

City of San Diego MSCP Rare Plant Monitoring: 2009 Summary Results

Species	Site Name	Population				Native		Non-Native		Management Recommendation's	Field Data Sht (pg.#)	Photo number
		Area (m ²) ¹	Area (ft ²) ¹	# Individuals	Percent cover	Number of Species ²	Percent Cover ^{2,3}	Number of Species	Percent Cover ³			
<i>Bloomeria clevelandii</i> (San Diego Goldenstar)	Del Mar Mesa Obs. 1	62.2	669.9	29	1%	21	26%	5	8%	Remove old rebar and chicken wire around vernal pools	42	11
	Del Mar Mesa Obs. 2	1.0	10.8	1	1%	15	28%	6	21%	Continue access restrictions via fences	46	12
	East Elliot Obs. 1	14141.0	152212.0	100	1%	9	9%	4	21%	Weeding-difficult area to access because of topography	50	13
	East Elliot Obs. 2	488.8	5261.6	10	1%	8	43%	5	26%	N/A	52	14
	East Elliot Obs. 3	3215.9	34615.2	20	0.5%	7	32%	3	5%	None	54	15
	East Elliot Obs. 4	11546.8	124289.0	10	1%	10	47%	3	18%	None	56	16
	East Elliot Obs. 5	42486.6	457321.9	21	1%	10	57%	4	10%	Manage fire regime, continue to restrict vehicle access along abandoned roadway	58	17
	Lopez Ridge	450.0	4842.0	37	1%	16	46%	6	21%	Maintain existing access restrictions	60	18
	Marron Valley Obs. 1	68512.4	737460.6	12000	10%	15	20%	5	65%	Maintain signs, no road expansion	64	19
	Marron Valley Obs. 2	68512.4	737460.6	5000	3%	14	15%	5	62%	Maintain signage	68	20
	Marron Valley Obs. 3	68512.4	737460.6	30,000	15%	15	28%	7	33%	Maintain signage, no road expansion	72	21
	Marron Valley Obs. 4	†	†	†	†	†	†	†	†	†	†	†
	Mission Trails Regional Park	N/A	N/A	0	0%	9	32%	6	45%	Possible weeding-difficult due to remote location	76	22
	Otay Lakes East Obs. 1	336998.0	3626094.9	750	1%	7	102%	1	3%	Water Dept. installed fence and vehicle barricades and signs-no current visible trespassing	78	23
	Otay Lakes West Obs. 2	336998.0	3626049.9	1,000	3%	8	44%	6	93%	Area detached 2007-2009, fencing installed 2008/2009, no visible impacts from trespass	80	24
<i>Brodiaea orcuttii</i> (Orcutt's Brodiaea)	Carroll Canyon	1046.5	11263.9	93	1%	15	30%	6	40%	Continue annual inspections and trash removal, continue fence maintenance as needed	84	25
	Del Mar Mesa Obs. 1	135.5	1458.0	450	1%	18	32%	6	26%	Weeding in uplands	88	26
	Del Mar Mesa Obs. 2	2301.7	24774.9	300	1%	9	43%	6	7%	Continue access restrictions	92	27
	General Dynamics East Obs. 1	3561.2	38332.5	300	1%	15	27%	6	9%	None	94	28
	General Dynamics West Obs. 2	7028.4	75653.0	32	1%	13	26%	4	32%	Expand weeding, maintain access restrictions	98	29
	Lopez Ridge	450.0	4842.0	150	1%	15	45%	7	22%	Maintain existing access restrictions	100	30
	Nobel Drive	112.0	1205.0	5	1%	12	19%	9	21%	Continue to maintain fence	104	31
	USIU/Scripps Miramar Ranch	N/A	N/A	0	0%	15	16%	12	82%	Weed removal-difficult due to limited access	108	32
<i>Ceanothus verrococus</i> (Wart-Stem Lilac)	Carmel Mountain	20270.6	218190.3	200	60%	7	73%	0	0%	None		
	Crest Canyon	1529.0	16458.0	1	0.5%	8	42%	1	2%	None		
<i>Cordylanthus orcuttianus</i> (Orcutt's Bird's Beak)	Otay River Valley	692.8	7456.8	5000	20%	12	33%	4	17%	None	114	33
<i>Cylindropuntia californica</i> (Snake Cholla)	Balboa Park	†	†	30	1%	15	43%	1	1%	None	118	34
	Otay Mesa	3036.0	32670.0	25	1%	11	33%	5	23%	Purchase land for conservation	120	35
	Goat Mesa (Spring Canyon)	1012.0	10890.0	30	1%	12	27%	7	22%	None	122	36
<i>Deinandra conjugens</i> (Otay Tarplant)	Dennery Ranch East	400.0	4303.0	2000	5.0%	8	14%	10	44%	Weeding	130	38
	Dennery Ranch	250.0	2690.0	1	1.0%	10	24%	8	44%	Weed control	126	37

Multiple Species Conservation Program (MSCP) Rare Plant Field Survey Form

Scientific Name: <u>Cylindropuntia californica</u>		Common Name: <u>Snake Cholla</u>	
Site Name: <u>Otay Mesa</u>		Management Unit #: _____	
Date: <u>05/15/09</u>		Management Regime: _____	
Surveyors and Affiliation/Agency: <u>City of MWD</u> <u>Keli Bala</u> <u>City Park + Rec</u> <u>Jeanie Gaudette</u>			

Species Found? ☒ Yes ☐ No

If not, why (if reason known or suspected)?

Total No. Individuals: 25 ☒ Exact ☐ Estimate (use orders of 10, 100 and 1000 for estimates)

Population/Subpopulation Area: 3/4 acre ☐ Exact (based on GPS mapping) ☒ Estimate

Collection (if not collected previously)? ☐ Yes ☒ No ☐ Collected Previously

If yes: _____

Collector _____ Collection Number _____ Museum/Herbarium _____

I. OBSERVATION AREA/MANAGEMENT UNIT LOCATION

Accuracy of Coordinates/GPS Error: +/- 1 ☒ meters ☐ feet

Observation Location: X 632 3469.551 Y 179652.066 ☒ State Plane (feet) ☐ UTM

II. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT

Vegetation Community: Maritime Succulent Scrub

Landowner/Manager: Pardoe Homes - Private

Overall Site Quality** ☒ Very Good-Excellent ☐ Fair to Good ☐ Poor ☐ Very Poor

Surrounding land use: Open Space

Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible):

privately owned
off road activity
Border patrol

Management Recommendation/s:

Purchase land for conservation?

III. ASSOCIATED SPECIES

List dominant, subdominant and invasive species in/near target species observation area/management unit.

Species*=List all species (sci. name). Use * to indicate non-native species; 'Cover'= % cover of species; Note if collected by checking 'Coll.' column; if submitted to herbarium, note collection number (submit to SDNHM unless otherwise noted).

Species	Cover	Coll?	Coll. #	Species	Cover	Coll?	Coll. #
<u>Simmondsia chinensis</u>	<u>15</u>			<u>Centauria melitensis</u>	<u>1</u>		
<u>Viguiera laciniata</u>	<u>5</u>			<u>Nazella pulchra</u>	<u>1</u>		
<u>Euphorbia misera</u>	<u>3</u>			<u>Mirabilis laevis (californica)</u>	<u>1</u>		
<u>Diogenaea fasciata</u>	<u>2</u>			<u>Cylindropuntia prolifera</u>	<u>2</u>		
<u>Erodium spx</u>	<u>10</u>			<u>Cylindropuntia californica</u>	<u>1</u>		
<u>Bromus madritensis*</u>	<u>10</u>			<u>Brassica nigra*</u>	<u>1</u>		
<u>Eriogonum fasciculatum</u>	<u>1</u>			<u>Pennisetum setaceum*</u>	<u>1</u>		
<u>Salsola tragus*</u>	<u>1</u>			<u>Lepidium lasiocarpum</u>	<u>1</u>		
				<u>Mammillaria dioica</u>	<u>1</u>		

IV. SITE PHOTOMONITORING

Camera type: Canon Powershot SD750 Elph

6323469.551 179652.066 W-N-E 1.5M 5-10° up 021-024

Location [State Plane (ft)]	Direction (facing)	Height	Camera Angle	Photo #	File location/s
<u>X</u>	<u>Y</u>				

V. OTHER FIELD NOTES

Other Field Notes/Comments: CAGN heard in MSS

** Use Trudgen & Kelghery Vegetation Condition Scale Descriptions (see back of form or instructions)

Continue on back if needed.

**Photo 35. *Cylindropuntia californica* var. *californica*
(Snake Cholla)
Otay Mesa**



Panorama from Northern edge of population, facing East, Northeast, North.
Panorama location is 6323469.55 1779652.07 NAD83 State Plane California Zone 6 (feet)
Photos merged using ArcSoft Panorama Maker 4.

Acknowledgments

The following staff assisted in the preparation of this report:

Betsy Miller, Biologist III

Jeanie Gaudette, Open Space Intern

Melea Logan, Open Space Intern