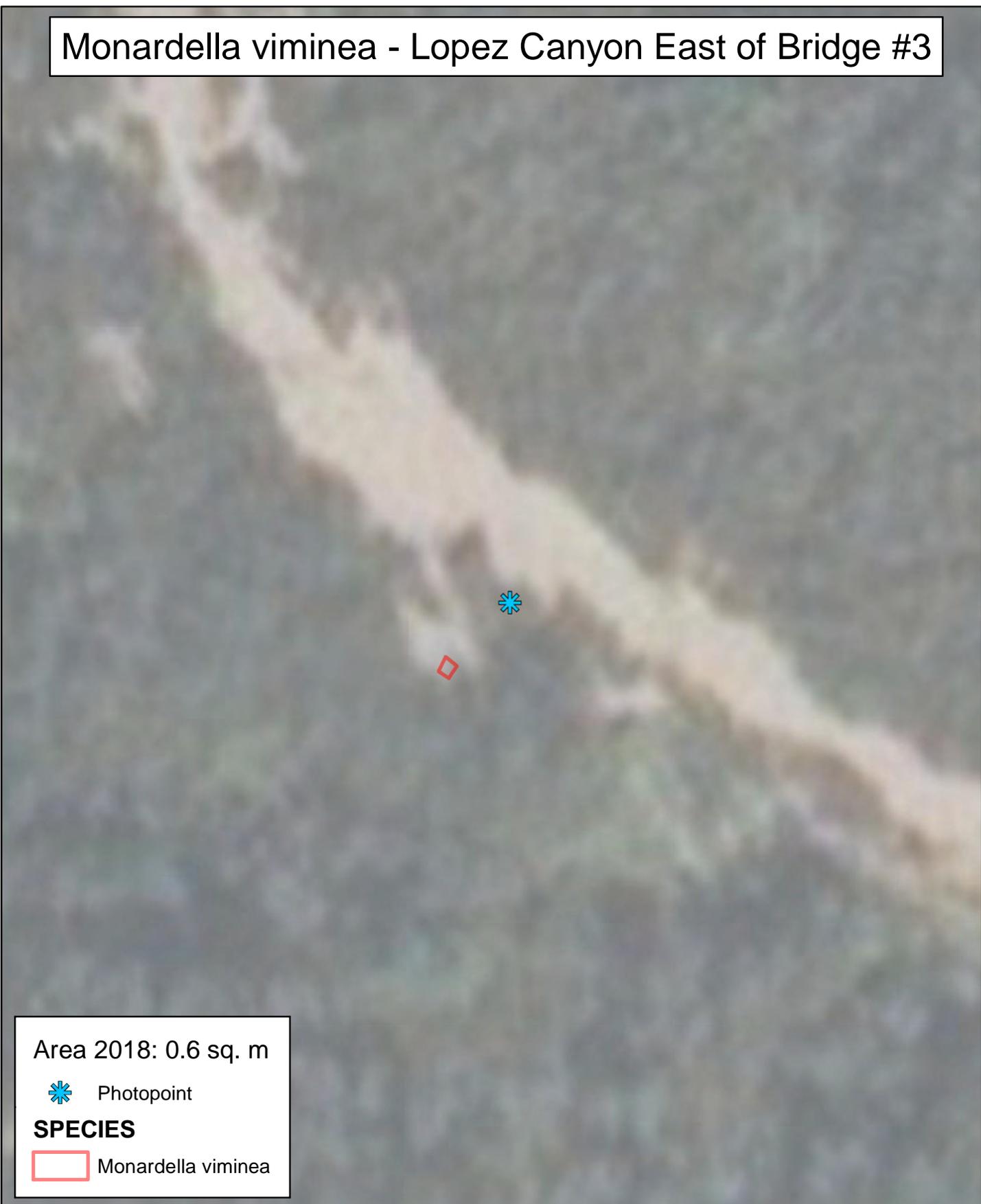
NOTES:

Photos: 0872-0876; photo at center of circle

***Monardella viminea* (Willowy Monardella)**
Lopez Canyon – East of Bridge Observation # 3
MSP Occurrence ID: MOLIV_6LOCA004 - 3



Monardella viminea - Lopez Canyon East of Bridge #3



Area 2018: 0.6 sq. m

 Photopoint

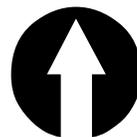
SPECIES

 Monardella viminea

Pop. Area 2004 - 2018
Max Area: 290 sq. m.
Min Area: 1 sq. m.

0 5 10
 Meters

Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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MOLIV_4SYCA001-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

MOLIV_4SYCA001-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Amsinckia menziesii - Menzies' fiddleneck | Native | Annual | Herb | 0.2 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 5 |
| Avena barbata - slender oat | Nonnative | Annual | Grass | 8 |
| Brassica nigra - black mustard | Nonnative | Annual | Herb | 0.2 |
| Bromus diandrus - ripgut brome | Nonnative | Annual | Grass | 6 |
| Bromus hordeaceus - soft brome | Nonnative | Annual | Grass | 0.2 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 5 |
| Centaurea melitensis - Maltese star-thistle | Nonnative | Annual | Herb | 0.2 |
| Cercocarpus minutiflorus - smooth mountain-mahogany | Native | Perennial | Shrub | 2 |
| Clematis pauciflora - few flowered clematis | Native | Perennial | Herb | 0.2 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 9 |
| Erodium botrys - longbeak stork's bill | Nonnative | Annual | Herb | 3 |
| Festuca perennis - Italian rye grass | Nonnative | Annual | Grass | 0.2 |
| Galium angustifolium - narrowleaf bedstraw | Native | Perennial | Herb | 0.2 |
| Heteromeles arbutifolia - toyon | Native | Perennial | Shrub | 2 |
| Hypochaeris glabra - smooth cat's ear | Nonnative | Annual | Herb | 0.2 |
| Lepidium nitidum - shining pepperweed | Native | Annual | Herb | 0.2 |
| Lonicera subspicata - southern honeysuckle | Nonnative | Perennial | Shrub | 1 |
| Malosma laurina - laurel sumac | Native | Perennial | Shrub | 1 |
| Monardella viminea - Willowy monardella | Native | Perennial | Herb | 1 |
| Prunus ilicifolia - hollyleaf cherry | Native | Perennial | Shrub | 10 |
| Pseudognaphalium beneolens - cudweed | Native | Perennial | Herb | 0.2 |
| Rhamnus crocea - spiny redberry | Native | Perennial | Shrub | 1 |
| Salvia apiana - white sage | Native | Perennial | Shrub | 2 |
| Selaginella bigelovii - Bigelow's spike moss | Native | Perennial | Fern | 1 |
| Silene gallica - common catchfly | Nonnative | Annual | Herb | 0.2 |

MOLIV_4SYCA001-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|--|--|
| Nonnative Forbs: <input type="text" value="4"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="6"/> |
| Nonnative Grass: <input type="text" value="4"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="5"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |
| Road Construction/Maintenance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Vegetation Clearing: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Brush Manangement: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| ORV Activity: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |
| Evidence of Recent Fire: <input type="text" value="no"/> | Year Burned? <input type="text" value="0"/> | |
| Trails: <input type="text" value="1"/> | if trails are present, are they authorized? <input type="text" value="0"/> | |
| Type of Trail Use: | | |
| Hiking: <input type="text" value="0"/> | Biking: <input type="text" value="0"/> | Equestrian: <input type="text" value="0"/> |
| Dog: <input type="text" value="0"/> | Service Vehicles: <input type="text" value="0"/> | Other: <input type="text" value="0"/> |
| Illegal Trail Use: <input type="text" value="0"/> | | |
| Other Disturbance: <input type="text" value="1"/> | if present, describe: <input type="text" value="0"/> | |

VI. MANAGEMENT RECOMMENDATIONS

Continue preserve stewardship and investigate feasibility of restoration actions to help stabilize stream channel

VII. MANAGEMENT ACTIONS IN LAST YEAR

Preserve stewardship

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

none

NOTES:

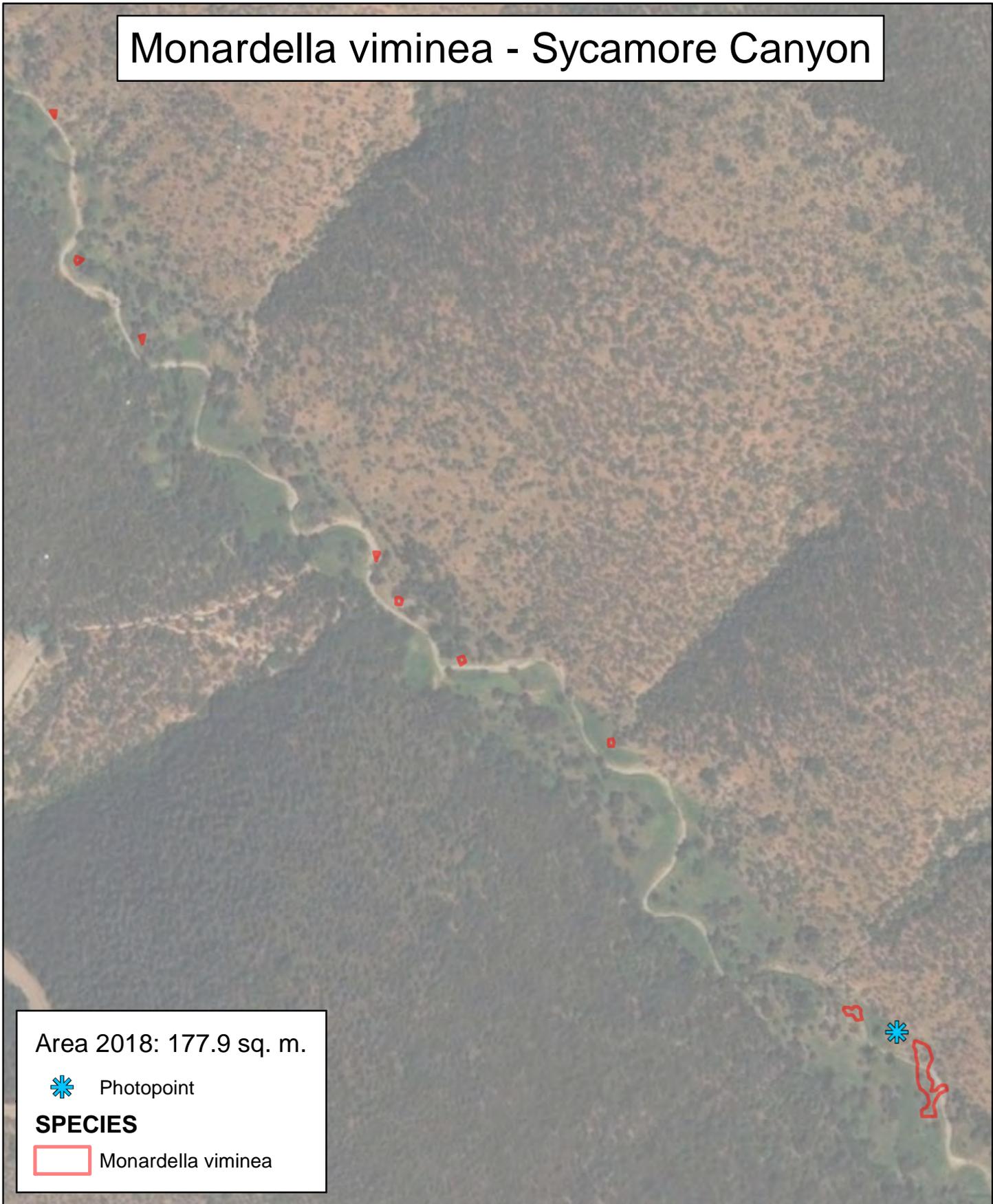
Photo taken from center of circle plot.

***Monardella viminea* (Willowy Monardella)**
Sycamore Canyon

MSP Occurrence ID: MOLIV_4SYCA001 - 1



Monardella viminea - Sycamore Canyon



Area 2018: 177.9 sq. m.

 Photopoint

SPECIES

 Monardella viminea

Pop. Area 2001 - 2018
Max Area: 15,970.4 sq. m.
Min Area: 15.6 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



Every reasonable effort has been made to assure the accuracy of this map. However, neither the SanGIS participants nor San Diego Data Processing Corporation assume any liability arising from its use.

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Rosa minutifolia
Baja Rose



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ROMI80_3DENC001-1

2018

MSP - RARE PLANT MONITORING DATA

Scientific Name: Common Name: MSP Occurr. ID:

Sample Point #: CNDDDB Elem. Occurr. #: Translocated? Management Unit:

Land Owner: Land Manager:

Preserve Name: Occurrence Name:

Surveyors: Other Surveyors:

Affiliation:

Survey Date: Time Start: Time End:

I. OCCURRENCE STATUS - Assess # plants in both species-specific sampling area (typically 10-m radius circle) and in current mapped extent.

Number of Plants in Mapped Extent: Exact or Estimate? Uncertainty:

Area of Current Mapped Extent: Area Units: Area Exact (GPS) or Estim

Current Extent Mapping Method: Species Found in Max Extent

If not found, known or suspected reason:

Number of Plants in Circle: Exact or Estimate? Uncertainty: Circle Area (sq_m):

Phenology in Circle Plot (1-6): % Vegetative: % Flowering: % Dead: % Fruiting:

Evidence in Circle Plot (1-6): % Herbivory: % Diseased: % Stunted:

Is Sampling Area Representative of Current Mapped Extent

Collection Taken? Collector: Collection #: Museum/Herbarium:

II. SAMPLING AREA LOCATION AND SITE PHOTOMONITORING

GPS Accuracy: GPS Accuracy Units: Datum: Coordinate System:

Coordinates at Center of Plot: E: N:

Camera Type: Coordinates of Photo Point: E: N:

Photo Direction: Camera Height: Camera Angle Photo Numbers:

File Location:

III. HABITAT ASSESSMENT IN SAMPLING AREA - Assess habitat covariates within species-specific sampling area (typically 10-m radius circle).

% Cover of Bare Ground: % Cover of Rock: % Cover of Litter: % Cover of Water: % Cover of Vegetation:

Total % Cover:

SANDAG 2012 Vegetation Alliance/Association

Cover Classes (1-6) Cryptogamic Crust Cover: Thatch Cover:

Average Thatch Depth (cm): Thatch Depth Max (cm):

Dead Standing Biomass? Dead Standing Biomass Species:

Dead Standing Biomass Cover Class (1-6): Average Height of Dead Standing Biomass (cm):

Mammal Species Activity (categ. 1-4) Feral Pig Activity: Ground Squirrel Activity: Gopher Activity:

ROMI80_3DENC001-1

2018

MSP - RARE PLANT MONITORING DATA**V. ASSOCIATED SPECIES**

| Associated Species | Native or Nonnative? | Annual or Perennial? | Plant Form | % Cover |
|---|----------------------|----------------------|------------|---------|
| Ambrosia chenopodiifolia - San Diego bur ragweed | Native | Perennial | Shrub | 0.2 |
| Artemisia californica - coastal sagebrush | Native | Perennial | Shrub | 35 |
| Baccharis pilularis - coyotebrush | Native | Perennial | Shrub | 0.2 |
| Bahiopsis laciniata - torhleaf goldeneye | Native | Perennial | Shrub | 6 |
| Bromus madritensis - compact brome | Nonnative | Annual | Grass | 12 |
| Cylindropuntia prolifera - coastal cholla | Native | Perennial | Shrub | 0.2 |
| Deinandra fasciculata - clustered tarweed | Native | Annual | Herb | 0.2 |
| Encelia californica - California brittlebush | Native | Perennial | Shrub | 6 |
| Eriogonum fasciculatum - Eastern Mojave buckwheat | Native | Perennial | Shrub | 0.2 |
| Festuca myuros - rattail fescue | Nonnative | Annual | Grass | 0.2 |
| Mellilotus indica - annual yellow sweetclover | Nonnative | Annual | Herb | 0.2 |
| Peritoma arborea - bladderpod spiderflower | Native | Perennial | Shrub | 1 |
| Rosa minutifolia - small-leaved rose | Native | Perennial | Shrub | 0.2 |
| Simmondsia chinensis - jojoba | Native | Perennial | Shrub | 5 |

ROMI80_3DENC001-1

2018

MSP - RARE PLANT MONITORING DATA

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - Assess threats within the occurrence's maximum extent (cumulative extent over years of monitoring) plus 10-m surrounding buffer.

Surround_LandUse

Disturbances (Rank each as 1-6)

| | | |
|---|---|--|
| Nonnative Forbs: <input type="text" value="3"/> | Feral Pig Activity: <input type="text" value="1"/> | Altered Hydrology: <input type="text" value="1"/> |
| Nonnative Grass: <input type="text" value="4"/> | Trampling: <input type="text" value="1"/> | Erosion: <input type="text" value="1"/> |
| Nonnative Woody Plants: <input type="text" value="1"/> | Vandalism: <input type="text" value="1"/> | Urban Runoff: <input type="text" value="1"/> |
| Competitive Native Plants: <input type="text" value="1"/> | Current Grazing: <input type="text" value="1"/> | Slope Movement: <input type="text" value="1"/> |
| Dumping/Trash: <input type="text" value="1"/> | Historic Grazing: <input type="text" value="no"/> | Soil Compaction: <input type="text" value="1"/> |
| Encampments: <input type="text" value="1"/> | Historic Agriculture: <input type="text" value="no"/> | Fuel Modification Zone/ Fire Break: <input type="text" value="1"/> |

Road Construction/Maintenance: if present, describe:

Vegetation Clearing: if present, describe:

Brush Manangement: if present, describe:

ORV Activity: if present, describe:

Evidence of Recent Fire: Year Burned?

Trails: if trails are present, are they authorized?

Type of Trail Use:

Hiking: Biking: Equestrian: Dog: Service Vehicles: Other:

Illegal Trail Use:

Other Disturbance: if present, describe:

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDDB SPECIES DETECTED (list any plant or animal species to add to the CNDDDB)

NOTES:

***Rosa minutifolia* (Baja Rose)**

Dennery Ranch

MSP Occurrence ID: ROMI80_3DENC001 - 1

Photo not available.

Rosa minutifolia - Dennery Ranch



Area 2018: 949.4 sq. m.

 Photopoint

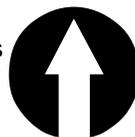
SPECIES

 Rosa minutifolia

Pop. Area 2000 - 2018
Max Area: 949.4 sq. m.
Min Area: 3.1 sq. m.



Source: San GIS & City of San Diego Park & Rec
Map Created By: Priscilla Hare 2017



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Acknowledgments

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APPENDIX A

**CITY OF SAN DIEGO RARE PLANT MONITORING:
2018 MONITORING DATES AND STAFF**

**City of San Diego MSCP Plant Monitoring:
Priorities, Sites and Survey Dates**

| Species | Risk Group (SDSU '06) | Risk Group (Ogden '96) | Site | MSP Occurrence ID | Survey Date | Staff Initials | Methodology |
|---|-----------------------|------------------------|----------------------------------|--|-------------|-------------------------|--------------------------------|
| <i>Acanthomintha ilicifolia</i> (San Diego Thorn-mint) | First | Second | Blk Mtn Park West | ACIL_6BLMO032 | 24-Apr | BYM, SA, PH, JA, OK | GPS, Photo, Habitat Assessment |
| | | | Dennerly Canyon East | ACIL_3DREA005 | 10-May | BYM, PH, OK | GPS, Photo, Habitat Assessment |
| | | | Mission Trails Regional Park | ACIL_4MTRP021 | 17-Apr | SA, PH, OK | GPS, Photo, Habitat Assessment |
| | | | Otay Lakes | ACIL_3OTLA012 | 3-May | SA, OK, TR, MB | GPS, Photo, Habitat Assessment |
| | | | Penasquitos Canyon Obs. 1, 2, 3 | ACIL_6LPCA039 - 1 ACIL_6LPCA039 - 2 ACIL_6LPCA039 - 3 | 19-Apr | BYM, SA, PH, JA, OK | GPS, Photo, Habitat Assessment |
| | | | Sabre Springs/Poway Obs. 1, 2, 3 | ACIL_4SASP025 - 1 ACIL_4SASP025 - 2 ACIL_4SASP025 - 3 | 19-Apr | BYM, SA, PH, JA, OK | GPS, Photo, Habitat Assessment |
| <i>Acmispion prostratus</i> (Nuttall's lotus) | First | First | Dune Triangle (Site 5) | ACPR_1DUTR005 - 1 | 29-May | SA, NN, JA, OK, AS | GPS, Photo, Habitat Assessment |
| | | | Hospitality Point (Site 2) | ACPR_1HOPO002 - 2 | 29-May | SA, NN, JA, OK, AS | GPS, Photo, Habitat Assessment |
| | | | Mariner's Point (Site 4) | ACPR_1MAPO004 - 4 | 31-May | BYM, SA, PH | GPS, Photo, Habitat Assessment |
| | | | No Man's Land (Site 1) | ACPR_1NMLA001 - 1 | 24-May | BYM, SA, PH, NN, JA, AS | GPS, Photo, Habitat Assessment |
| | | | Rip Rap (Site 3) | ACPR_1RRSO003 - 3 | 29-May | SA, NN, JA, OK, AS | GPS, Photo, Habitat Assessment |
| | | | South Shores (Site 6) | ACPR_1SOSH006 - 6 | 24-May | BYM, SA, PH, NN, JA, AS | GPS, Photo, Habitat Assessment |
| <i>Ambrosia pumila</i> (San Diego Ambrosia) | First | Second | Mission Trails Regional Park | AMPU_4KULA005 | 17-Apr | SA, NN, PH, OK | GPS, Photo, Habitat Assessment |
| <i>Bloomeria clevelandii</i> (San Diego Goldenstar) | Second | Second | East Elliott | BLCL_4EAEL014 - 1 BLCL_4EAEL014 - 2 BLCL_4EAEL014 - 3 | 25-Apr | BYM, SA, AT, OK | GPS, Photo, Habitat Assessment |
| | | | East Elliott | BLCL_4EAEL014 - 5 | 8-May | SA, OK | GPS, Photo, Habitat Assessment |
| | | | Lopez Ridge | BLCL_6LORI021 | 24-Apr | BYM, SA, PH, JA, OK | GPS, Photo, Habitat Assessment |
| | | | Marron Valley Obs. 1, 2, 3, 4 | BLCL_3MAVA005 - 1 BLCL_3MAVA005 - 2 BLCL_3MAVA005 - 3 BLCL_3MAVA005 - 4 | 26-Apr | BYM, SA, PH, JA, OK | GPS, Photo, Habitat Assessment |
| | | | Mission Trails Regional Park | BLCL_4MTRP023 | 2-May | SA | GPS, Photo, Habitat Assessment |
| | | | Otay Lakes Obs. 1, 2 | BLCL_3OTLA006 - 1 BLCL_3OTLA006 - 2 | 3-May | SA, OK, TR, MB | GPS, Photo, Habitat Assessment |
| <i>Brodiaea filifolia</i> (Thread-leaved Brodiaea) | Fourth | None | Black Mountain | BRFI_6BMRA002 | 9-May | BYM, CG, RW, BS | GPS, Photo, Habitat Assessment |
| <i>Brodiaea orcuttii</i> (Orcutt's Brodiaea) | Third | Second | Carroll Canyon | BROR_6CACA015 | 30-Apr | SA, OK | GPS, Photo, Habitat Assessment |
| | | | Lopez Ridge | BROR_6LORI018 | 24-Apr | BYM, SA, PH, JA, OK | GPS, Photo, Habitat Assessment |

**City of San Diego MSCP Plant Monitoring:
Priorities, Sites and Survey Dates**

| Species | Risk Group (SDSU '06) | Risk Group (Ogden '96) | Site | MSP Occurrence ID | Survey Date | Staff Initials | Methodology |
|---|-----------------------|------------------------|--|---|-------------|-----------------------------|--------------------------------|
| <i>Brodiaea orcuttii</i> (Orcutt's Brodiaea) | Third | Second | Nobel Drive | BROR_2NODR002 | 30-Apr | SA, NN, OK | GPS, Photo, Habitat Assessment |
| | | | Oak Creek (MTRP) | BROR_4OACR012 | 10-May | BYM, PH, OK | GPS, Photo, Habitat Assessment |
| <i>Chloropyron maritimum</i> ssp. <i>maritimum</i> (Salt-marsh Bird's Beak) | Second | First | Dog Beach | COMAM3_1DOBE007 | 31-May | BYM, SA, NN, PH | GPS, Photo, Habitat Assessment |
| <i>Cylindropuntia californica</i> (Snake Cholla) | Second | Third | Spring Canyon | CYCA_3GOME003 | 14-May | SA, OK | GPS, Photo, Habitat Assessment |
| | | | Balboa Golf Course | CYCA_2BPGC001 | 10-Jul | SA, EC | GPS, Photo, Habitat Assessment |
| <i>Deinandra conjugens</i> (Otay Tarplant) | First | First | Dennery Ranch | DECO13_3DERA020 | 22-May | SA, PH | GPS, Photo, Habitat Assessment |
| | | | Dennery Ranch East | DECO13_3DREA021 | 10-May | BYM, PH, OK | GPS, Photo, Habitat Assessment |
| | | | Proctor Valley | DECO13_3PRVA013 | 22-May | SA, PH | GPS, Photo, Habitat Assessment |
| <i>Dicranostegia orcuttiana</i> (Orcutt's Bird's Beak) | First | First | Otay River Valley | COOR7_3ORVA001 | 20-Jun | SA, TR, OK | GPS, Photo, Habitat Assessment |
| | | | Dennery Ranch East | COOR7_3DREA007 | 20-Jun | SA, TR, OK | GPS, Photo, Habitat Assessment |
| <i>Dudleya brevifolia</i> (Short Leaf Dudleya) | First | First | Carmel Mountain | DUBLB2_6CMRP001 - 1 DUBLB2_6CMRP001 - 2 DUBLB2_6CMRP001 - 3 | 16-May | BYM, SA, JA, TR, OK, RW, MF | GPS, Photo, Habitat Assessment |
| | | | Crest Canyon North Obs. 1 | DUBLB2_7CRCA003 - 1 | 16-May | BYM, PH, JA, OK | GPS, Photo, Habitat Assessment |
| | | | Crest Canyon South Obs. 2 | DUBLB2_7CRCA003 - 2 | 16-May | BYM, PH, OK | GPS, Photo, Habitat Assessment |
| <i>Dudleya variegata</i> (Variegated Dudleya) | Second | First | Blk Mtn Park East | DUVA_6BMRA020 | 2-May | BYM, OK | GPS, Photo, Habitat Assessment |
| | | | East Elliott - Creek East Elliott - Hilltop | DUVA_4EAEL012 - 1 DUVA_4EAEL012 - 2 | 8-May | SA, PH, JA, OK | GPS, Photo, Habitat Assessment |
| | | | Goat Mesa/ Spring Canyon | DUVA_3GOME003 | 14-May | SA, OK | GPS, Photo, Habitat Assessment |
| | | | Marron Valley | DUVA_3MAVA004 | 26-Apr | BYM, SA, PH, JA, OK | GPS, Photo, Habitat Assessment |
| | | | Mercy Road | DUVA_4MERO014 | 2-May | BYM | GPS, Photo, Habitat Assessment |
| | | | Mission Trails Regional Park Obs. 1, 2, 3 | DUVA_4MTRP015 - 1 DUVA_4MTRP015 - 2 DUVA_4MTRP015 - 3 | 1-May | BYM, SA, NN, PH, JA, TR | GPS, Photo, Habitat Assessment |
| | | | Navajo/Mission Gorge | DUVA_4NAVA016 | 2-May | SA | GPS, Photo, Habitat Assessment |
| | | | Otay Lakes | DUVA_3OTLA005 | 7-May | BYM, SA, JA | GPS, Photo, Habitat Assessment |
| | | | Santa Luz | DUVA_6SALU024 | 2-May | BYM, OK | GPS, Photo, Habitat Assessment |

**City of San Diego MSCP Plant Monitoring:
Priorities, Sites and Survey Dates**

| Species | Risk Group (SDSU '06) | Risk Group (Ogden '96) | Site | MSP Occurrence ID | Survey Date | Staff Initials | Methodology |
|---|-----------------------|------------------------|----------------------------------|--|-------------|-----------------|--------------------------------|
| <i>Erysimum ammosiphilum</i> (Coast Wallflower) | Fourth | None | Crest Canyon | ERAM4_7CRCA002 | 8-Mar | BM, SA, PH | GPS, Photo, Habitat Assessment |
| | | | Gonzales Canyon | ERAM4_6GOCA003 | 8-Mar | BM, SA, PH | GPS, Photo, Habitat Assessment |
| | | | North City West OS/Overlook Park | ERAM4_6DEMA001 | 8-Mar | BM, SA, PH | GPS, Photo, Habitat Assessment |
| <i>Monardella stoneana</i> (Jennifer's Monardella) | Second | First | Marron Valley | MOST_3MAVA002 | 19-Jun | BYM, SA, JA, TR | GPS, Photo, Habitat Assessment |
| | | | Otay Lakes | MOST_3OTLA005 | 21-Jun | SA, OK, TR | GPS, Photo, Habitat Assessment |
| <i>Monardella viminea</i> (Willow Monardella) | | | Lopez Canyon Obs. 1, 2, 3 | MOLIV_6LOCA004 - 1 MOLIV_6LOCA004 - 2 MOLIV_6LOCA004 - 3 | 5-Jun | SA, JA, OK, AS | GPS, Photo, Habitat Assessment |
| | | | Sycamore Canyon | MOLIV_4SYCA001 | 3-Jul | BYM, SA, JA, OK | GPS, Photo, Habitat Assessment |
| | | | Flanders Canyon | MOLIV_6FLCA007 | 5-Jun | SA, JA, OK | GPS, Photo, Habitat Assessment |
| <i>Rosa minutifolia</i> (Baja Rose) | First | Third | Dennery Ranch | ROMI80_3DENC001 | 22-May | SA, PH | GPS, Photo, Habitat Assessment |

Survey Staff

BYM = Betsy Miller, Senior Planner

SA = Sara Allen, Biologist III

JA = Jason Allen, Biologist II

OK = Olivia Koziel, Biological Consultant (Rocks)

TR = Talaya Rachels, Biological Consultant (Helix)

MB = Mark Berninger, Biologist III

PH = Priscilla Hare, Management Intern

NN = Ninfa Negrete, Management Intern

CG = Carey Goldstein, Senior Park Ranger

RW = Rob Wheeler, Park Ranger

BS = Byron Shoemaker, Park Ranger

AS = Ashley Summerford, Volunteer

EC = Ed Christensen, Senior Park Ranger

MF = Melanie Fontana