

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 <sup>2</sup> ) <sup>1</sup>	Area (ft <sup>2</sup> ) <sup>1</sup>	# Individuals	Percent cover	Number of Species <sup>2</sup>	Percent Cover <sup>2,3</sup>	Number of Species	Percent Cover <sup>3</sup>			
	Torrey Highlands	391	4207	750	10%	13	28%	2	3%	Monitor trail, fence if expanding	214	70
<i>Lotus nuttallianus</i> (Nuttall's Lotus)	Mission Bay Mariner's Point	200.0	2152.0	†	Presence/absence only	†	†	†	†	None	222	73
	Mission Bay Dune Triangle	50.7	546.0	0	0%	4	14%	5	23%	Weeding	218	71
	Mission Bay Hospitality Point	5505.0	59258.0	500	4%	3	13%	4	5%	None	220	72
	No Man's Land (Mission Bay Site #1)	35465.7	381762.0	1500	3%	4	15%	6	38%	Weed removal	224	74
	SD River Rip Rap (Mission Bay Site #3)	107724.3	115973.5	100	Presence/absence only	†	†	†	†	None	226	75
	South Shores (Mission Bay Site #6)	27668.8	297834.0	50	1%	3	5%	5	89%	Weeding	228	76
Note: Presence/absence only surveys conducted at Mariner's Point and San Diego River Rip Rap.												
<i>Monardella stoneana</i> (Jennifer's Monardella)	Marron Valley	13340.0	142539.0	95	2%	15	34%	7	23%	Area fire management plan was prepared in 2006/2007	232	77
<i>Monardella viminea</i> (Willow Mondardella)	Lopez Canyon West Terrace #1	1459.2	15700.0	1	1%	11	29%	1	20%	Focused weed removal-mustard, grasses	238	78
	Lopez Canyon East of Bridge #2	404.0	4347.0	5	1%	12	15%	4	14%	None	240	79
	Lopez Canyon East of Bridge #3	1650.0	17754.0	3	0%	7	12%	4	4%	Erosion control	242	80
	Marron Valley (Monardella stoneana)	13340.0	143539.0	95	200%	15	34%	7	23%	Area fire management plan was prepared in 2006/2007	228	76
	Otay Lakes	0.0	0.0	0	0%	22	57%	8	22%	None	244	81
	Sycamore Canyon	15970.4	171842.0	43	5%	14	17%	9	75%	Weed if possible given remote location	248	82
<i>Navarretia fossalis</i> (Spreading Navarretia)	Carroll Canyon	1866.5	20090.3	118	1%	16	58%	4	4%	Continue annual maintenance and fence repair as needed	254	83
	Goat Mesa (Spring Canyon)	293.0	3150.0	0	0%	7	14%	9	39.0%	Maintain perimeter fence, weed	258	84
	Nobel Drive	15781.0	169867.3	87	1%	12	20%	9	21%	Continue to maintain fences	260	85
	Otay Lakes	2.7	30.0	53	0.5%	9	80%	7	31%	Vehicle barriers installed 2008	264	86
	Robinhood Ridge	71.5	770.0	50	1%	11	28%	5	19%	Weeding in upland areas	266	87
<i>Pinus torreyana</i> ssp. <i>torreyana</i> (Torrey Pine)	Crest Canyon Obs. 1	†	†	†	†	†	†	†	†	†	†	†
	Crest Canyon Obs. 2	†	†	†	†	†	†	†	†	†	†	†
<i>Pogogyne abramsii</i> (San Diego Mesa Mint)	Carroll Canyon	173.0	1865.9	250	7%	19	25%	5	9%	Continue annual maintenance and fence repair as necessary	270	88
	Del Mar Mesa Obs. 1	50.0	538.0	500	1%	21	26%	5	8%	Remove old rebar and chicken wire around reval pool	274	89
	Del Mar Mesa Obs. 2	304.5	3278.0	800	2%	15	27%	6	21%	Continue to restrict access via fencing	278	90
	General Dynamics West	42.0	452.5	300	5%	13	22%	5	32%	Upland weeding, maintain access restrictions	282	91
	Lopez Canyon	419.0	4509.0	5000	10%	16	96%	7	22%	Maintain access restrictions via fencing	286	92
<i>Pogogyne nudiuscula</i> (Olay Mesa Mint)	Robinhood Ridge	71.5	770.0	120	4	10	29	6	21	Weeding in upland areas	292	93
<i>Rosa minutifolia</i> (Small-leaved Rose)	Dennery Ranch	250.0	2690.0	13	2%	8	21%	9	45%	Weed control	296	94
† No data collected												

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

Scientific Name: <u><i>Peperomia abramsii</i></u>	Common Name: <u>San Diego Mesa Mint</u>
Site Name: <u>Lopez Ridge</u>	Management Unit #:
Date: <u>4/23/09</u>	Management Regime:
Surveyors and Affiliation/Agency: <u>Reby Miller City of San Diego Open Space Keith Geor SANDAG</u>	

Species Found?  Yes  No \_\_\_\_\_  
If not, why (if reason known or suspected)?

Total No. Individuals: 5000  Exact  Estimate (use orders of 10, 100 and 1000 for estimates)

Population/Subpopulation Area: 419 m<sup>2</sup>  Exact (based on GPS mapping)  Estimate  
Units 2003 GPS data (100%)

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: 6278246.405 1915522.734  State Plane (feet)  UTM

**II. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT**

Vegetation Community: vernal pool + chamise chaparral

Landowner/Manager: City of San Diego Environmental Services

Overall Site Quality\*\*  Very Good-Excellent  Fair to Good  Poor  Very Poor

Surrounding land use: open space, residential, transportation

Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible):  
non-native grasses in uplands

Management Recommendation/s:  
maintain access restrictions via fencing

**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 #
<i>Peperomia abramsii</i>	10			<i>Allium</i> sp.	<1		
<i>Ptilocarphus brevissimus</i>	10			<i>Callitriche marginata</i>	5		
* <i>Bromus madritensis</i> ssp. <i>rubens</i>	5			* <i>Polygomon monospermiensis</i>	1		
* <i>Bromus hordeaceus</i>	10			<i>Deschampsia danthonioides</i>	2		
* <i>Vulpia myuros</i>	3			* <i>Hordeum myrinum</i>	1		
<i>Centaurea venusta</i>	1			<i>Juncus bufonius</i>	2		
<i>Desmodium fasciculata</i>	5			<i>Crassula conata</i>	1		
				* <i>Avena</i> sp.	<1		

**IV. SITE PHOTOMONITORING**

Camera type: Nikon Coolpix S560

<u>6278246.405</u>	<u>1915522.734</u>	<u>SW, W, NW</u>	<u>1.1</u>	<u>down 10°</u>	<u>087-086</u>	<u>5/03/mscp</u>
<small>Location [State Plane (ft)]</small>	<small>Location [State Plane (ft)]</small>	<small>Direction (facing)</small>	<small>Height</small>	<small>Camera Angle</small>	<small>Photo #</small>	<small>File location/s</small>
_____	_____	_____	_____	_____	_____	_____
<small>Location [State Plane (ft)]</small>	<small>Location [State Plane (ft)]</small>	<small>Direction (facing)</small>	<small>Height</small>	<small>Camera Angle</small>	<small>Photo #</small>	<small>File location/s</small>

**V. OTHER FIELD NOTES**

Other Field Notes/Comments: also point for Blcl + Bror; point established 2009

Species	% cover
<i>Navaretia homata</i>	< 1
<i>Slaginella cinerascens</i>	1
* <i>Hypochaeris glabra</i>	1
<i>Bloomeria clevelandii</i>	1
<i>Opuntia</i> sp.	1
<i>Cordylanthus</i> sp.	< 1
<i>Adenostoma fasciculata</i>	3
<i>Brodiaea orcuttiae</i>	1
Bare ground	60

**Photo 92. *Pogogyne abramsii* (San Diego Mesa Mint)  
Lopez Ridge**



Panorama from Eastern edge of population, facing Southwest, West, Northwest.  
Panorama location is 6278246.405 1915522.734 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

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