

## City of San Diego MSCP Rare Plant Monitoring: 2008 Summary Results

Species	Site Name	Population		# Individuals	% Cover	Native		Non-		Management Recommendation	Field Data Sht (pg. #)	Photo (pg. #)
		Area (m <sup>2</sup> ) <sup>1</sup>	Area (ft <sup>2</sup> ) <sup>1</sup>			Number of Species <sup>2</sup>	Percent Cover <sup>2,3</sup>	Number of Species	% Cover <sup>3</sup>			
<i>Acanthomintha ilicifolia</i> (San Diego Thorn-mint)	Black Mountain	0.5	5.0	9	0.5%	16	23%	4	83%	Control invasives (especially non-native grasses like <i>Brachypodium</i> spp.)	10	12
	Mission Trails Regional Park	3035.0	32670.0	250	1%	14	37%	7	36%	Invasive removal If possible without disturbing soils	14	16
	Otay Lakes	10.7	115.0	0	0%	8	53%	5	68%	Control invasives	18	19
	Penasquitos Canyon Obs. 1	59.1	636.1	0	0%	14	56%	2	51%	Control invasives	20	21
	Penasquitos Canyon Obs. 2	5.7	61.1	0	0%	6	47%	2	53%	Control invasives	22	23
	Penasquitos Canyon Obs. 3	118.3	1273.3	0	0%	6	47%	1	50%	Control invasives	24	25
	Sabre Springs East Subpopulation	54.8	589.6	100	3%	7	63%	10	43%	Control <i>Brassica</i> spp., continue invasive removal efforts	26	27
	Sabre Springs South Subpopulation	225.0	2421.0	500	3%	14	91%	9	53%	Control invasives	30	32
	Sabre Springs West Subpopulation	150.0	1614.0	150.0	5%	5	71%	9	20%	Control invasives	28	29
		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 Kumeaya Lake	16809.0	180931.0	45000	3%	9	22%	11	101%	Invasive species removal/dethatch, if possible without damaging <i>Ambrosia pumila</i>	36	38
<i>Arctostaphylos glandulosa</i> ssp. <i>Crassifolia</i> (Del Mar Manzanita)	Carmel Mountain	800.0	8611.0	100	20%	10	83%	1	1%	Monitor trail use & install barriers if needed	42	43
	Crest Canyon #1 South	930.8	10018.8	10	1%	19	88%	2	3%	Limit recreational use to designated trails, install protective fencing near sensitive populations; remove invasive species ( <i>Mesembryanthemum</i> ssp. and <i>Cortaderia selloana</i> )	44	45
	Crest Canyon #2 North	12140.0	130673.0	100	2%	15	49%	2	2%	Control of <i>Ehrharta</i> spp., educational community outreach	46	47
	Del Mar Mesa Obs. 1	4451.0	47910.0	100	2%	11	72%	0	0%	Educational community outreach for bordering residential, control invasive populations, review of landscape concept plans	48	49
	Del Mar Mesa East Obs. 2	17609.0	189541.0	20	4%	10	96%	0	0%	None	50	51
	Penasquitos Canyon	12068.0	129898.0	10	1%	11	94%	0	0%	None	52	53
	San Dieguito River Bluffs Obs. 1	1173.0	12626.0	100	5%	13	53%	3	4%	Control pampas, fountain grass, and landscape plants ( <i>Mesembryanthemum</i> ssp. and <i>Acacia</i> spp.)	54	55
<i>Baccharis vanessae</i> (Encinitas Baccharis)	†	†	†	†	†	†	†	†	†	†	†	†

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

Scientific Name: <u>Ambrosia pumilla</u>		Common Name: <u>San Diego Ambrosia</u>	
Site Name: <u>MWRP - Kumeyay Lake</u>		Management Unit #: <u>N/A</u>	
Date: <u>5/17/05</u>		Management Regime: <u>N/A</u>	
Surveyors and Affiliation/Agency: <u>Betsy Miller, City of San Diego MSCP</u> <u>Rita Poner, City of San Diego MSCP</u>			
Species Found? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Total No. Individuals: <u>45,000</u> <input type="checkbox"/> Exact <input checked="" type="checkbox"/> Estimate (use orders of 10, 100 and 1000 for estimates)			
Population/Subpopulation Area: <u>14809.00</u> <u>M<sup>2</sup></u> <input checked="" type="checkbox"/> Exact (based on GPS mapping) <input type="checkbox"/> Estimate			
Collection (if not collected previously)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Collected Previously <u>see existing GPS data</u> <u>in 2000 pop data</u>			
Collector: _____		Collection Number: _____	
		Museum/Herbarium: _____	
<b>I. OBSERVATION AREA/MANAGEMENT UNIT LOCATION</b>			
Accuracy of Coordinates/GPS Error: +/- <u>&lt;1</u> <input checked="" type="checkbox"/> meters <input type="checkbox"/> feet			
Observation Location: <u>10321443.021</u> <u>15860116.476</u> <input checked="" type="checkbox"/> State Plane (feet) <input type="checkbox"/> UTM			
<b>II. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT</b>			
Vegetation Community: <u>non-native grasslands, disturbed CSS</u>			
Landowner/Manager: <u>City of San Diego PRR Open Space</u>			
Overall Site Quality** <input type="checkbox"/> Very Good-Excellent <input type="checkbox"/> Fair to Good <input checked="" type="checkbox"/> Poor <input type="checkbox"/> Very Poor			
Surrounding land use: <u>open space, transportation, residential</u>			
Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible): <u>high cover non-native grasses;</u> <u>no evidence of volunteer plants, etc</u>		Management Recommendation/s: <u>invasive species removal/dethatch,</u> <u>if possible without damaging</u> <u>Ambro</u>	
<b>III. ASSOCIATED SPECIES</b>			
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. #
<u>Brassica nigra*</u>	<u>3</u>		
<u>Centauria uniflora*</u>	<u>3</u>		
<u>Isocoma menziesii</u>	<u>3</u>		
<u>Hypochaeris glabra*</u>	<u>4</u>		
<u>Eriogonum fasciculatum</u>	<u>7</u>		
<u>Erodium spp.*</u>	<u>3</u>		
<u>Daucus pumilla</u>	<u>2</u>		
<u>Ambrosia pumilla</u>	<u>3</u>		
<u>Hirschfeldia incana*</u>	<u>4</u>		
<u>Lesqueria filaginifolia var. filaginifolia</u>	<u>1</u>		
<u>Lotus purshianus var. p.</u>	<u>1</u>		
<u>Holcus virgatus</u>	<u>2</u>		
<u>Bromus hordeaceus*</u>	<u>15</u>		
<u>Bromus diandrus*</u>	<u>7</u>		
<u>Vulpia myuros var. m.*</u>	<u>50</u>		
<u>Bromus madritensis (f. sp. m.)</u>	<u>10</u>		
<b>IV. SITE PHOTOMONITORING</b>			
Camera type: <u>Panon Powershot A75</u>			
<u>10321443.021</u>	<u>15860116.476</u>	<u>NW, N, NE, E</u>	<u>50 m</u>
Location [State Plane (ft)]		Direction (facing)	Height
		<u>~50° down</u>	<u>168-171</u>
		Camera Angle	Photo #
			File location/s
<b>V. OTHER FIELD NOTES</b>			
Other Field Notes/Comments: _____			
_____			
_____			

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

Continue on back if needed.

Modified Trudgen & Keighery Vegetation Condition Scale

Very Good-Excellent	80-100% Native Flora Composition Vegetation Structure intact or nearly so Cover /abundance of weeds < 5% No or minimal signs of disturbance
Fair to Good	50-80% Native Flora Composition Vegetation structure modified or somewhat modified Cover/abundance of weeds 5-20% any number of individuals Possible minor signs of disturbance
Poor	20-50% Native Flora Composition Vegetation structure modified Cover/abundance of weeds 20-60% any number of individuals Disturbance incidence high
Very Poor	0-20% Native Flora Composition Vegetation Structure disappeared Cover/abundance of weeds 60-80% any number of individuals Disturbance incidence very high

Form	Species	Cover
	<i>Nasella pulchra</i>	1
	<i>Avena barbata</i>	1
	<i>Avena fatua</i>	1
	<i>Distichlis spicata</i>	2



**Photo 10. *Ambrosia pumila* (San Diego Ambrosia)  
Mission Trails Regional Park - Kumeyaay Lake**



Panorama from Northeastern edge of population, facing Northwest, North, Northeast, East.

Panorama location is 6321443.021 1886016.476 State Plane California Zone 6 (feet)

Photos merged using Canon PhotoStitch, v. 3.1.

## **Acknowledgments**

The following staff assisted in the preparation of this report:

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