

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>Acanthomintha ilicifolia</i> (San Diego Thorn-mint)	Black Mountain	5.0	54.0	3	0.5%	13	15%	3	85%	Weeding	8	1
	Dennery Ranch East	800.0	8608.0	500	1.0%	10	28%	6	22%	Control Weeds	12	2
	Mission Trails Regional Park	16.0	172.0	150	1%	14	18%	8	81%	Weeding	16	3
	Otay Lakes	†	†	†	†	†	†	†	†	†	†	†
	Penasquitos Canyon Obs. 1	4.0	43.1	103	1%	10	24%	4	69%	Weeding, Continue to maintain fence	20	4
	Penasquitos Canyon Obs. 2	5.7	61.1	60	2%	10	16%	6	61%	Weeding	22	5
	Penasquitos Canyon Obs. 3	8.0	86.1	15	1%	7	39%	6	32%	Weeding, Maintain fence	24	6
	Sabre Springs East Subpopulation	9.0	96.9	200	5%	7	48%	7	72%	Manage mustard and other invasives through weeding	26	7
	Sabre Springs South Subpopulation	225.0	2421.0	600	3%	8	26%	12	63%	Weeding to remove exotics	30	9
	Sabre Springs West Subpopulation	225.0	2421.0	150.0	3%	5	12%	8	28%	Weeding	28	8
Note: Primary invasives at all <i>A. ilicifolia</i> sites are Black Mustard (<i>Brassica nigra</i>), Tocolote (<i>Centaurea melitensis</i>), and non-native grasses.												
<i>Agave shawii</i> (Shaw's Agave)		Note: Monitoring location appears to be on lands not owned by the City of San Diego.										
<i>Ambrosia pumila</i> (San Diego Ambrosia)	Mission Trails Regional Park Kumeyaay Lake	16809.0	180931.0	7000	1%	10	13%	8	83%	Implement weed control per CNLM study when complete, continue fence maintenance	36	10
<i>Arctostaphylos glandulosa</i> ssp. <i>Crassifolia</i> (Del Mar Manzanita)	Crest Canyon #1 South	†	†	†	†	†	†	†	†	†	†	†
	Crest Canyon #1 South	†	†	†	†	†	†	†	†	†	†	†
	Crest Canyon #2 North	†	†	†	†	†	†	†	†	†	†	†
	Del Mar Mesa Obs. 1	†	†	†	†	†	†	†	†	†	†	†
	Del Mar Mesa East Obs. 2	†	†	†	†	†	†	†	†	†	†	†
	Penasquitos Canyon	†	†	†	†	†	†	†	†	†	†	†
	San Dieguito River Bluffs Obs. 1	†	†	†	†	†	†	†	†	†	†	†
<i>Baccharis vanessae</i> (Encinitas Baccharis)	†	†	†	†	†	†	†	†	†	†	†	†

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

Scientific Name: <u>Acanthomintha illicifolia</u>		Common Name: <u>San Diego Tharment</u>					
Site Name: <u>Peñasquitos Canyon Obs #1</u>		Management Unit #: <u>TBD</u>					
Date: <u>4/20/09</u>		Management Regime: <u>TBD</u>					
Surveyors and Affiliation/Agency: <u>Roby Miller City of San Diego P+R</u> <u>Keith Geer SANDAG</u>							
Species Found? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
If not, why (if reason known or suspected)?							
Total No. Individuals: <u>103</u>		<input checked="" type="checkbox"/> Exact <input type="checkbox"/> Estimate (use orders of 10, 100 and 1000 for estimates)					
Population/Subpopulation Area: <u>4</u> <u>m²</u>		<input checked="" type="checkbox"/> Exact (based on GPS mapping) <input checked="" type="checkbox"/> Estimate					
Units							
Collection (if not collected previously)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Collected Previously							
If yes: _____							
Collector		Collection Number					
Museum/Herbarium							
I. OBSERVATION AREA/MANAGEMENT UNIT LOCATION							
Accuracy of Coordinates/GPS Error: +/- <u>1</u> <input checked="" type="checkbox"/> meters <input type="checkbox"/> feet							
Observation Location: <u>6276496.255</u> <u>1918576.025</u> <input checked="" type="checkbox"/> State Plane (feet) <input type="checkbox"/> UTM							
II. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT							
Vegetation Community: <u>non-native grassland</u>							
Landowner/Manager: <u>City of San Diego Park + Recreation</u>							
Overall Site Quality** <input type="checkbox"/> Very Good-Excellent <input checked="" type="checkbox"/> Fair to Good <input type="checkbox"/> Poor <input type="checkbox"/> Very Poor							
Surrounding land use: <u>open space</u>							
Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible):		Management Recommendation/s:					
<u>invasive species</u> <u>nearby trail is fenced</u>		<u>weeding</u> <u>continue to maintain fence</u>					
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>Acanthomintha illicifolia</u>	<u>1</u>			<u>Adelphia californica</u>	<u>1</u>		
<u>Nasella pulchra</u>	<u>1</u>			<u>Tricoma menziesii</u>	<u>2</u>		
* <u>Brachypodium distachyon</u>	<u>50.5</u>			* <u>Brassica nigra</u>	<u>1</u>		
* <u>Gastidium ventricosum</u>	<u>10</u>			<u>Salvia mellifera</u>	<u>1</u>		
* <u>Avena sp. barbata</u>	<u>3</u>			<u>Rhus integrifolia</u>	<u>1</u>		
<u>Deinandra fasciculata</u>	<u>15</u>			<u>Salvia apiana</u>	<u>1</u>		
<u>Calochortus splendens</u>	<u>1</u>			<u>Eriophyllum confertiflorum</u>	<u>1</u>		
<u>unk plant</u>	<u>10</u>			<u>bare ground</u>	<u>5</u>		
IV. SITE PHOTOMONITORING							
Camera type: <u>Nikon Coolpix S560</u>							
<u>6276496.255</u> <u>1918576.025</u>	<u>E, SE, S, SW</u>	<u>0.85 m</u>	<u>0°</u>	<u>735-740</u>	<u>5/05/mscp</u>		
Location [State Plane (ft)]	Direction (facing)	Height	Camera Angle	Photo #	File location/s		
_____	_____	_____	_____	_____	_____		
Location [State Plane (ft)]	Direction (facing)	Height	Camera Angle	Photo #	File location/s		
_____	_____	_____	_____	_____	_____		
V. OTHER FIELD NOTES							
Other Field Notes/Comments: _____							

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

**Photo 4. *Acanthomintha ilicifolia* (San Diego Thornmint)
Penasquitos Canyon Observation # 1**



Panorama from North of population, facing East, Southeast, South, Southwest.
Panorama location is 6276496.255 1918576.025 NAD83 State Plane California Zone 6 (feet)
Photos merged using ArcSoft Panorama Maker 4.

**Photo 5. *Acanthomintha ilicifolia* (San Diego Thornmint)
Penasquitos Canyon Observation # 2**



Panorama from North of population, facing Southeast, South, Southwest.
Panorama location is 6276540.332 1918463.766 NAD83 State Plane California Zone 6 (feet)
Photos merged using ArcSoft Panorama Maker 4.

**Photo 6. *Acanthomintha ilicifolia* (San Diego Thornmint)
Penasquitos Canyon Observation # 3**



Panorama from Western edge of population, facing East, Southeast, South, Southwest.
Panorama location is 6276371.021 191857.833 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