









# City of San Diego 2013 MSCP Rare Plant Monitoring Report

City of San Diego Park and Recreation Department Open Space Division

August 2013

Cover Photo Credits (from top to bottom): Ambrosia pumila: © Jim Rocks, 2003 Brodiaea orcuttii: © Scott McMillan, 2001 Dudleya brevifolia: © City of San Diego, 2005 Acanthomintha ilicifolia: © Scott McMillan, 2001 Monardella viminea: © City of San Diego, 2003 Dudleya variegata: © City of San Diego, 2004 Cordylanthus orcuttii: © City of San Diego, 2005

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## 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 Game. 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 2013, the City performed rare plant monitoring using the methodologies from the 2007 and 2010 USGS reports for the following species/sites:

Acanthomintha ilicifolia - Black Mountain, Dennery Ranch East, Mission Trails Regional Park, Otay Lakes, Penasquitos Canyon, 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 orcuttii - Carroll Canyon, Lopez Ridge, Nobel Drive, USIU/Scripps Ranch Cylindropunita californica var. californica – Otay Mesa, Spring Canyon Deinandra conjugens – Dennery Ranch, Dennery Ranch East, Proctor Valley Dicranostegia orcuttiana – Otay River Valley Dudleya blochmaniae ssp. brevifolia - Carmel Mountain, Crest Canyon Dudleya variegata - Black Mountain East, East Elliott, Goat Mesa/Spring Canyon, Marron Valley, Mercy Road, Mission Trails Regional Park, Navajo/Mission Gorge, Otay Lakes, Santa Luz Eryngium aristulatum var. parishii -Goat Mesa/Spring Canyon, Otay Lakes Monardella stoneana - Otay Lakes Monardella viminea - Lopez Canyon, Sycamore Canyon Navarretia fossalis - Carroll Canyon, Goat Mesa/Spring Canyon, Nobel Drive, Otay Lakes, Robinhood Ridge Pogogyne abramsii – Carroll Canyon, Lopez Ridge Pogogyne nudiuscula - Robinhood Ridge Rosa minutifolia - Dennery Ranch

The results of the rare plant monitoring are used by the City to develop a list of management needs. This separate management report will be compiled at the end of calendar year 2013.

#### City of San Diego MSCP Rare Plant Monitoring: 2013 Summary Results

			Population	1	Na	ative	Non-	Native			
Species	Site Name	Area (m²) <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>	Management Recommendations	Field Data Sht (pg.#)	Photo (pg. #)
Acanthomintha ilicifolia	Black Mountain	56.0	79	1%	21	74%	6	68%	Treat NNG using CBI method when available if possible due to remote location/topography	7	9
(San Diego Thorn-mint)	Dennery Ranch East	0.0	0	0%	8	19%	10	109%	Treat NNG using CBI methods when available	11	13
	Mission Trails Regional Park	17.9	737	1%	12	19%	9	68%	Continue hand-weeding program	15	17
	Otay Lakes	0.0	0	0%	13	27%	9	55%	Continue to monitor and treat weeds as necessary	19	21
	Penasquitos Canyon Obs. 1	36.8	673	1%	16	58%	9	54%	Treat NNG using CBI methods when available	23	25
	Penasquitos Canyon Obs. 2	7.9	135	1%	22	77%	9	81%	Treat NNG with CBI methods when available	26	28
	Penasquitos Canyon Obs. 3	6.3	85	2%	17	61%	6	72%	Treat NNG with CBI methods when available	29	31
	Sabre Springs East Subpopulation	21.7	45	1%	15	37%	9	100%	Treat NNG using CBI methods when available	39	41
	Sabre Springs West #1 Subpopulation	6.4	8	1%	8	24%	14	54%	Continue weeding	33	35
	Sabre Springs West #2 Subpopulation	38.9	8.0	<1%	11	30%	16	118%	Treat NNG using CBI methods when available	36	38
A	Mission Bay Mariner's Point	t	t	t	t	t	t	t	Area fenced for Least Tern Breeding. Continue hand weeding	52	54
Acmispon prostratus (Nuttall's Lotus)	Mission Bay Dune Triangle	0.0	0	0%	6	58%	3	50%	None	45	46
	Mission Bay Hospitality Point	2712.3	294	5%	7	48%	11	65%	Continue weeding	48	50
	No Man's Land (Mission Bay Site #1)	2425.1	195	1%	8	32%	7	93%	Weeding	55	57
	SD River Rip Rap (Mission Bay Site #3)	878.2	34	4%	14	27%	13	118%	None	59	61
	South Shores (Mission Bay Site #6)	2913.8	2575	1%	9	14%	11	121%	Continue weeding and pulling hottentot fig (ongoing via TransNet grant to Audubon)	63	65
		Note: Presence	absence only su	rveys conducted	at Mariner's Poi	int		I			
Ambrosia pumila	Mission Trails Regional	8454.2	3500	1%	10	27%	7	36%	Continue weed treatment program	69	71
(San Diego Ambrosia)	Park Kumeyaay Lake										
Bloomeria clevelandii	East Elliott Obs. 1	12734.7	5000	3%	16	37%	9	59%	Evaluate ability to treat NNG given remote location and steep topography	75	77
(San Diego Goldenstar)	East Elliott Obs. 2	41.7	14	1%	13	70%	7	54%	None	78	80
	East Elliott Obs. 3	0.0	0	0%	14	68%	4	14%	None	81	83
	East Elliott Obs. 4	0.0	0	0%	16	45%	4	5%	None	84	86
	East Elliott Obs. 5	330.2	89	1%	17	100%	3	12%	None	87	89
	Lopez Ridge	2632.4	1470	1%	20	106%	7	35%	Treat weeds as needed	91	93
	Marron Valley Obs. 1	N/A	20	1%	16	25%	8	71%	Any weed treatments should be tested via pilot program	95	97
	Marron Valley Obs. 2	N/A	45	1%	11	36%	9	57%	None	98	100
	Marron Valley Obs. 3	N/A	50	1%	15	41%	9	74%	Any weed treatments should be tested via pilot program	101	103
	Marron Valley Obs. 4	N/A	75	1%	10	36%	6	63%	Any weed treatments should be tested via pilot program	104	106
	Mission Trails Regional Park	0.0	0	0%	13	55%	7	35%	Continue to monitor post-burn recovery and evaluate weed treatment if needed	108	110
	Otay Lakes East Obs. 1	1287.9	100	1%	12	52%	7	109%	Continue monitoring and treat weeds as neeeded	112	114
	Otay Lakes West Obs. 2	1287.9	50	1%	11	37%	10	49%	Continue monitoring and treat weeds as needed	115	117
Brodiaea orcuttii	Carroll Canyon	230.7	755	3%	24	94%	6	116%	Site to be enhanced via mitigation project	121	123
(Orcutt's Brodiaea)	Lopez Ridge	427.1	3067	12%	20	107%	7	35%	Treat weeds as needed	125	127
	Nobel Drive	0.75	9	3%	14	85%	10	12%	Continue treatment program	129	131
	USIU/Scripps Miramar Ranch	0.0	0	0%	15	37%	12	115%	Continue to survey; if species found, treat weeds	133	135
	USIU/Scripps Miramar								Continue to survey; if species found, treat		

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Species	Site Name	Area (m²) <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>	Management Recommendations	Field Data Sht (pg.#)	Photo (pg. #)
Cylindropuntia californica	Otay Mesa	6547.3	60	1%	13	50%	7	29%	Continue to monitor and treat weeds as needed	139	141
(Snake Cholla)	Goat Mesa (Spring Canyon)	1367.1	33	1%	14	51%	9	41%	Continue to monitor and treat as needed	143	145
Deinandra conjugens	Dennery Ranch East	4493.8	4500	7%	11	65%	8	66%	Weeding	153	155
(Otay Tarplant)	Dennery Ranch	0.0	0	0%	10	55%	5	31%	None	149	151
	Proctor Valley	0.0	0	0%	12	64%	9	93%	Treat weeds using CBI methodology when available	157	159
Dicranostegia orcuttiana (Orcutt's Bird's Beak)	Otay River Valley	142.9	173	2%	20	80%	5	12%	None	163	165
Dudleya blochmaniae ssp. brevifolia	Carmel Mountain Obs. 1	148.7	2490	1%	20	77%	6	12%	None	169	171
(Short-Leaved Dudleya)	Carmel Mountain Obs. 2	61.9	537	1%	17	93%	1	2%	None	173	175
	Carmel Mountain Obs. 3	963.5	6636	2%	21	83%	2	6%	Maintain trail closure	177	179
	Crest Canyon North	145.1	2876	1%	24	122%	2	6%	None	181	183
	Crest Canyon South	31.6	53	1%	24	73%	0	0%	None	185	187
Dudleya variegata	Black Mountain East	0.0	0	0%	16	64%	7	81%	Treat Brachypodium if DUVA is observed	191	193
(Variegated Dudleya)	East Elliott - Creek	0.5	1	1%	20	60%	10	78%	Treat weeds around population	195	197
	East Elliott - Hilltop	26.3	39	1%	21	83%	6	14%	Close trail	199	201
	East Elliott - Slope	8.6	2	<1%	13	49%	8	55%	Weeding	203	205
	Goat Mesa (Spring Canyon)	201.8	479	1%	14	70%	5	40%	None	207	209
	Marron Valley	80.7	1726	3%	14	77%	7	137%	Weeding	211	213
	Mercy Road	118.7	712	2%	20	64%	6	67%	None	215	217
	Mission Trails #1	63.9	19	1%	13	46%	7	28%	None	219	221
	Mission Trails #2	151.5	2414	10%	22	74%	7	73%	Weeding	223	225
	Mission Trails #3	13.5	195	1%	14	91%	9	34%	Keep NNG from invading pop	227	229
	Navajo/Mission Gorge	35.7	582	2%	13	55%	6	44%	Treat Brachypodium using CBI methods when available if logistically possible	231	233
	Otay Lakes	0.0	0	0%	10	33%	8	72%	If species found, consider weeding	235	237
	Santa Luz	0.0	0	0%	17	70%	9	66%	If species found, consider weeding	239	241
Eryngium aristulatum var. parishii	Goat Mesa #1 (Spring Canyon)	75.0	878	7%	5	50%	10	51%	Continue monitoring and treat weeds as needed	245	247
(San Diego Button Celery)	Goat Mesa #2 (Spring Canyon)	373.1	895	5%	13	55%	8	71%	Continue monitoring and treat weeds as needed	249	251
	Otay Lakes	14081.6	1600	3%	9	26%	8	58%	None, NNG cover in vernal pool due to low rainfall	253	255
Monardella stoneana (Jennifer's Monardella)	Otay Lakes	8.0	1	<1%	17	66%	13	70%	None	259	261
Monardella viminea (Willowy Mondardella)	Lopez Canyon West Terrace #1	0.0	0	0%	12	67%	11	20%	None	265	267
	Lopez Canyon East of Bridge #2	106.6	8	1%	16	57%	8	65%	Continue volunteer management effort	269	271
	Lopez Canyon East of Bridge #3	2.6	2	2%	9	77%	10	21%	None	273	275
			70	4%	14	39%	11	62%	Continue streambank monitoring, continue	277	279

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Navarretia fossalis (Spreading Navarretia)	Carroll Canyon	2.3	19	1%	10	130%	5	22%	None	283	285
	Goat Mesa (Spring Canyon)	0.0	0	0%	5	50%	10	51%	Continue monitoring and treat weeds if needed	287	289
	Nobel Drive	11.3	122	1%	14	85%	10	12%	Continue weeding project	291	293
	Otay Lakes	3.0	1	<1%	17	66%	13	69%	Continue monitoring and treat as needed	295	297
	Robinhood Ridge	0	0	0%	9	48	8	23%	None	299	301
Pogogyne abramsii (San Diego Mesa Mint)	Carroll Canyon	181.2	19800	45%	14	111%	5	15%	None	305	307
	Lopez Ridge	335.9	40185	35%	9	48%	8	23%	Treat weeds as needed	309	311
Pogogyne nudiuscula (Otay Mesa Mint)	Robinhood Ridge	13.5	10	2%	9	48%	8	23%	None	315	317
Rosa minutifolia (Small-leaved Rose)	Dennery Ranch	93.6	7	5%	10	55%	5	52%	None	320	322
1) Observation area only, not necess 2) Number and percent cover of nati 3) Elvin.M.A and Sanders, S.C. (200 † No data collected	ve species includes species of	interest.			m California, Unit	ed States. Novon. 13	3:4. 425432				ĺ

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*Acanthomintha ilicifolia* San Diego Thorn-Mint



© Scott McMillan, 2001

Scientific Name: Acanthomintha i	LITCITOITA	Common Nar	no. Dun Dieg	A CONTRACTOR OF A CONTRACTOR O	THEFT		
Site Name: Black Mountain		Management	Unit #: TBA			-	
Date: 4/16/13		Management	Regime: TBA				-
Surveyors and Affiliation/Agency:	y Miller, 1	Kim Roeland	Mike Mil	ano -			
			Cites	I Jan a	Dieg	40	
Species Found? Yes No				/	/		-
	1	If not, why (if rea	ason known or suspect	ted)?			
Total No. Individuals:77	ZExact Estim	ate (use orders of 10	), 100 and 1000 for e	stimates)			
Population/Subpopulation Area: 55.99	<u>5</u> <u>m</u>		(based on GPS mapp		stimate		
If yes:	Yes No [	Collected Previous	ilγ				
Collector		Collection Number	Muse	um/Herbarium	-	1	
. OBSERVATION AREA/MANAGEMEN	IT UNIT LOCATIO	0N					
Accuracy of Coordinates/GPS Error: +/-	<1 X m	eters 🗌 feet					
Observation Location: 6284663.39	1946	543.29 🕱	State Plane (feet)	UTN	1		
					-	-	-
II. GENERAL HABITAT DESCRIPTION	1 Charles The State of Long Street St		1		-	-	-
Vegetation Community: ARTEARSIA CAUR				UPORVICA-	SALVI	AM	
Landowner/Manager: Sty of Sai	n Diego Par	k and Recr	eation			_	Assed
Overall Site Quality**	ood-Excellent	Fair to Good	Poor	Πv	ery Poo	or	
Surrounding land use: _ORED Social	e, resident	111					
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\*\* Use Trudgen & Keighery Vegetation Condition Scale Descriptions (see back of form or instructions)

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

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Pecies

Stipa pulchra

Cheridium dumosa Calochortus splendens

to cover

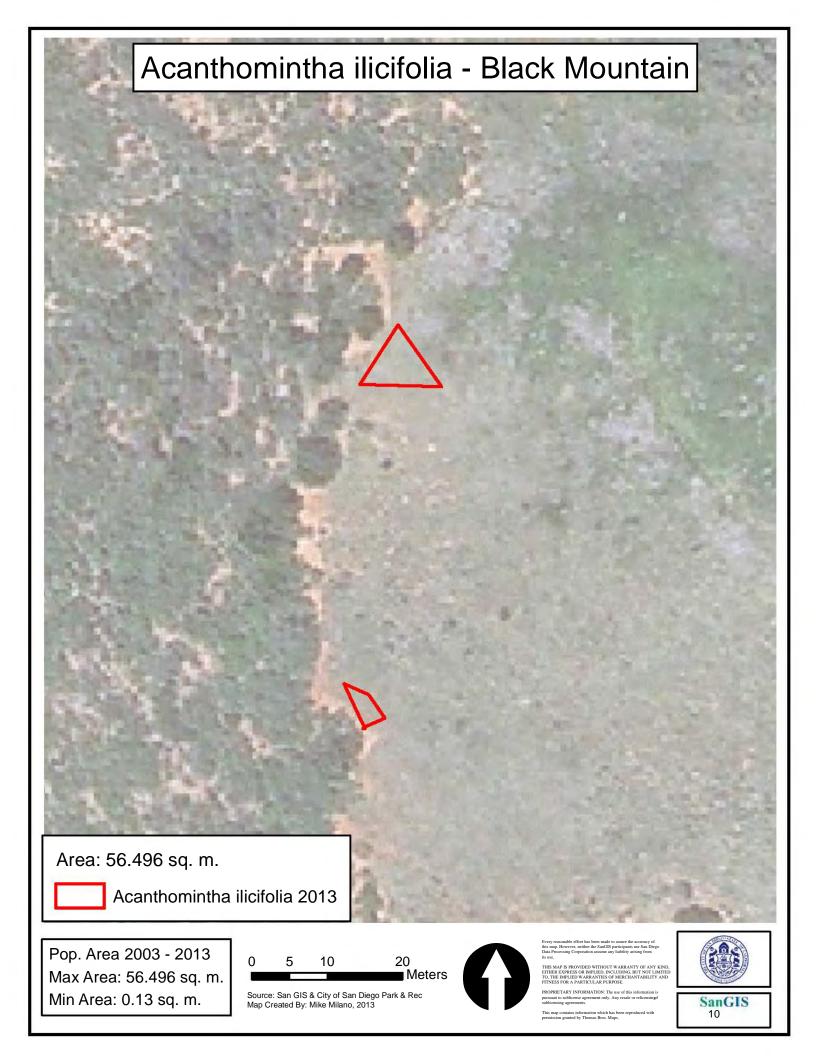
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Cynara cardunculus \* Brassico rigra 3 Chlorogalum parrifolium \* Bromus hordeaceus 3 & Brashypodium distachyon 55 \* Avena barbata 5 Harpagonetta palmenii \* Sonchus asper Z

## Acanthomintha ilicifolia (San Diego Thornmint) Black Mountain



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.



Scientific Name: Acanthamintha ilicifolia		Common N	lame: San Diego T	hornmint	
Site Name: Dennery Ranch East			ent Unit #: TBD	(ion finitiant	
Date: 4/20/13		and the second second second	ent Regime: TBD		
Surveyors and Affiliation/Agency: Sets	V Miller Kim			o. Sul	Magner -
	( <i>n</i> ,		0.1	1 Sand	~//
	Exact Estimate	If not, why (if	reason known or suspect 10, 100 and 1000 for es		/
Population/Subpopulation Area:	2 m Units	Z DEX	act (based on GPS mapp	ing) 🗌 Est	imate
If yes:		Collected Previo			_
Collector	and the second second	ollection Number	Muse	um/Herbarium	
I. OBSERVATION AREA/MANAGEMEN	CALIFORNIA CARTER CARTER CALIFORNIA	_			
Accuracy of Coordinates/GPS Error: +/	<1 mete	ers 🗌 feet	manual second second		
Observation Location: 1793100.27	6323383	3.67	State Plane (feet)	D UTM	
Landowner/Manager:     City of San Diego       Overall Site Quality**     Very G	ia chinensis A Park and Recreation ood-Excellent Space, resid	Fair to G	Bachiopsis 10	ciniata	s— Association ny Poor
	party raise	en man			
high cover non-native gras	ses	metho	weeds user as	ailabl	2
List dominant, subdominant and invasive spe Species'=List all species (sci. name). Use * to indi column; if submitted to herbarium, note collection r	cate non-native species;	'Cover"= % co	ver of species; Note if co		king 'Coll.'
Species	Cover Coll? Coll. #	and the second s			Cover Coll? Coll. #
Mirabilio laevis .	1	Enigana	m fasciculatu	m ,	3
Simmondia Chinenses			nadt itensis sop	a nikers	40
Pentona arborea var. arborea. Rhus integrifelia	2 4	Somus n	dium distachy	in	2552
Cylindapuntia prolifera	1 4		as op;		5
Stipa of p. 11	*	Medicas	so pokymorpha		2
Certaurea helitensis	30 #	Endium	a perennus		;
IV. SITE PHOTOMONITORING			4		
Camera type: PENTAX OFTIO	wao				
1793100.3 6323383.7 Location [State Plane (ft)]	W,SW,S Direction (facing)	1.1m Height	10* down Camera Angle	<u>137-148</u> Photo #	S/OS/MSCP 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)

升

Continue on back if needed.

1. A. A.

Very Good-Excellent	80-100% Native Flora Composition	ailean m
	Vegetation Structure intact or nearly so	
	Cover /abundance of weeds < 5%	والمراجعة الم
	No or minimal signs of disturbance	
Fair to Good	50-80% Native Flora Composition	
	Vegetation structure modified or somewhat modified	waine
	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	an v deline
Very Poor	0-20% Native Flora Composition	283329
-	Vegetation Structure disappeared	
	Cover/abundance of weeds 60-80% any number of individuals	
★ 1.1 1	Disturbance incidence very high	

% cover

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\* Brassica regra \* Featurca myuros

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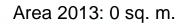
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## Acanthomintha ilicifolia (San Diego Thornmint) Dennery Ranch East



Panorama from Southern edge of population, facing West, Southwest, South. Panorama location is 6323383.67 1793100.27 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

## Acanthomintha ilicifolia - Dennery Canyon East



Acanthomintha ilicifolia

Pop. Area 2010 - 2013 Max Area: 1005.8 sq. m. Min Area: 0 sq. m.





very reasonable effort has been made to assure the accuracy of is map. However, neither the SanGIS participants nor San Diego ata Processing Corporation assume any liability arising from use.

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FITNESS FOR A PARTICULAR PURPOSE. PROPRIETARY INFORMATION: The use of this information is pursuant to sublicense agreement only. Any resale or relicensing/

This map contains information which has been reproduced w permission granted by Thomas Bros. Maps



Scientific Name: Acanthomintha	and the second second second second		cnmint	
Site Name: Mission Trails Re	egional I			
Date: 4/18/13	1	Management Regime: TBA		
Surveyors and Affiliation/Agency:	by Miller	- + Kim Roeland - City of Sand	rego	
Species Found? ZYes No				
777	A	If not, why (if reason known or suspected)?		
		Estimate (use orders of 10, 100 and 1000 for estimates)		
	79188	Units 2013 CPS date	Estimate	
If yes:	Yes 2			
Collector	All the second second	Collection Number Museum/Herbari	um	
I. OBSERVATION AREA/MANAGEME	the second s	a second s		
Accuracy of Coordinates/GPS Error: +/-		X meters feet		1.1
Observation Location: 6308619.85		1881117.52 X State Plane (feet)	ЛМ	
II. GENERAL HABITAT DESCRIPTION		TATS ASSESSMENT	10-13-1-1	
	And the second second second second	WHEN AUGUL - MUTENENT	- Abutth 127	and
		p Park and Recreation Open Space		
Overall Site Quality**	Good-Excellent	Ear to Good Poor	Very Poor	
Surrounding land use: open spo	loe			
of disturbance or percent cover of disturban		Management Recommendation/s:	-	
of disturbance or percent cover of disturban	nce if possible)	continue hand-weeding	program	n -
Disturbances and/or threats (be specific, inc of disturbance or percent cover of disturban nearby trails are fenced modern to cover Brachypson	nce if possible)	continue hand-weeding	program	m
of disturbance or percent cover of disturban nearby trails are fenced modern te cover Brachypson III. ASSOCIATED SPECIES	lium Lium	continue hand-weeding,	program	m
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Continue on back if needed.

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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

<u>speckes</u> + Bromus hordaeccus

% cover

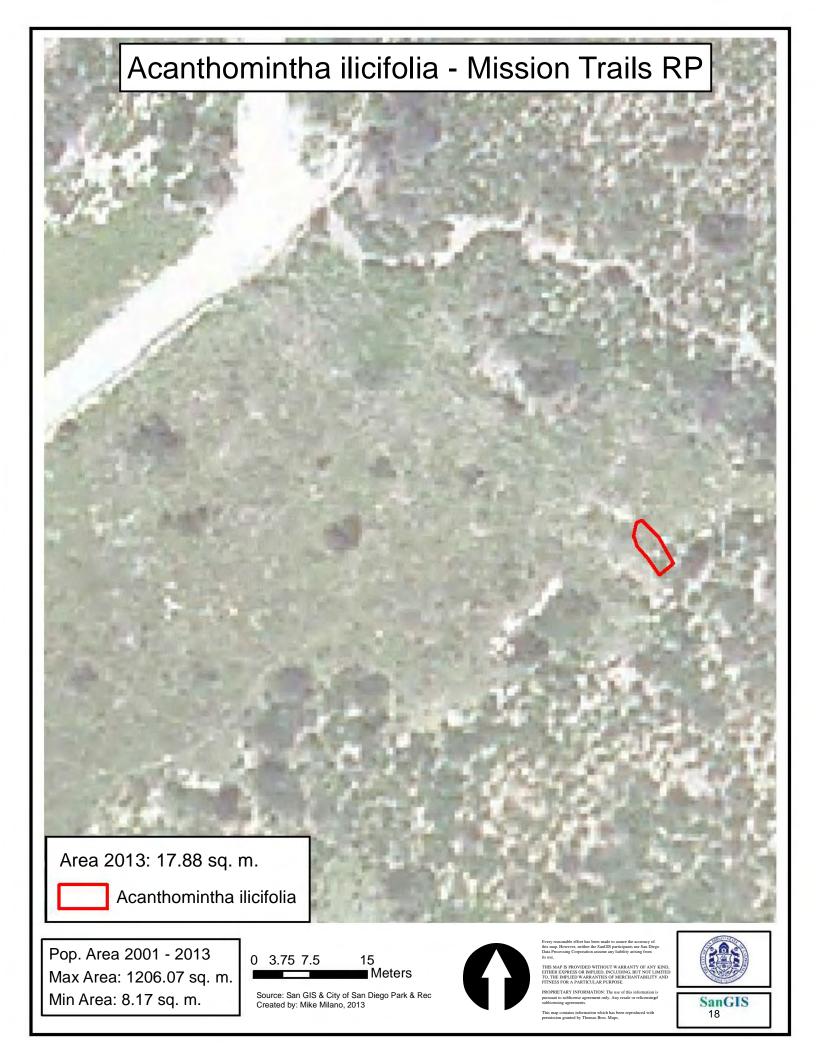
\* Lepidium sp. \* Polypagan intemptus Convolvulus simulans / ۲

Logfia filaginoides 2/

## Acanthomintha ilicifolia (San Diego Thornmint) Mission Trails Regional Park



Panorama from Western edge of population, facing North, Northeast, East, Southeast, South. Panorama location is 6308619.848 1881117.522 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Scientific Name: Acanthomintha i	llicifolia	Common Name: San Diego Tho	ornmint
Site Name: Otay Lakes		Management Unit #: TBA	
Date: 5/2/13		Management Regime: TBA	
Surveyors and Affiliation/Agency:	Millen Kim	Racland, Mate Milaro -	
		City of da	1 Diego
Species Found? Yes No 1	miled populas	lion in previous years; dry If not, why (if reason known or suspected)?	elativery year
fotal No. Individuals:	Exact Estimat	te (use orders of 10, 100 and 1000 for estimates)	
Population/Subpopulation Area:			Estimate
	Unit	ts	
Collection (if not collected previously)?	Yes No	Collected Previously	
If yes:			
Collector	and the second second	Collection Number Museum/Herba	irium
OBSERVATION AREA/MANAGEMEN	Contraction of the state of the		-
ccuracy of Coordinates/GPS Error: +/-		이상 승규가 아니는 것이 것이 많이 많이 했다.	
Observation Location: 6356877.62	18075	31.39 X State Plane (feet)	] UTM
GENERAL HABITAT DESCRIPTION	AND THREATS AS	SSESSMENT	
	and because a construction of the state	WANTER ALIANCE DEINANDRA PASCI	WHETA ASCOCUL
andowner/Manager: City of San	n Diego Public	: Utilities Dept.	Co-Ind In Storth
	ood-Excellent	Fair to Good	Very Poor
	ood-LACENEIIC	Fair to Good	
urrounding land use: Open soon	10		
isturbances and/or threats (be specific, inclu f disturbance or percent cover of disturbance	ide extent if possible):	Management Recommendation/s: continue to monitor + the as necessary	eatweeds
Disturbances and/or threats (be specific, inclu of disturbance or percent cover of disturbance boders to cover NNG + error	ide extent if possible):	continue to monitor + the	eat weeds
Disturbances and/or threats (be specific, inclu of disturbance or percent cover of disturbance boders to cover NNG + error II. ASSOCIATED SPECIES	ide extent a if possible): lium	continue to monitor + +	leat weeds
Disturbances and/or threats (be specific, inclu f disturbance or percent cover of disturbance hoders & cover NNG + eroo I. ASSOCIATED SPECIES ist dominant, subdominant and invasive spec pecies'=List all species (sci. name). Use * to indic	ide extent a if possible): //wm cies in/near target sp cate non-native species	eontinue to monitor + t as necessary eccies observation area/management unit. s; 'Cover''= % cover of species; Note if collected by	
I. ASSOCIATED SPECIES ist dominant, subdominant and invasive speci pecies'=List all species (sci. name). Use * to indic olumn; if submitted to herbarium, note collection n	ide extent a if possible): //wm cies in/near target sp cate non-native species	eontinue to monitor + t as recessary eccess observation area/management unit. s; 'Cover''= % cover of species; Note if collected by HM unless otherwise noted).	y checking 'Call.'
I. ASSOCIATED SPECIES ist dominant, subdominant and invasive species'=List all species (sci. name). Use * to indici- bolumn; if submitted to herbarium, note collection n ecies	ide extent a if possible): fium cies in/near target sp cate non-native species umber (submit to SDN/	eontinue to monitor + to as necessary eccies observation area/management unit. s: 'Cover''= % cover of species; Note if collected by HM unless otherwise noted). Species	y checking 'Call.'
I. ASSOCIATED SPECIES ist dominant, subdominant and invasive species'=List all species (sci. name). Use * to indicionary ist dominant, ist dominant and invasive species pecies'=List all species (sci. name). Use * to indicion pecies	ide extent a if possible): fium cies in/near target sp cate non-native species umber (submit to SDN/	eontinue to monitor + t as recessary eccess observation area/management unit. s; 'Cover''= % cover of species; Note if collected by HM unless otherwise noted).	y checking 'Coll.' Cover Coll? Coll. 1 20
I. ASSOCIATED SPECIES ist dominant, subdominant and invasive species'=List all species (sci. name). Use * to indic olumn; if submitted to herbarium, note collection n ecces Bendriaca ferentics Beinandra famiculara Beinandra famiculara	ide extent a if possible): fium cies in/near target sp cate non-native species umber (submit to SDN/ Cover Coll? Coll. #	continue to monitor + + as necessary eccies observation area/management unit. "Cover"= % cover of species; Note if collected by HM unless otherwise noted). Species Anaga lies arvensis Explainen sp. Centqueea melificesis.	y checking 'Coll.' Cover Coll? Coll. 1 20 3
I. ASSOCIATED SPECIES ist dominant, subdominant and invasive species'=List all species (sci. name). Use * to indic olumn; if submitted to herbarium, note collection n ecces Bendrica derestris Beinandra fasciculara Beinandra fasciculara	ide extent a if possible): fium cies in/near target sp cate non-native species umber (submit to SDN/ Cover Coll? Coll. #	eontinue to monitor + + as necessary eccies observation area/management unit. "Cover"= % cover of species; Note it collected by HM unless otherwise noted). Species Anaga //w arvensis Explaining. Configure a melificasis Medicago polymorphy	y checking 'Coll.' Cover Coll? Coll. 1 20
Disturbances and/or threats (be specific, inclu of disturbance or percent cover of disturbance boden & cover NNG + eros II. ASSOCIATED SPECIES ist dominant, subdominant and invasive species species'=List all species (sci. name). Use * to indic olumn; if submitted to herbarium, note collection n ecies Brodiaca ferentis Beinandra fasticulata Dickeya veriegata boodna mensuratio Friegenum fasciculatum	ide extent a if possible): fium cies in/near target sp cate non-native species umber (submit to SDN/ Cover Coll? Coll. #	eontinue to monitor + + as necessary eccies observation area/management unit. "Cover"= % cover of species; Note if collected by HM unless otherwise noted). Species Anaga lies arvensis Economic species Configure a metisfersis Medica go polymorpha Crease Hux illenses	y checking 'Coll.' Cover Coll? Coll. 1 20 3
Disturbances and/or threats (be specific, inclu f disturbance or percent cover of disturbance boden & Cover NNG + ero I. ASSOCIATED SPECIES ist dominant, subdominant and invasive spec pecies'=List all species (sci. name). Use * to indic olumn; if submitted to herbarium, note collection n ecces Bendiaea ferentics Beinandra fariculata Beinandra fariculata	ide extent a if possible): fium cies in/near target sp cate non-native species umber (submit to SDN/ Cover Coll? Coll. #	continue to monitor + + as recessary eccies observation area/management unit. "Cover"= % cover of species; Note if collected by HM unless otherwise noted). Species Anaga lies arvensis Economic species Maga lies arvensis Economic species Medica go polymorphe Crease Hux illensis Lepidium sp.	y checking 'Coll.' Cover Coll? Coll. 1 20 3
isturbances and/or threats (be specific, inclu disturbance or percent cover of disturbance boden & Cover NNG + ero A. ASSOCIATED SPECIES ast dominant, subdominant and invasive spec becies'=List all species (sci. name). Use * to indic bolumn; if submitted to herbarium, note collection n becies Bodiasa ferastris Beinandra fascicala ta Biodiasa ferastris Biodiasa ferastris	ide extent a if possible): ////////////////////////////////////	eontinue to monitor + + as necessary eccies observation area/management unit. "Cover"= % cover of species; Note if collected by HM unless otherwise noted). Species Anaga lies arvensis Economic species Configure a metisfersis Medica go polymorpha Crease Hux illenses	y checking 'Coll.' Cover Coll? Coll. 1 20 3
Associate for the specific, included in the specific of the specific, included of the specific	ide extent a if possible): ////////////////////////////////////	ecies observation area/management unit. continue to monitor + + as recessary ecies observation area/management unit. cover"= % cover of species; Note if collected by HM unless otherwise noted). Species Anaga //us arvensis Endurea meliscessis Endurea meliscessis Medica zo polymorpha Creasa Hux illensis Lepidium sp. Cuscuta occidentalis	y checking 'Coll.' Cover Coll? Coll. 1 20 3
I. ASSOCIATED SPECIES ist dominant, subdominant and invasive species bodies is dominant, subdominant and invasive species ist dominant, subdominant and invasive species pecies'=List all species (sci. name). Use * to indice pecies'=List all species (sci. name). Use * to indice pec	ide extent a if possible): ////////////////////////////////////	continue to monitor + + as recessary ecies observation area/management unit. "Cover"= % cover of species; Note if collected by HM unless otherwise noted). Species Ana gallus arvensis Economy p. Centrurea metitensis Economy p. Centrurea metitensis Lepidium sp. Cuscura oxidentalis Avena sp.	v checking 'Coll.' Cover Coll? Coll. 1 20 3 2 1 1 1
Disturbances and/or threats (be specific, inclu f disturbance or percent cover of disturbance boden & Cover NNG + ero I. ASSOCIATED SPECIES ist dominant, subdominant and invasive speci pecies'=List all species (sci. name). Use * to indic olumn; if submitted to herbarium, note collection n ecies Bodiaca feratris Beinandra fasiculata Biologia fas	ide extent a if possible): ////////////////////////////////////	ecies observation area/management unit. continue to monitor + + as recessary ecies observation area/management unit. cover"= % cover of species; Note if collected by HM unless otherwise noted). Species Anaga //us arvensis Endurea meliscessis Endurea meliscessis Medica zo polymorpha Creasa Hux illensis Lepidium sp. Cuscuta occidentalis	v checking 'Coll.' Cover Coll? Coll.: 1 20 3 2 1 1 1 1
Disturbances and/or threats (be specific, inclu f disturbance or percent cover of disturbance boden & Cover NNG + ero I. ASSOCIATED SPECIES ist dominant, subdominant and invasive spec pecies'=List all species (sci. name). Use * to indic olumn; if submitted to herbarium, note collection n ecces Bediaca ferentics Beinandra fariculata Bediaca ferentics Beinandra fariculata Biology processa Beinandra fariculata Biology processa Beinandra fariculata Biology for for use Contact Splendens Contact Spl	ide extent a if possible): ////////////////////////////////////	ecies observation area/management unit. s: 'Cover'= % cover of species; Note if collected by HM unless otherwise noted). Species Amaga //w arvensis Ecologica po Centqueea meticlessis Medica go polymorphic Crease Huxillensis Lepidium sp. Cuscuta oxidentalis Avena sp.	Cover Coll? Coll. Cover Coll? Coll. Cover Coll? Coll. Cover Coll? Cover Coll? Coll. Cover Coll? Coll. Cover Coll? Coll. Cover Coll? Coll. Cover Coll. Cover Coll? Coll. Cover Coll? Coll. Cover Coll? Coll. Coll. Coll. Cover Coll? Coll. Coll
I. ASSOCIATED SPECIES ist dominant, subdominant and invasive species bodien is cover NNG + end I. ASSOCIATED SPECIES ist dominant, subdominant and invasive species pecies'=List all species (sci. name). Use * to indice bolumn; if submitted to herbarium, note collection n ecies Beinandon fasciculata Beinandon fasciculata Beinandon fasciculata Beinandon fasciculata Beinandon fasciculata Biologia constantio Frigmung fasciculata Biologia fasciculat	Ide extent a if possible): fire m Scies in/near target sp cate non-native species umber (submit to SDN/ Cover Coll? Coll. # 1 12 1 2 1 3 1 1 2 1 2 1 2 1 2 1 2 1 2	eontinue to monitor + t as recessary eccess observation area/management unit. cover'= % cover of species; Note if collected by HM unless otherwise noted). Species Anaga llus arvensis Economic species Medica go polymorphie Centrure metificasis Medica go polymorphie Creasa Huxillensis Lepidium sp. Cuscuta occidentalis Avena sp. . 85 m 10 degrees up 133- Height Camera Angle Phot	Cover Coll.' Cover Coll? Coll.: S: \MSCP File location/s
I. ASSOCIATED SPECIES ist dominant, subdominant and invasive species'=List all species (sci. name). Use * to indice bolumn; if submitted to herbarium, note collection n acces Bediaca ferentics Beinandra fariculata Biology variegata Biology variegata Bi	ide extent a if possible): fium cles in/near target sp cate non-native species umber (submit to SDN/ Cover Coll? Coll. # 12 12 13 1 1 1 2 1 2 5 5 5 Cover S, SW, W	ecies observation area/management unit. :: 'Cover'= % cover of species; Note if collected by HM unless otherwise noted). Species Haaga live arvensis Ecologica polymorphic Candquea meliscasis Medica jo polymorphic Cuesa Hux illensis Lepidium sp. Cuecuta occidentalis Avena sp. .85 m 10 degrees up 133	Cover Coll.' Cover Coll? Coll.: S: \MSCP File location/s
I. ASSOCIATED SPECIES ist dominant, subdominant and invasive species bodien is cover NNG + error I. ASSOCIATED SPECIES ist dominant, subdominant and invasive species pecies'=List all species (sci. name). Use * to indice bolumn; if submitted to herbarium, note collection n acces Beinandra farasfris Beinandra farasf	Ide extent a if possible): I i i m Cies in/near target sp cate non-native species umber (submit to SDN/ Cover Coll? Coll. # 1 1 1 2 1 3 3 1 1 1 2 5 5 5 5 5 7, S, SW, W Direction (facing)	ecies observation area/management unit. s: 'Cover''= % cover of species; Note if collected by HM unless otherwise noted). Species Haaga //w arvensis Ecologica polymorpha Rendguea melificasis Medica jo polymorpha Canera Angle Photo Height Camera Angle Photo Height Photo Heigh	Cover Coll.'
isturbances and/or threats (be specific, inclu disturbance or percent cover of disturbance boden & Cover NNG + eros A ASSOCIATED SPECIES st dominant, subdominant and invasive spec becies'=List all species (sci. name). Use * to indic blumn; if submitted to herbarium, note collection n cies Sectiana fasticularia Beinandra fasticularia Beinandra fasticularia Beinandra fasticularia Beinandra fasticularia Biodicia fastastris Beinandra fasticularia Biodicia fastastris Biodicia fastastris Biodici fastastris Biodicia fastast	Ide extent a if possible): I i i m Cies in/near target sp cate non-native species umber (submit to SDN/ Cover Coll? Coll. # 1 1 1 2 1 3 3 1 1 1 2 5 5 5 5 5 7, S, SW, W Direction (facing)	ecies observation area/management unit. s: 'Cover''= % cover of species; Note if collected by HM unless otherwise noted). Species Haaga //w arvensis Ecologica polymorpha Rendguea melificasis Medica jo polymorpha Canera Angle Photo Height Camera Angle Photo Height Photo Heigh	Cover Coll.'

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

Continue on back if needed.

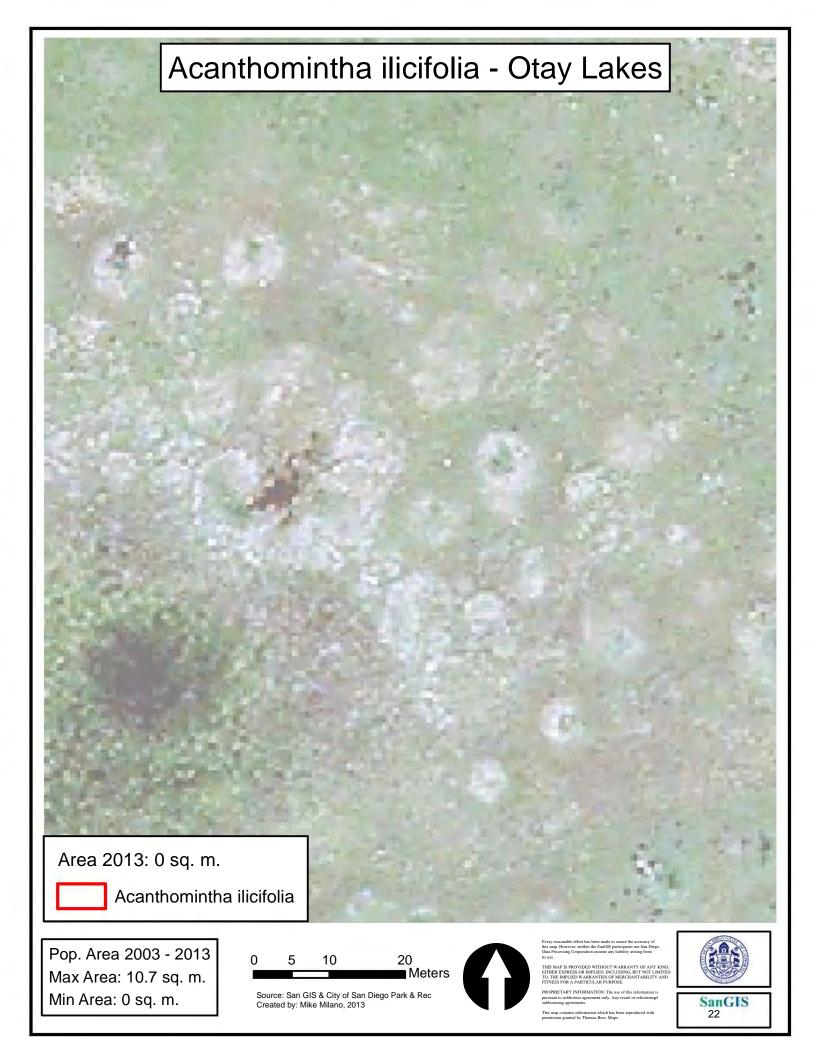
Very Good-Excellent	80-100% Native Flora Composition Vegetation Structure intact or nearly so Cover /abundance of weeds < 5% No or minimal signs of disturbance
Fair to Good	50-80% Native Flora Composition Vegetation structure modified or somewhat modified Cover/abundance of weeds 5-20% any number of 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
	1

\* Bomus madrifensis 550. mbens 5 \* Bromus hardeaceus 20 \* Festuca myuros \* Hordeum murinum Eryngium aristalatem 2 unk plant

## Acanthomintha ilicifolia (San Diego Thornmint) Otay Lakes



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.



Scientific Name: Acanthomintha	ilicifol	ia	Common Na	ame: San Dieg	o Thorn	mint		
Site Name: Penasquitos Canyon			Managemen	nt Unit #: TBA				
Date: 4/16/13			Managemen	nt Regime: TBA		-		-
Surveyors and Affiliation/Agency: Bety	Miller 1	Kin I	Raland. A	like Milano	-			
	. Jan Jr.		the second se	City of s	for Dieg	40		
Species Found? Yes No				00	/			
				eason known or suspect				
		Estimat		10, 100 and 1000 for es				
Population/Subpopulation Area: 36.83	5316 _	m2	Exac	t (based on GPS mapp	ing) 🗌 Es	stimate		
	1000	Unit	s de	1013 CPS data	-			
a second	Yes No	, 🗆	Collected Previou	isly				
If yes:Collector		С	ollection Number	Muse	um/Herbarium			
I. OBSERVATION AREA/MANAGEMEN		1. C. N. C.				-		
Accuracy of Coordinates/GPS Error: +/-	A Case of an Angle of Street Street Street Street	X mete						
Observation Location: 6276496.26			State of the second	X State Plane (feet)		4		
Observation Location,		/103	/0.00	A State Plane (reet)		P		_
II. GENERAL HABITAT DESCRIPTION	AND THREA	ATS AS	SESSMENT					
Vegetation Community: SALVIA ME				4				-
Landowner/Manager. dity of San	n Diego	Park	and Reci	reation	_			
Overall Site Quality** Very G	ood-Excellent		Fair to Go	a Poor	Ωv	ery Poo	r	
Surrounding land use:			/ _			100.00		
Disturbances and/or threats (be specific, inclu		11000		Recommendation/s:			_	
III. ASSOCIATED SPECIES List dominant, subdominant and invasive spec	cies in/near ta	1 T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ecies observatio		t unit.			
Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection n					llected by che	cking 'C	;oll.'	
Species	Cover Coll?		Species	ise holeu).		Cover	Coll?	Coll. #
Acanthomintha ilicitstia	1		Acmispor	alle		41		
Demandra fasiculato	30		Dichelest	Ama Capitate	im	1		
Salvia mellifera	5	-	Calystegia,	macrostegio		1		
Thus integritalia	3			in Simuldane		3		
Adolphia californica	5	7	Centaurea,	nautentus		3		
-Isocana menzisii	1	Y	Licochaer	c'i alika		1		
Erophythum confertifiorum	4		Peroractus	is glatra		41		
IV. SITE PHOTOMONITORING								
	10 W90							
	E,SE,S,S	SW	.85 m	Level	. 227-23	2 S:	MS	CP
Location [State Plane (ft)]	Direction (fa	_	Height	Camera Angle	Photo #		le locat	_
Location [State Plane (ft)]	Direction (fa	incing)	Height	Camera Angle	Photo #	Fil	e locat	lion/s
	Direction	dunig/	neight	Califiera Anglo.	T HOLD #	1.1.	e loca.	IOI II G
V. OTHER FIELD NOTES						-		
Other Field Notes/Comments:								-
							_	-

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

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

Species % cover Bloomeria crocea < 1 \* Erodium op. 2 \* Anagallus arvensis \* Brachypodium distachyon 40 \* Avena barbata 3 \* Logfia filaginoides \* Fistuca myuros 1 2 \* Brassica regra < | Stipa pulchan Rhamous aroua 21

## 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.

Scientific Name: Acanthomintha i	licifolia	Common Name: San Die	go Thornmint
Site Name: Penasquitos Canyon	A THE PARTY OF A THE TAXABLE AND A THE PARTY OF A TAXABLE AND A TAXABLE	Management Unit #: TBA	
Date: when he		Management Pegime: TRA	
Surveyors and Affiliation/Agency:	11.11.	" P.I. Mike	1'1
Surveyors and Annadon Agency.	forferer, A	in fociand, muke	lelano -
		City.	of Jan Diego
Species Found? Yes No			
/DE		If not, why (if reason known or susp	
		te (use orders of 10, 100 and 1000 for	estimates)
Population/Subpopulation Area: 7.891	577 m2	Exact (based on GPS ma	apping) 🗌 Estimate
	Ūni	ts 2013 OPS da	ta
	Yes No	Collected Previously	
If yes:Collector		Collection Number Mu	iseum/Herbarium
I. OBSERVATION AREA/MANAGEMEN	I The R. Law Provide State		seummeroanum
A residue of the second of the second s	And the second sec		
Accuracy of Coordinates/GPS Error: +/-			
Observation Location: 6276540.33	19184	63.76 X State Plane (feet	) Цитм
II. GENERAL HABITAT DESCRIPTION	AND THREATS A	SSESSMENT	
the start of the second ball and the second start a	MELLIFERA M		
		and Recreation	
•		/	
Overall Site Quality**	ood-Excellent	Fair to 600 Poor	Very Poor
Surrounding land use:	pace		
Disturbances and/or threats (be specific, inclu		Management Recommendation	
high cover NNE		theat NNE with when available	CBI methods
III. ASSOCIATED SPECIES			
			0.46 -6.4
List dominant, subdominant and invasive spec			A second s
Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection n	Charles and the second s	이번 이가 이 비슷했다. 이 가장 것은 것은 것은 것은 것이 가지 않는 것이 있는 것이 있는 것이 없는 것 않이	collected by checking 'Coll.'
Species	Cover Coll? Coll. #	Species	Cover Coll? Coll. #
	1		
Acarthomintha iligitatia	7	Chlorogalum parvifor Rhamnus croua	1402
Adolphia californica	10	Querus danosa	5
Salvia apiana	1	Herometes aroutifot	ia 20
Aria mellifera	15	Eriophyllum confertit	torum 2
Baccharis pilularis	1	Steph pulchra	3
Arknesia californica	1	Calipsegia macrosteg.	
Callium angustifo lium		Etioganum facicul	atum 4
IV. SITE PHOTOMONITORING	0		
Camera type: PENTAX OPTIO	and the set of the set		
6276540.33 19188463.76	SE,S,SW	.85 m 5 degrees d	own, 233-240 S:\MSCP
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)

\* Festuca myuns \* Filago gallice \* Bromus hordaceus \* Avena barbata

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

15

l

2

species

% cover

Comaderia terellus <1 Deinandra fasiculatum Calochortus splendens 20 Dichelostemma capitation Mirabilus sp. I Isocoma menziesii Anagallus arvensis ¥ \* Hypochausis glabra \* Centaurea melitensis 2 \* Lepidium sp. \* Brachypodium distachyon J 55 27

## 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.

Site Name: Penasquitos Can	a ilicifoli		Unit # TBA		iiiic
Date: 4/16/15	Terr care : II	and the second se	Regime: TBA		
	2. L. M. 1/2-		the second se		
Surveyors and Affiliation/Agency:	sersy minun,	m sociard, 1			_
			City of Sa	n Orego	
Species Found? Yes No		If not why lif roo	son known or suspect	od)2	
otal No. Individuals:85	Exact	Estimate (use orders of 10			
	198643				1.12
opulation/Subpopulation Area.	-10695	Units Lact	(based on GPS mapp	ing) 🗌 Esti	mate
Collection (if not collected previously)?	Yes No	Collected Previous	W.		
If yes:					
Collector		Collection Number	Muser	um/Herbarium	
OBSERVATION AREA/MANAGEM	MENT UNIT LOC	ATION			
Accuracy of Coordinates/GPS Error: +/	. <1 [	X meters 🗌 feet			
Observation Location: 6276371.0		18517.83 🕅	State Plane (feet)	UTM	
	Constant and a second second				
I. GENERAL HABITAT DESCRIPTI	ON AND THREA	TS ASSESSMENT	1	in the	
egetation Community:	CAUFORNICA-SAW	na Mellafela Munice	ARTEMESIA CAY	HORVILL-SAC	VIA MELLIFER
andowner/Manager: <u>City of</u>	San Diego	Párk and Recr	eation		ADSC
Overall Site Quality**	ery Good-Excellent	Fair to 600	Poor	Ve	ry Poor
urrounding land use:	Chane				
isturbances and/or threats (be specific,	·				
of disturbance or percent cover of disturb moderate/high cover of			recommendation/s: INE using vailable		methods
noderate/high cover of	1 NAVE	theat n when a	WE using railable	CB7 ,	methods
moderate/high cover of II. ASSOCIATED SPECIES ist dominant, subdominant and invasive species'=List all species (sci. name). Use * to	species in/near tar	theat n when a get species observation species; 'Cover'= % cover	WE woring vailable area/management of species; Note if co	CB7 1	
Moderate/high Cover of II. ASSOCIATED SPECIES ist dominant, subdominant and invasive species'=List all species (sci. name). Use * to olumn; if submitted to herbarium, note collect	species in/near tar b indicate non-native s tion number (submit to	theat n when a get species observation species; 'Cover'= % cover o SDNHM unless otherwise	WE woring vailable area/management of species; Note if co	CB7 1 t unit. llected by check	king 'Coll.'
I. ASSOCIATED SPECIES ist dominant, subdominant and invasive pecies'=List all species (sci. name). Use * to olumn; if submitted to herbarium, note collect acces	species in/near tar b indicate non-native s tion number (submit to Cover Coll?	get species observation species; 'Cover'= % cover o SDNHM unless otherwise Coll. # Species	WE woring vailable area/management of species; Note if co e noted).	CB7 1 t unit. llected by check	
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Continue on back if needed

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

<u>species</u> Chlorogalum parvißlorum Acmispon keermannii

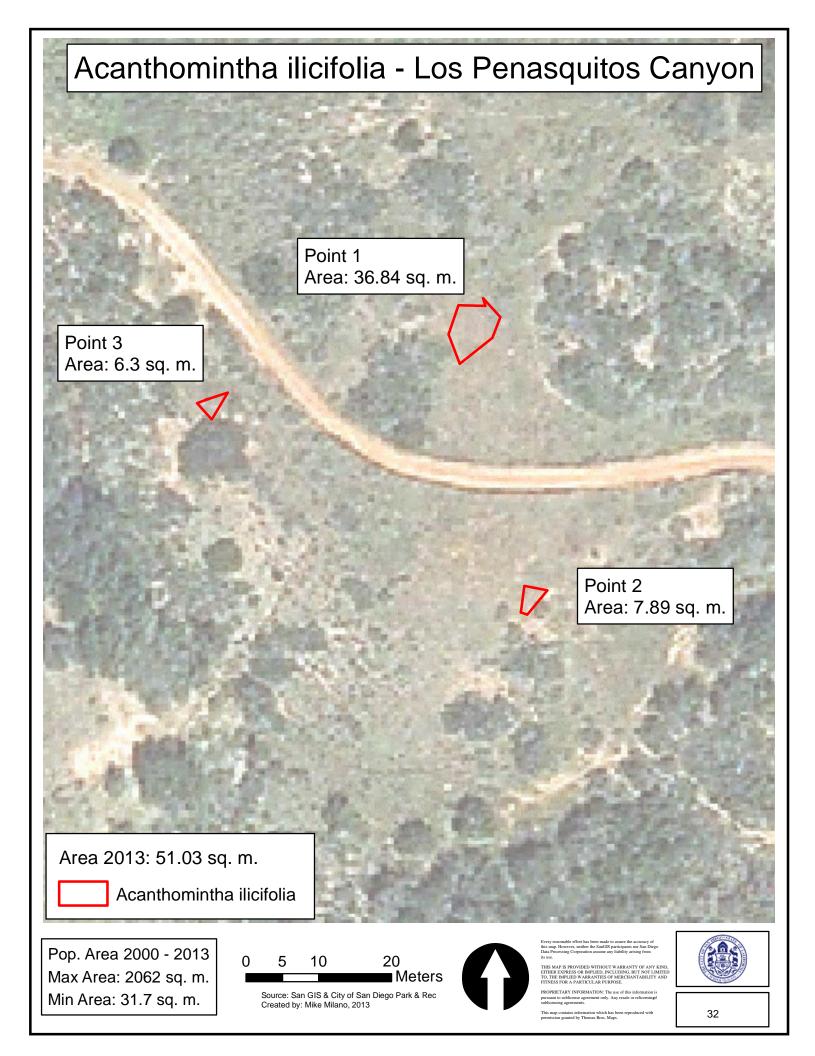
% cover

2 \* Featuca myuros \* Brachypodium distachyon \* Ariena barbata 5 60 ۲2 Anagallus arvensio Erodium p. 1 <1

## 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.



Surveyors and Affiliation/Agency:		im Raelan			
	grander, M	in spacian	City	of Son a	Diego
Species Found? Yes No				0	1
	1 _		f reason known or su		
Total No. Individuals: 6		nate (use orders of	10, 100 and 1000	for estimates)	
Population/Subpopulation Area: 6.3	9701 <u>m</u>	2. PEx	act (based on GPS	mapping)	Estimate
			2013 CPS do	cro-	
Collection (if not collected previously)? If yes:		Collected Previo	ously		
Collector		Collection Number	r	Museum/Herbariun	n
I. OBSERVATION AREA/MANAGEME	ENT UNIT LOCATIO	ON		Sectore -	1. TEN
Accuracy of Coordinates/GPS Error: +/-					
Observation Location: 6303277.45	1923	560.66	X State Plane (fe	eet) 🗌 UT	M
II. GENERAL HABITAT DESCRIPTIO	N AND THREATS	ASSESSMENT			
Vegetation Community: BACUMARIS P				ELBACEOUS	ASSOCIA
	San Diego Par				
	Good-Excellent	Dea to G		or $\Box$	Very Poor
	we was mersually in				
Surrounding land use:	and mile	1:1			
Surrounding land use: <u>open Sp</u> Disturbances and/or threats (be specific, in of disturbance or percent cover of disturban weeds have been control patch	nce if possible):	Managemer	nt Recommendati	/	
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Continue on back if needed.

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

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\* Bromus diandrus \* Brachypodium distachyon \* Feature myurus \* Focniculum vulgare \* Carduno pypnocephalus \* Melibrus indica

% cover

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5 15 </ </ </

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



Panorama from South edge of subpopulation, facing Northwest, North, Northeast, East. Panorama location is 6303390.7 1923506.3 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

Scientific Name: Acanthomintha	ilicifolia	Common Name	: San Diego	Thorn	nint
Site Name: Sabre Springs Wes	t Subpop #2	Management U			
Date: 4/11e/13		Management R	and the second s		
Surveyors and Affiliation/Agency:	Miller Kim	Roeland M.	te Milano		
	require, som		- Ci	to a de	an Diego
Species Found? Yes No				18	
			on known or suspected		Y
Total No. Individuals:8		te (use orders of 10, 1	00 and 1000 for estin	mates)	
Population/Subpopulation Area: 38.89	Ur	Exact (b	ased on GPS mapping	g) 🗌 Est	imate
If yes:		Collected Previously	_		
Collector		Collection Number	Museum	h/Herbarium	
I. OBSERVATION AREA/MANAGEME Accuracy of Coordinates/GPS Error: +/- Observation Location: 6303277.45	The second of the second state of the second state	ters 🗌 feet	State Plane (feet)	□ лтм	
II. GENERAL HABITAT DESCRIPTION Vegetation Community: Bachardes Landowner/Manager: City of S		E/ BAUHARIS		BACEOUS	Association
Overall Site Quality**	Good-Excellent	EarDto Good	Poor	🗌 Ve	ry Poor
Surrounding land use: Open Sp	race				
High Cover NNC high Cover NNC mustard currently Co. III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to inc column; if submitted to herbarium, note collection	ecies in/near target s licate non-native specie	Decies observation a s; 'Cover'= % cover of	species; Note if colle	ınit.	
Species	Cover Coll? Coll. #	Species			Cover Coll? Coll. #
Aconthomintha ilicitatea Adolphia californica	=	Sidalcea	carolinean	-	</td
Adolphia Californica Artemenia Californica	53	V Anneum	arrensis	um	M
Borharis pilularis	10	y Elephorbi			1
Baccharis pilularis Marah macroca pus	e1	* Reseda la	11 7		4/
-socoma menziesii	2	* Sonchus or			1
Quercus dumosa Convolvulus simulans	15	* Brugsica	rigra 1.		1
	0	mayphers	cretica		1
IV. SITE PHOTOMONITORING Camera type: PENTAX OPTID	W90		-		
	S,SW,W	50in Sl:	abel. dage	21/1 221	C. MCCD
<u>6303277.45</u> <u>1923560.66</u> Location [State Plane (ft)]	Direction (facing)		ightly down 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:	Ŧ				

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

Continue on back if needed.

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	

Species % cover + Erodium sp. 3 \* Lactuca seriola 21 \* Zumex arispus \* Mederago polymorpha 1 \* Avena barbata 3 Acmispon glaber + Bromus madritensis osp. rubens 2 \* Bromus diandous 1 \* Bomus hordeaceus 10 \* Brachypodium distachypon \* Featuca myuns 45

20

37

## Acanthomintha ilicifolia (San Diego Thornmint) Sabre Springs West Flat Subpopulation # 2



Panorama from Northwestern edge of subpopulation, facing South, Southwest, West. Panorama location is 6303277.454 1923560.662 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

Date:       Management Regime: TBA         Surveyors and Affiliation/Agency:       Bedry Meller, Kim Reland, Miller, Miller, Kim Reland, Miller, Miller, Chy of Cancellego         Species Found?       Yes       No         Industry       Industry (Ireason known or suspectabl?         Total No. Individuals:       45       Exact         Species Found?       Yes       No         Industry       Industry (Ireason known or suspectabl?)         Total No. Individuals:       45       Exact (Desed on Cosp mapping)         Species Found?       Yes       Yes         Opulation/Subpopulation Area:       1.635001       ##         Objection (If in to collected previously)?       Yes       Yes         If yes:       Collector       Collector Number       Museum/Herbarum         Observation Location:       6303376.7       1923491.2       State Plane (feet)       UTM         I. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT       Audowner/Manager:       City of San' Diego Park and Recreation       Durand         Deservation Location:       Galaction Autowice (Reverse science)       Wery Poor       Urey Poor         uardwmer/Manager:       City of San' Diego Park and Recreation       Durand       Durand Recreation         Distribances and/or threats (be specific, include extent)       <		ilicifolia	Common Name: San I	TWART WITH THE LIGHT CHARTER OF	
Surveyors and Attiliation/Agency: Body Miller, Kim Bodand, Miller, Millern- Chy of Canadicgo         Species Found?       Yes       No         Total No. Individuals:       #5       Exact   Estimate (use orders of 10, 100 and 1000 for estimates)         Orgunation/Subopulation Area:       21.(63500)       #7       Exact (based on 675 mapping)       Estimate         Collection (if not collected previously)?       Yes       Wo       Collector Reports       Museum/Harbanum         ObsERVATION AREAMANAGEMENT UNIT LOCATION       Museum/Harbanum       Museum/Harbanum         Oceservation Location:       6303376.7       1923491.2       State Plane (feet)       UTM         Observation Location:       6103376.7       1923491.2       State Plane (feet)       UTM         Observation Location:       6103376.7       1923491.2       Museum/Harbanum       Museum/Harbanum         Overage of Condinates/GPS Error:       142.400 Cod       Code Code Code       Over Code Code Code       Over Code Code Code       Over Code Code Code	and the second	n subpop #2	Management Unit #: TB	the second se	
Species Found?       Yes       No       If not, why (if reason known or suspected)?         Total No. Individuals:       YS       Exact       Estimate (use orders of 10, 100 and 1000 for estimates)         Population/Subpopulation Area:       Z		1 11.11	1	NUL BORD OF A DOLLAR DE DOLLAR	
Species Found?       Yes       No       Ind. why (if reason known or suspected)?         Total No. Individuals:       #5       Exact       Estimate (use orders of 10, 100 and 1000 for estimates)         Population/Subpopulation Area:       21.635.00       ##       Exact (based on GPS mapping)       Estimate         Collection (if not collected previously)?       Yes       Mo       Collector Number       Museum/Herbanum         Collection (if not collected previously)?       Yes       Mo       Collector Number       Museum/Herbanum         Collection (if not collected previously)?       Yes       Collecton Number       Museum/Herbanum         Collection (if not collected previously)?       Yes       Collecton Number       Museum/Herbanum         Collection Continuently:       Collecton Number       Museum/Herbanum       Collecton Number         I GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT       Poor       UTM         Regetation Community:       Quellus Augure / Quellus Durosta Augure / Quellus Durosta Misson of Suber aton and Refereation       Durosta Misson of Durosta Misson of Durosta Misson of Suber aton and the species infinear target species observation area/management unit.         Prevent Site Quality*       Very Good-Excellent       Management Recommendation/s:         Migh Ann - native graves cover       Management Recomer obseics. Note if collected by checking 'Coll'obinmm' submitted	Surveyors and Affiliation/Agency:	by Miller, K	in foeland, Mike.	Milano -	
Ind. why (if reason known or suspectad)?         Total No. Individuals:       #5         Oppulation/Subpopulation Area:       21,685.00         Deputation/Subpopulation Area:       21,685.00         Observation Location:       6303376.7       1923491.2       Elstate Plane (feet)         Depart of Sand Diego Park and Récreation       047.00         AdververManager:       City of Sand Diego Park and Récreation         Distributions and/or threats (be specific, include extent)       distrubance subjects:       Management Recommendation/s:         Histurbances and/or threats (be specific, include extent)       Management Recommendation/s:       Heat         Histurbances and/or threats (be specific, include extent)       Management Recommendation/s:				City of Sand	Blego
Total No. Individuals:       45       Exact Estimate (use orders of 10, 100 and 1000 for estimates)         Population/Subpopulation Area:       21.68500       102       Exact (based on GPS mapping)       Estimate         Collection (if not collected previously)?       Yes       Yes       Collecton Number       Museum/Herbanium         Collector       Collector Number       Museum/Herbanium       Museum/Herbanium         OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Collector Number       Museum/Herbanium         Collector       Collector Number       Museum/Herbanium         OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Collector Number       Museum/Herbanium         OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Collector Number       Museum/Herbanium         Observation Location:       6303376.7       1923491.2       Estate Plane (feet)       UTM         I GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT       Collector Plant And Récreation       Duron       Port         Very Good-Excellent       Øleather of Cold       Poro       Very Poor         Autor Unites       Opener, Industries       Management Recommendation/s:       Management unit         Height Ann -native grees       Collector Scorer % cover of species Note if collected by checking Coll       Management angement unit         Preforshild Annon -native greeses </td <td>Species Found? Yes No</td> <td></td> <td></td> <td>10</td> <td>/</td>	Species Found? Yes No			10	/
Population/Subpopulation Area:       21.65500       m²       Units       Exact (based on GPS mapping)       Estimate         Collection (if not collected previously)?       Yes:       Yes:       Collection Number       Museum/Herbarium         Collection (if not collected previously)?       Yes:       Collection Number       Museum/Herbarium         Collection (if not collected previously)?       Yes:       Collection Number       Museum/Herbarium         Collection (if not collected Previously       If yes:       Collection Number       Museum/Herbarium         Collection Containes/GPS Error:       +1.       <1			If not, why (if reason known or	suspected)?	
Units       20/8 ges dada         Collection (if not collected previously)       Yes       Collection Number         If yes:       Collector       Collection Number         Collection AREA/MANAGEMENT UNIT LOCATION       Collector Number       Museum/Herbarium         Costance of Coordinates/GPS Error:       +       <1	Total No. Individuals:45	Exact Estimal	te (use orders of 10, 100 and 100	0 for estimates)	
If yes:       Collector       Collector       Museum/Herbanum         OBSERVATION AREA/MANAGEMENT UNIT LOCATION	Population/Subpopulation Area: 21,6	<u>85001 m²</u> Uni	Exact (based on GPS	S mapping) 🗌 Est	timate
OBSERVATION AREA/MANAGEMENT UNIT LOCATION         Accuracy of Coordinates/GPS Error: +/- <1					_
Accuracy of Coordinates/GPS Error: +/- <1	Collector	C	collection Number	Museum/Herbarium	
Deservation Location:       6303376.7       1923491.2       Istate Plane (feet)       UTM         I. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT         Vegetation Community:       Quellus Durosa Alumnie Quellus Durosa Durosa Durosa Alumnie Quellus Durosa Duros Dur	. OBSERVATION AREA/MANAGEME	INT UNIT LOCATION	N		
1. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT         //egetation Community:       Quélous Durosa Alumvie/ Quélous Durosa Association         //egetation Community:       Quélous Durosa Alumvie/ Quélous Durosa Association         Durerall Site Quality**       Very Good-Excellent         Distribution       Image and the second of the second	Accuracy of Coordinates/GPS Error: +/-	<1 🕅 met	ers 🗌 feet		
1. GENERAL HABITAT DESCRIPTION AND THEATS ASSESSMENT         /egelation Community:       Quéleus Durosa Alumité (Quéleus Durosa Assessment)         /egelation Community:       Quéleus Durosa Alumité (Quéleus Durosa Assessment)         /egelation Community:       Quéleus Durosa Alumité (Quéleus Durosa Assessment)         /equelation Community:       Quéleus Durosa Alumité (Quéleus Durosa Assessment)         /equelation Community:       Very Good-Excellent       Distribution         //equelation Contraction       (Deron Cold)       Poor       Very Poor         //equelation Contraction       (Deron Cold)       Poor       Very Poor         //equelation Contraction       (Deron Cold)       Poor       Very Poor         //equelation       (Deron Cold)       Poor       Very Poor         //equelation       (Deron Cold)       Poor       (Deron Cold)         //equelation       (Deron Cold)       (Deron Cold)       Poor       (Deron Cold)         //equelation       (Deron Cold)       (Deron Cold)       (Deron Cold)       (Deron Cold)       (Deron Cold)         //equelation       (Deron Cold)       (Deron	Observation Location: 6303376.7	19234	91.2 X State Plane (	feet) DUTM	
Pregetation Community:       Quillus:       Durosa Attunwill Quillus:       Durosa Attunwill Quillus:         andowner/Manager:       City of Sar/Diego Park and Récreation         Dverall Site Quality*       Very Good-Excellent       Very Good       Poor       Very Poor         Durounding land use:       open space, inductrical       Management Recommendation/s:       Item of grantes and/or threats (be specific, include extent if disturbances and/or threats (be specific, include extent if disturbance or percent cover of disturbance if possible):       Management Recommendation/s:         Arge A non-native grant cover       Management Recommendation/s:       Item of grantes awing CBI much deling y when available         1.       ASSOCIATED SPECIES       Item of grantes awing Coll:       Item of grantes awing Coll:         Intervision in antervision on umber (statum)       Ites: 'to indicate non-native species: Cover 's cover of species: Note if collected by checking 'Coll:         Intervision in a species (sci. name).       Use 'to indicate non-native species: Cover of species: Note if collected by checking 'Coll:         Intervision in a species (sci. name).       Use 'to indicate non-native species: Cover of species.       Note of species.         Intervision in a species (sci. name).       Use 'to indicate non-native species: Cover of species.       Note of species.         Intervision in to SDNHW unless otherwise noted).       Ite of full mation is for species.       Cover Coll? Coll. #					
andowner/Manager:       City of San Diego Park and Récreation         Dverall Site Quality**       Very Good-Excellent       Define God       Poor       Very Poor         Surrounding land use:       Open cypace, industrial       Management Recommendation/s:       Item f grasses using CBI         Disturbances and/or threats (be specific, include extent       Management Recommendation/s:       Item f grasses using CBI         It disturbance or percent cover of disturbance if possible):       Management Recommendation/s:       Item f grasses using CBI         Might non -native grass cover       Management Recommendation/s:       Item f grasses using CBI         It. ASSOCIATED SPECIES       Management available         ist dominant, subdominant and invasive species in/near target species observation area/management unit.       pecies*_List all species (sci, name). Use * to indicate non-native species: Cover * % cover of species: Note if collected by checking 'Coll'         olumn: if submitted to herbarium, note collection number (submit to SDNHM unless otherwise noted).       Ecces         acces       Cover Coll? Coll # Species       Maria mages tribular         Access pairling area       1       Aprint mages tribular       1         Access pairling area       20       Skclup: bulled com of species: Note if collected by checking 'Coll'         Access area       1       Aprint mages tritelling       1         Accest	of the second	DC TOP B 2512	and a boundary of the state of		
andowner/Manager:       City of San Diego Park and Récreation         Dverall Site Quality**       Very Good-Excellent       Define God       Poor       Very Poor         Surrounding land use:       Open cypace, industrial       Management Recommendation/s:       Item f grasses using CBI         Disturbances and/or threats (be specific, include extent       Management Recommendation/s:       Item f grasses using CBI         It disturbance or percent cover of disturbance if possible):       Management Recommendation/s:       Item f grasses using CBI         Might non -native grass cover       Management Recommendation/s:       Item f grasses using CBI         It. ASSOCIATED SPECIES       Management available         ist dominant, subdominant and invasive species in/near target species observation area/management unit.       pecies*_List all species (sci, name). Use * to indicate non-native species: Cover * % cover of species: Note if collected by checking 'Coll'         olumn: if submitted to herbarium, note collection number (submit to SDNHM unless otherwise noted).       Ecces         acces       Cover Coll? Coll # Species       Maria mages tribular         Access pairling area       1       Aprint mages tribular       1         Access pairling area       20       Skclup: bulled com of species: Note if collected by checking 'Coll'         Access area       1       Aprint mages tritelling       1         Accest	regetation Community: Quellers Dur	USA ALLANCE/Q	VEREUS DUMOSA ASSOC	ARTION	
Surrounding land use: <u>open space</u> , industriel Disturbances and/or threats (be specific, include extent if disturbance or percent cover of disturbance if possible): high non-native grass cover high non-native grass cover high non-native grass cover Hent grasses using CBI much-dal-gy when available It ASSOCIATED SPECIES ist dominant and invasive species in/near target species observation area/management unit. pecies-List all species (sci. name). Use "to indicate non-native species: Cover's % cover of species: Note if collected by checking 'Coll." olumn; if submitted to herbarium, note collection number (submit to SDNHM unless otherwise noted). actes Cover Coll? Coll. # Species Cover Coll? Coll. # Cover Co	andowner/Manager: <u>City of S</u>	an Diego Parl	and Récreation		
Surrounding land use: <u>open space</u> , industriel Disturbances and/or threats (be specific, include extent if disturbance or percent cover of disturbance if possible): high non-native grass cover high non-native grass cover high non-native grass cover Hent grasses using CBI much-dal-gy when available It ASSOCIATED SPECIES ist dominant and invasive species in/near target species observation area/management unit. pecies-List all species (sci. name). Use "to indicate non-native species: Cover's % cover of species: Note if collected by checking 'Coll." olumn; if submitted to herbarium, note collection number (submit to SDNHM unless otherwise noted). actes Cover Coll? Coll. # Species Cover Coll? Coll. # Cover Co		Good-Excellent	Depart D		Poor
Disturbances and/or threats (be specific, include extent if disturbance or percent cover of disturbance if possible): high non-native grass cover is dominant, subdominant and invasive species in/near target species observation area/management unit. pecies=List all species (sci. name). Use * to indicate non-native species: Cover's % cover of species. Note if collected by checking 'Coll.' obum; if submitted to herbarium, note collection number (submit to SDNHM unless otherwise noted). actes Cover Coll? Coll. # Species Cover's % cover of species. Note if collected by checking 'Coll.' definition of herbarium, note collection number (submit to SDNHM unless otherwise noted). actes Cover Coll? Coll. # Species Cover's % cover of species. Note if collected by checking 'Coll.' definition of herbarium, note collection number (submit to SDNHM unless otherwise noted). actes Cover Coll? Coll. # Species Cover's % cover of species. Note if collected by checking 'Coll.' definition of herbarium, note collection number (submit to SDNHM unless otherwise noted). actes Cover Coll? Coll. # Species Cover's % cover of species. Note if collected by checking 'Coll.' definition of herbarium, note collection number (submit to SDNHM unless otherwise noted). actes for particular is for the species of the s		. /	0		
if disturbance or percent cover of disturbance if possible): high non-native grass cover then t grasses using CBI multi-dilegy when available 1. ASSOCIATED SPECIES ist dominant, subdominant and invasive species in/near target species observation area/management unit. pecies'=List all species (sci. name). Use * to indicate non-native species: Cover'= % cover of species: Note if collected by checking 'Coll: pecies'=List all species (sci. name). Use * to indicate non-native species: Cover'= % cover of species: Note if collected by checking 'Coll: pecies'=List all species (sci. name). Use * to indicate non-native species: Cover'= % cover of species: Note if collected by checking 'Coll: pecies'=List all species (sci. name). Use * to indicate non-native species: Cover'= % cover of species: Note if collected by checking 'Coll: pecies'=List all species (sci. name). Use * to indicate non-native species: Cover'= % cover of species: Note if collected by checking 'Coll: pecies'=List all species (sci. name). Use * to indicate non-native species: Cover'= % cover of species: Note if collected by checking 'Coll: pecies'=List all species (sci. name). Use * to indicate non-native species: Cover'= % cover of species: Note if collected by checking 'Coll: pecies'=List all species (sci. name). Use * to indicate non-native species: Cover'= % cover of species: Note if collected by checking 'Coll: # Acception: The indicate non-native species: Cover'= % cover of species: Note if collected by checking 'Coll: # Pecies a merge is cover coll? Coll: # Pecies a dum sea Pecies a dum se	Surrounding land use: open spe	ice, industrie	il		
ist dominant, subdominant and invasive species in/near target species observation area/management unit. pecies*List all species (sci. name). Use * to indicate non-native species; 'Cover' = % cover of species; Note if collected by checking 'Coll' olumn; if submitted to herbarium, note collection number (submit to SDNHM unless otherwise noted). ecies Cover Coll? Coll. # Species Cover Coll? Coll. # Areafhomintha if cifelca 1 Apiastrum arguestite/ium 1 Hoto/palea Calle fornesa 5 Anach machecaragus 4/ Quercus dumosa 20 Stacky: bullata 1 Becina mergesesiei 1 Convervent of the file of th			11	. 007	1 0 1
ist dominant, subdominant and invasive species in/near target species observation area/management unit. pecies*List all species (sci. name). Use * to indicate non-native species; 'Cover' = % cover of species; Note if collected by checking 'Coll' olumn; if submitted to herbarium, note collection number (submit to SDNHM unless otherwise noted). ecies Cover Coll? Coll. # Species Cover Coll? Coll. # Areafhomintha if cifelca 1 Apiastrum arguestite/ium 1 Hoto/palea Calle fornesa 5 Anach machecaragus 4/ Quercus dumosa 20 Stacky: bullata 1 Becina mergesesiei 1 Convervent of the file of th			treat grasses a methodology wh	ing CBI	hle
pecies'=List all species (sci. name). Use * to indicate non-native species; 'Cover' = % cover of species; Note if collected by checking 'Coll.' olumn; if submitted to herbarium, note collection number (submit to SDNHM unless otherwise noted). ecies Cover Coll? Coll. # Species Cover Coll? Coll. # Areaffhoministha ilicificita 1 Apiastram arguestificita 1 Areaffhoministha ilicificita 5 Areaffhoministha ilicificita 1 Areaffhoministha ilicificita 1 Areaffhoministica 20 Stacky: bullato 1 Beinaadra faocifulata 1 Beinaadra faocifulata 1 Areaffaorina capita tum 41 Areafflor areafficita 1 Areafflor areafficita 3 Stackos conditions 3	high non-native grass		treat grasses a methodology wh	ioing CBI	hle
olumn; if submitted to herbarium, note collection number (submit to SDNHM unless otherwise noted).       Cover Coll? Coll. # Species       Cover Coll? Coll. #         ecies       Cover Coll? Coll. # Species       Cover Coll? Coll. #       Apriastrum argue titolium 1         Idol phia Calle fornies       1       Apriastrum argue titolium 1         Idol phia Calle fornies       5       March mach argue titolium 1         Quercus dumosa       20       Stachy: bullata       1         Baccharis pliularies       1       Rhub integrifolia       1         Baccharis pliularies       1       Cover coll? Coll. #       1         Baccharis pliularies       1       Rhub integrifolia       1         Bacina dragitation       1       Convolvulus cimulant       1         Bacina dragitation       1       Techna microstackys       1         Bacina dragitation       1       Februa microstackys       3         Calcoscordion venceasum       1       Februa aspect       1         Alicoloscordion venceasum       1       Konhus as	high non-native grass	cover	1	and service a	hle
Agenthumintha ilicitatica       1       Apiastrum angustitation       1         Adalphia Californica       5       Manh machcarpus       41         Quercus dumosa       20       Stachy: bullato       1         Sucher is pilularis       1       Rhub Integritation       1         Baccher is pilularis       1       Consolentiation       1         Beinaadra fascilulation       1       Technica microstachys       1         Deinaadra fascilulation       1       Technica microstachys       1         Beinaadra fascilulation       1       Technica microstachys       1         Sitelastemak capitatum       1       Technica anticrostachys       1         Sitelastemak capitatum       1       Technica microstachys       1         Sitelastemak capitatum       1       Technica anticrostachys       1         Sitelastemak capitatum       1       Technica anticrostachys       1         Attractions constrained       1       Technica anticrostachys       1         Attraction (State Plane (ft)]       NW, N, NE, E       45 in       5 degrees down 1 20 m 2 S: \MSCP         Location (State Plane (ft)]       Direction (facing)       Height       Camera Angle       Photo #         Location (State Plane (ft)]	high non-native grass II. ASSOCIATED SPECIES ist dominant, subdominant and invasive sp	CoVer	ecies observation area/manag	ement unit.	
Operative dumosa       20       Stachy: bullata       1         Baccharis pilularis       1       Rhuls Integrifica       1         Bo corna       nensiessiii       1       Convolvulue cimulans       1         Beinandra fasciiulata       1       Testuca microstachys       1         Beinandra fasciiulata       1       Testuca microstachys       1         Bithelostemak aupitatum       41       X Angsaltur miensis       3         Bithelostemak aupitatum       9       9       25: \MSCP <tr< th=""><th>high non-native grass II. ASSOCIATED SPECIES ist dominant, subdominant and invasive sp species'=List all species (sci. name). Use * to inc</th><th>CoV Cr ecies in/near target sp dicate non-native species</th><th>ecies observation area/manag ; 'Cover''= % cover of species; No</th><th>ement unit.</th><th></th></tr<>	high non-native grass II. ASSOCIATED SPECIES ist dominant, subdominant and invasive sp species'=List all species (sci. name). Use * to inc	CoV Cr ecies in/near target sp dicate non-native species	ecies observation area/manag ; 'Cover''= % cover of species; No	ement unit.	
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Operative dumosa       20       Stachy: bullata       1         Baccharis pilularis       1       Rhuls Integrifica       1         Bo corna       nensiesciii       1       Convolvulus cimulans       1         Deinandra fassiiulata       1       Testuca microstachys       1         Deinandra fassiiulata       1       Testuca microstachys       1         Difelostemak capitatum       41       X Angsaltur miensis       3         Oxicoscordion veninger       1       X Sinchus asper       1         A. SITE PHOTOMONITORING       1       X Sinchus asper       1         6303376.7       1923491.2       NW, N, NE, E       45in       5       degrees down 200 m 25: \MSCP         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         OTHER FIELD NOTES       0       1       Direction (facing)       Height       Camera Angle       Photo #       File location/s	high non -native grass I. ASSOCIATED SPECIES ist dominant, subdominant and invasive sp pecies'=List all species (sci. name). Use * to indo plumm; if submitted to herbarium, note collection accies	CoV Cr ecies in/near target sp dicate non-native species number (submit to SDNF	ecies observation area/manag : 'Cover''= % cover of species; No :M unless otherwise noted). Species	ement unit. te if collected by chec	king 'Coll.'
Bo coma       Mensionsi       1       Convolvulus comulans       1         Definandra fascinulate       1       Februca microvtackys       1         Difelastemal capitatum       1       Februca microvtackys       1         Difelastemal capitatum       1       Kanchus asper       1         Accoscordion venceasum       1       Kanchus asper       1         A. SITE PHOTOMONITORING       3       3         amera type:       FENTAX       OPTIO       90         6303376.7       1923491.2       NW, N, NE, E       45in       5       degrees down c 10 <sup>-1</sup> July 2S: \MSCP         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         Cother FIELD NOTES       5       Comera Angle       Photo #       File location/s	high non -native grass II. ASSOCIATED SPECIES ist dominant, subdominant and invasive sp species'=List all species (sci. name). Use * to ind olumn; if submitted to herbarium, note collection ecies	CoV Cr ecies in/near target sp dicate non-native species number (submit to SDNH Cover Coll? Coll. #	ecies observation area/manag : 'Cover''= % cover of species; No :M unless otherwise noted). Species	ement unit. te if collected by chec	king 'Coll.' Cover Coll? Coll.#
Deinandra fascifulate       1       Festuca microstackys       1         Dickelastemak appitatum       21       X thagather memois       3         Dickelastemak appitatum       21       X thagather memois       3         Dickelastemak appitatum       1       X thagather memois       3         Dickelastemak appitatum       1       X thagather memois       3         Dickelastemak appitatum       1       X thagather memois       3         Dickelastemak apper       1       1       1       1         ASTE PHOTOMONITORING       3       3       3       3         amera type:       FENTAX       OPTIO       90       412         6303376.7       1923491.2       NW, N, NE, E       45in       5       degrees down c 300 m c 300 m c 200	high non -native grass II. ASSOCIATED SPECIES ist dominant, subdominant and invasive sp species'=List all species (sci. name). Use * to inc olumn; if submitted to herbarium, note collection eccies Acarthomintha ilici folica Acarthomintha ilici folica	Cover Coll? Coll. #	ecies observation area/manag : 'Cover'= % cover of species; No M unless otherwise noted). Species Apiastrum argus tit Marah machicarpus	ement unit. te if collected by chec	king 'Coll.' Cover Coll? Coll.#
Bickelookanak aupita kum            3         Oxicoscordion venenatum       /           3         // SITE PHOTOMONITORING       //           1         // SITE PHOTOMONITORING       //            1         amera type:       PENTAX       OPTIO	high non -native grass II. ASSOCIATED SPECIES ist dominant, subdominant and invasive sp species'=List all species (sci. name). Use * to ind olumn; if submitted to herbarium, note collection eccies Acarthomintha ilicificia Adolphia cale formica Quercus dumosa	Cover Coll? Coll. #	ecies observation area/manag : 'Cover'= % cover of species; No M unless otherwise noted). Species Apiastrum argus tit Marah machicarpus	ement unit. te if collected by chec	king 'Coll.' Cover Coll? Coll.#
Exicascordion vencnasum       /       X Sanchus asper       /         /. SITE PHOTOMONITORING       amera type:       PENTAX       OPTIO       413         amera type:       PENTAX       OPTIO       45in       5       degrees       down e 210-200 z S: \MSCP         6303376.7       1923491.2       NW, N, NE, E       45in       5       degrees       down e 210-200 z S: \MSCP         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         Cother Field NOTES       Example       Direction (facing)       Height       Camera Angle       Photo #       File location/s	high non -native grass II. ASSOCIATED SPECIES ist dominant, subdominant and invasive sp species'=List all species (sci. name). Use * to ind olumn; if submitted to herbarium, note collection eccies Acarthomintha ilicificia Adolphia cale formica Quercus dumosa	Cover Coll? Coll. #	ecies observation area/manag "Cover"= % cover of species; No M unless otherwise noted). Species Apiastrum argustit Marah machecaraus Stachy: bullato Bhuls integrifolia	ement unit. te if collected by chec Blicem	king 'Coll.' Cover Coll? Coll.#
/. SITE PHOTOMONITORING         amera type:       PENTAX       OPTIO       90       413         6303376.7       1923491.2       NW, N, NE, E       45in       5       degrees       down & 10° Mag       2 S: \MSCP         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         Comber FileD NOTES       OTHER FIELD NOTES       File location/s       File location/s       File location/s	high non -native grass I. ASSOCIATED SPECIES ist dominant, subdominant and invasive sp pecies'=List all species (sci. name). Use * to indo olumn; if submitted to herbarium, note collection accies Acapthomistha ilicifslica Adolphia cale fornica Quercus dumosa Baccharis pilularis Bo coma megaiesei	cover dicate non-native species number (submit to SDNF Cover Coll? Coll. # 1 5 20 1 1 1 1	ecies observation area/manage "Cover"= % cover of species; No Munless otherwise noted). Species Apriastrum angus tit Marah machecaraus Stachy: bullato Rhub integrifolia Convolvulus cimulant Fechuca microstachy	ement unit. te if collected by chec Blicem	king 'Coll.' Cover Coll? Coll.# / <br / /
Amera type:       PENTAX       OPTIO       W90       H2         6303376.7       1923491.2       NW, N, NE, E       45in       5       degrees down e H2       25: \MSCP         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         OTHER FIELD NOTES       OTHER S       Image: State Plane (ft)	Legh non -native grass 1. ASSOCIATED SPECIES ist dominant, subdominant and invasive sp pecies'=List all species (sci. name). Use * to inc olumn; if submitted to herbarium, note collection acies Acapthomintha ilicificita Acapthomintha ilicifica Acapthomintha ilici	cover dicate non-native species number (submit to SDNF Cover Coll? Coll. # 1 5 20 1 1 1 4	ecies observation area/manage "Cover"= % cover of species; No M unless otherwise noted). Species Apiastrum argus tit Maah machcaraus Stachy: bullato Rhub integrifolia Convolvulus cimulant Festuca microstachy Magalho avenuis	ement unit. te if collected by chec Blicem	king 'Coll.' Cover Coll? Coll. # / <br / /
6303376.7       1923491.2       NW, N, NE, E       45in       5       degrees down e 200 m z 300 m z 200 m z 300 m	Legh non -native grass I. ASSOCIATED SPECIES ist dominant, subdominant and invasive sp poecies'=List all species (sci. name). Use * to indo blumn; if submitted to herbarium, note collection access Acapthomintha ilicifslica Hob phia cale formica Description dumosa Baccharis pilularis Bocorna negesessi Deinandra fasciculata Dichelasteman capitatum scicoscordion venenasum	cover dicate non-native species number (submit to SDNF Cover Coll? Coll. # 1 5 20 1 1 1 4	ecies observation area/manage "Cover"= % cover of species; No M unless otherwise noted). Species Apiastrum argus tit Maah machcaraus Stachy: bullato Rhub integrifolia Convolvulus cimulant Festuca microstachy Magalho avenuis	ement unit. te if collected by chec Blicem	king 'Coll.' Cover Coll? Coll. # / <br / / /
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         . OTHER FIELD NOTES	Ligh non -native grass 1. ASSOCIATED SPECIES ist dominant, subdominant and invasive sp pecies'=List all species (sci. name). Use * to inc olumn; if submitted to herbarium, note collection acies Acarthomintha ilicitation Acarthomintha ilicitation Acarthomin	cover ecies in/near target sp dicate non-native species number (submit to SDNH Cover Coll? Coll. # 1 5 20 1 1 1 1 1 1 1 1	ecies observation area/manage "Cover"= % cover of species; No M unless otherwise noted). Species Apiastrum argus tit Maah machcaraus Stachy: bullato Rhub integrifolia Convolvulus cimulant Festuca microstachy Maggalho avenuis	ement unit. te if collected by chec Blicem	king 'Coll.' Cover Coll? Coll. # / <br / /
Location [State Plane (ft)] Direction (facing) Height Camera Angle Photo # File location/s . OTHER FIELD NOTES	high non-native grass II. ASSOCIATED SPECIES ist dominant, subdominant and invasive sp pecies'=List all species (sci. name). Use * to inc olumn; if submitted to herbarium, note collection ecies Acarthomintha ilicifelica Acarthomintha ilicifelica Acarthomin	cover dicate non-native species number (submit to SDNH Cover Coll? Coll. # 1 5 20 1 1 1 4 X YOO	ecies observation area/manage 'Cover'= % cover of species; No Munless otherwise noted). Species Apiastrum argustit Marah machecarous Stachy: bullato Rhub integrifolia Convolvulus cimulant Festuca microstachy Anagather avenais Sanchus asper	ement unit. te if collected by chec Blicem	king 'Coll.' Cover Coll? Coll.# / / / / / /
OTHER FIELD NOTES	high non-native grass II. ASSOCIATED SPECIES ist dominant, subdominant and invasive sp pecies'=List all species (sci. name). Use * to indo olumn; if submitted to herbarium, note collection ecies Acanthomintha ilicificia Acanthomintha ilicificia	cover dicate non-native species number (submit to SDNH Cover Coll? Coll. # 1 5 20 1 1 1 4 X YOO	ecies observation area/manage 'Cover'= % cover of species; No Munless otherwise noted). Species Apiastrum argustit Marah machecarous Stachy: bullato Rhub integrifolia Convolvulus cimulant Festuca microstachy Anagather avenais Sanchus asper	ement unit. te if collected by chec Blicen 's 's down 2 210-200	king 'Coll.' Cover Coll? Coll.# / / / / / /
OTHER FIELD NOTES	high non-native grass II. ASSOCIATED SPECIES ist dominant, subdominant and invasive sp species'=List all species (sci. name). Use * to inc olumn; if submitted to herbarium, note collection ecies Aganthomintha ilicifshia dolphia cale fornica Quescus dumosa Bacharis pilularis Bo coma negelesei Deinandra fasciculata Difelostemak capitatum oxicoscordion venenasum V. SITE PHOTOMONITORING samera type: <u>PENTAX OPTIO</u> 6303376.7 1923491.2	cover ecies in/near target sp dicate non-native species number (submit to SDNF Cover Coll? Coll. # 1 5 20 1 1 1 4 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 1 5 20 1 1 1 1 5 20 1 1 1 1 5 20 1 1 1 1 5 20 1 1 1 1 1 1 1 1 1 1 1 1 1	ecies observation area/manage "Cover"= % cover of species; No Munless otherwise noted). Species Apriastrum argustit Marah machecaraus Stachy: bullata Rhub integrifolia Convolvulus comulant Feduca microstachy Mazather avenus Sachus asper 45in 5 degrees	ement unit. te if collected by chec Blicen 's 's down_c 210-200	king 'Coll.' Cover Coll? Coll. # / / / / / / / / / / / / /
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ther Field Notes/Comments:	high non-native grass II. ASSOCIATED SPECIES ist dominant, subdominant and invasive sp species'=List all species (sci. name). Use * to inco olumn; if submitted to herbarium, note collection ecies Acarthomintha ilicificia Adolphia callefornica Quescua dumosa Baccharis pilularis Bocoma negziesei Deinardon fasciculata Dickelastama aspitatum exicoscordion venenoscum V. SITE PHOTOMONITORING samera type: <u>PENTAX OPTIO</u> 6303376.7 1923491.2 Location [State Plane (ft)]	cover ecies in/near target spi dicate non-native species number (submit to SDNF Cover Coll? Coll. # 1 5 20 1 1 4 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 1 5 20 1 1 1 1 5 20 1 1 1 1 1 1 1 1 1 1 1 1 1	ecies observation area/manag "Cover"= % cover of species; No Munless otherwise noted). Species Apiastrum angus tit Marah machicarpus Stachy: bullata Rhub integrifelta Convolventus comulant Festuca microstacky Anagather avenaio Sanchus asper <u>45in</u> 5 degrees Height Camera Ang	ement unit. te if collected by chec Blicem 	king 'Coll.' Cover Coll? Coll. # / / / / / 2 S:\MSCP File location/s
	high non -native grass         1. ASSOCIATED SPECIES         ist dominant, subdominant and invasive sp         pecies'=List all species (sci. name). Use * to incolumn; if submitted to herbarium, note collection         ecies         Acanthomintha ilicifica         Beina adma capita tum	cover ecies in/near target spi dicate non-native species number (submit to SDNF Cover Coll? Coll. # 1 5 20 1 1 4 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 5 20 1 1 1 5 20 1 1 1 1 5 20 1 1 1 1 1 1 1 1 1 1 1 1 1	ecies observation area/manag "Cover"= % cover of species; No Munless otherwise noted). Species Apiastrum angus tit Marah machicarpus Stachy: bullata Rhub integrifelta Convolventus comulant Festuca microstacky Anagather avenaio Sanchus asper <u>45in</u> 5 degrees Height Camera Ang	ement unit. te if collected by chec Blicem 	king 'Coll.' Cover Coll? Coll. # / / / / / / / / / / / / /

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

Continue on back if needed.

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

Juciis \* Picris echisdes \* Avena barbata \* Brachypodium dichachyon \* Bomus madrikensis sop. rehens \* Featuca myuros

Eriophyllum confertiflorum

\* Brassica nigra \* Reseda Inteola

% cover

15

170

## Acanthomintha ilicifolia (San Diego Thornmint) Sabre Springs Southern Subpopulation # 3



Panorama from Southwestern edge of subpopulation, facing Southeast, South, Southwest. Panorama location is 6303165.7 1923485.4 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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*Acmispon prostratus* Nuttall's Lotus



© City of San Diego, 2001

Scientific Name:	Acmispon prostratus	Common Name:	Nuttall's Acmispon
Site Name:	Mission Bay- Dune Triangle	Management Unit #:	TBD
Date: 5/24/13	Mission Bay Barto Hiangio	Management Regime	1
Surveyors and Affiliation	n/Agency: Betsy Miller.	Kim Rocland, M	ila Milano,
Knistina Cany,	Kathenine Santos.	- city of San Dies	90
Species Found?	es 🖾No	J U	
Total No. Individuals:	KExact	If not, why (if reason known Estimate (use orders of 10, 100 and	
Population/Subpopulation	Area: NA -	NA Exact (based on Units	n GPS mapping) 🗌 Estimate
Collection (if not collected If yes:	previously)? Yes And	Collected Previously	
	Collector	Collection Number	Museum/Herbarium
I. OBSERVATION ARE	A/MANAGEMENT UNIT LOC	CATION	
Accuracy of Coordinates/0	GPS Error: +/- <1	🗹 meters 🗌 feet	
Observation Location:	6266528.388 1858	8616.164 🕢 State Pla	ane (feet) 🗌 UTM

Collection (if not collected previously)?	Yes ANO Collect	ted Previously	
Collector	Collectio	n Number Muser	um/Herbarium
I. OBSERVATION AREA/MANAGEMEN	FUNIT LOCATION		
Accuracy of Coordinates/GPS Error: +/-	<1 🗸 meters	🗌 feet	
Observation Location: 6266528.388	1858616.164	State Plane (feet)	Ш ИТМ
II. GENERAL HABITAT DESCRIPTION A	AND THREATS ASSES	SMENT	1
Vegetation Community: ISOCOMA MENZI	ESI ALLANCE/ 150CO	MA MENZIESII PROV	Slaver MUMIE
	Park and Recreation		
Overall Site Quality**	ood-Excellent	Fair to Good	Very Poor
Surrounding land use: Open space	River channel	; transportation	n
Disturbances and/or threats (be specific, inclu of disturbance or percent cover of disturbance		nagement Recommendation/s:	
Moderate cover chrysant	C. Alger Street St	one	
		100	

#### **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. #
Enogonum fasciculatum	5			*Melil	otus sp.		25		
Isocoma menziesii	20				AL.				-
Encelia californica	25								
Artemisia californica	5	1							
Bacchan's sarothroides	2	1.0						-	1
Glebionis comania	5							1	
Lepidium sp.	20								-
4 eliohopium rurassavicum	1	-	1	1				1.1	
IV. SITE PHOTOMONITORING									
Camera type: PENTAX OPTIO USO									
6266528.388 1858616.164	NE.	E, SE	S, SW	1.1 m	10-15* down	556-563	I SI	OS/MS	SCP
Location [State Plane (ft)]		_	(facing)	Height	Camera Angle	Photo #		le locat	
Location [State Plane (ft)]	Dire	ction (	(facing)	Height	Camera Angle	Photo #	Fil	le locat	tion/s
V. OTHER FIELD NOTES									
Other Field Notes/Comments:									

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

### Acmispon prostratus (Nuttall's Acmispon) Mission Bay – Dune Triangle



Panorama from the Southern edge of population, facing Northeast, East, Southeast, South, Southwest. Panorama location is 6266528.38 1858616.164 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Multiple Species Cons	servation Program (M	<b>MSCP)</b> Rare Plant	Field Survey Form
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Scientific Name: Acmispon prostr	atus	Common Na	me: Nuttal	I's Acmispon	
Site Name: Mission Bay #2 H	lospitality Pt	Management	Unit #: TBD		
Date: 5/24/13		Managemen	t Regime: TBD		
Surveyors and Affiliation/Agency: Betsu	Miller. Kin	n Rocland	d Mila M	ilano, Fi	nistina
cary, Kathenine Sant	os - citya	of San D	iego		
Species Found? Yes No			0	1.1.5	
Total No. Individuals: 294	Exact Estima	and the second	eason known or suspec	and the second se	
			0, 100 and 1000 for e		2 B C C C
Population/Subpopulation Area: 27(2.	Uni	ts 201	t (based on GPS map) 3 GIS DAta		nate
Collection (if not collected previously)?		Collected Previou	S	eum/Herbarium	-
1. OBSERVATION AREA/MANAGEMEN			Inde	ann for banding	
Accuracy of Coordinates/GPS Error: +/-	<1  mel	-			
Observation Location: 6256896.06	1857539.6	1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	State Plane (feet)	□ итм	
		100000000			
II. GENERAL HABITAT DESCRIPTION	AND THREATS A	A REAL PROPERTY OF A REAL PROPER	Immer	100 m	wa who we
	Park and Recreation			MALITME A	SociATION
			d Poor	Very	Dates
and the state of the	ood-Excellent	Fair to Goo	d Garoor		POOF
Surrounding land use: <u>Active Verse</u>	ation loper	wath			
(Chrysanthemum)	s ana pres	Cordinue pe	uaing	_	
III. ASSOCIATED SPECIES					
List dominant, subdominant and invasive spe Species'=List all species (sci. name). Use * to indi column; if submitted to herbarium, note collection n	cate non-native specie.	s; 'Cover"= % cove	er of species; Note if c		ing 'Coll.'
Species	Cover Coll? Coll. #	Species		C	over Coll? Coll. #
Armispon prostratus	5	* Hedypon	ois cretila	2	1
camissoniopsis cheiranthito		* Melilo	tus sp.		1
Heterotheca granditiona Wushingtonia Sp.	2	+ sonchu	s diandru. s aspen	5 2	
Eriogonum fasciculatum	I		parvitiora	ĺ.	1
Isocoma menziesii	1	* Medici	ago polym	orpha 1	0
* Glebionis commania	20		a chamisso aeris tlabr		
* Avena sp. IV. SITE PHOTOMONITORING	1-	- nypoun	JUNS JIUBE	A	
Camera type: <u>PENTAX OPTIO</u> W90	h				
6256896.06 1857539.66	SW, W, NW	1.1	5° down	5104-549	S/OS/MSCP
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	and the second				
V. OTHER FIELD NOTES Other Field Notes/Comments: <u>A. prostr</u>	atus fiower	ning			

Continue on back if needed.

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

\*Digitaria sanguinalis \*schismus barbatus

90 Lover

1

5

## Acmispon prostratus (Nuttall's Acmispon) Mission Bay – Hospitality Point Site # 2



Panorama from Southern edge of population, facing Southwest, West, Northwest. Panorama location is 6256896.06 1857539.66 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



	r	NU HOW	
Scientific Name: Acmispon prostra	With Marshand and an	When any Transition of many straining and an experimentation of the second straining of the Many Many Many Straining on	mental states as we medicate for the fails of measurement of the search
Site Name: Mariner's Point			
Date: 5/24//3	erit 1982, Michaele has conserve a second and a second of the constraint the second second second second second	ement Regime: TBD	AND SHALL BUT THE REAL PROPERTY AND A DAY AND
Surveyors and Affiliation/Agency. 152 /su			ano, Kaistina
Cany, Kathenne Santos -	City of San Die	<u> </u>	
Species Found? XYes No	If not, wi	• ny (if reason known or suspecte	d)?
Total No. Individuals:	·	s of 10, 100 and 1000 for est	,
Population/Subpopulation Area:	Units	Exact (based on GPS mappir	ng) 🔲 Estimate
Collection (if not collected previously)?	Yes No Collected Pr	reviously	
Collector	Collection Nur	nber Museu	m/Herbarium
I. OBSERVATION AREA/MANAGEMENT			
Accuracy of Coordinates/GPS Error: +/-		feet	n an
Observation Location: 6255570.10	1859631.80	State Plane (feet)	Питм
a ar san an a			
II. GENERAL HABITAT DESCRIPTION / Vegetation Community:	ND THREATS ASSESSME	NT	
Landowner/Manager: <u>City of San Diego F</u>	ar <u>k and Recreation</u>		
		to Good 🛛 🗌 Poor	Very Poor
Surrounding land use: <u>Open wate</u>	$\lambda $ $($	Kewcation	
Disturbances and/or threats (be specific, inclu of disturbance or percent cover of disturbance	if possible):	ment Recommendation/s:	
none	Conti	inue hand we	eling
III. ASSOCIATED SPECIES	ng n	Service of the Armerican	i fint a state of the state of
List dominant, subdominant and invasive spec	ies in/near target species obse	ervation area/management	unit
Species'=List all species (sci. name). Use * to indic		•	
column; if submitted to herbarium, note collection nu	mber (submit to SDNHM unless of	thenwise noted)	,
Species	Cover Coll? Coll. # Species		Cover Coll? Coll. #
Acmispon prostratus Camissoniopsis cheiranmitolia		ute plaint ducted ute plaint ducted us not con Tarn <u>ys not const</u> Tarn <u>to teast</u> area <u>ne to presting</u>	
amissoniopsis cheirannitolia Ambrosia chamissonis		the fullow row	***************************************
Ambronia mantima	- Come	AC NOT ad the	ински саранарани саман и ински саранара (саранара) саранара саранара (саранара) и саранара и саранара саранара Политики саранара саранара (саранара)
*Bromus diandms	FILL SAME	1 th Very aver	1871 1977 2018 2019 1987 1978 1979 1979 1979 1979 1979 19
	I I I W	J. W. MM	
ana ana ana amin'ny tanàna amin'ny tanàna amin'ny tanàna amin'ny tanàna amin'ny tanàna amin'ny tanàna amin'ny t		***********	*\$144792.201488869447825125555555555555555555555555555555555
IV. SITE PHOTOMONITORING Camera type: PENTAX のりつし いらい			
	CE C CW/ 11m		MAA MAA SIOS/MECD
6255570.10 1859631.80 Location [State Plane (ft)]	SE, S, SW 1.1 m Direction (facing) Height	<u>15° Down</u> Camera Angle	SIL-516 S/OS/MSCP Photo # File location/s
	Billoonon (nonng/	Control of the second s	
Location [State Plane (ft)]	Direction (facing) Height	Camera Angle	Photo # File location/s
V. OTHER FIELD NOTES		en e	
V. OTHER FIELD NOTES Other Field Notes/Comments: LETE DA			

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

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

### Acmispon prostratus (Nuttall's Acmispon) Mariners Point



Panorama from Northern edge of population, facing Southeast, South, Southwest. Panorama location is 6255570.10 1859631.8 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

Scientific Name: Acmispon prostra	tus	Common Name: Nuttall's Acmispor	n
Site Name: Mission Bay- No Man's Land	-Site 1	Management Unit #: TBD	
Date: 5 24 13		Management Regime: TBD	
Surveyors and Affiliation/Agency: Betsu	Miller KIO	in Roeland, Mike Milano,	Knistina
Cary, Kathenine Santos	- citu o	of San Dican	
Species Found?			
Total No. Individuals:95	Exact Estima	If not, why (if reason known or suspected)? te (use orders of 10, 100 and 1000 for estimates)	
Population/Subpopulation Area: <u>Z425.0</u>	Uni	$\frac{2}{15}$ (based on GPS mapping) $\Box$ Estates 2013 G1S Data	stimate
If yes:		Collected Previously	
Collector	and the second s	Collection Number Museum/Herbarium	
I. OBSERVATION AREA/MANAGEMENT	and the second		
Accuracy of Coordinates/GPS Error: +/-	<1 🗸 met		
Observation Location: 6267668.046	1859784.45	State Plane (feet)	1
II. GENERAL HABITAT DESCRIPTION A	ND THREATS A	SSESSMENT	
Vegetation Community: BAccitates Sacoth	COIDES PROVISION	M ALLANCE/ BARCHARUS SAFETTHROIDES	ASSOCIATION
Landowner/Manager: City of San Diego P	ark and Recreation		
Overall Site Quality**	od-Excellent	Fair to Good	ery Poor
Surrounding land use: transporta	tion loper	space	
Disturbances and/or threats (be specific, include	de extent	Management Recommendation/s:	
of disturbance or percent cover of disturbance			
High cover invasive for	bs (mustai	d weeding	
chysanthemum)		,	
· · · ·			
III. ASSOCIATED SPECIES	9 6 8 6 6 6		
List dominant, subdominant and invasive speci	es in/near target sr	pecies observation area/management unit.	
[35] J. M. L. M. L. M. L. M. Martin, M. M. M. Martin, M.	ate non-native species	s; 'Cover"= % cover of species; Note if collected by che	cking 'Coll.'
Species	Cover Coll? Coll. #	Species	Cover Coll? Coll. #
Acmispon prostratus	1	+Glebionis coronaria	15
Bacchan's sarothooides	5	crassula sp.	2
Camissoniopsis cheiranthifoli	a 15	*schismus barbatus	1
Nemacaulis denudata var. d. Heterotheca granditiona	5 2	Heliotropium curassavicum * Bromus madnitensis	
+Alacia sp.	5	* centaurea melitensis	1
* Endium sp.	10	Pseudognaphalium sp.	1
* sisymbrium in'o	40		
IV. SITE PHOTOMONITORING			
Camera type: PENTAX OPTO W90			
6267668.046 1854784.459	SE, S, SW, W	1.1 m 5° down 524-52	7 SIOSIMSCP
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: Most A.	nostratus su	nall (4) ft dia); only few s	een
flowening		in the second se	

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

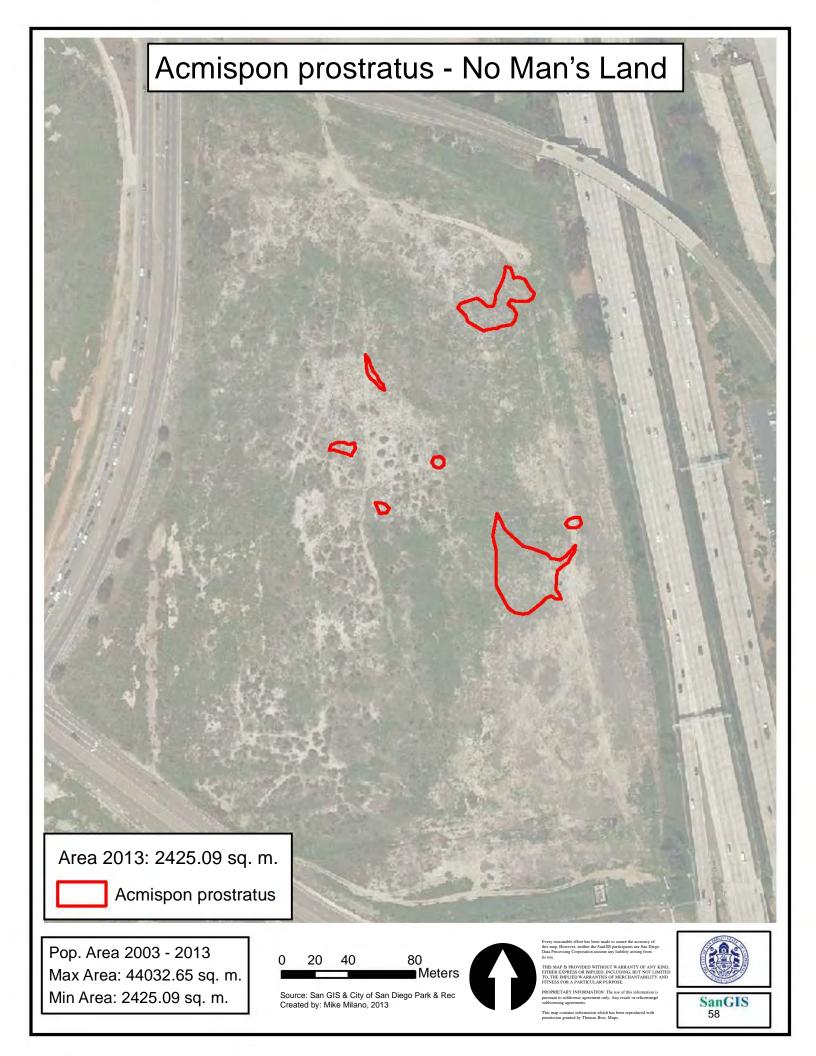
Very Good-Excellent	80-100% Native Flora Composition Vegetation Structure intact or nearly so Cover /abundance of weeds < 5% No or minimal signs of disturbance
Fair to Good	50-80% Native Flora Composition Vegetation structure modified or somewhat modified Cover/abundance of weeds 5-20% any number of 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

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### Acmispon prostratus (Nuttall's Acmispon) Mission Bay – No Man's Land Site # 1



Panorama from Southwestern edge of population, facing Southeast, South, Southwest, West. Panorama location is 6267668.04 1859784.45 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



	ostratus	Common Name:	Nuttall's Acmispo	лт 
Site Name: Rip Rap Site #	3	Management Unit #: TBD		-
Date: 6/4/13		Management Regime:		
Surveyors and Affiliation/Agency: A	MIKE MILAND,	STD MAGNER	CITY OF S	AN DIEGO
Species Found? X Yes No _				
Total No. Individuals: 34	Exact Estimat	If not, why (if reason known te (use orders of 10, 100 and		
Population/Subpopulation Area: 878.	777777 m2 Uni	ts RExact (based on	GPS mapping)	Estimate
Collection (if not collected previously)? If yes:		Collected Previously		
Collector	and a second state of the second state	Collection Number	Museum/Herbarium	1
I. OBSERVATION AREA/MANAGEN	a second s			
Accuracy of Coordinates/GPS Error: +/-	- <u>&lt;1</u> / met		<u></u> .	
Observation Location: 6258823.55	185730	05.75 State Pla	ne (feet)	м
I. GENERAL HABITAT DESCRIPTIO	ON AND THREATS A	SSESSMENT	1.2	
		ATURAL STANDS ALLANG	E / PENNISSTUM	SETACEUM
	ego Park and Recreation		SEAT-NATURAL	STANDS ASSOLA
				Vor Dor
	ry Good-Excellent	and the second sec	Poor D	Very Poor
Surrounding land use: APTIVE GE	efternan/opto in	INTER		
of disturbance or percent cover of disturb NA GENSSES, TRASH,		Management Recomme	endation/s:	
M GUISSES , TRUSH,	ance if possible):			
of disturbance or percent cover of disturb         M GENSSES , Tracs4,         III. ASSOCIATED SPECIES         List dominant, subdominant and invasive         Species'=List all species (sci. name). Use * to	ance if possible): species in/near target sp indicate non-native species	becies observation area/ma s; 'Cover''= % cover of species	anagement unit.	necking 'Coll.'
III. ASSOCIATED SPECIES List dominant, subdominant and invasive Species'=List all species (sci. name). Use * to column; if submitted to herbarium, note collecti pecies	ance if possible): species in/near target sp indicate non-native species ion number (submit to SDN Cover Coll? Coll.#	becies observation area/ma s; 'Cover''= % cover of species	anagement unit.	Cover Coll? Coll.
II. ASSOCIATED SPECIES List dominant, subdominant and invasive Species'=List all species (sci. name). Use * to solumn; if submitted to herbarium, note collecti pecies	ance if possible): species in/near target sp indicate non-native species ion number (submit to SDNi Cover Coll? Coll. #	Decies observation area/ma s; 'Cover''= % cover of species HM unless otherwise noted). Species # BROMUS DIAUDR	anagement unit. s; Note if collected by ch	
II. ASSOCIATED SPECIES List dominant, subdominant and invasive Species'=List all species (sci. name). Use * to column; if submitted to herbarium, note collectu pecies DISTICHUS SPICATA HETEROTHICA GRANDITEORA	ance if possible): species in/near target sp indicate non-native species ion number (submit to SDNi Cover Coll? Coll.# Z i	Decies observation area/ma s; 'Cover''= % cover of species HM unless otherwise noted). Species # BROMUS DIAUDR CHAMMESYLE MA	anagement unit. s; Note if collected by ch	Cover Coll? Coll.
II. ASSOCIATED SPECIES List dominant, subdominant and invasive Species'=List all species (sci. name). Use * to column; if submitted to herbarium, note collecti pecies DISTICHUS SPICATA HETELOTHICK GRANDITEORA KVIENA SP.	ance if possible): species in/near target sp indicate non-native species ion number (submit to SDN) Cover Coll? Coll. # Z 1 20	Decies observation area/ma s; 'Cover''= % cover of species HM unless otherwise noted). Species * BROMUS DIAUDR CHAMPESYLE MA WKSHN STOWA	anagement unit. s; Note if collected by ch us cuutin	Cover Coll? Coll.
II. ASSOCIATED SPECIES List dominant, subdominant and invasive Species'=List all species (sci. name). Use * to column; if submitted to herbarium, note collectu pecies DISTICHUS SPICATA HETEROTIFICA GRANDITORA NVENA SP. MEDICAGIO POLYMORPHA ATHIPLEX LENTIFICAIS	ance if possible): species in/near target sp indicate non-native species ion number (submit to SDN) Cover Coll? Coll. # Z 1 20	Decies observation area/ma s; 'Cover''= % cover of species HM unless otherwise noted). Species * BROAUS DIAV DR CHAMMESYCE MA CHAMMESYCE MA WASHINGTOWA	anagement unit. s; Note if collected by ch	Cover Coll? Coll.
II. ASSOCIATED SPECIES III. ASSOCIATED SPECIES List dominant, subdominant and invasive Species'=List all species (sci. name). Use * to column; if submitted to herbarium, note collection pecies DISTICHUS SPICATA HETEROTHICA GRANDITORA KVENA SP. MEDICAGIO POLYMORPHA ATRIPLEX LENTIFICMIS AROCOMMY FISCICULATA	ance if possible): species in/near target sp indicate non-native species ion number (submit to SDNi Cover Coll? Coll. # Z I Z Z Z I Z I Z I Z I Z I Z I Z	Decies observation area/ma s; 'Cover''= % cover of species HM unless otherwise noted). Species BRO-US DIAV DR CHAMAESYLE MA CHAMAESYLE MA WAVA CARVIEL HELLOTROPHUM CUR MESENDEYWITHEMUM	anagement unit. s; Note if collected by ch us coultra Sp cat assavicum caysmilium	Cover Coll? Coll.
II. ASSOCIATED SPECIES III. ASSOCIATED SPECIES List dominant, subdominant and invasive Species'=List all species (sci. name). Use * to column; if submitted to herbarium, note collection pecies DISTICHUS SPICATA HETEROTHICA GRANDITORA KVENA SP. MEDIGGO POLYMORPHA ATPIPLEX LENTIFORMIS ERIOGUMUM FASCICULATIM	ance if possible): species in/near target sp indicate non-native species ion number (submit to SDNi Cover Coll? Coll. # Z I Z Z I I I I I I I I I I I I I	Decies observation area/ma s; 'Cover''= % cover of species HM unless otherwise noted). Species BRO-US DIAV DR CITANASYLE MA CITANASYLE MA WANA PARVIEL HELIOTROPHIM CUR MESENBEYWITHEMUY CARPOBROTUS CON	anagement unit. s; Note if collected by ch us coultra Sp cat assavicum caysmilium	Cover Coll? Coll.
II. ASSOCIATED SPECIES List dominant, subdominant and invasive Species'=List all species (sci. name). Use * to column; if submitted to herbarium, note collecti pecies DISTICHUS SPICATA HETEROTIFICA GRANDITORA KVENA SP. MEDIAGIO POLYMORPHA ATTEROTIFICA LENTIFICAIS ATTEROTIFICA LENTIFICAIS ATTEROTIFICA SILVATA MEDIAGIO SATIVASI AMERICANA ÉSILO STACIFYA	ance if possible): species in/near target sp indicate non-native species ion number (submit to SDNi Cover Coll? Coll. # Z I Z Z Z I Z I Z I Z I Z I Z I Z	Decies observation area/ma s; 'Cover''= % cover of species HM unless otherwise noted). Species BRO-US DIAV DR CHAMAESYLE MA CHAMAESYLE MA WAVA CARVIEL HELLOTROPHUM CUR MESENDEYWITHEMUM	anagement unit. s; Note if collected by ch us coultra Sp cat assavicum caysmilium	Cover Coll? Coll.
II. ASSOCIATED SPECIES III. ASSOCIATED SPECIES List dominant, subdominant and invasive Species'=List all species (sci. name). Use * to column; if submitted to herbarium, note collecti pecies DISTICHUS SPICATA HETELOTITICA GRANDITORIA ANTERCOTITICA GRANDITORIA ANTERCOTICA CONTORIOR	ance if possible): species in/near target sp indicate non-native species ion number (submit to SDN) Cover Coll? Coll. # Z I Z I Z I Z I Z Z I Z Z I Z Z Z Z Z Z Z Z Z Z Z Z Z	Decies observation area/ma s; 'Cover''= % cover of species HM unless otherwise noted). Species BRO-US DIAV DR CITANASYLE MA CITANASYLE MA WANA PARVIEL HELIOTROPHIM CUR MESENBEYWITHEMUY CARPOBROTUS CON	anagement unit. s; Note if collected by ch us coultra Sp cat assavicum caysmilium	Cover Coll? Coll.
ASSOCIATED SPECIES III. ASSOCIATED SPECIES List dominant, subdominant and invasive Species'=List all species (sci. name). Use * to column; if submitted to herbarium, note collecti pecies DISTICHUS SPICATA HETELOTHICA GRANDITORA NEW SP. MEDIGGO POUMORPHA ATPIPLEX LENTIFORMIS ENGLISH SS. MEDIGGO POUMORPHA ATPIPLEX LENTIFORMIS ENGLISH SS. MEDIGGO STACHYA V. SITE PHOTOMONITORING Camera type: <u>PENT</u> PX OPTIC W	ance if possible): species in/near target sp indicate non-native species ion number (submit to SDNi Cover Coll? Coll. # Z I Z Z I Z Z I Z Z Z Z Z Z Z Z Z Z Z Z Z	Decies observation area/ma s; 'Cover"= % cover of species HM unless otherwise noted). Species # BRO-US DIAU DR CHAMIESYLE MA WASHINGTONIA WASHINGTONIA MILA PARVIELO HELIOTROPHIM CUR MESEMBLY WITHEMUY CARPOBROTUS COMU	anagement unit. s; Note if collected by ch us culta sp rca- assavicum crystallum LEVS15	Cover         Coll?         Coll.           15         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1
of disturbance or percent cover of disturb         M GENSSES , TMSH,         III. ASSOCIATED SPECIES         List dominant, subdominant and invasive         Species'=List all species (sci. name). Use * to         column; if submitted to herbarium, note collecti         pecies         DISTICHUS SPICATA         HETEROTHICA GRANDITORA         NEWIGGO POLYMORPHA         ATHIFUEX LENTFORMIS         ARIOGUMU FASCICULATM         SATURAL         SATURAL         SATURAL         SATURAL         VENA SP.         MEDIGGO POLYMORPHA         ATHIFUEX LENTFORMIS         ARIOGUMU FASCICULATM         SATURAL         SATURAL         SATURAL         MELANA SP.         MELANA SP. <td>species in/near target sp indicate non-native species ion number (submit to SDN Cover Coll? Coll. # Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z</td> <td>Decies observation area/ma s; 'Cover"= % cover of species HM unless otherwise noted). Species * BRO-US DIAU DR CHAMIESYLE MA WILL GROMA * MAUA CARVIEL HELIOTROPHIM CUR MESEABLY WITHONLY CARPOBROTUS COM ACIA SP</td> <td>anagement unit. s; Note if collected by ch us cutta sp cata cata cata cata cata cata sis</td> <td>Cover Coll? Coll. 15 1 1 1 1 1 1 1 1 1 1 1 1 1</td>	species in/near target sp indicate non-native species ion number (submit to SDN Cover Coll? Coll. # Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	Decies observation area/ma s; 'Cover"= % cover of species HM unless otherwise noted). Species * BRO-US DIAU DR CHAMIESYLE MA WILL GROMA * MAUA CARVIEL HELIOTROPHIM CUR MESEABLY WITHONLY CARPOBROTUS COM ACIA SP	anagement unit. s; Note if collected by ch us cutta sp cata cata cata cata cata cata sis	Cover Coll? Coll. 15 1 1 1 1 1 1 1 1 1 1 1 1 1
ASSOCIATED SPECIES III. ASSOCIATED SPECIES List dominant, subdominant and invasive Species'=List all species (sci. name). Use * to column; if submitted to herbarium, note collecti pecies DISTICHUS SPICATA HETELOTHICA GRANDITORA NEW SP. MEDIGGO POUMORPHA ATPIPLEX LENTIFORMIS ENGLISH SS. MEDIGGO POUMORPHA ATPIPLEX LENTIFORMIS ENGLISH SS. MEDIGGO STACHYA V. SITE PHOTOMONITORING Camera type: <u>PENT</u> PX OPTIC W	ance if possible): species in/near target sp indicate non-native species ion number (submit to SDNi Cover Coll? Coll. # Z I Z Z I Z Z I Z Z Z Z Z Z Z Z Z Z Z Z Z	Decies observation area/ma s; 'Cover"= % cover of species HM unless otherwise noted). Species # BRO-US DIAU DR CHAMIESYLE MA WASHINGTONIA WASHINGTONIA MILA PARVIELO HELIOTROPHIM CUR MESEMBLY WITHEMUY CARPOBROTUS COMU	anagement unit. s; Note if collected by ch us cutta sp cata cata cata cata cata cata sis	Cover Coll? Coll. 15 1 1 1 1 1 1 1 1 1 1 1 1 1
AN GENSSES , TRASH, III. ASSOCIATED SPECIES List dominant, subdominant and invasive Species'=List all species (sci. name). Use * to column; if submitted to herbarium, note collection species DISTICHUS SPICATA HETEROTHICA GRANDITORA NEWA SP. MEDIGGO POUMORPHA ATHIPUEX LENTIFORMIS ARIOGUMUM FASCICULATUM SMPITANUS SATIVASI AMERICAN SILO STACHYA IV. SITE PHOTOMONITORING Camera type: <u>PENTAX OPTIC W</u> 6258823.558 1857305.759	species in/near target sp indicate non-native species ion number (submit to SDN Cover Coll? Coll. # Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	Decies observation area/ma s; 'Cover"= % cover of species HM unless otherwise noted). Species * BRO-US DIAU DR CHAMIESYLE MA WILL GROMA * MAUA CARVIEL HELIOTROPHIM CUR MESEABLY WITHMUY CARPOBROTUS COM ACIA SP	anagement unit. s; Note if collected by ch us cutor Sp cator Sp cator Sp cator Sp cator Sp cator Cato	Cover Coll? Coll. 15 1 1 1 1 1 1 1 1 1 1 1 1 1
of disturbance or percent cover of disturb         M GENSSES , TMSH,         III. ASSOCIATED SPECIES         List dominant, subdominant and invasive         Species'=List all species (sci. name). Use * to         column; if submitted to herbarium, note collection         species         DISTICHUS SPICATA         HETEROTHICA GRAVDITORA         NVEVA- SP.         MEDIGGO POLYMORPHA         ATHIPUEX LENTFORMS         ANDIMAN SATURATION         SATURATION         SATURATION         SATURATION         MEDIGGO POLYMORPHA	ance if possible): species in/near target sp indicate non-native species ion number (submit to SDN) Cover Coll? Coll. # 20 3 2 1 1 2 90 SW, W, NW Direction (facing)	Decies observation area/ma s; 'Cover''= % cover of species HM unless otherwise noted). Species * BROAUS DIAV DR CHAMPESYLE MA CHAMPESYLE MA WASHINGTOMA * MAVA PARVIFLE HELIOTROPHUM CUR HESENBEYAVITHEMUY CARE OBROTUS COM ACIA SP	anagement unit. s; Note if collected by ch us cutor Sp cator Sp cator Sp cator Sp cator Sp cator Cato	Cover Coll? Coll. 15 1 1 1 1 1 1 1 1 1 1 1 1 1
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Continue on back if needed.

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

№ RICINUS COMMUNIS 1%
 ВА-САНДРІЯ РІСИСАРІЯ 1%
 ВА-САНДРІЯ РІСИСАРІЯ 1%
 СОЗСИТА SP. 1%
 КОССИТА SP. 1%
 ВОХО
 Я РЕИЛІЗЕТИМ SELACEUM ВОХО
 Я ССЕВІОНІЯ СОРОЛАРІА 10%
 SALICORNIA РАСІРІСА 8%
 ГУЛНІОРЯЯ САСІЛІАТА 1%
 Сімоліим САСІРОРЛІСИМ 1%
 КАСОСІА ТРАСИХ 1%

MATIPUEX PROSTRATA 1%

TRITRAGONIA TRITRAGONICIDES 1% Achispus pressorators 4%

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### Acmispon prostratus (Nuttall's Acmispon) Mission Bay – Rip Rap



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



Date: 5/24/13		Managemer Managemer			
Surveyors and Affiliation/Agency: Ben	ten Miller				tina
Comp. Kathenine San				PVIS	
J	ing cety	1 cian cher	10	-	
Species Found?		If not why (if	reason known or susp	ected)?	
Total No. Individuals: 2575	Exact E	stimate (use orders of )	and the second		
	1	Contraction of the second	a statt drander. A set	and the second second	Provedor
opulation Subpopulation Area. 2 <u>113.</u>	OLTONT I		ct (based on GPS ma		umate
Collection (if not collected previously)?	Yes No	Collected Previou		a	
If yes:					
Collector		Collection Number	Mu	useum/Herbarium	
I. OBSERVATION AREA/MANAGEM	ENT UNIT LOCA	ATION			
Accuracy of Coordinates/GPS Error: +/-	<1 2	🛙 meters 🗌 feet			
Observation Location: 6266803.802	18594	150.236	State Plane (feet	) 🗌 UTM	
II. GENERAL HABITAT DESCRIPTIC		TS ASSESSMENT			
and the second	And the state of the state of the state of the state of the	L MUSTARDS CHA	11-NATURAS C	TANDS MI	AATC E
Landowner/Manager: City of San Died	a Park and Pacra	eation Brassich Cuigra	)+ OTHER AUSTINCO	& STEMI - NATVI	CAT STANDS IN
	y Good-Excellent	Fair to Go	od Poor	M	ery Poor
Surrounding land use: Open Space	e, transpo	oration			
Disturbances and/or threats (be specific, in of disturbance or percent cover of disturba high cover non-native f hustard, chasanthemum hottentof fig	nclude extent ance if possible):	Management	t Recommendation werding of fig - o of grant to	and pull	ing ina h
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Continue on back if needed)

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

+ Bromus madritunsis Pseudognaphalinm beneolens

\* Limonium perezii Heterofneca grandifiora

7. cover

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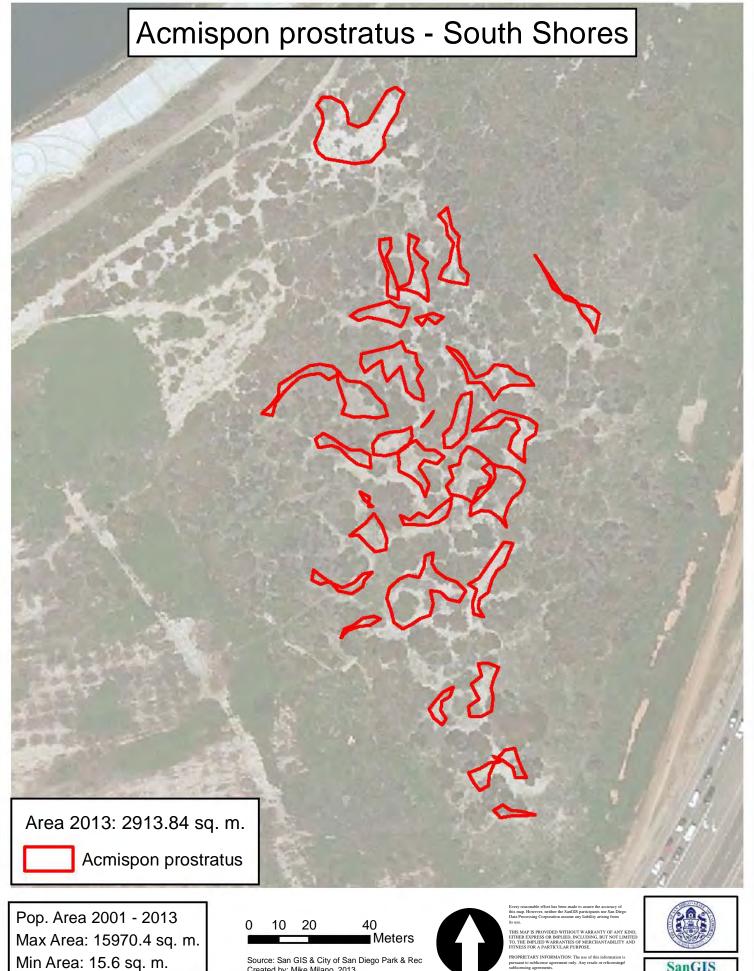
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64

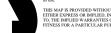
### Acmispon prostratus (Nuttall's Acmispon) Mission Bay – South Shores Site # 6



Panorama from Western edge of population, facing South, Southwest, West, Northwest. Panorama location is 6266803.80 1859450.24 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Source: San GIS & City of San Diego Park & Rec Created by: Mike Milano, 2013





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# *Ambrosia pumila* San Diego Ambrosia



© M. Osboure, 2006

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ESSMENT ANCE / ERICHONICA FA and Recreation Fair to Good Poor Camping Management Recommendation	n/s:
ESSMENT ANCE/ERICHANNE FR and Recreation Fair to Good Poor Camping Management Recommendation	n/s:
ANCE / ERICHONUM FA and Recreation Poor Camping Management Recommendation	or 🗌 Very Poor
and Recreation	or 🗌 Very Poor
Poo Camping Management Recommendatio	n/s:
Camping Management Recommendatio	n/s:
Camping Management Recommendatio	n/s:
Management Recommendatio	,
and the state of t	,
120 1200	
ies observation area/managen	nent unit.
Cover"= % cover of species; Note	
unless otherwise noted)	
pecies	Cover Coll? Coll. #
Holocarpha virgata	1
Prassica negro	2 3
Enlauren melitensis	25
Bomus madrilensis	2
Bomus hordeaceus	1
Endium sp.	1
Acmispen americanus	
Height Camera Angle	Photo # File location/s
	<u>Festuca</u> Muguros Barnus Madrifensis Bomus hardeaceus Erodium Sp. <u>Acmijos ancricanus</u> 50 in 5 degrees d Height Camera Angle

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

Continue on back if needed.

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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

Species Dichlis subspicate

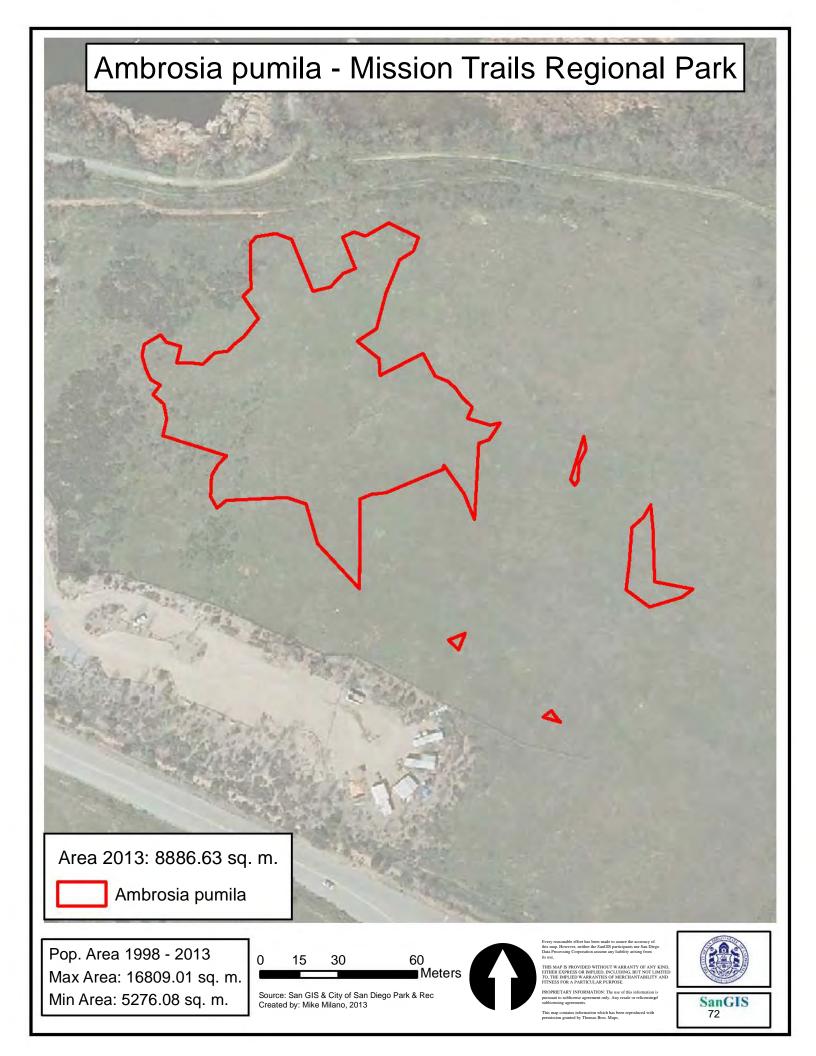
*,* •

<u>2/0 cover</u> 1

## 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 ArcSoft Panorama Maker 4.



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*Bloomeria clevelandii* San Diego Goldenstar



© City of San Diego, 2004

Scientific Name: Bloomeria d	clevelandii	-	Common N	lame:	San Dieg	o Golden:	star		
Site Name: East Elliott-			Manageme	Carl Street Street Street Street	TBA				
Date: #/18/13			There is not the last strainer.	And the second s	TBA		-		
Surveyors and Affiliation/Agency:	7.1. 11 10	10				a:	-	-	-
Surveyors and Annaton Agency	say man a	nd N	m rollar	a - corg	of On	a coreg	0	-	
Species Found? Yes No	Na	_	If not why (ii	reason known or	suspected)	2			_
Total No. Individuals: 5,000	_ Exact	Estimat	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10, 100 and 100					
Population/Subpopulation Area: 17	734.670736	Unit		act (based on GP	S mapping	) 🗌 Esti	imate		
Collection (if not collected previously)? If yes:	□Yes ØN	200	Collected Previo						
Collector	Charlos and a magnitude		ollection Number		Museum/	Herbarium	-	_	
I. OBSERVATION AREA/MANAGE	COM AND AN AND AND AN AN AN AN	and the same in the later.	_						
Accuracy of Coordinates/GPS Error:	All Commences and the	∠ mete	100						
Observation Location: 6319260	.2 189	91551.76	6	✓ State Plane	(feet)	UTM			
	Diego Park and Recre Very Good-Excellent Contraction C		Manageme	ood	Poor ation/s:	Ve	ry Poc	ər	
high cover NNE post	-burn		NNE	at abis	mote		lion	1 +	
III. ASSOCIATED SPECIES						-			
List dominant, subdominant and invasiv Species'=List all species (sci. name). Use * column; if submitted to herbarium, note colled	to indicate non-native s	pecies; 'C	Cover"= % cove	of species; Note			ig 'Col	<i>".</i> .'	
Species	Cover Coll?	Coll. #	Species				Cover	Coll?	Coll
Bloomeria develandi	3	*	Avena	barbata			2		
Sisrynchium bellum		X		gathica			</td <td></td> <td>-</td>		-
Stipa pulchra	1	*		eris stabn			3		+
Logfia. filuginoides	1	1	Endium		an		2		-
Crasoula conhate	</td <td></td> <td></td> <td>hordacen</td> <td>1</td> <td></td> <td>40</td> <td></td> <td>1</td>			hordacen	1		40		1
Callium angustifatium	2	*	Bamys	machikens	is 550.		5	-	-
Bromus Wiandnus	10	-	Trachype	dium dia	achigos	1	5	-	-
IV. SITE PHOTOMONITORING Camera type   PENTAX OPTIC	2 w90				5		_		1)
6319260.2 1891551.76		CE E	11.	10*		1- 110	e.	00/14	SCD
Location [State Plane (ft)]	W, SW, S Direction		1.1 m Height	10* up Camera Ar	ngle -	<u>117-119</u> Photo #	_	OS/M le loca	_
Location [State Plane (ft)]	Direction	(facing)	Height	Camera Ar	ngle	Photo #	Fi	le loca	tion/:
V. OTHER FIELD NOTES						1.2.2		E.	
Other Field Notes/Comments:									
		_			_				
						_			

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

Continue on back if needed.

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

species

% cover

Joocoma menziesii Arlemeria californico

3

7

3

7

3

Rhamnus crocea Mimulus aurantiacus Acmispon glaber Malosna laurina

Rhus integrifolia Sidalcea oparsiflora Malocathamans fascientatus

76

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



Panorama from Southwestern edge of population, facing West, Southwest, South, Southeast, East. Panorama location is 6319260.20 1891551.76 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

Scientific Name: Bloomeria clevela	ndii	Common Name: San Diego Golde	enstar
Site Name: East Elliott-Obs 2		Management Unit #: TBA	
Date: 4/18/13		Management Regime: TBA	
Surveyors and Affiliation/Agency: Betsy	Miller and	Kim Rocland, City of SD	
Species Found? Xes No		If not, why (if reason known or suspected)?	
Total No. Individuals:/4	Exact Estima	te (use orders of 10, 100 and 1000 for estimates)	
Population/Subpopulation Area: 41,663	087 <u>M</u>		Estimate
Collection (if not collected previously)? [ If yes: Collector		Collected Previously Collection Number Museum/Herbariur	
I. OBSERVATION AREA/MANAGEMENT			
Accuracy of Coordinates/GPS Error: +/-	<1 I me	ters feet	and the second se
Observation Location: 6317389.879	1894565		-
	1094303		141
II. GENERAL HABITAT DESCRIPTION A	And the second se		
Vegetation Community: ADEVISTIMA FASE Landowner/Manager: <u>City of San Diego P</u>		el ADENOSTOMA FASULULATUR - LOTUS SCOP	PARIUS ASSOCIATI
Overall Site Quality** Very Goo	od-Excellent	Fair to Good	Very Poor
Surrounding land use: open space		<b>P</b> = = = = = = = = = = = = = = = = = = =	
Moderate cover NNG from roads / power line		None	
	ate non-native species;	Cover"= % cover of species; Note if collected by chec	king 'Coll.'
column; if submitted to herbarium, note collection nu. Species	Cover Coll? Coll. #	Species	Cover Coll? Coll.
Bloomen'a develandii	1	Helianthemum scoparium	2
Adenostoma fasciculatum	20	selaginella cinerascens	10
Malosma Launna	5	Lasthenia gracilis	2
Rhammus choica	20	Logfia filaginoides	2 2
Eriogonum fasciculatum Deinandra fasciculata	2	bimadenia tenella	î
Acmispon glaber	2	* Hypochacis glabra * Brachypodium distachyon	5
Salvia mellifera	1	* Avena sp.	ī
IV. SITE PHOTOMONITORING		and the second second	
Camera type PENTAX OPTIO W90			
6317389.9 <u>1894565.895</u> Location [State Plane (ft)]	N,NW,W,SW,S Direction (facing)	1.1 m         5* up         11/-116           Height         Camera Angle         Photo #	S/OS/MSCP File location/s
Location [State Plane (ft)]	Direction (facing)	Height Camera Angle Photo #	File location/s
V. OTHER FIELD NOTES	()		
Other Field Notes/Comments:	tailed jackn	blit G site	

Continue on back if needed.

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

# Festuca myuros 40 # Bromus madnitensis 5 # Sonchas aspen 1 # Bromus hordeaceus 1

## Bloomeria clevelandii (San Diego Goldenstar) East Elliott # 2



Panorama from Southeastern edge of population, facing North, West, South. Panorama location is 6319260.20 1891551.76 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

Scientific Name: Bloomeria clevela	ndii	-	Common N	lame: San D	iego Golder	nstar	N.C.T.
Site Name: East Elliott-Obs 3			Manageme	ent Unit #: TBA			30
Date: 4/18/13			Manageme	ent Regime: TBA			
Surveyors and Affiliation/Agency: Rehy	Miller	Kim .	Roeland	- City of Sa	1 Diego		
			(	10	-		- A
Species Found? 🗌 Yes 🖉 No 🔛		_	If not, why (if	reason known or suspec	ted)?		
fotal No. Individuals:	Exact	] Estimat		10, 100 and 1000 for e	Constant in the second second		
Population/Subpopulation Area:		m² Unit		act (based on GPS map	ping) 🗌 Es	timate	
Collection (if not collected previously)? [ If yes:	Yes ZN	_	Collected Previo	busly			
Collector		C	ollection Number	Muse	eum/Herbarium	-	
OBSERVATION AREA/MANAGEMENT	UNIT LOCA	COMPAREMENTS.					1
Accuracy of Coordinates/GPS Error: +/-		✓ met		the second second second second			
Observation Location: 6316947.573		895951.2	2	✓ State Plane (feet)	Ш итм		
. GENERAL HABITAT DESCRIPTION A		S ASS	ESSMENT				
And the second	The second se		Canada Starter William Canada Alla Canada Starter	ALLANCE / NDENOS	TOMA FASCICUL	Utum -	XYLOCOL
andowner/Manager: City of San Diego P						BICOLON	Associ
	od-Excellent		Fair to G	ood Poor		ery Poor	
urrounding land use:	acc						
low/moderate cover NNG pearby access road not office I. ASSOCIATED SPECIES ast dominant, subdominant and invasive speci	e.y. pen	prision .	ies observatio	n area/management	unit	-	
pecies'=List all species (sci. name). Use * to indica olumn; if submitted to herbarium, note collection nu	ate non-native s	pecies; 'C	Cover"= % cover	r of species; Note if colle		ing 'Coll.'	
pecies	Cover Coll?		Species			Cover Co	oll? Coll.
Hypochaeris glabra	2	1.000	Crassala	connata,		1	E
Atmispon glaber	4		Stilochi	e graphaloic	les	1	
Enoganut fascientatum	5		Thankan	filaginoides		</td <td>-</td>	-
Adelyastoma fasciculaterm Xylococcus bicolor	35		Ammus	madrilessis	58p. reken	12	
Lasthenca gracilis	3	1	Festura	mours	7	10	
Selyginella cinerascens	5	ł	Bomus			<1	_
hlorgalum parsiflorum _	1	1	Calochon	tus optendens	K	1	1
SITE PHOTOMONITORING	10-						
amera type PENTAX OPTIO		-				1000	1000 C
<u>3316947.6</u> <u>1895951.197</u> Location [State Plane (ft)]	S,SW, Direction		1.1 m Height	5* down Camera Angle	5-8 Photo #		/MSCP ocation/s
Location [State Plane (ft)]	Direction	(facing)	Height	Camera Angle	Photo #	File	ocation/s
. OTHER FIELD NOTES			Sec. 1				1000
ther Field Notes/Comments:							
		-					-
						_	

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

Continue on back if needed

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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

2

\* Sonchus asper Cryptantha intermedia

× 2.5

 $[1,\infty) \in \{1,\infty\}, \{1,1\}$ 1.1.1 a. .

12

% cover

41.5 1.8%

82

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



Panorama from Northwestern edge of population, facing South, Southwest, West, Northwest. Panorama location is 6316947.57 1895951.19 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

	andii		Common N	ame: San Di	ego Golder	nstar	100	
Site Name: East Elliott-Obs	4		Manageme	VALUE AND A CONTRACT			20	
Date: 4/18/13			Manageme	and the second second second		-		
Surveyors and Affiliation/Agency:	1 11.11-	1:	, ,		Diana			
ourveyers and Annualoningeney.	reparting .	Nm -	goeland -	City of San	Corego			
Species Found? Yes No			If not why (if	reason known or suspect	ad)2			_
Total No. Individuals:O	Exact	Estimate		10, 100 and 1000 for es				
Population/Subpopulation Area:	5	MZ				timate		
		Units		ct (based on GPS mapp		umate		
Collection (if not collected previously)? If yes:		• 🗆 •	Collected Previo	usly				
Collector		Co	ollection Number	Muse	um/Herbarium			_
I. OBSERVATION AREA/MANAGEMEN	T UNIT LOCA	TION						
Accuracy of Coordinates/GPS Error: +/-	<1	✓ mete	ers 🗌 feet					
Observation Location: 6317550.1	189	8385.22		✓ State Plane (feet)		1		
								-
II. GENERAL HABITAT DESCRIPTION	the second s	and the set of the second set where	and the second distance in the second	C	0	1 -11 -12 -		
Vegetation Community: ADEJISTRYA ESCUVERTIN-			e - MDEWOSTEMA	heauvirum-tylocours	BILLER-CEAN	wittes	Tamen	1050S
andowner/Manager: City of San Diego	Martin States	ation			_			in the second se
Overall Site Quality** Ø Very G	ood-Excellent		Fair to G	ood 🗌 Poor		ery Poo	r	
Surrounding land use:	pace					_	_	_
Disturbances and/or threats (be specific, inclu			Managemen	t Recommendation/s				
of disturbance or percent cover of disturbance	/		1.000					
rearby access road do	es not		none					
1 to allation	site							
appear to se affecting	THE		1					
II. ASSOCIATED SPECIES	-							
List dominant, subdominant and invasive spe	cies in/near tar	not spoci	ios observatio	n area/management i	nit		_	-
Species'=List all species (sci. name). Use * to indi	and the second	the second second		the second se		ina 'Col	11.*	
column; if submitted to herbarium, note collection n	the second s				olou by one on.	ing our		
pecies	Cover Coll?	Coll. #	Species			Cover	Coll?	Coll.
	12							
Rhamous crocca	1		Castillein	densiflora seo.	gracilis	</td <td>-</td> <td>-</td>	-	-
Rammup clocca Navaretia hamata	2		Hespeloya	densiflora seo.		1		-
Navarretia hamata Selaginella cinerascens	7		Adenosto	ma fasiculatu		20		
Navaretia hamata Selaginella cinerascens Lasthenia gracilis			Adenasto Xylococci	na fasiculatu na fasiculatu nus dicolor		1		
Navaretia hamata Selaginella cinerascens Lasthenia gracilis Logphia Alaginoides	7		Hespello yu Adenosto Xylococco Malasmo	na fasiculatu na fasiculatu us dicolor a laurina		20		
Navaretia hamata Selaginella cinerascens Lasthenia gracilis Logentia filaginoides Crassula comata	7		Adenosto Adenosto Malasma Ceanothu	na fasijculatu na fasijculatu na dicolor a laurina 1 tomentosus		23-1		
Navaretia hamata Selagínella cinerascens Lasthenia gracilis Logphia Allaginoides Crassula Somata Stilocline, graphabides	72/1		Hespeloyu Adenosto Xylococco Malasmo Canothu Trichaste	na fasijentatu na fasijentatu hus dicolor a laurina 1 tomentosus na lanatan		20		
Navaretia hamata Selaginella cinerascens Lasthenia gracilis ogshia filaginoides Crassula comata Silocline gnaphabides Chlorogalum parviflorum	7	×	Adenosto Adenosto Malasma Ceanothu	na fasijentatu na fasijentatu hus dicolor a laurina 1 tomentosus na lanatan		1203-1-1		
Navaretia hamata Selaginella cinerascens Lasthenia gracilis Lasthenia gracilis Lasthenia gracilis Lasthenia comata Stibeline grachabides Chlorogalum parciflorum V. SITE PHOTOMONITORING	72111	×	Hespeloyu Adenosto Xylococco Malasmo Canothu Trichaste	na fasijentatu na fasijentatu hus dicolor a laurina 1 tomentosus na lanatan		1203-1-1		
Navaretia hamata Selaginella cinerascens Lasthenia gracilis Consula comata Stibuline grachabides Chlorogalum pariflorum V. SITE PHOTOMONITORING Camera type PENTAX OPTIO	72 1 1 1 1 1	K	Hespeloyu Adenosto Xylococco Malasmo Ceanothu Trichaster Erodiven	a fasijculatu na fasijculatu hus dicolor a laurina s tomentosus na lanatam		203114		
Navarretia hamata Selaginella cinerascens Lasthenia gracilis Crassala comata Stibeline grachabides Chlorogalum pariflorum V. SITE PHOTOMONITORING Camera type	7 2 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2		Adenosto Xylococco Malasma Ceanothu Trichaster Erodium	10* down	m 1-4	/ 20 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OS/M:	
Navarretia hamata Selaginella cinerascens Lasthenia gracilis Consula comata Chasala comata Stituctine graphabides Chlorogalum pariflorum V. SITE PHOTOMONITORING Camera type PENTRX. OPTIO	72 1 1 1 1 1		Hespeloyu Adenosto Xylococco Malasmo Ceanothu Trichaster Erodiven	a fasijculatu na fasijculatu hus dicolor a laurina s tomentosus na lanatam		/ 20 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OS/Mi le loca	
Navarretia hamata Selaginella cinerascens Lasthenia gracilis Consula comata Stibeline gnaphabides Chlorogalum pariflorum V. SITE PHOTOMONITORING Camera type	7 2 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	(facing)	Adenosto Xylococco Malas mo Canothu Triclaster Erodium 1.1 m Height	10* down	m 1-4	/ 20 3     - - - - - - - - - - - - - - - - - -	_	ition/s
Nammetia hamata Selaginella cinerascens Lasthenia gracilis cogotia filaginoides Chassala comata Stibcline graphabides Chlorogalum partiflorum V. SITE PHOTOMONITORING Camera type 6317550.1 Location [State Plane (ft)]  Location [State Plane (ft)]	7 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	(facing)	Adenosto Xylococco Malasma Ceanothu Trichaster Erodium	(cca wheppheil) ma fasijculatu hus dicolor a laurina 1 tomentosus ma lanatum op. 10* down Camera Angle	/4/ Photo #	/ 20 3     - - - - - - - - - - - - - - - - - -	le loca	ition/s
Navarelia hamata Selaginella cinerascens Lasthenia graitis Sogohia filaginoides Sticcline graphaloides Chlorogalum particlorum V. SITE PHOTOMONITORING Camera type <u>PENTEX OPTIO</u> 6317550.1 <u>1898385.22</u> Location [State Plane (ft)] Location [State Plane (ft)]	7 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	(facing)	Adenosto Xylococco Malas mo Canothu Triclaster Erodium 1.1 m Height	(cca wheppheil) ma fasijculatu hus dicolor a laurina 1 tomentosus ma lanatum op. 10* down Camera Angle	/4/ Photo #	/ 20 3     - - - - - - - - - - - - - - - - - -	le loca	ition/s
Navaretia hamata Selaginella cinerascens Lasthenia graitis Cogonia filaginoides Chlorogalum pariflorum V. SITE PHOTOMONITORING Camera type <u>PENTRX OPTIO</u> 6317550.1 <u>1898385.22</u> Location [State Plane (ft)]	7 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	(facing)	Adenosto Xylococco Malas mo Canothu Triclaster Erodium 1.1 m Height	(cca wheppheil) ma fasijculatu hus dicolor a laurina 1 tomentosus ma lanatum op. 10* down Camera Angle	/4/ Photo #	/ 20 3     - - - - - - - - - - - - - - - - - -	le loca	ition/s

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

Continue on back if needed.)

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

Species 0/0 c \* Hypochaeris glabra \* Featuca myuros \* Bamus matritensis sep. rubens \* Calachortus sphendens

۰.

olo cover 1 3 <1

85

## Bloomeria clevelandii (San Diego Goldenstar) East Elliott # 4



Panorama from Northwestern edge population, facing Northeast, North, Northwest, West, Southwest. Panorama location is 6317550.10 189385.22 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

Image: Second state     Image: Second state       Ima	If not, why (if re- e (use orders of 10 2 PExact collected Previous ollection Number ers feet 1 ESSMENT	Unit #:       TBA         Regime:       TBA         Regime:       TBA         (and)       City of         ason known or suspect         ason known or suspect         (based on GPS map         it         Music         State Plane (feet)	estimates) pping) Es reum/Herbarium	timate ,,	II
Act Estimate 18 // 2 Unit No C C C C C C C C C C C C C C	Management	Regime: TBA [and] City a ason known or suspec 0, 100 and 1000 for e t (based on GPS map dy 	cted)? estimates) pping) Es eeum/Herbarium	1 Kufozvica/Ya	11 11 11 11
Act Estimate 18 // 2 Unit No C C C C C C C C C C C C C C	If not, why (if re- e (use orders of 10 e Use orders of 10 E Exact collected Previous ollection Number ers feet feet feet feet feet feet	land City of ason known or suspection of the suspection of the suspect of the sus	cted)? estimates) pping) Es eeum/Herbarium	1 Kufozvica/Ya	11 11 11
Act Estimate 18 // 2 Unit No C C C C C C C C C C C C C C	If not, why (if re- e (use orders of 10 2	ason known or suspec ), 100 and 1000 for e ; (based on GPS map ily 	cted)? estimates) pping) Es eeum/Herbarium	1 Kufozvica/Ya	II II II II II II II II II II II II II
18     m²       Unit       ☑ No       ☑ No       □       C	e (use orders of 10 E Exact Collected Previous ollection Number ers feet 1 SSMENT Free Lee	0, 100 and 1000 for e t (based on GPS map ily <u>Mus</u> State Plane (feet) נוסנטיעייה האונטאנדעיי	estimates) pping) Es reum/Herbarium	1 Kufozvica/Ya	II II III Asso
18     m²       Unit       ☑ No       ☑ No       □       C	e (use orders of 10 E Exact Collected Previous ollection Number ers feet 1 SSMENT Free Lee	0, 100 and 1000 for e t (based on GPS map ily <u>Mus</u> State Plane (feet) נוסנטיעייה האונטאנדעיי	estimates) pping) Es reum/Herbarium	1 Kufozvica/Ya	NA AEL Asso
Image: Second state     Image: Second state       Ima	ESSMENT	: (based on GPS map איץ State Plane (feet) אולקאיטיא דאגונאאזעי	eum/Herbarium	1 Kufozvica/Ya	NA AEL Asso
C T LOCATION <1	ers feet 1 SSMENT	Mus	UTM •/ARTIMESIA CA	rcifespoice/sea	NA AEL Asso
TLOCATION <1	ers feet 1 ESSMENT Frichaumun-lee	] State Plane (feet) ווסלוסאיטיא דאטונטאאזטאי	UTM •/ARTIMESIA CA	rcifespoice/sea	NIA MEL ASSO
<1 ✓ meter 1894089.91 HREATS ASS ★ ADESIGNATION ADESIGNATION ADESIGNATION	ESSMENT	новолим Банслатим	a /ARTIMESIA CA	rcifespoice/sea	WIA MEL Asso
d Recreation	Freencourtum-lee				<u>.NIA</u> MEL Asso
d Recreation	Freencourtum-lee				<u>A</u> MEI Arsso
d Recreation					Asso
	Fair to Good	d Poor			
			L Ve	ery Poor	
inj					
-native species; 'C	Cover"= % cover of	f species; Note if coll		ing 'Coll.'	
	1	loled),	4 10 196 m	Cover Coll2	Coll
	and an	2		and the second se	0011.
2	Logfia -	filaginovdoc		5	
	Sisatine	hium bellu	m	1	
	Style cline	- gnaphalor	des		-
	* Festuca	myaros		10	_
	Ivavan	cha hamat	a	1	-
the second se	* the act	mucronata		1	
	+ rigroch	nens grante	-		
			9.10		
	1.1 m	3* up	9-13	S/OS/MS	
SW,S,SE		Our Acris	Dian I all		1 m m Fr
SW,S,SE Direction (facing)	Height	Camera Angle	Photo #	File local	tion/:
		Camera Angle Camera Angle	Photo #	File local	
Direction (facing)	Height				
Direction (facing)	Height				
	near target spec -native species; 'C submit to SDNHM ver Coll? Coll. #	near target species observation a -native species; 'Cover''= % cover of submit to SDNHM unless otherwise i ver Coll? Coll. # Species SHIPA SH Logfia - Situ Hinc Style Cline # Festuca Navam fella ca	Ant Sible): Management Recommendation/s Nonc	Anagement Recommendation/s: Nonc Nonc Nonc Nonc near target species observation area/management unit. -native species; 'Cover''= % cover of species; Note if collected by check submit to SDNHM unless otherwise noted). ver Coll? Coll. # Species Shipa Sp. Logfia filaginovdes Sreatinchium bellum Stylo cline gnaphalordes * Fostuca my uros Navarrcha hamata Pellaca mu cronata	Anagement Recommendation/s:         Sible):         Nonc         near target species observation area/management unit.         -native species; 'Cover''= % cover of species; Note if collected by checking 'Coll.'         submit to SDNHM unless otherwise noted).         ver Coll?         Coll.#         Species         Cover Coll?         Shipa Sp.         2         Logfia filaginovdes         5         Style cline gnaphalordes         *         Yerstuca my unos         Valarcha hamata         1         Pellaca mu cronata

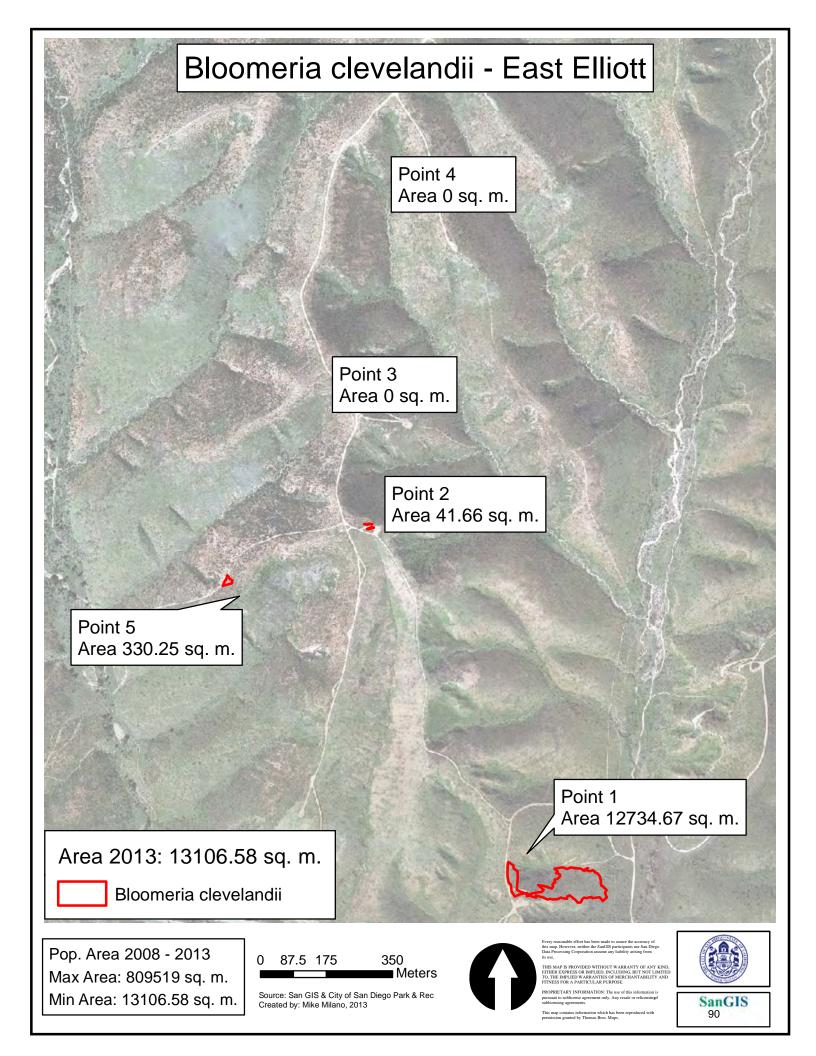
Very Good-Excellent	80-100% Native Flora Composition Vegetation Structure intact or nearly so Cover /abundance of weeds < 5% No or minimal signs of disturbance
Fair to Good	50-80% Native Flora Composition Vegetation structure modified or somewhat modified Cover/abundance of weeds 5-20% any number of 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

\* Bromus madritensis 1 Azmispon glaba 2 Chlorogalum parvifionum 1 Osmadania Jenalla 1

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



Panorama from Western edge of population, facing Southwest, South, Southeast. Panorama location is 6316118.12 1894089.91 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Scientific Name: Blomeria cheve,	landii	1- ne	Common	Name: San Die	go Colden	star
Site Name: Lopez Ridge	1.00	0.00		ent Unit #: TBD	1270	the second
Date: 4/23/13	Stand In	P.L.	Managem	ent Regime: TBD		1 2
Surveyors and Affiliation/Agency: 300	Mille	~ *				
	ryone	, ~	m youar	City	of dan	Dian
	A AND A COMPANY		Contraction of the local distance of the loc	Log	of Can	Wiego
Species Found? Yes No			If not why (	if reason known or suspec	ted)?	
Total No. Individuals: _/470	Exact	Estimat		f 10, 100 and 1000 for e		
	.370521					
ropulation/Subpopulation Area.	·STOSEL_	Unit	s S	act (based on GPS map	ping)	stimate
Collection (if not collected previously)?	Yes No		Collected Previ			
If yes:		° Ц	Collected Frevi	ousiy		
Collector		C	ollection Numbe	r Musi	eum/Herbarium	1
I. OBSERVATION AREA/MANAGEMEN	T UNIT LOC	OITAC	N AND TH		5 512 5	TRACE
Accuracy of Coordinates/GPS Error: +/<	A STREAM STREAM STREAM	✓ met	and the second sec			
Observation Location: 6278246.403		191552		State Plane (feet)	பா	м
		101002				
II. GENERAL HABITAT DESCRIPTION					1 12	Cenetos pres
Vegetation Community: _ wernal po	ols + C	coust	tal sage	e scrub/chap	parral	1
Landowner/Manager: City of San Diego E	Environmenta	I Servic	es			
Overall Site Quality**	od-Excellent		Fair to	Poor		/ery Poor
Surrounding land use: open space			Carl Carl Carl			
Surrounding land use	L, Mara	en la	ar			
Disturbances and/or threats (be specific, inclu			Manageme	nt Recommendation/s	S:	,
of disturbance or percent cover of disturbance	e if possible):		111	weeds as n	. / /	
moderate cover NNG			Treat	weeds as n	erard	
			1			
	THE REAL	100	R. Altra	Sanda Land		A CONTRACTOR
III. ASSOCIATED SPECIES	1		24 ( 1993 - 1984) 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	1.3.1.5.1.2.1.0.0.1	annual stands	and the second
List dominant, subdominant and invasive spec						
Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu					ollected by che	ecking 'Coll.'
Species	Cover Coll?		Species	wise noted).		Cover Coll? Coll. #
3 paliaca orcy Hia	12	0011: 17	proprietation and street in community	11		5
Pogogyne abramsic	35		Navarre	Ila cinerascen tia hamata	4	4
Bloomeria clevelandio	1		0	shus brevissi	inus	3
Zeltnera venusta	3.		Crassn	la connata		1
Dode san theon chevelandii	,2		and the second se	erecta		2
Castilleja esserta osp. essert	al		Logfia	filaginoides		1
Benandra Jascjeylata	5		Deschan	uplia danthan	bides	1
Allium halmatschiton	2	*	Endium	570.	Q 1017587	2
IV. SITE PHOTOMONITORING	10	1000	Frits Hull	Contraction of the	an an ar	121210
	190					
6278246.4 1915522.7		W,NW	1.1m	10*Down		S/OS/MSCP
Location [State Plane (ft)]	Direction (f	facing)	Height	Camera Angle	Photo #	File location/s
Location [State Plane (ft)]	Direction (f	acing)	Height	Camera Angle	Photo #	File location/s
V. OTHER FIELD NOTES		581 1	1 Lat Maria	A STATE OF THE	with the	and the second second
Other Field Notes/Comments:						
Other Field Notes/Comments:		-,				

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

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 Covertabundance of weeds 50-80% any number of individuals Disturbance indidence very high

species

2/0 cover

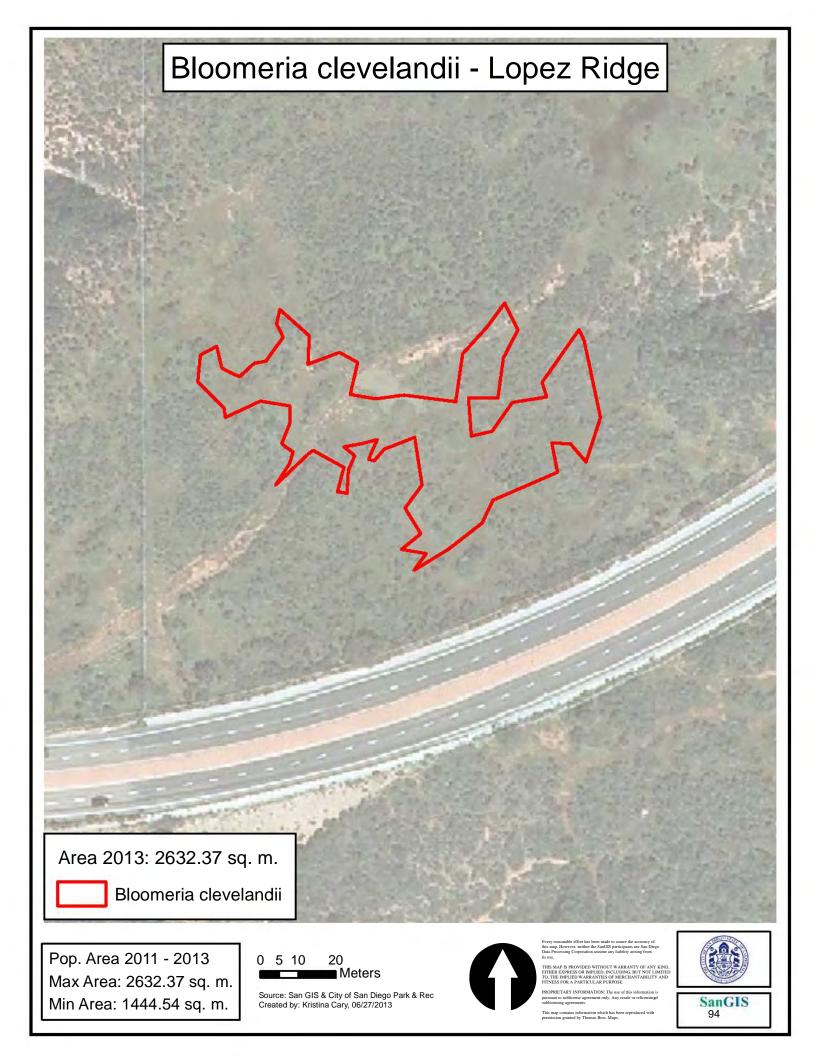
\* Hypochaeris glabra Chlorogalum parviflorum 10 \* Bromus hordaceus 7 \* Bromus madritensis sop. nibens 5 \* Avera barbata 5 \* Frestrica myuros \* Castridium phleoides Opentia leboralis 3 Acmis pon glaber Malosma laurina 3 Adenostorna fasciculatum 20

92

# Bloomeria clevelandii (San Diego Goldenstar) Lopez Ridge



Panorama from Eastern edge of population, facing Southwest, West, Northwest. Panorama location is 6278246.41 1915522.73 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Ociontifo Nomo	line dit		Company News Condition	and the state of t
Scientific Name: Bloomeria cleve			Common Name: San Diego Golde	enstar
Site Name: Marron Valley-C	bs 1		Management Unit #: TBD	a second and a second as
Date: 5/14/13			Management Regime: TBD	
Surveyors and Affiliation/Agency: Bet	~ Miller	Kim	Roeland, Mike Milano -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	7(ma)	10	City of San	2:
7			Log of Oan	Diego
Species Found? Yes No				
	10	1	If not, why (if reason known or suspected)?	
Total No. Individuals:	Exact	Estimat	e (use orders of 10, 100 and 1000 for estimates)	
Population/Subpopulation Area:	A	N/B		Estimate
Collection (if not collected previously)?	Yes IN	• 🗆	Collected Previously	
Collector		C	collection Number Museum/Herbariun	n
I. OBSERVATION AREA/MANAGEMEN	T UNIT LOC	CATIO	N	
Accuracy of Coordinates/GPS Error: +/-	and the second second second second	⊡ met		
Observation Location: 6406792.116	1/8	8002.68	1 State Plane (feet) UT	M
II. GENERAL HABITAT DESCRIPTION	AND THRE	ATS AS	SSESSMENT	-
		the second s	opsis laciniata-Artemisia californica	Ennonum
Landowner/Manager: City of San Diego			fasciculation associa	HOP
	CT-10.7			
Overall Site Quality**	ood-Excellent		Fair to Good Poor	Very Poor
Surrounding land use: Open small	e			
Disturbances and/or threats (be specific, incl			Management Recommendation/s:	
of disturbance or percent cover of disturbance modera Le/high cover non grass + forbs	e if possible): -native		any weed treatments be tested via pilot prog	should fect
, ,	-			
III. ASSOCIATED SPECIES	and the second		and the second dates	the second
List dominant, subdominant and invasive spe	cies in/near ta	arget sp	ecies observation area/management unit.	0.65
Species'=List all species (sci. name). Use * to indu column; if submitted to herbarium, note collection r		A CONTRACTOR OF THE OWNER OWNER OWNER OF THE OWNER OWNE OWNER OWNE	; 'Cover"= % cover of species; Note if collected by ch IM unless otherwise noted).	ecking 'Coll.'
Species	Cover Coll?		Species	Cover Coll? Coll. #
Seleginelle cinerascens	1		Enloganum fassiculatum	1
Bahtopsis lacinata	+1	1	Bestaurea nelitensis	4
Salvia apiana	2		asmadenia terella	1
Joscoma menziedii	3		Callium angustificium	1
Rhamnus crocca	3		Endium sp	10
Alalasma laurina	2		Avena sp.	7
Antemesia californica	3		Bromus hordeaceus	7
Core thogyne filaginifolia	1/	7	Bromus madriteasis	30
IV. SITE PHOTOMONITORING	_			
Camera type: Pentax Op.	tio war	0		- C
6406792.116 1788002.681	S, SE, N		1.1 m 15* down 4/39-3	144 SIOSIMSCP
Location [State Plane (ft)]	Direction (		Height Camera Angle Photo #	File location/s
Location [State Plane (ft)]	Direction (i	facing)	Height Camera Angle Photo #	File location/s
V. OTHER FIELD NOTES			1 10	
Other Field Notes/Comments:	tion or	resce	al - unable to CPS popular	fun
				1. S
			and the second	

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

Continue on back if needed.

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	No. of the second s
Poor ·	20-50% Native Flora Composition Vegetation structure modified Cover/abundance of weeds 20-60% any number of individuals Disturbance incidence high	NA CONTRACTOR DE LA CONTRA
Very Poor	0-20% Native Flora Composition Vegetation Structure disappeared Cover/abundance of weeds 60-80% any number of individuals Disturbance incidence very high	

Species

0/0 cover

In

1

Aipa palchra \* Anagallus arrensis \* Fustuca myunos Erisphyllum confertiflorum

\* Logfia gallica Minutus aurantiacus Croton setigerus

\* Hypochacris glabra

Clematis paciflora Bloomenia cleve landino

96

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



Panorama from Western edge of population, facing South, West, North. Panorama location is 6406792.12 1788002.68 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

Scientific Name: Bloomeria clev	velandii	Common N	ame.	ball blogo oc	oldenstar		
Site Name: Marron Valley-	-Obs 2	Managemei	nt Unit #:	ГBD			
Date: 5/14/13		Managemei	nt Regime:	rbd			
Surveyors and Affiliation/Agency:	Miller, Ki	m Roeland, M	like Mila	10-	,		
				City of	San a	Diego	1 - 1
Species Found? 🗹 Yes 🗌 No 🔄		If not, why (if	reason known or	suspected)?			
Total No. Individuals:45	Exact E	stimate (use orders of					
Population/Subpopulation Area:	1/4	N/A DExa	ct (based on GP	S mapping)	Estimate		
		Units					
Collection (if not collected previously)? If yes:	Yes No	Collected Previou	usly				
Collector		Collection Number		Museum/Herba	arium	_	-
I. OBSERVATION AREA/MANAGEME	The second	A LANDAU AND A LANDAU A					
Accuracy of Coordinates/GPS Error: +/- Observation Location: 6407225.718		meters feet	State Plane	(foot)	] UTM		
Observation Location: 6407225.718	17676	97.020			1014		_
		2/Salvia apia	na-Arten	hista cali	tornica	Assi	xia
	o Public Utilities D						
Overall Site Quality**	Good-Excellent	Fair to Go	bod 🗌	Poor	Very Poo	or	
Surrounding land use: Disturbances and/or threats (be specific, in of disturbance or percent cover of disturba	nce if possible):		t Recommend	ation/s:			
Surrounding land use: <u>open spec</u> Disturbances and/or threats (be specific, in of disturbance or percent cover of disturbance moverate cover non-nation + forbo	nce if possible):		t Recommend	ation/s:			
Surrounding land use: <u>open spec</u> Disturbances and/or threats (be specific, in of disturbance or percent cover of disturban moderate cover non-nation + forboo	nce if possible):	a none					
Surrounding land use: <u>open spec</u> Disturbances and/or threats (be specific, in of disturbance or percent cover of disturbance moderate cover non-nation + forbos III. ASSOCIATED SPECIES List dominant, subdominant and invasive s Species'=List all species (sci. name). Use * to in	nce if possible):	A Mone get species observat pecies; 'Cover''= % cov	ion area/mana rer of species; N	gement unit.	y checking '(	Coll.'	
Surrounding land use: <u>open spec</u> Disturbances and/or threats (be specific, in of disturbance or percent cover of disturbance moderate cover non-nation of disturbance or percent cover of disturbance moderate cover non-nation of disturbance of the species (because of the species) III. ASSOCIATED SPECIES List dominant, subdominant and invasive s Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection species	nce if possible):	A Hone get species observat pecies; 'Cover''= % cov SDNHM unless otherw	ion area/mana rer of species; N	gement unit.		Coll.'	Coll. #
Surrounding land use: <u>open spec</u> Disturbances and/or threats (be specific, in of disturbance or percent cover of disturbance moderate cover non-nath + forbos III. ASSOCIATED SPECIES List dominant, subdominant and invasive s Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection Species Boomeria clere landing	nce if possible):	A HONL get species observat pecies; 'Cover''= % cov SDNHM unless otherw Coll. # Species * Brancia	ion area/mana er of species; N vise noted).	gement unit.	Cover	_	Coll. #
Surrounding land use: <u>open spec</u> Disturbances and/or threats (be specific, in of disturbance or percent cover of disturban movement cover non-nation of former cover non-nation of former cover non-nation of former cover non-nation former cover non-nation former cover non-nation species cover non-nation Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection species Species Species cover non-nation species	nce if possible):	A HONE get species observat pecies; 'Cover''= % cov SDNHM unless otherw Coll. # Species	ion area/mana er of species; N vise noted).	gement unit.	Cover 1 20	_	Coll. #
Surrounding land use: <u>open spec</u> Disturbances and/or threats (be specific, in of disturbance or percent cover of disturbance moderate cover non-nation of disturbance or percent cover of disturbance moderate cover non-nation of disturbance of the species (be non-nation Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection Species	nce if possible):	A Mone get species observat pecies; 'Cover''= % cov SDNHM unless otherw coll. # Species * Species * Species * Species	ion area/mana rer of species; N vise noted).	gement unit. ote if collected b	Cover	Coll?	Coll. #
Surrounding land use: <u>open spec</u> Disturbances and/or threats (be specific, in of disturbance or percent cover of disturban movement cover non-nation of former cover non-nation of former cover non-nation of former cover non-nation former cover non-nation former cover non-nation species cover non-nation Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection species Species Species cover non-nation species	nce if possible):	A Mone get species observat pecies; 'Cover''= % cov SDNHM unless otherw Coll. # Species * Bransica # Bransica # Avena # Avena # Branus	ion area/mana er of species; N vise noted).	gement unit. ote if collected b	Cover 1 20 10	Coll?	Coll. #
Surrounding land use: <u>open spec</u> Disturbances and/or threats (be specific, in of disturbance or percent cover of disturbance moderate cover non-nation of disturbance or percent cover of disturbance moderate cover non-nation of disturbance of cover non-nation o	nce if possible):	A Mone get species observat pecies; 'Cover''= % cov SDNHM unless otherw Coll. # Species * Bronus * Bronus * Bronus * Bronus * Bronus * Bronus	ion area/mana er of species; N vise noted). Ngm machiten horgeacer a seriella	gement unit. ote if collected b	Cover 1 20 10	Coll?	Coll. #
Surrounding land use: <u>open spec</u> Disturbances and/or threats (be specific, in of disturbance or percent cover of disturbance moderate cover non-nation of disturbance or percent cover of disturbance moderate cover non-nation of disturbance of cover non-nation o	nce if possible):	A Mone get species observat pecies; 'Cover''= % cov SDNHM unless otherw Coll. # Species * Bronus * Bronus * Bronus * Bronus * Bronus * Bronus * Bronus * Bronus * Bronus * Bronus	ion area/mana er of species; N vise noted). Ngra madriten horgeacer a serifa melitens	gement unit. ote if collected b	Cover 1 20 10	Coll?	Coll. #
Surrounding land use: <u>open spo</u> Disturbances and/or threats (be specific, in of disturbance or percent cover of disturbance moderate cover non-nation of disturbance or percent cover of disturbance moderate cover non-nation of disturbance of percent of the species of the species of the species of the species of the species Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection species Boomeria cherelandic mathematics of the species Malocma laurina Sacharis santanistics Malocma laurina	nce if possible): pecies in/near targ ndicate non-native sp n number (submit to Cover Coll? C 1 2 3 4 7 4 10	A Mone get species observat pecies; 'Cover''= % cov SDNHM unless otherw Coll. # Species * Bronus * Bronus * Bronus * Bronus * Bronus * Bronus	ion area/mana er of species; N vise noted). Ngra madriten horgeacer a serifa melitens	gement unit. ote if collected b	Cover 1 20 10	Coll?	Coll. #
Surrounding land use: <u>open spec</u> Disturbances and/or threats (be specific, in of disturbance or percent cover of disturbance moderate cover non-nath + forba III. ASSOCIATED SPECIES List dominant, subdominant and invasive s Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection species Boomercia clere/gadicis Bachanis samthinides Malosma laurina Sachanis samthinides	nce if possible):	A Mone get species observat pecies; 'Cover''= % cov SDNHM unless otherw Coll. # Species * Bronus * Bronus * Bronus * Bronus * Bronus * Bronus * Bronus * Bronus * Bronus * Bronus	ion area/mana er of species; N vise noted). Ngra madriten horgeacer a serifa melitens	gement unit. ote if collected b	Cover 1 20 10	Coll?	Coll. #
Surrounding land use: <u>open spec</u> Disturbances and/or threats (be specific, in of disturbance or percent cover of disturbance moderate cover non-nation of disturbance or percent cover of disturbance moderate cover non-nation of disturbance or percent cover of disturbance of the species of the species of the species Species'=List all species (sci. name). Use * to in column; it submitted to herbarium, note collection species Boomeria cherelandic malosma laurina Sachan's santhristics Malosma laurina Sachan's santhristics	nce if possible):	A Mone get species observat pecies; 'Cover"= % cov SDNHM unless otherw Coll. # Species * Bransia * Brans	ion area/mana er of species; N vise noted). Ngra madriten horgeacer a serifa melitens	gement unit. ote if collected b sis is falus	Cover 1 20 10 15 7 1 1 1 1 1 1 1 1 1 1 1 1 1	Coll?	CP
Surrounding land use: <u>open spec</u> Disturbances and/or threats (be specific, in of disturbance or percent cover of disturbance moderate cover non-nation of disturbance or percent cover of disturbance moderate cover non-nation of disturbance or percent cover of disturbance of the species (see non-nation of the species (see non-nation Species'=List all species (see name). Use * to in column; if submitted to herbarium, note collection pecies Boomeria clevel gadic Baccharis santhing the baccharis santhing the mension a far ciculation for a spiana to come far ciculation to come far ciculation Comera type: <u>pertox opt</u> 6407225.718 1787897.828	nce if possible): ice grasses pecies in/near targ ndicate non-native sp n number (submit to Cover Coll? C 1 2 3 4 7 4 10 2 5, S	A Mone get species observat pecies; 'Cover"= % cov SDNHM unless otherw Soli # Species * Bransica * Bransica	ion area/mana er of species; N vise noted).	gement unit. ote if collected b is is is labus ngle Pho	Cover / 20 10 15 7 1 1 1 5 7 1 1 5 7 1 1 5 7 1 1 5 7 1 1 5 7 1 1 5 7 1 1 5 7 1 1 5 5 7 1 5 5 5 5 5 5 5 5 5 5 5 5 5	Coll?	CP on/s

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

Continue on back if needed.)

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

Species \* Anagallus arrensis Stejoa pulchra \* Featuca myuros

Beudognaphalium op.

% cover

· ...

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



Panorama from Western edge of population, facing South, Southwest. Panorama location is 6407225.72 1787897.83 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

Scientific Name: Bloomeria clevela	andii		n Diego Goldenstar
Site Name: Marron Valley-Ob	os 3	Management Unit #; TB	D
Date: 5/14/13		Management Regime: TB	D
	sa Miller	Kim Rocland, M	the Milana
		of San Diego	
	LIFY	of san prego	
Species Found? Xes No			
Total No. Individuals: 50		If not, why (if reason known or su	
Total No. Individuals:	Exact Estim	ate (use orders of 10, 100 and 1000 f	or estimates)
Population/Subpopulation Area: N/A		Exact (based on GPS r	napping) 🗌 Estimate
Collection (if not collected previously)?	Yes No [	Collected Previously	
If yes:	1100 14100 1		
Collector	_	Collection Number	Museum/Herbarium
I. OBSERVATION AREA/MANAGEMEN		N	
the officer of the second process of the second			
Accuracy of Coordinates/GPS Error: +/-			
Observation Location: 6407990.151	1787523.4	84 State Plane (fee	et) 🗌 UTM
II. GENERAL HABITAT DESCRIPTION	AND THREATS	SSESSMENT	
	The same star and the second sec		rtemisic californica
The second se	and the second se		ASSOCIATION
Landowner/Manager: <u>City of San Diego F</u>	Public Utilities Dep		HOSCIUTION
Overall Site Quality**	od-Excellent	Fair to Good	or Very Poor
Surrounding land use: Open Space			
Disturbances and/or threats (be specific, inclu		Management Recommendation	on/s:
of disturbance or percent cover of disturbance	e if possible):		
no land collar bland 10.00		Wuding	
moderny cover hn-grass		, i i	
III. ASSOCIATED SPECIES			
List dominant, subdominant and invasive spec	cies in/near target	species observation area/manage	ement unit.
Species'=List all species (sci. name). Use * to indic			
column; if submitted to herbarium, note collection nu			
Species	Cover Coll? Coll. #	Species	Cover Coll? Coll. #
Bloomenia clevelandii	1	Stipa pulchra	3
Malosma lannina	7	A Centanyea mel	itensis 1
Artemisia californica		* Isvassica nigra	/
Salvia apiana	12 3	Chestanties parr	1
Enogenum fusciculatum	2	Chestantues parr	Y) 1
Eriophyllum conferritionn	5	+ Avena sp.	20
Isriama menzies/i	1	* Bromus madrite	
Corethrogyne Alaginitolia	1/	* Endlum Sp.	7
IV. SITE PHOTOMONITORING			
Camera type: Pentax Optio 1	w90		1. T. S. L. L.
Camera type: <u>Pentax Optio 1</u> 6407990.151 1787523.484	NW, N, NE, E	1.1 m 45* down	418-425 SIOSIMSCP
6407990.151 1787523.484 Location [State Plane (ft)]	NW, N, NE, E Direction (facing	Height Camera Angle	e Photo # File location/s
6407990.151 1787523.484 Location [State Plane (ft)] Location [State Plane (ft)]	NW, N, NE, E	Height Camera Angle	e Photo # File location/s
6407990.151 1787523.484 Location [State Plane (ft)] Location [State Plane (ft)] V. OTHER FIELD NOTES	NW, N, NE, E Direction (facing Direction (facing	Height Camera Angle	Photo # File location/s Photo # File location/s
6407990.151 1787523.484 Location [State Plane (ft)] Location [State Plane (ft)] V. OTHER FIELD NOTES Other Field Notes/Comments: Nb map	NW, N, NE, E Direction (facing Direction (facing	Height Camera Angle Height Camera Angle Sc pepulation had	Photo # File location/s Photo # File location/s
6407990.151 Location [State Plane (ft)] V. OTHER FIELD NOTES Other Field Notes/Comments: Nb map	NW, N, NE, E Direction (facing Direction (facing	Height Camera Angle Height Camera Angle Sc pep ylation had	Photo # File location/s Photo # File location/s

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

Continue on back if needed.)

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

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Poa secunda

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



Panorama from Northeastern edge of population, facing Northwest, North, Northeast, East. Panorama location is 6407990.15 1787523.48 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

Site Name:						star		
	Marron Valley-Obs	: 4	Management Unit #	TBD		-	00	
Date: 5/14/13			Management Regin	ne: TBD				
Surveyors and Affiliation	Agency: Chin	Hiller Kim	1 1 1	ilano -				
		parce, i win .	<u> </u>	City	land.	200		
Species Found?	s 🗆 No			1999	Cunc SI	70		-
Species Found?	\$ []NO		If not, why (if reason known	own or suspecte	ed)?			
Total No. Individuals:	75 1	Exact Estima	ate (use orders of 10, 100 a					
Population/Subpopulation A	a second s		A Exact (based			timata		
	NeaA	- Un		on GPS mappi		unate		
Collection (if not collected p	previously)?	Yes INO	Collected Previously					
If yes:								
	Collector		Collection Number	Museu	um/Herbarium			
I. OBSERVATION AREA	MANAGEMENT	UNIT LOCATIC	0N					
Accuracy of Coordinates/Gl	PS Error: +/-	<1 🗸 me	eters feet					
Observation Location:	6407380.17	1787837.8	36 🗸 State	Plane (feet)	UTM			
	0.01000.11						_	_
Overall Site Quality**	Very Good	d-Excellent	Fair to Good	Poor	L Ve	ery Poor		
Surrounding land use: Disturbances and/or threats of disturbance or percent co Modern fe/high C	over of disturbance if	f possible):	Management Recom			hour	1	
Disturbances and/or threats of disturbance or percent co modern fe/high c grass + forbs	over of disturbance il 30 Ver non-no	f possible):	Management Recom any weed be tested v			hour	11	
Disturbances and/or threats of disturbance or percent co Modern le/high C grass + forbs III. ASSOCIATED SPEC	over of disturbance if 30 Ver 1101-110 CIES	f possible): a five	any weed be tested v	treatm ia pile	ents &	hour	11	
Disturbances and/or threats of disturbance or percent co moderate/high C grass + forbs III. ASSOCIATED SPEC List dominant, subdominant Species'=List all species (sci. n	Sies tand invasive specie	f possible): a fitte es in/near target s te non-native specie	any weed be tested v species observation area as; 'Cover''= % cover of species	trent m tia pille Imanagement cies; Note if col	ents &			
Disturbances and/or threats of disturbance or percent co modera le/high C grass + forbs III. ASSOCIATED SPEC List dominant, subdominant Species'=List all species (sci. r column; if submitted to herbaric	Sies tand invasive specie	f possible): a fitte es in/near target s te non-native specie	any weed be lested v species observation area s; 'Cover''= % cover of spec HM unless otherwise noted	trent m tia pille Imanagement cies; Note if col	ents &		oll.'	Coll.
Disturbances and/or threats of disturbance or percent co modern fe/high C grass + forbas III. ASSOCIATED SPEC List dominant, subdominant Species'=List all species (sci. r column; if submitted to herbaric pecies	Diver of disturbance if <i>BVER MON-Ne</i> DIES t and invasive specie hame). Use * to indicat um, note collection num	f possible): a fitte es in/near target s te non-native specie nber (submit to SDN	any weed be lested y species observation area s; 'Cover''= % cover of species WHM unless otherwise noted Species	trent m tia pille Imanagement cies; Note if col	ents &	cking 'C	oll.'	Coll.
Disturbances and/or threats of disturbance or percent co modera le/high C grass + forbs III. ASSOCIATED SPEC List dominant, subdominant Species'=List all species (sci. r column; if submitted to herbaric	Diver of disturbance if 30 Ver mon-ne DIES t and invasive specie name). Use * to indicat um, note collection num distance	f possible): a file es in/near target s te non-native specie nber (submit to SDN Cover Coll? Coll. # 1 5	any weed be lessed v species observation area as; 'Cover''= % cover of species IHM unless otherwise noted Species # Avena sp.	treatm Ta pille Imanagement cies; Note if col	en to su b t pro- t unit. llected by check	cking 'C	oll.'	Coll.
Disturbances and/or threats of disturbance or percent co Modern Je/high ( grass + forbs III. ASSOCIATED SPEC List dominant, subdominant Species'=List all species (sci. n column; if submitted to herbariu pecies Boownia develop Advance Californ Encomment Sadical	Sites t and invasive specie tame). Use * to indicat um, note collection num	f possible): a file es in/near target s te non-native specie nber (submit to SDN Cover Coll? Coll. # 1 5	any weed be tested v species observation area s; 'Cover'= % cover of species HM unless otherwise noted Species HAVENG Op. H Bromus machine Gromus machine H Bromus diandry	trent m tia pille Imanagement cies; Note if col i). Cassis us	en to su b t pro- t unit. llected by check	cking 'C Cover 15	oll.'	Coll.
Disturbances and/or threats of disturbance or percent of modera le high C grass + forbs III. ASSOCIATED SPEC List dominant, subdominant Species'=List all species (sci. n column; if submitted to herbaric pecies Bromenia clevelor Artennes Californ Trogenum fast californ	SIES t and invasive specie mame). Use * to indicat	f possible): A fitte es in/near target s te non-native specie nber (submit to SDN Cover Coll? Coll. # 1 5 7 3	any weed be tested v species observation area s; 'Cover'= % cover of species HM unless otherwise noted Species HAVENG Op. H Bromus machine Gromus dianding Bromus harde	trent m tia pille Imanagement cies; Note if col i). Ensis	en to su b t pro- t unit. llected by check	cking 'C Cover 15 20 1 1	oll.'	Coll.
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Disturbances and/or threats of disturbance or percent of modern fe/high ( grass + forbs III. ASSOCIATED SPEC List dominant, subdominant Species'=List all species (sci. n column; if submitted to herbariu pecies Blooman cleve for the species cl	Diver of disturbance if BVER MON-MO DIES t and invasive specie hame). Use * to indicat um, note collection num distance	f possible): a + i i + i es in/near target s te non-native specie nber (submit to SDN Cover Coll? Coll. # 1 5 12 12 25	any weed be tested v species observation area s; 'Cover'= % cover of species HM unless otherwise noted Species HAVENA op. H Bomus machine Bomus machine H Bomus diandry H Bomus diandry	trent m trent m tranagement cies; Note if col i). tasis accens	en to se	cking 'C Cover 15 20 1 1	oll.'	Coll.
Disturbances and/or threats of disturbance or percent of modern fe/high ( grass + forbs III. ASSOCIATED SPEC List dominant, subdominant Species'=List all species (sci. n column; if submitted to herbariu pecies Blogenia cleve / gra Listopma der lan column; and call the species cleve / gra Listopma der lan column; and call the species cleve / gra Listopma der cleve Column for cle	Diver of disturbance if BVER MON-MO DIES t and invasive specie hame). Use * to indicat um, note collection num distance	f possible): A fitte es in/near target s te non-native specie nber (submit to SDN Cover Coll? Coll. # 1 5 1 1 2 3 12	any weed be tested v species observation area s; 'Cover'= % cover of species HM unless otherwise noted Species HAVENA op. H Bomus machine Bomus machine H Bomus diandry H Bomus diandry	trent m trent m tranagement cies; Note if col i). tasis accens	en to se	cking 'C Cover 15 20 1 1	oll.'	Coll.
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Disturbances and/or threats of disturbance or percent of modern le/high ( grass + forbs II. ASSOCIATED SPEC List dominant, subdominant Species'=List all species (sci. n column; if submitted to herbaric pecies Bloomenia clevelon the series californ Trogenum fast californ Science califor Science californ Science	OVER OF HOM-ME	f possible): a fitte es in/near target s te non-native specie nber (submit to SDN Cover Coll? Coll. # 1 5 7 3 12 25 1 4	any weed be tested v species observation area s; 'Cover'= % cover of species HM unless otherwise noted Species HAVENA op. H Bomus machine Bomus machine H Bomus diandry H Bomus diandry	trent m trent m tranagement cies; Note if col i). tasis accens	en to se	cking 'C Cover 15 20 1 1	oll.'	Coll.
Disturbances and/or threats of disturbance or percent of modern fe/high ( grass + forbs III. ASSOCIATED SPEC List dominant, subdominant Species'=List all species (sci. r column; if submitted to herbaric pecies Bhomania clevelon Advance Californ Troduction Sector Construction Sector Con	Dies Dies tand invasive specie hame). Use * to indicat um, note collection num dia france Corring Corri	f possible): A five es in/near target s te non-native specie nber (submit to SDN Cover Coll? Coll. # 1 5 12 12 12 12 12 12 14 1 1 1 2 3 12 25 1 4 1 2 2 3 12 2 5 1 4 2 2 2 2 2 2 2 2 2 2 2 2 2	any weed be tested v species observation area os; 'Cover'= % cover of species HM unless otherwise noted Species HAVENA Op. H Bomus machina Bomus diandry Conchus op. Sipa palchra Bodecontheon c Callium angus	trent m ina poile Imanagemen cies; Note if col i). Imais acceus tere fan du tife lium	en to en of prog t unit. llected by check	cking 'C Cover 15 20 1 1 1 1 1 1	oll."	
Disturbances and/or threats of disturbance or percent of grass + forbs III. ASSOCIATED SPEC List dominant, subdominant Species'=List all species (sci. n column; if submitted to herbariu pecies Beregia Carelon Listopma numiestic Column; of submitted to herbariu pecies Beregia Carelon Listopma numiestic Column; of submitted to herbariu pecies Beregia Carelon Column; of submitted to herbariu pecies Beregia Carelon Column; of submitted to herbariu pecies Column; of submitted to herbarius Column; of submitted to herbarius Col	Over of disturbance if 30 Ver Mon-Ma CIES t and invasive specie hame). Use * to indicat um, note collection num dist fragentiation CORING CORING CORING CORING CORING CORING CORING CORING CORING CORING	f possible): A five es in/near target s te non-native specie nber (submit to SDN Cover Coll? Coll. # 1 3 12 25 12 12 12 12 12 12 12 12 12 12	any weed be tested v species observation area os; 'Cover'= % cover of species HM unless otherwise noted Species H Bomus of andre Bomus diandry Bomus hade Conchus go. Sipa palchra Bodecontheon c Callium agus	trent m trent m tranagement cies; Note if col i). tasis accens	en to se	cking 'C Cover 15 20 1 1 1 1 1 1 1 2 1 2 20 1 1 1 20 1 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 20 1 20 20 20 20 20 20 20 20 20 20 20 20 20	oll.'	CP
Disturbances and/or threats of disturbance or percent of modern fe/high ( grass + forbs III. ASSOCIATED SPEC List dominant, subdominant Species'=List all species (sci. r column; if submitted to herbaric pecies Bhomania clevelon Advance Californ Troduction Sector Construction Sector Con	Over of disturbance if 30 Ver Mon-Ma CIES t and invasive specie hame). Use * to indicat um, note collection num dist fragentiation CORING CORING CORING CORING CORING CORING CORING CORING CORING CORING CORING	f possible): A five es in/near target s te non-native specie nber (submit to SDN Cover Coll? Coll. # 1 5 12 12 12 12 12 12 14 1 1 1 2 3 12 25 1 4 2 2 3 12 2 2 3 12 2 5 1 4 2 2 2 2 2 2 2 2 2 2 2 2 2	any weed be tested v species observation area os; 'Cover'= % cover of species HM unless otherwise noted Species H Bomus of andre Bomus diandry Bomus hade Conchus go. Sipa palchra Bodecontheon c Callium agus	trent m Tia poile Imanagemen cies; Note if col ). Imais accens lenelandu Lifelium evel	t unit. Hected by ched	cking 'C Cover 15 20 1 1 1 1 1 1 1 2 1 2 20 1 1 1 20 1 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 20 1 20 20 20 20 20 20 20 20 20 20 20 20 20	oll.' Coll?	CP
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\*\* Use Trudgen & Keighery Vegetation Condition Scale Descriptions (see back of form or instructions)

Continue on back if needed.

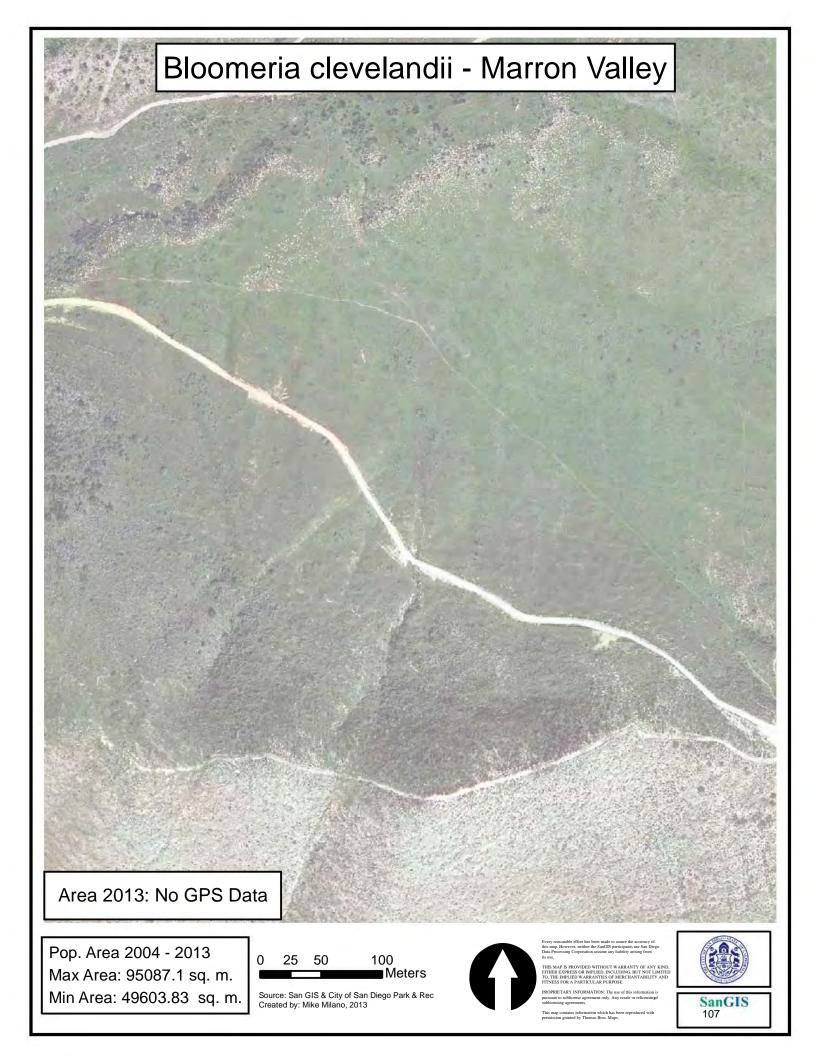
Very Good-Excellent	80-100% Native Flora Composition Vegetation Structure intact or nearly so Cover /abundance of weeds < 5% No or minimal signs of disturbance
Fair to Good	50-80% Native Flora Composition Vegetation structure modified or somewhat modified Cover/abundance of weeds 5-20% any number of 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

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



Panorama from Eastern edge of population, facing Southwest, West, Northwest, North. Panorama location is 6407380.17 1787837.84 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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

Site Name:       Mission Trails Regional Park       Management Unit #: TED         Date:       ####################################	Scientific Name: Bloomeria clevel	landii	Common Name:	San Diego Golde	nstar
Date:       ######       Management Regime: TBD         Surveyors and Affiliation/Agency:       3dby Miller, Kim Recland - Cidy of Okan Bidgs         Species Found?       Yes No       If not, why (If reason known or suspected)?         Total No. Individuals:	Site Name: Mission Trails R	egional Park	Management Unit #:		0.17070
Surveyors and Affiliation/Agency:       Boby Miller, Kim Roule - Cidy of Sur Dispo         Species Found?       Yes       No         If not, why if reason hown or suspected??         Total No. Individuals:			The first of the second s	TBD	1
Species Found?       Yes       No       If not, why (If reason known or suspected)?         Total No. Individuals:		Miller Kin	and the second se		
If not, why (if reason known or suspected)?         Total No. Individuals:		riquite, ister	gound chy	g curcings	
Total No. Individuals:	Species Found? 🗌 Yes 📈 No 🔜		Ward of the life and a large start		
Population/Subpopulation Area:	Total No Individuals: 0	TExact DEstimat			
Collection (if not collected previously)?          Collection (if not collected previously)       Yes       No       Collected Previously         If yes:       Collector       Collection Number       Museum/Herbanum         1. OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Accuracy of Coordinates/GPS Error: +-/					
If yes:       Collector       Collector       Museum/Herbarium         10. OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Accuracy of Coordinates/GPS Error: +/			Exact (based on	GPS mapping)	stimate
1. OBSERVATION AREA/MANAGEMENT UNIT LOCATION         Accuracy of Coordinates/GPS Error: +/	If yes:	Yes No	Collected Previously		
Accuracy of Coordinates/GPS Error: +/<1		and the second second	the second s	Museum/Herbarium	
Observation Location:       6307533.854       1887727.084       Iste Plane (feet)       UTM         II. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT       Vegetation Community: Av&user fractulation Attende - fo@usered fractulation (fuedors) fracting a Collegence (actor attended fractulation)       Milescontresting and the second attended fractulation (fuedors) fracting a Collegence (actor attended fractulation)         Overall Site Quality*       Very Good-Excellent       If Fair to Good       Poor       Very Poor         Surrounding land use:       gene space, transportation       Management Recommendation/s:       On finiculation for threats (be specific, include extent of disturbance if possible):       Management Recommendation/s:       On finiculation for monitors post-basen recovery + evalueate weed treatment if needed         III. ASSOCIATED SPECIES       List dominant, subdominant and invisive species in/near target species observation area/management unit.       Species List at anep. Use * to indicate non-native species; Cover's % cover of species; Note if collected by checking 'Coll.'         Species       Cover Coll? Coll.#       Species Cover Coll? Coll.#       Species Cover Coll? Coll.#         Management function of the species in/near target species observation area/management unit.       Species Cover Coll? Coll.#       Species Cover Coll? Coll.#         Mile Association       Generation       Cover Coll? Coll.#       Species Cover Coll? Coll.#       Species Cover Coll? Coll.#         Mile Association       Genetal s	a second second with the second se	the second se	and a second sec	and the second	
II. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT         Vegetation Community: Notwist fractionary fracting fracting fracting fractionary fractionary fractionary fraction	Accuracy of Coordinates/GPS Error: +/-	<1 / met	ers 🗌 feet		
Vegetation Community: Notingstant flaceulting Million Million Million flaceus for the second flaceus flaceus for the second flaceus flaceus for the second flaceus for the second flaceus fla	Observation Location: 6307533.854	1887727.08	4 State Plan	ne (feet)	м
Vegetation Community: Notingstant flaceulting Million Million Million flaceus for the second flaceus flaceus for the second flaceus flaceus for the second flaceus for the second flaceus fla	IL GENERAL HABITAT DESCRIPTION	AND THREATS AS	SSESSMENT		
Landowner/Manager: <u>City of San Diego Park and Recreation</u> Overall Site Quality** Uvery Good-Excellent Fair to Good Poor Vvery Poor Uvery Poor Disturbance or percent cover of disturbance if possible): <i>Ligh Cover MVG</i> Management Recommendation/s: <i>Continue to Maniferre post-burn recovery + evaluate weed treatment if needed</i> MI. ASSOCIATED SPECIES List dominant and invasive species in/near target species observation area/management unit. Species*List all species (circumed) to species; Note if collected by checking Coll.* Solumn; if submitted to herbarum, note collection number (submit to SDNHM unless otherwise noted).  pecies Cover Coll? Coll. # Species*List Confirmed Cover Coll? Coll. # Species*List Action of Species in the species (cover Coll? Coll. # Cover Coll? Coll. # Species*List Confirmed Cover Coll? Coll. # Species*List Action Cover Coll? Cover Coll? Coll. # Species*				ASCHULATUM/ARSENESIA (	NUTEPNICA CONVIT MEL
Overall Site Quality**       Very Good-Excellent       I Fair to Good       Poor       Very Poor         Surrounding land use:       Over Spece, than portation       Management Recommendation/s:       Over Poor         Obsturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible):       Management Recommendation/s:       On finue the manifum post-baum recovery + evaluate weed treatment if needed         II. ASSOCIATED SPECIES       III. ASSOCIATED SPECIES       Species in/near target species: Over's % cover of species; Note if collected by checking 'Coll':         I.I. ASSOCIATED SPECIES       Ist dominant and invasive species in/near target species: Cover's % cover of species; Note if collected by checking 'Coll':         I.I. ASSOCIATED SPECIES       Ist dominant and invasive species in/near target species: Cover's % cover of species; Note if collected by checking 'Coll':         I.I. ASSOCIATED SPECIES       Ist dominant mode invasive species in/near target species: Store's % cover of species; Note if collected by checking 'Coll':         I.I. ASSOCIATED SPECIES       Ist dominant mode invasive species: Cover's % cover of species; Note if collected by checking 'Coll':         I.I. ASSOCIATED SPECIES       Ist dominant mode invasive species: Cover's % cover of species; Note if collected by checking 'Coll':         I.I. ASSOCIATED SPECIES       Ist dominant mode invasive species: Cover 'Coll' Coll. #         I.I. ASSOCIATED SPECIES       Ist dominan and planus target species: Cover 'Coll' Coll. #					Asso
Surrounding land use: <u>open space, transportation</u> Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible): high cover MMG Will ASSOCIATED SPECIES List dominant, subdominant and invasive species in/near target species observation area/management unit. Species List all species (sci. name). Use * to inflicate non-native species; Cover <sup>-</sup> % cover of species; Note if collected by checking 'Coll.' Species List all species (sci. name). Use * to inflicate non-native species; Cover <sup>-</sup> % cover of species; Note if collected by checking 'Coll.' Species List all species (sci. name). Use * to inflicate non-native species; Cover <sup>-</sup> % cover of species; Note if collected by checking 'Coll.' Species Cover Coll? Coll. # Species in/near target species observation area/management unit. Species Cover Coll? Coll. # Species in/near target species observation area/management unit. Species Cover Coll? Coll. # Species in/near target species conservation area/management unit. Species Cover Coll? Coll. # Species in/near target species conservation area/management unit. Species Cover Coll? Coll. # Species in/near target species conservation area/management unit. Species Cover Coll? Coll. # Species in/near target species conservation area/management unit. Species Cover Coll? Coll. # Species in/near target species conservation area/management unit. Species Cover Coll? Coll. # Species in/near target species conservation area/management area in the species in/near target conservation area information area information area information area information area information area information in the species in/near target conservation area information area inf				Poor D	/erv Poor
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V. SITE PHOTOMONITORING         Camera type:       PENTAX       PENTAX       PENTAX       PID       W90         3307533.854       1887727.084       SE, E, NE, N       1.1 m       Level       1241-126       S/OS/MSCP         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       V.       OTHER FIELD NOTES       V.       V.       V.       V.	II. ASSOCIATED SPECIES List dominant, subdominant and invasive spe Species'=List all species (sci. name). Use * to indivision of the species indivision of the species of	e if possible): ecies in/near target sp icate non-native species number (submit to SDNF Cover Coll? Coll. # 25 7 5 1 3	continue to ma recovery + even treatment if n becies observation area/ma s; 'Cover"= % cover of species; Hunless otherwise noted). Species Brudogna-phalium Malacothamnus Helian themum St Stipa pulchro Brachypedium d Bromus madailea	nagement unit. Note if collected by che function icum function icum function icum	ecking 'Coll.' Cover Coll? Coll. # / / 7 / 7
S307533.854       1887727.084       SE, E, NE, N       1.1 m       Level       1241-126       S/OS/MSCP         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         // OTHER FIELD NOTES       //       OTHER FIELD NOTES       //       OTHER FIELD NOTES       //	II. ASSOCIATED SPECIES List dominant, subdominant and invasive spe Species'=List all species (sci. name). Use * to indivision solumn; if submitted to herbarium, note collection in pecies Acting of a ber Adeno Somo fascicula ta Afemesia californica Malosma tauccina Socoma menziesii Minulus aurontiacus Baccharia Sarothroides	e if possible): ecies in/near target sp icate non-native species number (submit to SDNF Cover Coll? Coll. # 25 7 5 7 5 7 5 7 5 7 5	continue to ma recovery + even treatment if r becies observation area/ma s; 'Cover"= % cover of species, Hu unless otherwise noted). Species Brudogna-phalium Malacothamnus Helian themum St Stipa pulchra Stipa pulchra Bromus madoffra Bromus hordacce	nagement unit. Note if collected by che function icum function icum function icum	ecking 'Coll.' Cover Coll? Coll. # / / 7 / 7
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Other Field Notes/Comments:	III. ASSOCIATED SPECIES         List dominant, subdominant and invasive spe         Species'=List all species (sci. name). Use * to indiction in the submitted to herbarium, note collection in pecies         Acmispen glaber         AdenoStant fasciculata         Arfemesia         Californice         Malosana         Malosana         Association         Jacosana         Antenesia         Californice         Malosana         Macharia sarathroides         Manh macricarpuis         V. SITE PHOTOMONITORING         Camera type:         PENTAX         Gator [State Plane (ft)]	e if possible): ecies in/near target sp cate non-native species number (submit to SDN/ Cover Coll? Coll. # 25 7 3 1 3 1 3 1 3 1 3 1 5 5 7 5 7 5 7 7 5 7 7 5 7 7 7 5 7	Continue to ma recovery + even treatment if n pecies observation area/ma ; 'Cover'= % cover of species; Hu unless otherwise noted). Species Reudogna-phalinm Malacothamnus Helian the mun Si Stipa pulchra Bromus madrifica Bromus hordacces Avena karbata	nagement unit. Note il collected by che decided nagement unit. Note il collected by che discrimination roparium listachyen nis sp. rubens us Angle <u>124-12</u> Photo #	ecking 'Coll.'
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\*\* 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

o lo cover 17

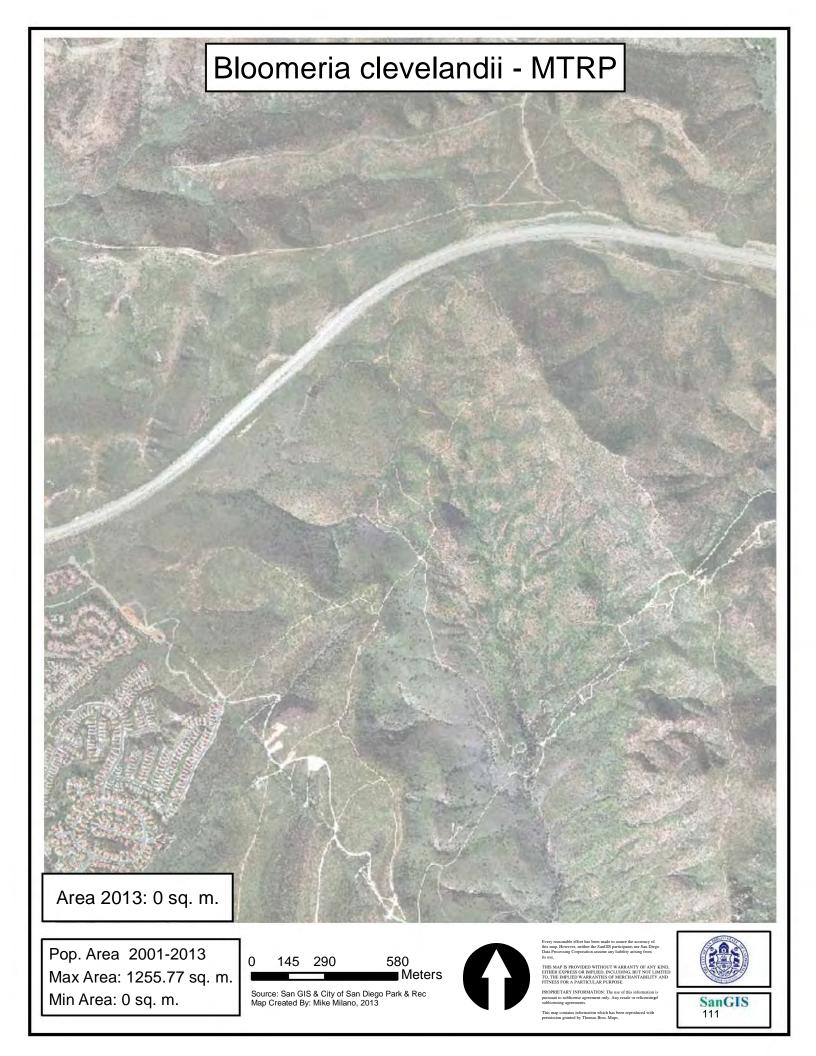
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\$ Festuce myuros
\$ Eredium sp.
\$ Bromus d'andrus
\$ Bodecantheon denelardie 7

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## Bloomeria clevelandii (San Diego Goldenstar) Mission Trails Regional Park



Panorama from Northwestern edge of population, facing Southeast, South, Southwest, West, Northwest, North. Panorama location is 6307533.854 1887727.084 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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

The sub-			States and a state of the second			-	
Scientific Name: Bloomeria cleve	landii		Common Nan	ne: San D	iego Golden	star	
Site Name: Otay Lakes- E C	Obs 1		Management	Unit #: TBD			
Date: Okla	and the second s		Management	Regime: TBD			1.0.1
Surveyors and Affiliation/Agency:	Miller .	Kim	Roeland 1	Mike Milan	10 -		
	1	-1-11	/ /	City	aldena	Dieg	0
Species Found? Yes No		-	If not why (if rea	ason known or suspec	/	/	
Total No. Individuals: [	Exact	Estimate		, 100 and 1000 for e		shot	point
Population/Subpopulation Area:	_	Units		(based on GPS mapp	oing) 🗌 Est	timate	
If yes:	Yes No		Collected Previous	У		_	
Collector		C	blection Number	Muse	um/Herbarium		
I. OBSERVATION AREA/MANAGEMEN Accuracy of Coordinates/GPS Error: +/- Observation Location: 6357208.466	<u>&lt;1</u> 1807	√ mete 7472.481	rs 🗌 feet	State Plane (feet)	тм		
Landowner/Manager: <u>City of San Diego</u>	ENFIESI Public Utilities	Allia		<u>sma men</u> 1                          Poor		ASS( ery Poor	
Disturbances and/or threats (be specific, incl of disturbance or percent cover of disturbance moderate cover non-nat. + grass	e if possible):	la la	a 1:	e to monie - treating	for an	d an	7
III. ASSOCIATED SPECIES				and the second s			
List dominant, subdominant and invasive spe Species'=List all species (sci. name). Use * to ind column; if submitted to herbarium, note collection	icate non-native	species,	'Cover"= % cover	of species; Note if co		cking 'C	coll."
Species	Cover Coll?	Coll. #	Species			Cover	Coll? Coll. #
Bloomeria cherelandii	1		Stepa or			3	
Erroganum faxiculatum	10	1	Sierynchi	in bellien		5	
Acmispon glaker	5		Zettalon 1			1	
Zocoma minziesii	7	-	Conchus a	is glabra		10	
Peritoma, arborea Deinandra fascicula ta	12	1	Endium			40	
Calochartus splendens	1	1		merascen		5	
Enginghum aristula tum	1	4	Bomus			35	
IV. SITE PHOTOMONITORING Camera type: Pentrix Opt	io Wad		and the second		- 1º - 3 -	1	
6357208.466 1807472.481 Location [State Plane (ft)]	NW, N Direction (f	acing)	1.1 m Height	5* down Camera Angle	157-162 Photo #		OS/MSCP e location/s
Location [State Plane (ft)]	Direction (f	acing)	Height	Camera Angle	Photo #	File	e location/s
V. OTHER FIELD NOTES		set.					
here here	T 1.116	01	har hat				1.1
Other Field Notes/Comments: DD N	T LOUE	4	GIPS DATA				

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

Modified Trudgen & Keighery Vegetation Condition Scale

Vary 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

\* Bomus madritensis sop. rubens \* Lepidium op. \* Festuca myunos

¥.,

o/o cover 15

1

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### Bloomeria clevelandii (San Diego Goldenstar) Otay Lakes Observation # 1



Panorama from Northeastern edge of population, facing Northwest, North. Panorama location is 6357208.466 1807472.481 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

Multiple Species Conservation Program (MSCP) Rare Plant Field Survey Fo	rm
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Scientific Name: Bloomeria	a cievelandii	Common Nam	c. Our Dic	ego Goldensta	E.	
Site Name: Otay Lake	es- E Obs 2	Management I	Jnit #: TBD	20.2		-
Date: 5/2/13		Management I	Regime: TBD			-
Surveyors and Affiliation/Agency:	Betsy Miller,	Kim Roeland,	Mike Milan	0-		
			City of	San Dieg	0	
Species Found? Yes No	_ lete in sea	oon - BICI Seen	sced	/	-	-
			son known or suspecte	d)? total	1000	est=
Total No. Individuals:	Exact	Estimate (use orders of 10,				001
Population/Subpopulation Area:	·	Exact (	based on GPS mappir	ng) 🗹 Estima	te d	ta
Collection (if not collected previously)' If yes:	? 🗌 Yes 🗹 No	Collected Previously				
Collector	-	Collection Number	Museu	m/Herbarium	_	
. OBSERVATION AREA/MANAG	EMENT UNIT LOC	ATION		1	100	F 70
Accuracy of Coordinates/GPS Error:	Construction of the State of Construction of the	✓ meters  ☐ feet				
Observation Location: 6356421.86	180	7483.77	State Plane (feet)	□ итм		
					-	
I. GENERAL HABITAT DESCRIP	statutes where some a statute of the law of	the second se	10	-	-	T to be
		INCE/ ISOCOMA M	ENZIESII PROV	ISIONAL AS	SOCIA	non
Landowner/Manager: <u>City of San</u>	Diego Public Utilities	Dept.				
Overall Site Quality**	Very Good-Excellent	Fair to Good	Poor	Very F	Poor	
Surrounding land use:	spane					
	1					
Disturbances and/or threats (be speci of disturbance or percent cover of dist moderate cover NNC :	turbance if possible):		mon itoring	* trea	1	
of disturbance or percent cover of dist	turbance if possible):		ecommendation/s: monitoring onecded	+ Area	1	
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III. ASSOCIATED SPECIES	turbance if possible):	rget species observation species; 'Cover''= % cover	mon itoring to needed area/management of species; Note if coll	unit.		
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of disturbance or percent cover of dist         Moderate cover NWC         Mil. ASSOCIATED SPECIES         List dominant, subdominant and invas         Species'=List all species (sci. name). Use         column; if submitted to herbarium, note col         pecies         Bloomeric clevelandiculate         Zooma monzuciu         Acmispan ghaer         Disganium fanciculate         Trisganium fanciculate         Linge choerte glama         Drisganium fanciculate         Drisganium fanciculate         Trisganium fanciculate         Drisganium fanciculate	turbance if possible):	Continue areads a rget species observation species; 'Cover'= % cover o SDNHM unless otherwise Coll. # Species Cyrcuta & Gromus A Bromus A	mon itoring area/management of species; Note if coll noted). accidentation reastris deaceus serestris aristu/atu m be/hem p. hyuros	unit. lected by checking Cov Sp. 1 Sp. 1 S M 3 1 2 M 3 1 2	g 'Coll.' ver Coll?	
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of disturbance or percent cover of dist         Moderate cover NNC         Mil. ASSOCIATED SPECIES         List dominant, subdominant and invas         Species'=List all species (sci. name). Use         column; if submitted to herbarium, note col         pecies         Bomeric cleveland, ij         Science cleveland, ij	turbance if possible):	Continue areads a rget species observation species; 'Cover"= % cover o SDNHM unless otherwise Coll. # Species Coll. # Species Coll. # Species Coll. # Species Coll. # Species Contract & Sportuge & Sportuge Sportuge Sportuge Contract & Sportuge Sportuge Sportuge Contract & Sportuge Sportuge Contract & Sportuge Contract & Sportuge & Sportuge Contract & Sportuge &	mon itoring area/management of species; Note it coll noted).	unit. lected by checking Cov 21 1 Sp. 1 55 1 1 2 1 2 1 2 1 2 1 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 2 1 2	g 'Coll.' ver Coll? no 7	ISCP
Moderate cover of dist         Moderate cover NNC         Moderate cover NNC         Mil. ASSOCIATED SPECIES         List dominant, subdominant and invas         Species'=List all species (sci. name). Use         column; if submitted to herbarium, note col         species         Bomeric cleveland, ij         Species         Bomeric cleveland, ij         Scorma moneciaii         Acmispon ghaser         Spinganium fasciculata         Trisganium fasciculata         Species         W. SITE PHOTOMONITORING         Camera type:         PENTAX OPTIO         6356421.864	turbance if possible):	Continue areads a species; 'Cover''= % cover o SDNHM unless otherwise Coll. # Species Coll. # Species Concuta & Sponies a Sponies a Spon	mon itoring area/management of species; Note it coll noted).	unit. lected by checking Cov 21 1 Sp. 1 55 1 1 2 1 2 1 2 1 2 1 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 2 1 2	g 'Coll.' ver Coll? no 7	ISCP_ation/s
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\*\* Use Trudgen & Keighery Vegetation Condition Scale Descriptions (see back of form or instructions)

Continue on back if needed.

 Very Good-Excellent
 80-100% Native Flora Composition

 Vegetation Structure intact or nearly so
 Cover /abundance of weeds < 5%</td>

 No or minimal signs of disturbance
 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

 Poor
 20-50% Native Flora Composition

 Vegetation structure modified
 Cover/abundance of weeds 5-20% any number of individuals

 Poor
 20-50% Native Flora Composition

 Vegetation structure modified
 Cover/abundance of weeds 20-60% any number of individuals

 Disturbance incidence bigb
 Disturbance bigb

Modified Trudgen & Keighery Vegetation Condition Scale

 Disturbance incidence high

 Very Poor
 0-20% Native Flora Composition

 Vegetation Structure disappeared

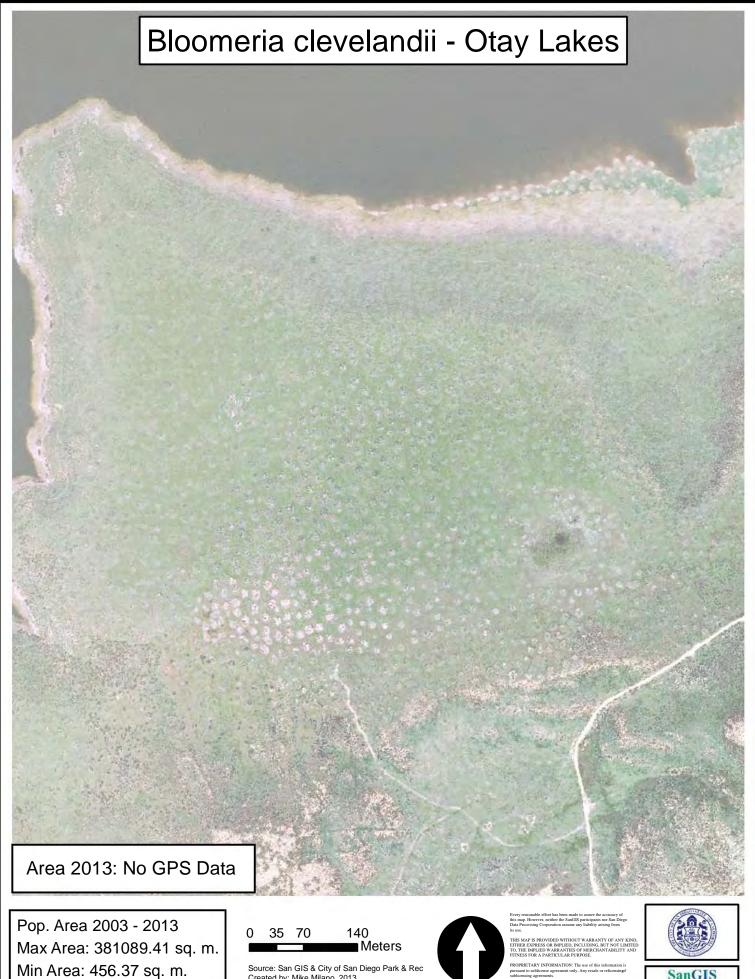
 Cover/abundance of weeds 60-80% any number of individuals

 Disturbance incidence very high

### Bloomeria clevelandii (San Diego Goldenstar) Otay Lakes Observation # 2



Panorama from Southeastern edge of population, facing North, Northeast, East. Panorama location is 6356421.86 1807483.77 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Source: San GIS & City of San Diego Park & Rec Created by: Mike Milano, 2013





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## *Brodiaea orcuttii* Orcutt's Brodiaea



© Scott McMillan, 2001

Scientific Name: Brodiaea Orcut	tii Saaaa		Common N	ame.	Orcutt's	Brodiaea			
Site Name: Carroll Canyon			Manageme	and it is not any	TDB	Diodidod			1-10
Date: 4/23/13			the state of the s	States - Canada - Andrew Street				F	
	1.1.1	,	Manageme			*	- 22	100	
Surveyors and Affiliation/Agency: 30	by Mill	ar A	im Roela	nd, Mik	and the second sec		-	-	-
	• •	1			City	1 of da	nd	iego	
Species Found? Yes No					V	1	_	1	
		1	and the second	reason known					
Total No. Individuals:		Estimat	e (use orders of						
Population/Subpopulation Area: 230.6	7524	m		ct (based on (	GPS mappir	ng) 🗆 Es	timate		
Collection (if not collected previously)?			S Collected Previo		es das	a			
If yes:		· _	concecco rievio	usiy					
Collector		C	ollection Number	_	Museu	m/Herbarium			
I. OBSERVATION AREA/MANAGEMEN	T UNIT LOO	CATIO	N						
Accuracy of Coordinates/GPS Error: +/-	<1	✓ met	ers 🗌 feet						
Observation Location: 6282439.86	190	7633.76	5	State Plan	e (feet)	UTM			
					1.1		<	-	
II. GENERAL HABITAT DESCRIPTION	COLUMN TO A REAL PROPERTY OF THE PROPERTY OF T	-		D	1 0		0	-	
Vegetation Community: Deinandra fac			ional Alliance	e, Leina	ndra ta	sciculato	AAS	CCIC	100
Landowner/Manager: City of San Diego I	Park and Rec	reation		-					
Overall Site Quality**	ood-Excellent		Fair to Go	Dod E	Poor	V	ery Poo	r	
Surrounding land use:	no node	dent	ial, mo						
Disturbances and/or threats (be specific, inclu			Managemen	/			_	_	
moderate cover NNG-			mitigo	tion p	njec	+			
III. ASSOCIATED SPECIES									
List dominant, subdominant and invasive spe	cies in/near ta	arget so	ecies observat	ion area/ma	nagement	unit.			-
Species'=List all species (sci. name). Use * to indic	ate non-native	species	; 'Cover"= % cov	er of species;			cking '(	Coll.'	
column; if submitted to herbarium, note collection n Species	Cover Coll?		1	vise notea).		_	Course	Call2	Coll. #
	3	COII. #	Species	1.1 .	-1	_	Cover	Colle	COIL
Brodiaea orcattia	3	-	Log fia	filagin	ordes		1	-	-
Depandra, fasciculata	7		Styloc/in	a Ona of	6 Inides		1		1
Selazinella cinenascens	25		Cuscuto		identa		1		
Ertophyllum confertifiorun	43		Chorizant	he polygo	noides	V. kngis	ina	1	
Agog he abramsii	3		Reilocarp	us ares	issimu	co l'	1	-	-
Alandago erecta	3	-		Maritim			1	-	
Navathetia homata	3		asmade	ua sen	enus		2	-	-
IV. SITE PHOTOMONITORING		1	-	the second					
Camera type: PENTXX OPTIO	SCOTT P CO	2.0.00		100.0	-	No. Con		-	
6282439.86 1907633.765	E, SE,		1.1 m	40* down		79-83		OS/M	
Location [State Plane (ft)]	Direction (	facing)	Height	Camera	Angle	Photo #	FI	e loca	tion/s
Location [State Plane (ft)]	Direction (	facing)	Height	Camera	Angle	Photo #	Fil	e loca	tion/s
V. OTHER FIELD NOTES									
		-			-				
Other Field Notes/Comments:		-						-	_
							_		-
		_						_	

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

Continue on back if needed.)

Species

% cover

\* Erodium op.

30

Modified Trudgen & Keighery Vegetation Condition Scale

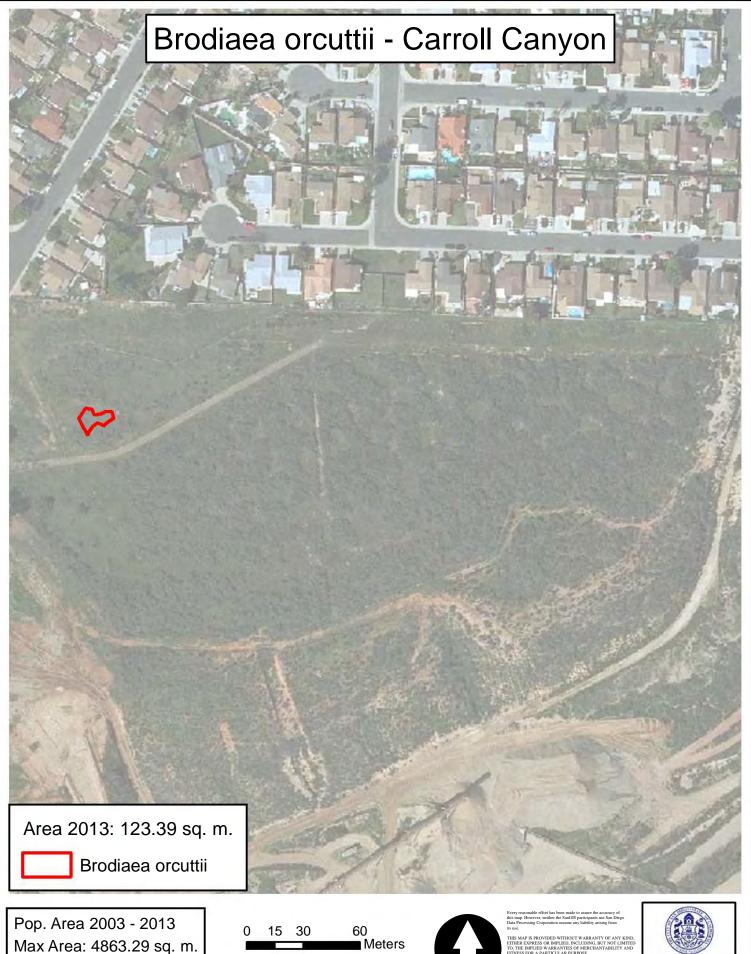
Very Good-Excellent	80-100% Native Flora Composition Vegetation Structure intact or nearly so Cover /abundance of weeds < 5% No or minimal signs of disturbance
Fair to Good	50-80% Native Flora Composition Vegetation structure modified or somewhat modified Cover/abundance of weeds 5-20% any number of 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

% cover Species Navarretia fassalis Dancus pusillus 3 \* Centaurea melitensis 5 \* Hypochaeris glabra \* Erodium op. 10 15 Arlemisia californica 3 Rhammus crocea 3 Adenostoma fasciculateum 20 Erioganum fasciculatum 1 Salvia mellifera 3 Acmispon glaber \* Featuca myuros 55 \* Bomus madrifensis sep. rubens 122 1

## Brodiaea orcuttii (Orcutt's Brodiaea) Carroll Canyon



Panorama from Southern edge of population, facing East, Southeast, South, Southwest. Panorama location is 6282439.860 1907633.765 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Source: San GIS & City of San Diego Park & Rec Created by: Mike Milano, 2013

Min Area: 0 sq. m.

This map contains information which has been repropermission granted by Thomas Brox Mars



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

Scientific Name: Brodiaea orcuttii		S. L. E.	Common	Name: Orcutt's brod	iaea			
Site Name: Lopez Ridge			Managem	ent Unit #: TBD				
Date: 4/23/13	P2		the second se	ent Regime: TBD		200		
Surveyors and Affiliation/Agency:	to Mille	C K						
	y quie	, 00	an gociai			0	204	1
				Log	of dan	Cesn	190	-
Species Found? Yes No			If not why /	if reason known or suspec	C/bot		-	
Total No. Individuals:	MExact	Setimat		of 10, 100 and 1000 for e				
ALL CONTRACTOR INVESTIGATION OF THE PROPERTY O	079109	_ Lound						
Population/Subpopulation Area: 427. 0		Unit	ME	xact (based on GPS map)	ping) 🗌 Es	stimate		
Collection (if not collected are involved)					a			
Collection (if not collected previously)? If yes:			Collected Previ	lously				
Collector		C	ollection Numbe	er Muse	eum/Herbarium			_
I. OBSERVATION AREA/MANAGEME		OITAC	V	Y	and the		1	
Accuracy of Coordinates/GPS Error: +/	the second s	I mete		ŧ.				
			Status	The second s				
Observation Location: 6278246.403		191552	2.734	✓ State Plane (feet)		1		_
<b>II. GENERAL HABITAT DESCRIPTION</b>	AND THRE	ATS AS	SSESSMEN	Т	1	1	0	
Vegetation Community: _ Vernal pool	the state of the s		the state of the s			1		
Landowner/Manager: City of San Diego				any				
	Good-Excellent		Fair to	Rood Poor		ery Poo		
						ery For	и	
Surrounding land use:	re, reard	Vent 1	al			-		
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp								1
Species'=List all species (sci. name). Use * to inc column; if submitted to herbarium, note collection					ollected by che	ecking '	Coll.'	
Species	Cover Coll?		Species	rwise noted).		Cover	Coll?	Coll. #
Bodiaca orcu Hia	12	Com II	1	ella cinerascen		5	Cont	0011.1
Pogogyne abramsei	35			tia hamata	4	4		
Bloomeria develandio	1			phus brevissi	mus	3		
Zettnera venusta,	3			la connata		1		
Dodegan theon chevelandii	12	-	Plantage	erecta		2	-	-
Castilleja esserta osp. essu	Fa 1 5		Logita	filaginoides		4	-	
Demandra farcingata	2	1	Ceochai	mposia danthen	bides	2		-
NU CITE DUOTOMONITODINO	12		Englin	n sp.		2	1	
IV. SITE PHOTOMONITORING Camera type: PENTAX OPTIC	100	-				-	-	
	A 2 A 2				12000			
6278246.4 1915522.7	-	WN.W	<u>1.1m</u>	10*Down	75-99			
Location [State Plane (ft)]	Direction (	racing)	Height	Camera Angle	Photo #	FI	le loca	tion/s
Location [State Plane (ft)]	Direction (	facing)	Height	Camera Angle	Photo #	Fi	le loca	tion/s
	Choolon	Join 19/	-	ournar anglo	, noto ir			
V. OTHER FIELD NOTES	11			and the second	2		-	
Other Field Notes/Comments:						-		_
BLCL	- 1470	est					-	_
								_

\*\* 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 weads < 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

species 2/0 cove \* Hypochaeris glabra Chlorogalum parviflorum \* Bomus hordaceus 10 7 \* Bromus madritensis sop. nikens 5 \* Avena barbata 5 \* Freatura myuros \* Castridium phleoides Opuntia letoralis 3 Acmis pon glaber Malosma laurina 1 3 Adenostoma fasciculatam 20

## Brodiaea orcuttii (Orcutt's Brodiaea) 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.



Multiple Species Conservation Prog	ram (MSCP) Rare	Plant Field	Survey Form
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Coinstific Normal Bradiana arout		-	Common Man	Oreut	Prodiese		
Scientific Name: Brodiaea orcu			Common Nan	100 March 100 Ma	's Brodiaea		
Site Name: Nobel Drive			Management	Unit #: TBD			
Date: 4 23 13			Management	Regime: TBD	5-10-	6	
Surveyors and Affiliation/Agency: Bet	su Miller	Kim	Roeland, N	like Milano			
The base of the state of the st		-		ity of San			and the second
		-	· · · · · · · · · · · · · · · · · · ·	ing di ouri	Diago		
Species Found? Yes No				an Salatin da manada		_	
THE REPORT OF		1		son known or suspec			
		] Estima	te (use orders of 10,	100 and 1000 for e	stimates)		
Population/Subpopulation Area: 0.75	7676 -	M	ts Z Exact	(based on GPS mapp 013 GIS Date	ping) 🗌 Es	timate	
Collection (if not collected previously)?	∃Yes ØN	•	Collected Previously	A REAL PROPERTY FRAME			
Collector		(	Collection Number	Muse	eum/Herbarium		
I. OBSERVATION AREA/MANAGEME	NT UNIT LOO	CATIO	N				
Accuracy of Coordinates/GPS Error: +/-	<1	✓ met					
				Charles Diama (Grant)			
Observation Location: 6271105.37	185	6318.83	4	State Plane (feet)		1	
II. GENERAL HABITAT DESCRIPTION	AND THRE	ATS A	SSESSMENT				
	and the state of t		hal Alliance, De	Contindens Prease	Noto Asci	winte	10
Landowner/Manager: City of San Diego				marter a fascia	yana 17550	Lanc	PK1
		reation		-	_		
Overall Site Quality**	Good-Excellent		Fair to Good	Poor	LV	ery Poor	
Surrounding land use: 6 pen 5 pa	ul Resi	dent	al				
Disturbances and/or threats (be specific, inc				ecommendation/s			
III. ASSOCIATED SPECIES		-					
List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to ind	licate non-native	specie	; 'Cover"= % cover	of species; Note if c		cking 'C	oll."
column; if submitted to herbarium, note collection			The second secon	e noted).		-	
Species	Cover Coll?	Coll. #	Species			Cover	Coll? Coll. #
Navarretia fossalis		_	Deschamps	sia danthor	nioides	5	
Psilocarphus previssimus	10		* Volypogon	monspeliensi	S	1	
Brodiaca orcuttii	3		* Phalans n	ninor		1	
Deinandra fusciculata	1	-	Log tia.	madritensis	noides	1	
cotula australis	1		Bromus	madntensis		1	
Holocarpha virgata elongata	11		+ Erodium	hordeaccus	4	2	
Juncus batonius	2			aens glabt		1	
IV. SITE PHOTOMONITORING	a	1	in apper in	gia bi		12 10 10	
	0000	(An					
Camera type: PENTAX		N90	Look a 1		1		
6271105.37 1896318.834 Location [State Plane (ft)]	NW, W, Direction		1.1 m Height	20* down Camera Angle	100-103 Photo #	-	S/MSCP location/s
	Disastient	factor	- United	Comero Arada	Dhata #		looption
Location [State Plane (ft)]	Direction (	racing)	Height	Camera Angle	Photo #	File	location/s
V. OTHER FIELD NOTES		1000				-	
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
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Very Poor	0-20% Native Flora Composition Vegetation Structure disappeared Cover/abundance of weeds 60-80% any number of Individuals Disturbance incidence very high

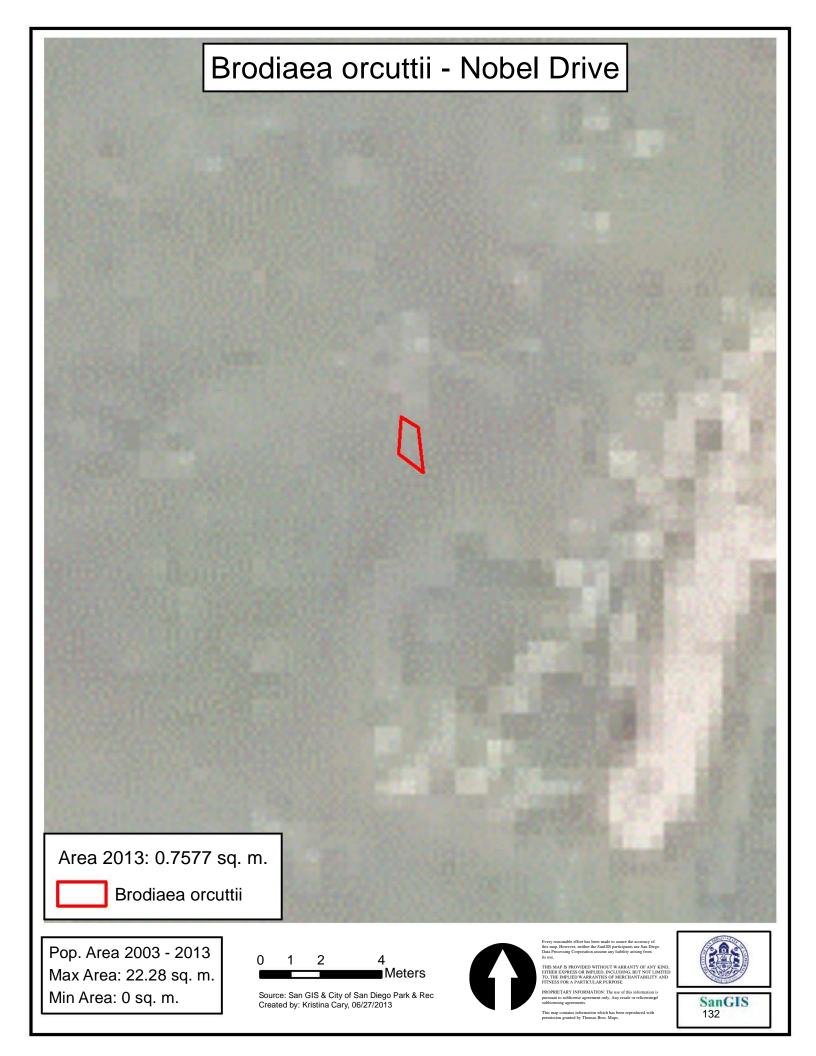
Eriogonum fusciculatum	5
Isocoma menziesii	5
stipa pulchva	3
* Lythnum hyssopifolia	1
* Gastridium phieoldes	l
Pseudognaphalium california	uml
* Avena sp	1
	40

5.1

### Brodiaea orcuttii (Orcutt's Brodiaea) Nobel Drive



Panorama from Northern end of population, facing Southwest, South, Southeast. Panorama location is 6271105.47 1896367.536 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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

Scientific Name: Broo	diaea c <mark>OrCuttii</mark>	Common Name:	Orcutt's Brodiaea	
Site Name: USI	U/Scripps Miramar Ranch	Management Unit #:	TBD	
Date: 4/23/13		Management Regime.	TBD	-
Surveyors and Affiliation/Age	ency: Betsy Miller	Kim Roeland Mik	1. Milano -	
A REAL PROPERTY.	- ).1	Cit	y of Son Bie	191
Species Found? Yes	No	/		/
		If not, why (if reason known	n or suspected)?	
Total No. Individuals:	O	nate (use orders of 10, 100 and	1000 for estimates)	
Population/Subpopulation Area	0 1	2 Exact (based on	GPS mapping)	stimate
		Jnits		
Collection (if not collected previ	ously)? Yes No	Collected Previously		
If yes:	collector	Collection Number	Museum/Herbarium	
I. OBSERVATION AREA/M	ANAGEMENT UNIT LOCATI	ON		
Accuracy of Coordinates/GPS E	And States and the states of States and States and	neters feet		
Observation Location: 6302	393.501 1905898	594 State Pla	ne (feet)	м
II. GENERAL HABITAT DES			hand are all	and here
	WARLS SALETTIROIDES PRO	ISIONAL AUGANCE - MALL	THUS SALOTITO	IDES ASSOCIA
	-	do.	<b>—</b>	and the second second
Overall Site Quality**	Very Good-Excellent	1. [	Poor V	/ery Poor
Surrounding land upor	an			
Surrounding land use: Disturbances and/or threats (be of disturbance or percent cover modurate/high co	specific, include extent of disturbance if possible):	Management Recomme continue to s treat weeds	if Bhan is	found
Disturbances and/or threats (be of disturbance or percent cover modurate/high co III. ASSOCIATED SPECIES	specific, include extent of disturbance if possible): Ver NNC post- 2007 fine	Management Recomme continue to s treat weeds	if BROR is	found
Disturbances and/or threats (be of disturbance or percent cover modurate/high co	specific, include extent of disturbance if possible): Ver NMC post- 2007 fine I invasive species in/near target ). Use * to indicate non-native species	Management Recomme Continue to s then t weeds species observation area/ma ies; 'Cover'= % cover of species	if BROR is	
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Disturbances and/or threats (be of disturbance or percent cover modurate/high co III. ASSOCIATED SPECIES List dominant, subdominant and Species'=List all species (sci. name, column; if submitted to herbarium, n Species Acacia Sp.	specific, include extent of disturbance if possible): Ver NWC poor- Roar fine invasive species in/near target ). Use * to indicate non-native species ote collection number (submit to SD Cover Coll? Coll.	Management Recomme Con Hin we to S treat weeds species observation area/ma sies; 'Cover'= % cover of species ONHM unless otherwise noted). # Species Sisyrinchium	if BROR is	ecking 'Coll.' Cover Coll? Co
Disturbances and/or threats (be of disturbance or percent cover modurate/high co III. ASSOCIATED SPECIES List dominant, subdominant and Species'=List all species (sci. name, column; if submitted to herbarium, n Species Maccharits Sare from	specific, include extent of disturbance if possible): Ver NWC poor- Roort fine invasive species in/near target ). Use * to indicate non-native species ote collection number (submit to SD Cover Coll? Coll.	Management Recomme Con Hin we to s then t weeds species observation area/ma ies; 'Cover'= % cover of species NHM unless otherwise noted). # Species Sistrinchium * Erboijum Sp.	if BROR is anagement unit. s; Note if collected by che	ecking 'Coll.' Cover Coll? Co
Disturbances and/or threats (be of disturbance or percent cover modurate/high co III. ASSOCIATED SPECIES List dominant, subdominant and Species'=List all species (sci. name, column; if submitted to herbarium, n Species Acacia Sp. Daccharts Sare Ano, Malasma Jaurina	specific, include extent of disturbance if possible): Ver NWC poor- Roort fine invasive species in/near target ). Use * to indicate non-native species ote collection number (submit to SD Cover Coll? Coll. 3 10 7	Management Recomme Con Hin we to s treat weeds species observation area/ma sies; 'Cover'= % cover of species NHM unless otherwise noted). # Species Sisterinchium * Erborium Sp. * Contaurea mo	if BROR is anagement unit. s; Note if collected by che be//um	ecking 'Coll.' Cover Coll? Co
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Disturbances and/or threats (be of disturbance or percent cover modurate/high co III. ASSOCIATED SPECIES List dominant, subdominant and Species'=List all species (sci. name, column; if submitted to herbarium, n Species Maccharthe Species (sci. name, column; if submitted to herbarium, n Species Maccharthe Species (sci. name, column; if submitted to herbarium, n Species Maccharthe Species (sci. name, column; autorita) Malasma laugina Egisganum fancicus Shammes oblea Minyulus autoratia;	specific, include extent of disturbance if possible): Ver NMC post- 2007 fine I invasive species in/near target ). Use * to indicate non-native species ote collection number (submit to SD Cover Coll? Coll. 3 Cover Coll? Coll.	Management Recomme Continue to S treat weeds species observation area/ma ies; "Cover"= % cover of species NHM unless otherwise noted). # Species Sisyrinchium * Contaurea * Contau	if BROR is anagement unit. s; Note if collected by che be/hum listensis access	ecking 'Coll.' Cover Coll? Co 5 15 3 70 Second 5 2
Disturbances and/or threats (be of disturbance or percent cover modurate/high co III. ASSOCIATED SPECIES List dominant, subdominant and Species'=List all species (sci. name, column; if submitted to herbarium, n Species Acacia sp. Malasma laugina Egoganum fancicus Reachards Sarothes Malasma laugina Egoganum fancicus Reachards Sarothes Malasma laugina Egoganum fancicus Reachards Sarothes Mannus oblea Mingulus aurantia	specific, include extent of disturbance if possible): Ver NMC post- 2007 fine invasive species in/near target ). Use * to indicate non-native species to indicate non-native species ote collection number (submit to SL Cover Coll? Coll. 3 Cover Coll? Coll. 4 Cover Coll? Coll. 5 Cover Coll? 5 Cover Cover C	Management Recomme Continue to s treat weeds species observation area/ma sies; "Cover"= % cover of species NHM unless otherwise noted). # Species Sisprinchium * Erodium Sp. * Contaurea * Bomus horders * Bomus noters * Bomus diand * Bomus diand	if BROR is anagement unit. s; Note if collected by che be/hum listensis access	ecking 'Coll.' Cover Coll? Co 5 15 3 70 Sens 5
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Disturbances and/or threats (be of disturbance or percent cover modurate/high co III. ASSOCIATED SPECIES List dominant, subdominant and Species'=List all species (sci. name, column; if submitted to herbarium, n Species Acacia sp. Malasma laugina Egoganum fancicus Malasma laugina Egoganum fancicus Malasma laugina Egoganum fancicus Malasma laugina Egoganum fancicus Mannus oblea Mimplus aurantia Sylococe us, bicolo Spinandra fancicus Mimplus aurantia Sylococe us, bicolo Spinandra fancicus Mimplus aurantia Sylococe us, bicolo Spinandra fancicus Mimplus aurantia Sylococe us, bicolo	specific, include extent of disturbance if possible): Ver NWC post- Root fine invasive species in/near target ). Use * to indicate non-native species to indicate non-native species ote collection number (submit to SL Cover Coll? Coll. 3 Cover Coll? Coll. 4 Cover Coll? Coll. 5 Cover Coll? 5 Cover Cover Cov	Management Recomme Continue to S treat weeds species observation area/ma ies; 'Cover'= % cover of species DNHM unless otherwise noted). # Species Sinyrinchium * Contaurea * Bomus Aordea * Bomus Aordea	if BROR is anagement unit. s; Note it collected by che bellum listensis accus ince is spo. ne mus 73-78	ecking 'Coll.' Cover Coll? Col 5 15 3 70 Secon 5 2 3 1
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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

species Arlemisia californica

\* Vicia villosa \* Sonchus asper

Juncus dubins

Lessingia filizanitolia \* Hypochaeris glabra

\* Featuca myuros Armispon glaber Sidalcea sparsifelea

Calystegia macrostegia \* Festuca perennis

% cover

3

.3

2

10

2

## Brodiaea orcuttii (Orcutt's Brodiaea) USIU/Scripps Miramar Ranch



Panorama from Southern end of population, facing Southwest, South, Southeast, East. Panorama location is 6302393.50 1905898.59 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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# *Cylindropunita californica* var. *californica* Snake Cholla



© City of San Diego, 2002

Scientific Name: Cylindropunt	tia californica va	r. califo	ori Common N	lame: Snake	e Cholla			
Site Name: Otay Mesa			Manageme	nt Unit #: TBD	1.1.1.			
Date: 4/30/13		-	Manageme	nt Regime: TBD			-	X
Surveyors and Affiliation/Agency:	Ely Millen	time .			Seal Mana		-	A
	ay cours, c	VIII	actually rai	B.I	1500	): an	1	300
Section Found?				tty	y change	1070		
Species Found? Yes No _			If not why (if	reason known or suspec	S(bet			
Total No. Individuals: 60	Exact	Estimat		10, 100 and 1000 for e				
	547.258045	Ma						
	17. 000 B	Unit	is Ex	act (based on GPS map	ping) 🗌 Es	stimate		
Collection (if not collected previously)?	Yes N	•	Collected Previo	the second set				
If yes:Collector		C	Collection Number	Mus	eum/Herbarium			
I. OBSERVATION AREA/MANAGEM	MENT UNIT LOO	CATIO	N			1		
Accuracy of Coordinates/GPS Error: +/	- <1	[√] met	ers 🗌 feet					-
Observation Location: 6323469.55		9652.06	Contraction of the	State Plane (feet)		4		
0020409.00	<u>m</u>	3032.00						
II. GENERAL HABITAT DESCRIPTI	ON AND THRE	ATS AS	SSESSMENT					
Vegetation Community: Summonds	sia chinensi	3 Alli	ance /sim	mondsia chine	nsis-Ral	100	SIS	
	ego Park and Rec				lacin			alia
	-		Fair to	poor Poor		ery Poo		and a
	ery Good-Excellent		Fair to	Door Poor		ery Poo	N.	
Surrounding land use:	ace	_					_	
			Continue	e to monitor		4		
Moderate cover NNG	pance if possible):		Continue weeds	e to monitor as needed	+ theo	4		
III. ASSOCIATED SPECIES List dominant, subdominant and invasive Species'=List all species (sci. name). Use * to	pance if possible): species in/near to indicate non-native	arget sp	continue weeds pecies observa ;; 'Cover''= % con	tion area/manageme	nt unit.		Coll.*	
III. ASSOCIATED SPECIES	pance if possible): species in/near to indicate non-native	arget sp species to SDNI	continue weeds pecies observa ;; 'Cover''= % con	tion area/manageme	nt unit.	ecking '		Coll. #
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#### Multiple Species Conservation Program (MSCP) Rare Plant Field Survey Form

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

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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

· ....

Species Bahiopsis lacinida Euphorbia misera Stepa pulchra

1.

\* Sisynbrium irio

o/o cover

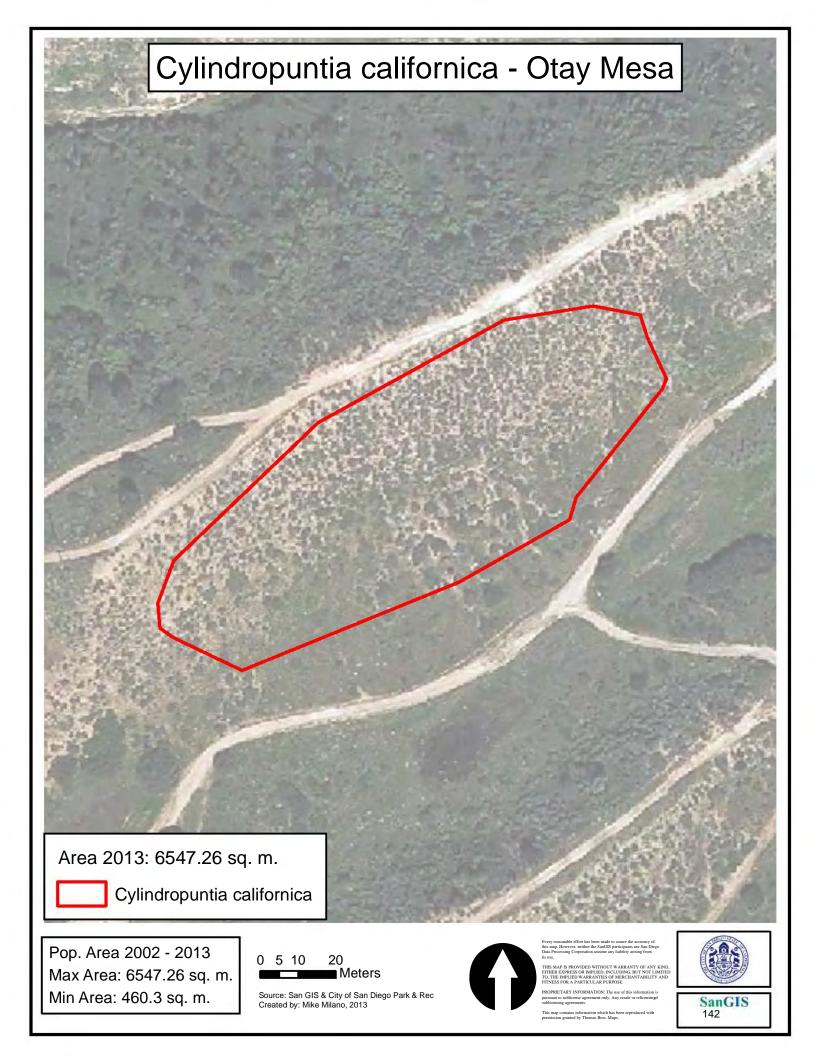
2

140

## 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.



	lifornica va	r califo	ri Common Name: Snake Cholla	13000	
Scientific Name: Cylindropuntia ca Site Name: Spring Canyon	nornica va	. ouno	Management Unit #: TBD		
Date: 4/30/13			Management Regime: TBD	-	
Surveyors and Affiliation/Agency: Retay	. 11 .11.	. 11		1	
Surveyors and Annauon Agency.	Maria,	110	te melano, Suja Magner -	2:0	and the second
7 7	-		Certy of Danc	oreg i	)
Species Found? Yes No		-	If not, why (if reason known or suspected)?	-	
Total No. Individuals: 33	Exact	Estimat	e (use orders of 10, 100 and 1000 for estimates)		
				Estimate	
	215110	Unit	Exact (based on GPS mapping)	Estimate	
Collection (if not collected previously)?	Yes No	• □	Collected Previously		
If yes:					
Collector		C	collection Number Museum/Herbariu	m	
I. OBSERVATION AREA/MANAGEMENT	and the second second	ACCURATE ANALON			
Accuracy of Coordinates/GPS Error: +/-	<1	✓ met	ers 🔲 feet		
Observation Location: 6330060.051	178	1287.69	5 State Plane (feet)	ITM	
II. GENERAL HABITAT DESCRIPTION A	ND THRE	ATS AS	SSESSMENT	-	
			iance Simmondsia Chinensis-	Rahle	DEIS
Landowner/Manager: City of San Diego P				a	100
the second s	od-Excellent	- outron		Very Poo	
			Fair to Good Poor	J very Poo	t.
Surrounding land use: open space	e				
Disturbances and/or threats (be specific, inclue of disturbance or percent cover of disturbance			Management Recommendation/s:		
modera le cover NNE		_	continue to monitor weed + treat as necessary		
III. ASSOCIATED SPECIES	ki			-	
List dominant, subdominant and invasive spec Species'=List all species (sci. name). Use * to indica column; if submitted to herbarium, note collection nu	ate non-native	species	; 'Cover"= % cover of species; Note if collected by a	checking '(	Coll.'
Species	Cover Coll?		Species	Cover	Coll? Coll. #
Cylindpopuntia californica	j		Encelia californica	1	
Cy/incorpuntia prolifera	1		Marah macricaspus	1	
Simmonsia chinensus	15		Ferenchus viridescens	1	
Ambrosia - chenopoditella	10 5	-	Stipa pulchra		
An aller made a set of a			King we are the set of	- 2h	
Artomosis lacing ta			Bromis madritensis sp. ruke	3	
Artomesia californica	7		Bompes madritensis sp. nike. Comunea melifensis Avena barbata.	3	
Artomesia Californica Mirabilis bevis sep. consistentia Euphorbia misera			Centaurea melifensis	3	
Artomesia Californica Mirabilis hevis sop. anasiplia Euphorbia musera IV. SITE PHOTOMONITORING	7 1		Avena barbara	3	
Artomesia Californica Mirabilis bevis sep. consistentia Euphorbia misera	7 1		Avena barbara	3	
Artomesia Californica Mirabilis hevis sop. anasiplia Euphorbia musera IV. SITE PHOTOMONITORING	7 1	, E, SE	Avena barbara	3 1 10 23 S/	OS/MSCP e location/s
Artamesia californica Mira 6//ii bevis sop. conside/ia Explored mission IV. SITE PHOTOMONITOR Camera type: PRATAX OFTIO U90 6330060.051 1781287.695 Location [State Plane (ft)]	N, NE, Direction (	, E, SE facing)	<u>Avera barbara</u> <u>Avera barbara</u> <u>Erodium 5p</u> , <u>1.1 m 5<sup>*</sup> down 118-1-</u> Height Camera Angle Photo	3 1 23 5/ Fil	e location/s
Artomesia californica Miragifii hours sep. conside/fa Explorible mission IV. SITE PHOTOMONITOR Camera type: PRATAX OFTIO U90 6330060.051 1781287.695 Location [State Plane (ft)] Location [State Plane (ft)]	7 ////////////////////////////////////	, E, SE facing)	1.1 m 5t down 118-1-	3 1 23 5/ Fil	
Artomesia californica Mira 6//11 Jacvis sep. conside/11 Zuphorbia mission IV. SITE PHOTOMONITOR Camera type: Pro TAX OFTIO J90 6330060.051 1781287.695 Location [State Plane (ft)] Location [State Plane (ft)] V. OTHER FIELD NOTES	N, NE, Direction (	, E, SE facing) facing)	<u> 1.1 m 5<sup>*</sup> down 118-1-</u> Height Camera Angle Photo	3 1 23 5/ Fil	e location/s
Artomesia californica Miragifii hours sep. conside/fa Explorible mission IV. SITE PHOTOMONITOR Camera type: PRATAX OFTIO U90 6330060.051 1781287.695 Location [State Plane (ft)] Location [State Plane (ft)]	N, NE, Direction (	, E, SE facing) facing)	<u>Avera barbara</u> <u>Avera barbara</u> <u>Erodium 5p</u> , <u>1.1 m 5<sup>*</sup> down 118-1-</u> Height Camera Angle Photo	3 1 23 5/ Fil	e location/s

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

(Continue on back if needed.)

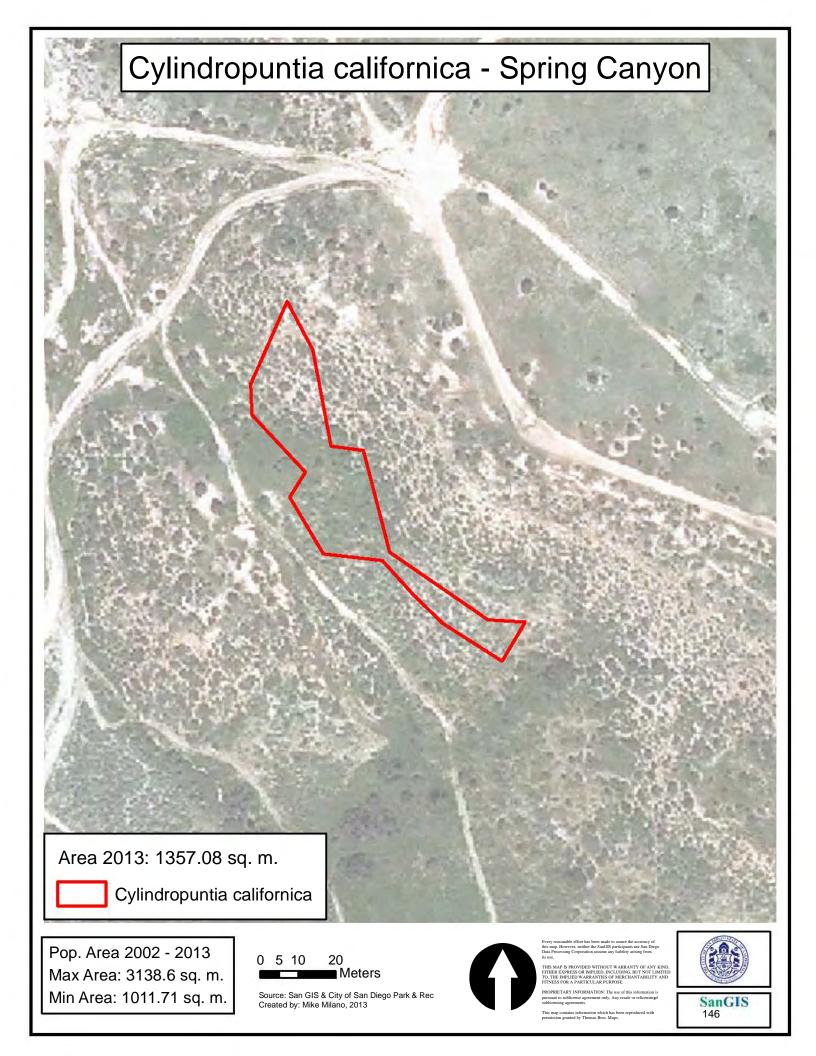
Very Good-Excellent	80-100% Native Flora Composition Vegetation Structure Intact or nearly so Cover /abundance of weeds < 5% No or minimal signs of disturbance
Fair to Good	50-80% Native Flora Composition Vegetation structure modified or somewhat modified Cover/abundance of weeds 5-20% any number of 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

Species Lamarkea aurea 26 cover × \* Lamarkea aurea Deinandra faroiculata \* Brassica nigra \* Brome hordeaceus \* Featuca myunos \* Melilotus alba unt grass 

# Cylindropuntia californica var. californica (Snake Cholla) Spring Canyon



Panorama from Northeastern edge of population, facing North, Northeast, East, Southeast. Panorama location is 6330060.05 1781287.695 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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*Deinandra conjugens* Otay Tarplant



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Date:       Species Found?       Yes       Manage         Species Found?       Yes       Yes       Manage         Total No. Individuals:       O       If not, v         Total No. Individuals:       O       If not, v         Population/Subpopulation Area:       O       Manage         Collection (if not collected previously)?       Yes       Yes         If yes:       Collector       Collection Nu         If yes:       Collector       Collection Nu         I. OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Accuracy of Coordinates/GPS Error:       +/-       <1       Imeters       C         Observation Location:       6321404.87       1791630.28       III. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSM         Vegetation Community:       SIMMONDIA       CHARDIS MUMUE/SIMMOND       SIMMONDIA       SIMMONDIA         Landowner/Manager:       City of San Diego Park and Recreation       Overall Site Quality**       Yery Good-Excellent       Fair         Surrounding land use:       Open Space, remidential       Fair	Any (if reason known or suspected)?   ers of 10, 100 and 1000 for estimates)   Exact (based on GPS mapping)   Exact (based on GPS mapping)   Previously   Imber   Museum/Herbarium     feet   State Plane (feet)   UTM   ENT    State Plane (feet)   UTM   ENT    State Plane (feet)   UTM   ENT    State ClinkExSts - BAIH LopS1s   to Good   Poor   Very   ement Recommendation/s:	ATA ASSEM
Surveyors and Affiliation/Agency: Ref. Miller, Kim Ref. and         Species Found?       Yes         Total No. Individuals:	Angle	ATA ASSEM
Species Found?       Yes       No       If not, v         Fotal No. Individuals:       O       Exact       Estimate (use order or	Any (if reason known or suspected)?   ers of 10, 100 and 1000 for estimates)   Exact (based on GPS mapping)   Exact (based on GPS mapping)   Previously   Imber   Museum/Herbarium     feet   State Plane (feet)   UTM   ENT    State Plane (feet)   UTM   ENT    State Plane (feet)   UTM   ENT    State ClinkExSts - BAIH LopS1s   to Good   Poor   Very   ement Recommendation/s:	ATA ASSEM
If not, v Total No. Individuals: Population/Subpopulation Area: Units Collection (if not collected previously)? If yes: Collector Collector No. Collector Collection No. Collector Collection No. Collector N	ers of 10, 100 and 1000 for estimates)  Exact (based on GPS mapping)  Previously  mber Museum/Herbarium  feet  State Plane (feet)  UTM  ENT  State CHINENSIS - BAIHtopS15  CACLANT  to Good  Poor Very  ement Recommendation/s:	ATA ASSEM
If not, v         Total No. Individuals:	ers of 10, 100 and 1000 for estimates)  Exact (based on GPS mapping)  Previously  mber Museum/Herbarium  feet  State Plane (feet)  UTM  ENT  State CHINENSIS - BAIHtopS15  CACLANT  to Good  Poor Very  ement Recommendation/s:	ATA ASSEM
Population/Subpopulation Area:	Exact (based on GPS mapping)   Previously   Imber   Museum/Herbarium     feet   State Plane (feet)   UTM   ENT   State Clinesis - BAthopSis   State Clinesis - BAthopSis   to Good   Poor   Very   ement Recommendation/s:	ATA ASSEM
Units         Collection (if not collected previously)?         If yes:         Collector         Collection Nu         Collector         Collector         Collector         Collector         Collection Nu         Collector         Collector </td <td>Previously mber Museum/Herbarium feet State Plane (feet) □M ENT ENT ENT ENT ENT ENT ENT ENT</td> <td>ATA ASSEM</td>	Previously mber Museum/Herbarium feet State Plane (feet) □M ENT ENT ENT ENT ENT ENT ENT ENT	ATA ASSEM
If yes:       Collector       Collection Null         OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Accuracy of Coordinates/GPS Error: +/- <1 meters	Imber       Museum/Herbarium         feet	
I. OBSERVATION AREA/MANAGEMENT UNIT LOCATION         Accuracy of Coordinates/GPS Error:       +/-       <1	feet         State Plane (feet)       □ UTM         ENT         SIA       CHINENSIS - BAIH opSISACINI         SIA       CHINENSIS - BAIH opSISACINI         to Good       □ Poor         to Good       □ Poor         ement Recommendation/s:	
Accuracy of Coordinates/GPS Error: +/-       <1	State Plane (feet) UTM ENT SIA CHINENSIS - BAIHIEPSIS CACINI to Good □ Poor □ Very ement Recommendation/s:	
Observation Location:       6321404.87       1791630.28         II. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSM         Vegetation Community:       SIMMONISIA       CHNEWSIS         Jandowner/Manager:       City of San Diego Park and Recreation         Overall Site Quality**       Very Good-Excellent       Fair         Surrounding land use:       Open Opence, residential       Manage         Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible):       Manage	State Plane (feet) UTM ENT SIA CHINENSIS - BAIHIEPSIS CACINI to Good □ Poor □ Very ement Recommendation/s:	
II. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSM         Vegetation Community:       SIMMONISIA       CHINEUSIS       MUNICE       SIMMONISIA         Landowner/Manager:       City of San Diego Park and Recreation         Overall Site Quality**       Very Good-Excellent       Fair         Surrounding land use:       Open Opace, Menidential       Manage         Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible):       Manage	ENT	
Vegetation Community:       SIMMONDSIA       CHINEUSIS       MULLICE       SIMMOND         Landowner/Manager:       City of San Diego Park and Recreation         Overall Site Quality**       Very Good-Excellent       Fair         Surrounding land use:       Overage of the specific, include extent       Manage         Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible):       Manage	to Good Poor Very	
Vegetation Community:       SIMMONDSIA       CHINEUSIS       MULWICE       SIMMOND         Landowner/Manager:       City of San Diego Park and Recreation         Diverall Site Quality**       Very Good-Excellent       Fair         Surrounding land use:       Open Opene, residential       Manage         Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible):       Manage	to Good Poor Very	
City of San Diego Park and Recreation         Overall Site Quality**       Image: I	to Good Poor Very	
Overall Site Quality**       Image: Ima	ement Recommendation/s:	/ Poor
Surrounding land use: <u>open space</u> , <u>residential</u> Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible):	ement Recommendation/s:	
Disturbances and/or threats (be specific, include extent Manage of disturbance or percent cover of disturbance if possible):		
f disturbance or percent cover of disturbance if possible):		
Zone		
III. ASSOCIATED SPECIES		
List dominant, subdominant and invasive species in/near target species obs Species'=List all species (sci. name). Use * to indicate non-native species; 'Cover''= column; if submitted to herbarium, note collection number (submit to SDNHM unless of	% cover of species; Note if collected by check	ing 'Coll.'
pecies Cover Coll? Coll. # Species		over Coll? Coll. #
Contraction of the second	rezia sp.	/
Bahiopsis lacinata 5 * Centra	urea melitensis	1
Encelia Californica 3 + Anaga		20
Simmondera chinensis 10 * Flerk	and they are the second s	20
Artenesia californica 25 + Erodi		/
Phus integrifica 3 Cylin Erioganum Association 1 # Bame	des puntia prolifera 1 15 hordeaceus 4	, .
Deinandra fassiculata I	to nor dediction	
/. SITE PHOTOMONITORING		
amera type: PENTAX OPTIO W90		
6321404.87 1791630.28 S, SE, E 1.1 n	n 5* up 478-482	S/OS/MSCP
Location [State Plane (ft)] Direction (facing) Heigh		File location/s
		<b>F</b> 1 1 1
Location [State Plane (ft)] Direction (facing) Heigh	t Camera Angle Photo #	File location/s
Location [State Plane (ft)] Direction (facing) Height. OTHER FIELD NOTES	t Camera Angle Photo #	File location/s

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

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

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## *Deinandra conjugens* (Otay Tarplant) Dennery Ranch



Panorama from Southern edge of population, facing South, Southeast, East. Panorama location is 6321401.87 1791630.28 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Multiple Species Conservation Program	1 (MSCP) Rare Plant Field Surve	y Form
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Scientific Name: Deinandra conj	lugens	Common Name:	Otay Tarplant		
Site Name: Dennery Ranch East		and the second	TBA	1.	
Date: 5/21/13			TBA		100
Surveyors and Affiliation/Agency: Ref	Miller Kim	Roeland. Mike Mila		-	
		Course inche prosta	ter Sand	Diego	
Species Found? Yes No				- ye	
Total No. Individuals: 4500	Exact Estimat	If not, why (if reason known or te (use orders of 10, 100 and 10			
Population/Subpopulation Area: 4493.3	177051 Uni	Exact (based on Gi		Stimate	
Collection (if not collected previously)? If yes:	Yes No	Collected Previously	inite .		
Collector	(	Collection Number	Museum/Herbarium	n	
. OBSERVATION AREA/MANAGEME	NT UNIT LOCATIO	N			
Accuracy of Coordinates/GPS Error: +/	<1 I met	ers 🗌 feet			
Observation Location: 6323139.66	179273	7.03 State Plane	(feet) UT	M	
		RECOMENT		1 1	
II. GENERAL HABITAT DESCRIPTION	and the second		KIC-PAthope	IC I A	1111 1 201
		E/SIMMONDSIA CHING	Wais-Runets	is cat	ASSer
	o Park and Recreation			And share	ind
- Andrews - Independent -	Good-Excellent		Poor .	Very Poor	
Surrounding land use:	e, transporta	tion residential			
Disturbances and/or threats (be specific, ind of disturbance or percent cover of disturbance high cover invasine grass	nce if possible):	Management Recommend treat weeds	lation/s:		
II. ASSOCIATED SPECIES	nce if possible):	treat meeds	agement unit.		
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to in	nce if possible):	treat meeds	agement unit.	necking 'Co	<i>1.</i> *
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection	nce if possible):	treat meeds	agement unit.		//.' oll? Coll. #
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection pecies	pecies in/near target species in/near target species in/near target species in/near target species in number (submit to SDN	treat meeds becies observation area/mana s; 'Cover''= % cover of species; N HM unless otherwise noted). Species Centaurga meliter	agement unit. Note if collected by ch	Cover C	
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection pecies Bring the Conjugens Perisona adacted	Decies in/near target sp dicate non-native species number (submit to SDN Cover Coll? Coll. #	treat meeds becies observation area/mana s; 'Cover''= % cover of species; N HM unless otherwise noted). Species Bantaurea meliter Anagallus arverse	agement unit. Note if collected by ch	Cover C 2D 12	
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection pecies Dring the Conjugens Peritoma attacka Simmonduia chinensis	Decies in/near target sp dicate non-native species number (submit to SDN Cover Coll? Coll. #	treat meeds becies observation area/mana s; 'Cover''= % cover of species; N HM unless otherwise noted). Species Bataurea meliter Anagallus arvers Batasica nigra	agement unit. Note if collected by ch	Cover C 2D 12 7	
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection pecies Dring the Conjugens Periform a alberea Simmonobia chinemis Tocoma menzicsii	Decies in/near target species in/near target species in/near target species in/near target species in number (submit to SDN) Cover Coll? Coll. # 7 1 2 3	treat meeds becies observation area/mana s; 'Cover''= % cover of species; N HM unless otherwise noted). Species Centaurea meliter Anagallus arvens Stassica nigra Bymus hordeacea	agement unit. Note if collected by ch	Cover C 2D 12 7 15	
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection pecies Deina da Conjugeas Peritoma alberea Simmonduia chinensis Tocoma menzicsiii Tocoma menzicsiii Tocoma menzicsiii	Decies in/near target sp dicate non-native species number (submit to SDN Cover Coll? Coll. #	treat meeds becies observation area/mana s; 'Cover''= % cover of species; N HM unless otherwise noted). Species Bataurea meliter Anagallus arvers Batasica nigra	agement unit. Note if collected by ch	Cover C 2D 12 7	
II. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection pecies Dina Conjugens Peritoma achorea Simmonolia chinensis Togona menzicsii Togona menzicsii	Decies in/near target syndicate non-native species number (submit to SDN) Cover Coll? Coll. # 7 1 7 3 4 4 1	treat meeds becies observation area/man s; 'Cover''= % cover of species; N HM unless otherwise noted). Species Centaurea meliter Anagalius arvens Stassica negra Stassica negra Anagalius arvens Stassica negra Stassica negra	agement unit. Note if collected by ch	Cover C 2D 12 7 15 15 10 1	
II. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection becies Dring of Conjugens Periforma addates Simmonoduia chinensis Torogonum fasciculatum Ambresia chanopolifelia Stipa pulcha Syrachium kellum	Decies in/near target species in/near target species in/near target species in/near target species in number (submit to SDN) Cover Coll? Coll. # 7 1 2 3	treat meeds becies observation area/man s; 'Cover''= % cover of species; N HM unless otherwise noted). Species Centaurea meliter Anagalius arvens Stassica negra Stassica negra	agement unit. Note if collected by ch	Cover C 2D 12 7 15 15 15 10	
II. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection becies Dring Im Conjugens Periforma addorea Simmonduia chinensis Tocoma menzicsii Tocoma menzicsii Tocom	Decies in/near target species in/near target species in/near target species in number (submit to SDN)  Cover Coll? Coll. #  7  1  7  4  1  1  2  3  4  1  1  2  3  4  1  1  2  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  1  3  4  1  1  1  1  1  1  1  1  1  1  1  1	treat meeds becies observation area/man s; 'Cover''= % cover of species; N HM unless otherwise noted). Species Centaurea meliter Anagalius arvens Stassica negra Stassica negra Anagalius arvens Stassica negra Stassica negra	agement unit. Note if collected by ch	Cover C 2D 12 7 15 15 10 1	
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection pecies Dring the Conjugens Periforma alberta Simmonduia chinensis Tocoma menzicsiii Tocoma menzicsiii	Decies in/near target species in/near target species in/near target species in number (submit to SDN)  Cover Coll? Coll. #  7  1  7  4  1  1  2  3  4  1  1  2  3  4  1  1  2  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  1  3  4  1  1  1  3  4  1  1  1  1  1  1  1  1  1  1  1  1	treat meeds becies observation area/man s; 'Cover''= % cover of species; N HM unless otherwise noted). Species Centaurea meliter Anagalius arvens Stassica negra Stassica negra Anagalius arvens Stassica negra Stassica negra	agement unit. Note if collected by ch	Cover C 2D 12 7 15 15 10 1	
II. ASSOCIATED SPECIES ist dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to in solumn; il submitted to herbarium, note collection pecies Dina da Conjugens Peniforma aborea Simmonduia chinensis Torogonum fasciculatum Ambresia chinepolifalea Stipa pulcha portection dellum V. SITE PHOTOMONITORING Camera type: <u>PIENTAX</u> Office 1792737.03	Decies in/near target species in/near target species in/near target species in number (submit to SDN)  Cover Coll? Coll. #  7  1  7  4  1  1  2  3  4  1  1  2  3  4  1  1  2  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  3  4  1  1  1  3  4  1  1  1  3  4  1  1  1  1  1  1  1  1  1  1  1  1	treat meeds becies observation area/man s; 'Cover"= % cover of species; N HM unless otherwise noted). Species Bata unea meliter Ana gallus arvens Ana gallus	agement unit. Note if collected by ch	Cover C 2D 12 7 15 15 10 1 2	
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection pecies Deina da Conjugens Penishma aborea Simmonduia chinensis Torogonum fasciculatum Ambresia chinepolifalea Signa pulcha Desenction dellum V. SITE PHOTOMONITORING Camera type: PIENTRY. OPTO	Decies in/near target species in/near target species in/near target species in/near target species in number (submit to SDN) Cover Coll? Coll. # 7 1 7 4 1 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	treat meeds becies observation area/man s; 'Cover''= % cover of species; M HM unless otherwise noted). Species Bata unea meliter Ana galius arvent Ana galiu	agement unit. Note if collected by ch	Cover C 2D 12 7 15 15 10 1 2 27 27 5/0	oll? Coll. #
II. ASSOCIATED SPECIES II. ASSOCIATED SPECIES ist dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to in rolumn; if submitted to herbarium, note collection pecies Dring of Conjugens Periodoma above Simmonduia chinensis Torogonum fasciculatum Ambresia chanopolifalea Simmonduia chinensis Torogonum fasciculatum Ambresia chanopolifalea Simmonduia chinensis Torogonum fasciculatum Ambresia chanopolifalea Simmonduia chinensis Torogonum fasciculatum Moresia chanopolifalea Simmonduia chinensis Comeratype: <u>Pierrax</u> Office Camera type: <u>Pierrax</u> Office	Decies in/near target species in/near target species in/near target species in/near target species in number (submit to SDN).	treat meeds becies observation area/man s; 'Cover"= % cover of species; N HM unless otherwise noted). Species Bata unea meliter Ana gallus arvens Ana gallus	agement unit. Note if collected by ch	Cover C 2D 12 7 15 15 15 10 1 2 2 7 7 8/0 File I	OII? Coll. #
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection species Deina da Conjugens Peritoma attacka Simmonduia chinensis Teogonum fasciculatum Ambresia chanopolifalia Stor pulcha Stor pulcha St	Decies in/near target species in/near target species in/near target species in umber (submit to SDN)  Cover Coll? Coll. #  7  1  7  3  4  1  1  2  SW,S,SE  Direction (facing)	treat meeds becies observation area/mana s; 'Cover"= % cover of species; N HM unless otherwise noted). Species Centaurea meliter Anagallus arvens Stassica negra Anagallus arvens Stassica negra Stassica negra Anagallus arvens Stassica negra Stassica negal Stassic	agement unit. Note if collected by ch	Cover C 2D 12 7 15 15 15 10 1 2 2 7 7 8/0 File I	S/MSCP ocation/s
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use ' to in column; if submitted to herbarium, note collection pecies Dring on Conjugens Periforma alberea Simmonolsia chinensis Teocoma menzicsiii Teocoma fillon M. SITE PHOTOMONITORING Camera type: <u>Piertox</u> <u>oproc</u> 6323139.66 <u>1792737.03</u> Location [State Plane (ft)] V. OTHER FIELD NOTES	Decies in/near target species in/near target species in/near target species in umber (submit to SDN)  Cover Coll? Coll. #  7  1  7  3  4  1  1  2  SW,S,SE  Direction (facing)	treat meeds becies observation area/mana s; 'Cover"= % cover of species; N HM unless otherwise noted). Species Centaurea meliter Anagallus arvens Stassica negra Anagallus arvens Stassica negra Stassica negra Anagallus arvens Stassica negra Stassica negal Stassic	agement unit. Note if collected by ch	Cover C 2D 12 7 15 15 15 10 1 2 2 7 7 8/0 File I	S/MSCP ocation/s
of disturbance or percent cover of disturbance or percent cover of disturbance or percent cover of disturbance	Decies in/near target species in/near target species in/near target species in umber (submit to SDN)  Cover Coll? Coll. #  7  1  7  3  4  1  1  2  SW,S,SE  Direction (facing)	treat meeds becies observation area/mana s; 'Cover"= % cover of species; N HM unless otherwise noted). Species Centaurea meliter Anagallus arvens Stassica negra Anagallus arvens Stassica negra Stassica negra Anagallus arvens Stassica negra Stassica negal Stassic	agement unit. Note if collected by ch	Cover C 2D 12 7 15 15 15 10 1 2 2 7 7 8/0 File I	S/MSCP ocation/s

Continue on back if needed.

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

% cover

2

20

/

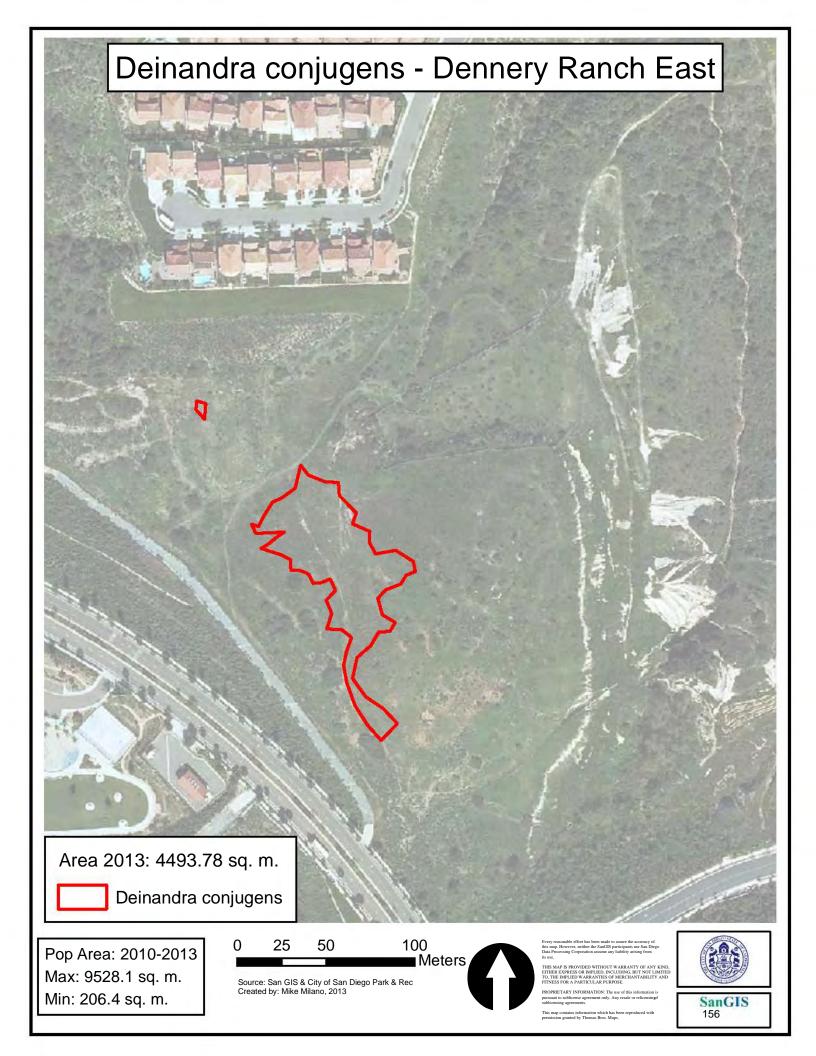
Species \* Thalaris minor \* Featuca perennis \* Thalaris paradoxa

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## Deinandra conjugens (Otay Tarplant) Dennery Ranch East



Panorama from Southern edge of population, facing Southwest, South, Southeast. Panorama location is 6323139.66 1792737.05 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Multiple Species Conservation Prog	ram (MSCP) Rare Plant Field Survey Form
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Scientific Name: Deinandra conju	dens	1000	Common Name:	Otay Ta	arolant		1.5
Site Name: Proctor Valley	gono		Management Unit	and the second second	an prairie		
			Contraction of the second state of the	and the second second			
Date: 5/21/13	-1-11		Management Reg	· · · · · · · · · · · · · · · · · · ·			
Surveyors and Affiliation/Agency	Miller,	Kim	Joeland, Mil		1	0.	-
				- Cet	y of da	n Diego	
Species Found? Yes No				C	0		_
	~ -	1	If not, why (if reason k				
Total No. Individuals:O	Exact	Estimat	e (use orders of 10, 100	and 1000 for est	imates)		
Population/Subpopulation Area:		m2	Exact (base	d on GPS mappin	ng) 🗌 Es	stimate	
		Unit					
	Yes N	•	Collected Previously				
If yes:Collector			ollection Number	Museu	m/Herbarium	-	
	TUNTIO	5000m20400		Widded	minicipation		
I. OBSERVATION AREA/MANAGEMEN	and the second second second second	and the second					
Accuracy of Coordinates/GPS Error: +/-	<1	✓ met			-		
Observation Location: 6353224.493	182	5326.85	8 Stat	e Plane (feet)	UTN	1	
II. GENERAL HABITAT DESCRIPTION	AND THRE		SSESSMENT			220	-
Vegetation Community: Soland MENZ	and the second	stational in the local data in the	the second	PRAVISI	with Acc		-
	and the second se		NON MONCIES	> TICOVISIO	- ASS	union -	
	THE TAXABLE	Dept.			-		
Overall Site Quality**	ood-Excellent		Fair to Good	Poor	Цv	ery Poor	
Surrounding land use:	0						
			treat weeds methodology	aneg a	varia	2	
III. ASSOCIATED SPECIES							
List dominant, subdominant and invasive spe	cies in/near t	arget sp	ecies observation are	a/management	unit.		
Species'=List all species (sci. name). Use * to indi					lected by che	ecking 'Coll.'	
column; if submitted to herbarium, note collection r Species				əa).		Cours Coll2	Call +
Deinandra fasciculata	Cover Coll?	601. #	Species	11		Cover Coll?	COII. #
Amispon gaber	3		Cabohortus S			7	_
Tracom menzio siis	20 .	5	1111	etica		1	
Bacharis sarathorides	1		Ebdjum sp.	cinc		2	
Antemesia californica,	1	4	Centacrea me	litensis		2	
trioganum forsciculatum	1		Allum sp.			1	-
Sisympchium bellum	7	1	Brachypodius	m distach	ion	80	_
Dickelastomma Capitatum	20	. 4	restaca per	annis U	- 20.20		
IV. SITE PHOTOMONITORING			-				
Camera type: PENTAX US90					77933	a anna anna	
6353224.493 18525326.86 Location [State Plane (ft)]	E, SE, Direction (			down mera Angle	<u>500-505</u> Photo #	S/OS/MS File locati	_
Location [State Plane (ft)]	Direction (	facing)	Height Ca	mera Angle	Photo #	File locati	on/s
V. OTHER FIELD NOTES							
	*****************	"	a de mande		1		-
	mparian	are	a to south ne	ar grane	mad		-
	_						-
							<u> </u>

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

Continue on back if needed.

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

Species \* Anena sp. \* Salsola tragus \* Stalsola tragus \* Bransica nigra \* Bromus madrilensis Rutenegia op. % cover 1 <1 ۲/ 1

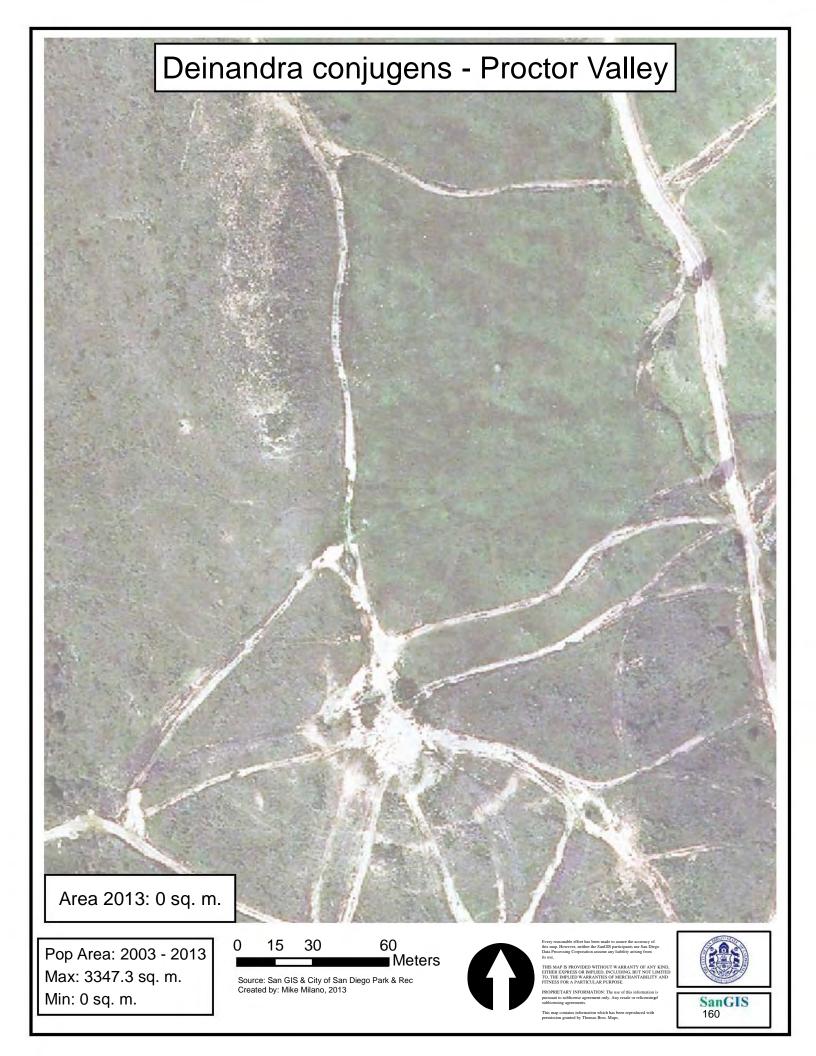
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## *Deinandra conjugens* (Otay Tarplant) Proctor Valley



Panorama from Southeastern edge of population, facing East, Southeast, South. Panorama location is 6353224.49 18525326.86 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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*Dicranostegia orcuttiana* Orcutt's Bird's Beak



© City of San Diego, 2005

Site Name:	Dicranostegia or	cuttiana		Common Name:	Orcutt's Bird's B	leak		
Site Marile.	Otay River Valley	y		Management Unit #:	TBD	-	-	
Date: skalli3				Management Regim	e: TBD		-	
Surveyors and Affiliation	on/Agency: Rota	Miller	Kin	Roeland, Mit	Milano -			
	- Carry	-1-10-)	1 410	many you	Cityol	Lanc	Rieg	x
Species Found?	Yes No				<i>,,</i>	Jany	-9	0
Total No. Individuals:		Exact	]Estimat	If not, why (if reason know te (use orders of 10, 100 and				
Population/Subpopulation	n Area: <u>142</u> ,4	712883	m2 Unit	s 2013 Gps	n GPS mapping)	Estimate		
Collection (if not collected If yes:		Yes VN		Collected Previously				
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\*\* Use Trudgen & Keighery Vegetation Condition Scale Descriptions (see back of form or instructions)

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Continue on back if needed,

11

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

ob cover species Peritoma arborea Pseudognaphalium bicolor \* Festaca myuns \* Bomus madrisensis 3 4 Rhamous crocea 2 Salix op. 7 + Chryson themum cormarium Psuedognaphalium beneolens Laemicia coulteri 2 1 <1

164

## *Dicranostegia orcuttiana* (Orcutt's Bird's Beak) Otay River Valley



Panorama from Southwestern end of population, facing North, Northeast, East. Panorama location is 6316914.07 1794310.86 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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# *Dudleya blochmaniae* ssp. *brevifolia* Short-Leaved Dudleya



© City of San Diego, 2005

Scientific Name: Dudleya blochmar	niae ssp. br	evifolia	Common N	ame: Short-	Leaved Dud	eva	
Site Name: Carmel Mountian-			Manageme	Provide Suprements and the second second second			1
Date: 4/24/13		_	Manageme	A REAL PROPERTY AND A REAL PROPERTY AND		1	
Surveyors and Affiliation/Agency: Surveyors	Miller A	Kim X			isting Ch	2-	-
				City of	Jan Dieg	0	T
Species Found? ZYes No		_	If not upu/if	reason known or suspect	od)2		
Total No. Individuals: 2,490	Exact	Estimate		10, 100 and 1000 for es			
Population/Subpopulation Area: 148.66	,527	M		act (based on GPS mapp		imate	
Collection (if not collected previously)?	Yes No		Collected Previo	and the second second			
Collector		C	ollection Number	Muse	um/Herbarium		
I. OBSERVATION AREA/MANAGEMENT	UNIT LOC	ATION	1				
Accuracy of Coordinates/GPS Error: +/-	<1 [	✓ mete	ers 🗌 feet	23.5 S			-
Observation Location: 6264028.673	1920	613.917	/	✓ State Plane (feet)	Ш ИТМ		
II. GENERAL HABITAT DESCRIPTION A		TS AS	SESSMENT				
Vegetation Community: Adenostoma fas				olor Alliance/Al	denostoma f	acciculatu	m
Landowner/Manager: City of San Diego Pa				1-		Association	
	d-Excellent		Fair to Go	ood Poor		ry Poor	
	LACCHER .					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		_	-				_
Disturbances and/or threats (be specific, includ			Managemen	t Recommendation/s			
of disturbance or percent cover of disturbance	n possible).		1				
none			none				
1000							
							_
III. ASSOCIATED SPECIES			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			TIL	
List dominant, subdominant and invasive speci	es in/near tai	rget sp	ecies observat	ion area/managemer	nt unit.		
Species'=List all species (sci. name). Use * to indica				a construction of the second	llected by chec	king 'Coll.'	
column; if submitted to herbarium, note collection nur Species	Cover Coll?		Species	vise noted).		Cover Coll? C	Coll #
Budlessa blochmaniae sep. 6.	and the second se	COII. #		la cingrascen		20	100. M
Erioganum fasciculatum	3		Pselida 2	naphalium st	amineum	1	
Admostoma fasciculatum	34		Loghta	gallica,		1	
Xylococcus & bicolor	2	-	De de cha	Huon cherela	/	1	-
Erio phyllum, confortiflorum	2		+ Himand	a fasciculat	4	1	-
Opuntia littoralis	1	*	Erodiu	m sp.		1	_
Ferractus viridessens	1	X	Lepidium	Sp.		</td <td></td>	
IV. SITE PHOTOMONITORING		-					
Camera type: Nikon Coolpix	1						_
6264028.673 1920613.917 Location [State Plane (ft)]	SW, W, NW, N Direction (facing)		1.1 m Height	10* down Camera Angle	1279 - 128 Photo #	2 S/OS/MSC File locatio	
Location [State Plane (ft)]	Direction (fa	acino)	Height	Camera Angle	Photo #	File locatio	n/s
V. OTHER FIELD NOTES	C. COLOT (IC		, roight	Contora Anglo	, 1000 #	, no locatio	
Other Field Notes/Comments:							-
	-	-					-
V		-					-
							-

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

Continue on back if needed.

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

pecies cover Osmaderia Scrella Pentagramma triangularis Craasula connata conna ta Rlantago erecta & Bromus madritensis sop. rubens 3 \* Festuca migunos \* Arena barbara Toxico scordion vinenosum Antiminum nuttallianum sup. n. 1 Dichelostemma capitatum bare ground 30

## Dudleya blochmaniae spp. brevifolia (Short-Leaved Dudleya) Carmel Mountain Subpopulation # 1



Panorama from Northwestern edge of population, Southwest, West, Northwest, North. Panorama location is 6264028.67 1920613.92 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



	aniae ssp. Brevifo	lia Common N	ame: Short	-Leaved Dudle	va
Site Name: Carmel Mountain		Manageme	the second of the second se		-
Date: 4/24/13		Manageme	and the second second second		
	Miller A		nd. Carina	kleber.	
	1	cistina Ca	1 0.1	San B	iego
Species Found?					1
Total No. Individuals:537	Exact Estima	and the second	reason known or suspect 10, 100 and 1000 for e		
Population/Subpopulation Area: 61.920		its	ct (based on GPS map	ping) 🗌 Estim	ate
Collection (if not collected previously)?	Yes No [	Collected Previo	a contra to a contra contra		
Collector		Collection Number	Mus	eum/Herbarium	
I. OBSERVATION AREA/MANAGEMEN	T UNIT LOCATIO	the second se	1		
Accuracy of Coordinates/GPS Error: +/-	<1 🗸 me	eters 🗌 feet			
Observation Location: 6265696.736	1920365.4	62	✓ State Plane (feet)	П ИТМ	
II. GENERAL HABITAT DESCRIPTION	AND THREATS A	SSESSMENT		1000	
Vegetation Community: ADENOSTOMA FA	Control of the second state of the second stat		Anna fasquelas	tum Souther	n Maritin
Landowner/Manager: City of San Diego F	Park and Recreatio	n		Assoa	ation
Overall Site Quality**	ood-Excellent	Fair to Go	ord Poor	Very	Poor
	ce				
Disturbances and/or threats (be specific, inclu			t Recommendation/s		
		none			
vernal pool restoration is	progress	none			
III. ASSOCIATED SPECIES	V		1.00		
III. ASSOCIATED SPECIES List dominant, subdominant and invasive spec Species'=List all species (sci. name). Use * to indic	cies in/near target s	species observat	er of species; Note if c		ng 'Coll.'
III. ASSOCIATED SPECIES List dominant, subdominant and invasive spec	cies in/near target s	species observat es; 'Cover''= % cov IHM unless otherv	er of species; Note if c vise noted).	collected by checki	
III. ASSOCIATED SPECIES List dominant, subdominant and invasive spec Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection no Species Pudlema, blockmaniae 350-5	cies in/near target s cate non-native specie umber (submit to SDN Cover Coll? Coll. #	species observal es; 'Cover''= % cov IHM unless otherv Species Plan Cardianz	er of species; Note if c vise noted). Tage erecta Ema rasmos/j	collected by checki	over Coll? Coll.
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III. ASSOCIATED SPECIES List dominant, subdominant and invasive species Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection no Species Dudleya, blochmaniae spect Accession a fascicula fam Erioganum fascicula fam Erioganum fascicula fam Kylcocccus bicolor	cies in/near target s cate non-native specie umber (submit to SDN Cover Coll? Coll. # 15 1	species observat es; 'Cover''= % cov IHM unless otherw Species Plan Cardisa Chorizan Navane Deinande Sejaginen	ter of species; Note if o vise noted). tage erecta the polygonoid in tamata farciaulate concrascen	iollected by checki	over Coll? Coll.
III. ASSOCIATED SPECIES List dominant, subdominant and invasive species Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection no Species Dudleya blochmaniae sport Hockochma fasciculatum Erioganum fasciculatum Kylicoccus bicolog Mimulus aurantiacus Salvia mellifena	cies in/near target s cate non-native specie umber (submit to SDN Cover Coll? Coll. #	species observat es; 'Cover''= % cov IHM unless otherw Species Plan Cardisat Chorizan Navane	ter of species; Note if o vise noted). tage erecta the polygonoid in tamata farciaulate concrascent concrascent	iollected by checki	over Coll? Coll.
III. ASSOCIATED SPECIES List dominant, subdominant and invasive species Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection no Species Dudleya, blochmaniae sport Accho chima fascicula fam Erioganum fascicula fam Erioganum fascicula fam Kylicoccus bicolor Mimulus auran flacus Sakia mellifen Remispon glaber	cies in/near target s cate non-native specie umber (submit to SDN Cover Coll? Coll. # 15 1	species observat es; 'Cover''= % cov IHM unless otherw Species Plan Cardisat Chorizan Navares Deigande Sejande Logria	ter of species; Note if o vise noted). tage erecta ma rasmostic the polygonoid in tomata a fancia late concrascen filagino, des	collected by checki	over Coll? Coll.
III. ASSOCIATED SPECIES List dominant, subdominant and invasive species Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection no Species Dugleya, blochmaniae sep. C Hocks chima fasciculatum Erioganum fasciculatum Kylococcus bicolog Mimulus auron fiacus Cabria mellifera Homispon glaber Hybeline gnaphaloides	cies in/near target s cate non-native specie umber (submit to SDN Cover Coll? Coll. # 15 1	species observat es; 'Cover''= % cov IHM unless otherw Species Plan Cardis A Chorizan Navane Seja and Seja and Seja and Seja and Logfia Kassula	er of species; Note it o vise noted). tage erecta ma rasmosis the polygoneid in tomata facciaclata concrascen lilagino; des musuros	iollected by checki	Dover         Coll?         Coll.           /
III. ASSOCIATED SPECIES List dominant, subdominant and invasive species Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu Species Budleya blochamiae asp. & Machastona fasciaulatum Erroganum fusciaulatum Erroganum fusciaulatum Kylococcus bicolog Mimulus auron flacus Oakia mellifen Memispon glaber Stylocline gnaphaloides IV. SITE PHOTOMONITORING	cies in/near target s cate non-native specie umber (submit to SDN Cover Coll? Coll. # 15 1 1 5 1	species observat es; 'Cover''= % cov IHM unless otherw Species Plan Cardisat Chorizan Navares Deigande Sejande Logria	er of species; Note it o vise noted). tage erecta ma rasmosis the polygoneid in tomata facciaclata concrascen lilagino; des musuros	collected by checki	Dover         Coll?         Coll.           /
III. ASSOCIATED SPECIES List dominant, subdominant and invasive species Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu Species Dudleya, blochanniae sport Hocks chima fascicula fam Erioganum fam Eriogan Eriogan Eriogan Eriogan Eriogan Eriogan Eriogan Eri	cies in/near target s cate non-native specie umber (submit to SDA Cover Coll? Coll. # 	species observat es; 'Cover''= % cov IHM unless otherw Species Plan Cardisa Chorizan Navane Deinande Schorizan Navane Schorizan Karane Schorizan Schorizan Karane Schorizan Scho	ter of species; Note if o vise noted). Tago erecta ma rasmosti the polygonoid ria tamata a farciaclate concrascen filagino, des muns nd	collected by checki	Dover         Coll?         Coll.           /
III. ASSOCIATED SPECIES List dominant, subdominant and invasive species Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu Species Budleya blochamiae asp. & Machastona fasciaulatum Erroganum fusciaulatum Erroganum fusciaulatum Kylococcus bicolog Mimulus auron flacus Oakia mellifen Memispon glaber Stylocline gnaphaloides IV. SITE PHOTOMONITORING	cies in/near target s cate non-native specie umber (submit to SDN Cover Coll? Coll. # 15 1 1 5 1	species observat es; 'Cover''= % cov IHM unless otherw Species Plan Cardisar Chorizan Navane Deinande Schorizan Navane Schorizan Logia Logia bare gmm 1.1 m	er of species; Note it o vise noted). tage erecta ma rasmosis the polygoneid in tomata facciaclata concrascen lilagino; des musuros	collected by checki	over Coll? Coll Coll? Coll Coll Coll Coll Coll Coll Coll Coll
III. ASSOCIATED SPECIES List dominant, subdominant and invasive species Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection no Species Dudleya blochanniae sport Added chima fasciculatum Erioganum fasciculatum Sylococcus bicolog Mimulus auran fiacus Salvia mellifera Remispon glaber Stylocline gnaphaloides IV. SITE PHOTOMONITORING Camera type: Nikon Coolpix 11 6265696.736 1920365.462	cies in/near target s cate non-native specie umber (submit to SDA Cover Coll? Coll. # 	species observat es; 'Cover''= % cov IHM unless otherw Species Plan Cardis A Chorizan Navamer Bejagnade Sejagnade Logfig K Festuch bare gmm <u>1.1 m</u> Height	er of species; Note if o vise noted). Tago erecta ma rasmosti the polygonoid ria tamata fanciaulate concrascen filagino; des ma 10* down	collected by checki	over Coll? Coll.
III. ASSOCIATED SPECIES List dominant, subdominant and invasive species Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection no Species Dudleya blochamiae asp. & Adenostrima fasciculatum Erroganum fusciculatum Sylococcus bicolog Mimulus auron flacus Cahria mellifera Acmispon glaber Stylocline gnaphaloides IV. SITE PHOTOMONITORING Camera type: <u>Nikon Coolpix 11</u> 6265696.736 <u>1920365.462</u> Location [State Plane (ft)]	cies in/near target s cate non-native specie umber (submit to SDN Cover Coll? Coll. # 15 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	species observat es; 'Cover''= % cov IHM unless otherw Species Plan Cardion v Chorizan Navaner Bejande Sejande Sejande Logfia bare gmm <u>1.1 m</u> Height	ter of species; Note if o vise noted). Tago erecta The polygonoid in tamata farciaulata	illected by checki construction constructi	over Coll? Coll.
III. ASSOCIATED SPECIES List dominant, subdominant and invasive species Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection no Species Dudleya, blochamiae sport Hockschima fasciculatum Erioganum fasc	cies in/near target s cate non-native specie umber (submit to SDN Cover Coll? Coll. # 15 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	species observat es; 'Cover''= % cov IHM unless otherw Species Plan Cardion v Chorizan Navaner Bejande Sejande Sejande Logfia bare gmm <u>1.1 m</u> Height	ter of species; Note if o vise noted). Tago erecta The polygonoid in tamata farciaulata	illected by checki construction constructi	over Coll? Coll.

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

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\* .p. 1

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

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## Dudleya blochmaniae spp. brevifolia (Short-Leaved Dudleya) Carmel Mountain Subpopulation # 2



Panorama from Northeastern edge of population, North, Northeast, East, Southeast. Panorama location is 6265696.74 1920365.46 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

# Dudleya brevifolia - Carmel Mountain Subpop 2



Scientific Name: Dudleya blochma	niae ssp. Br	revifolia	a Common N	ame: St	nort-Leaved Du	dleva
Site Name: Carmel Mountain-	and the second second		Manageme	and the strate of the st		
Date: 4/24/13		- 11	and the second s	nt Regime: TE	3D	
Surveyors and Affiliation/Agency: Brity	11.11. 1	. 7				t
Surveyors and Annadon Agency.	quer, N	maa	land, Carrie	19 Adean f	10 7	7
1 -				city	of dan de	rego
Species Found? Yes No	_	_	If not used if	in a set being as at	Chatage	
Total No. Individuals:6636	Exact	Ectimat		reason known or su 10, 100 and 1000		
		LSUIIIdu				
Population/Subpopulation Area: 963.4940		Unit	s Exa	LOIS CAS O	mapping) 🔲 E	stimate
Collection (if not collected previously)?	Yes No	, D	Collected Previo	usly		
Collector		С	ollection Number		Museum/Herbarium	1
I. OBSERVATION AREA/MANAGEMENT	UNIT LOC	OITA	1			
Accuracy of Coordinates/GPS Error: +/-	<1	✓ mete	ers 🗌 feet			
Observation Location: 6265528.098	1920	0724.11	3	State Plane (fe	et) 🗌 UT	M
		ATO 47	OFFORMENT		L. Down	
II. GENERAL HABITAT DESCRIPTION A	IND THREE	ATS AS	DSESSIVIENT	1 1.	11 6	11.
II. GENERAL HABITAT DESCRIPTION A Vegetation Community: ADENOSTOMA F Landowner/Manager: City of San Diego P	BAUMAT	UMA	Manie / Ader	nostema fascic	Marilino	Association
		reation		-	-	
Overall Site Quality**	od-Excellent		Fair to Go	bod 🗆 Po	or L	Very Poor
Surrounding land use:	ce					
Disturbances and/or threats (be specific, include	de extent		Managemen	t Recommendat	ion/s:	
nearby trail is closed	4		3	main	tain tra	il closure
III. ASSOCIATED SPECIES						
List dominant, subdominant and invasive spec						the fact wat we have
Species'=List all species (sci. name). Use * to indica					e if collected by ch	ecking 'Coll.'
column; if submitted to herbarium, note collection nu	1		1	vise noted).		Cover Coll? Coll. #
Species	Cover Coll?	COII. #	Species	11-1		10
Augleya blockmanial sop. b.	20	-	Salvia n	Tum Confer	tillanca	1
Erizganup Lasciculatum	3		Stipa po	likon	1. pierces	</td
Rhuo integrafolia	2		Opuntia	littoralis		1
Kylococous bicolor	2	-		hidigera		1
Minulus aurantiacus	2	_		rich boccon	i	1
Ferocactus Viridescens	1		Codsaul	connata	1	1,
Malosma laurina	3	-	Choricuman	e polygonoi		1111
IV. SITE PHOTOMONITORING Camera type: Nikon Coolpix					longispina	
6265528.098 1920724.116	SE, S, SV		1.1 m	10* down	1271-12	75 SIOSIMSCP
Location [State Plane (ft)]	Direction (1		Height	Camera Ang		
Location (State Diana (6))	Dissetter (	(apinc)	Haiabt	Comore Ar-	Dhata #	Eile legeties/s
Location [State Plane (ft)]	Direction (i	lacing)	Height	Camera Ang	e Photo #	File location/s
V. OTHER FIELD NOTES	1.11			1,	1	1 - al al al l
Other Field Notes/Comments: DUBK 15	estable	shin	g in old	road be	/	
		-				

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

Continue on back if needed.)

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	

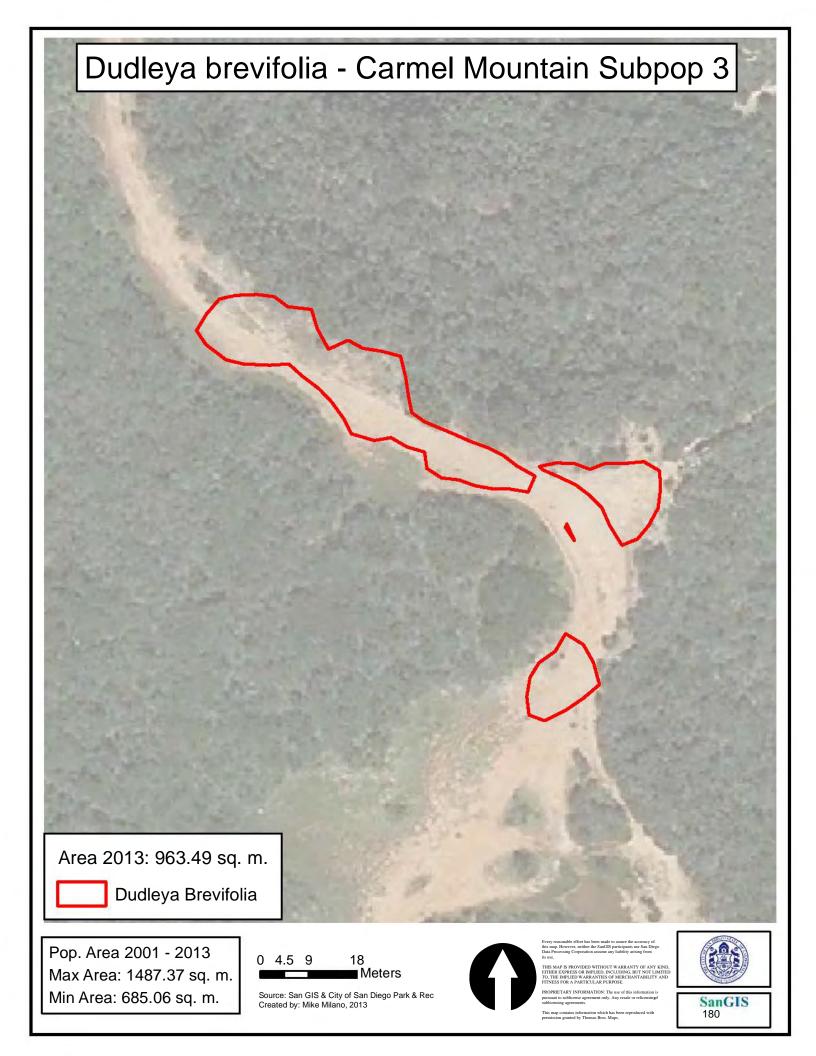
Species.

% cover Deinandra fasciculata Selaginella cinerascens Navarrelia hamata 35 1. \* Featuca myunos 5. \* Bromus madritensis sop. rubens Quercas berberidifolia 1 Toxicoscordion freemontin <1

### Dudleya blochmaniae spp. brevifolia (Short-Leaved Dudleya) Carmel Mountain Subpopulation # 3



Panorama from Southwestern edge of population, Southeast, South, Southwest, West, Northwest. Panorama location is 6265528.09 1920724.12 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



D 1 //C M		15-11	0	0	I D		
Scientific Name: Dudleya blochma	Salt -	srevitoli	Contractor of the local sector of the local se	and the second s	t-Leaved Duc	lieya	
Site Name: Crest Canyon- N	Subpop		Manageme	the second se	1		
Date: 4/24/13				nt Regime: TBD	-	_	
Surveyor's and Affiliation/Agency: Beter	Miller,	Fin	2 Roclan	d, knistina	cans	_	
	Cit	yof	SD	Section and the	-		-
Species Found? Yes No			If not why (if	reason known or suspe	cted)2		
Total No. Individuals: 2874	Exact	Estimat		10, 100 and 1000 for			
Population/Subpopulation Area: 145, 13		no 2				timete	
	1011 -	Unit	s La Exa	act (based on GPS map 2013 GIS Date	oping) 🗋 es	timate	
If yes:	Yes 🕅 N	•	Collected Previo				
Collector		C	ollection Number	Mus	seum/Herbarium		
I. OBSERVATION AREA/MANAGEMEN	T UNIT LO	CATION	1				
Accuracy of Coordinates/GPS Error: +/-	<1	I mete	ers 🗌 feet	Sec. 1.			
Observation Location: 6253917.074	19	28311.1	2	State Plane (feet)	שדט	1	
		ATO 44	OFOOLENT				
II. GENERAL HABITAT DESCRIPTION	A contractor protocolor & the second second	and the second second second			1	17	
Vegetation Community: ADENOSTON			Service and the service se	Southern Man	na tascicul	atum	h
Landowner/Manager: City of San Diego F		reation					
the field is the execution	od-Excellent		Fair to Go	ood Door	Δv	ery Poor	
Surrounding land use: Open Space	e / Res	iden	tral				
Disturbances and/or threats (be specific, inclu of disturbance or percent cover of disturbance Nonc				t Recommendation	5.		
III. ASSOCIATED SPECIES							
List dominant, subdominant and invasive spec	ies in/near t	arnat sa	acies observat	tion area/managem	ant unit		
Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu	ate non-native	species	Cover"= % cov	ver of species; Note if		cking 'C	coll.'
Species	Cover Coll?		Species	vise noteu).		Cover	Coll? Coll. #
Dudleya brevitolia		GON. IF		s auvantia		5	Cont Cont I
Rhus integrifolia	5		chiprou	alum par	ifonm		
Rhamnus ilicitolia	2		Acmi	spon glat	ber	1	
Heteromeles avoutitolia	5		Selagin	ella cineras	ans	15	
Avtumisia californica	5	-	Strai	sulchia		1	
Eriogonum fasciculatum Salvia mellitera	7		Psendo	gnaphaliam	penzolens	2	
Cheondium dumosum	2		March	macrocomp	ins	10	
IV. SITE PHOTOMONITORING			xyjaca	cons succes		-	and a second
Camera type:PENTAX OPT	TO WA	0					
6253917.074 1928311.12	W, NW, N		1.1 m	10* down	1291-1294	C II	DS/MSCP
Location [State Plane (ft)]	Direction (		Height	Camera Angle	Photo #		e location/s
Location [State Plane (ft)]	Direction (	facing)	Height	Camera Angle	Photo #	File	e location/s
V. OTHER FIELD NOTES				1.5			
Other Field Notes/Comments:							
9							

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

Continue on back if needed.

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	B-20% Native Flora Composition Vegetation Structure disappeared Cover/abundance of weeds 60-80% any number of individuals Disturbance incidence very high

Adenostoma fascicalatum	5
Solanum panishil	2
Navanctia hamata	1
Crassula connata	2
Bromus madnitensis	3
Festuca myuros	3
Logfia filaginoides	2
Bare ground	40
Dichondra occidentalis	1
coretningine filagifolia	3

### Dudleya blochmaniae spp. brevifolia (Short-Leaved Dudleya) Crest Canyon – Northern Subpopulation



Panorama from Northeastern edge of population, West, North, East. Panorama location is 6253917.07 1928311.12 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Scientific Name: Dudleya blochma	niao sen B	revifoli	Common N	ame: Short-	Leaved Duo	dlova		-
		eviton	Manageme		Leaved Dut	lieya	-	
	Suppop				-			-
			Manageme		1			-
Surveyors and Affiliation/Agency: Betsy					ber K	nstin	a Le	any
	cityof	f So	an Diec	10				-
Species Found? Yes No		_	If not why (if	reason known or suspec	ed)?	_		
HALLS IN A DUNDER OF AN AND AND AND AND AND AND AND AND AND				10, 100 and 1000 for es				
Population/Subpopulation Area: 31,60	194	M2- Unit	s Exa	act (based on GPS mapp 2013 GIS Da		stimate		
If yes:	Yes No		Collected Previo	usly				
Collector		С	ollection Number	Muse	um/Herbarium		_	_
I. OBSERVATION AREA/MANAGEMENT	T UNIT LOC	ATION	1					
Accuracy of Coordinates/GPS Error: +/-	<1	✓ meter	ers 🗌 feet					
Observation Location: 6253843.223	192	27609.02	2	✓ State Plane (feet)	UTM	1		
						-	_	_
II. GENERAL HABITAT DESCRIPTION A	and the second se	and the second second						
Vegetation Community: Advestoma fee	ciculatur	n All	iance/Ader	astoma farcicula	tum Sou	thern	1	
Landowner/Manager: City of San Diego F	ark and Rec	reation		Ma.	cotime Alla	ance	-	
Overall Site Quality** Very Go	od-Excellent		Fair to Go	od Poor	Пи	ery Poor		
		in la	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-			
Surrounding land use: open space	Treside	entr.	rl.			-	_	
III. ASSOCIATED SPECIES List dominant, subdominant and invasive spec								1
Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu					pliected by che	ecking Co	DII.:	
Species	Cover Coll?		Species			Cover	Coll?	Coll. #
Duckya brevitalia	1		Table of Arts and Art	itegnifolia		10		
Adenostoma fasciculatum	20		Duckley	a tancedata		2		-
cheoridium dumosum	5		Hazardi	a squarpsq		1		1.1
Salvia mellifera	5		Deinana	dra fascicula	ita	1		_
Mimulus aurantiacus	35	-	Xylococo	us bicolor		1	-	_
Eriogonum fasciculatum	2	-	Selagin	ella cinerus cu	ins	5		_
Chanothus Verrulosus Chlorogalum parvisionum	2	-	opunt	- littoralis	dar	1	-	
IV. SITE PHOTOMONITORING		-	2Tyroqi	ine gnaphalor	a.e.	the last		
and a second sec	2 1 1000	-			-		_	-
				11.1.1	E Lana a	100	No. automation	-
6253843.223 1927609.02 Location [State Plane (ft)]	NW, N, I Direction (f		1.1 m Height	5* down Camera Angle	1287-124 Photo #		locati	
Location [State Plane (ft)]	Direction (f	acing)	Height	Camera Angle	Photo #	File	locati	on/s
V. OTHER FIELD NOTES								
Other Field Notes/Comments:								
								-
							_	-
						_		_

Continue on back if needed.

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

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

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

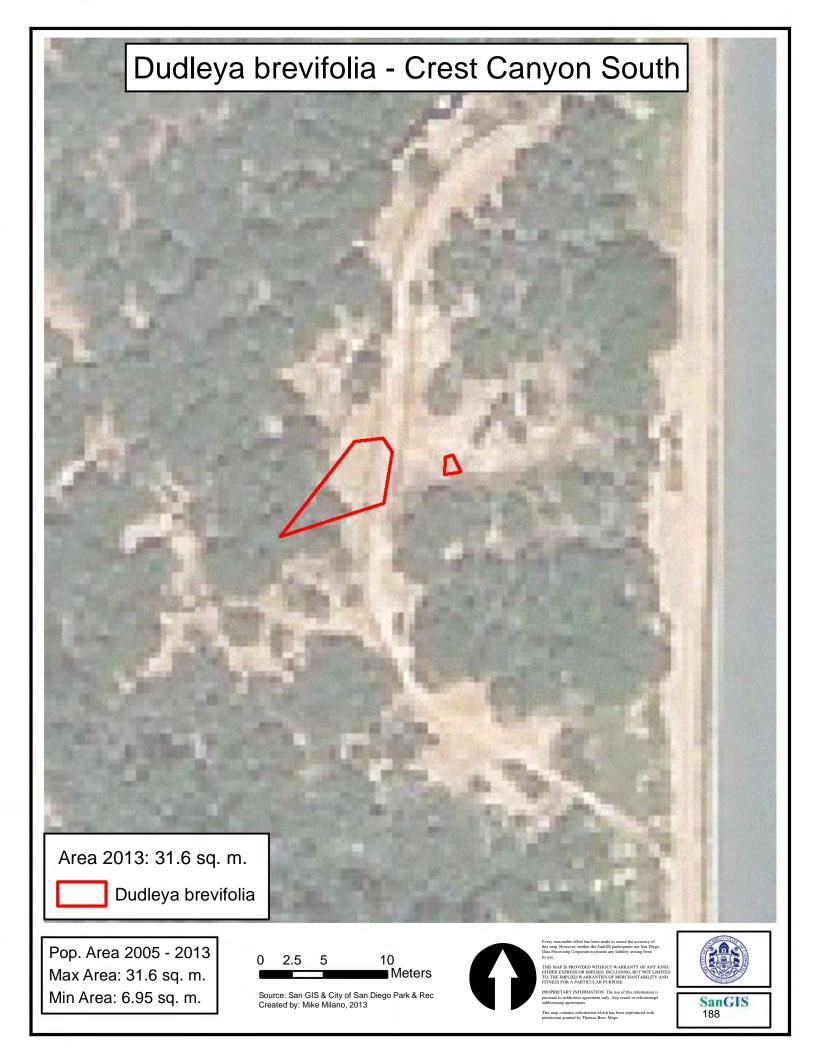
# Cardionema ramosissum 1

1 Pseudognaphalium	beneolens	1
Malosma Igunina	1	
Marah Macrocarpus	1	
Crassula connata	1	
chonizanthe sp.	2	
Artemisia collifornica	1	
Stipa pulchra	I	
Stipa pulchra	Ţ	

### Dudleya blochmaniae spp. brevifolia (Short-Leaved Dudleya) Crest Canyon – Southern Subpopulation



Panorama from Northern edge of population, Northwest, North, Northeast. Panorama location is 6253843.22 1927609.02 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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## *Dudleya variegata* Variegated Dudleya



© City of San Diego, 2004

Multiple Species Conservation Progra	n (MSCP) Rare Plant Field Survey Fo	orm
--------------------------------------	-------------------------------------	-----

Scientific Name: Dudleya variegata		Common Na	Mories	atod Dudley	0	-
and a second	d			ated Dudley	a	
Site Name: Black Mtn East		Managemen	and the second s			
Date: 5/7/13		a second the second of the second sec	t Regime: TBD			
Surveyors and Affiliation/Agency: 300	Miller, D	im Koeland,	Mike Mila			
	and the	and the second second	- City of	dan Die	290	
Species Found? Yes No						_
	í		eason known or suspect			
Total No. Individuals:	Exact Estir		0, 100 and 1000 for es			
Population/Subpopulation Area:	2	D2 Exac	t (based on GPS mapp	oing) 🗌 Esti	imate	
Collection (if not collected previously)?	Yes No	Collected Previou	sly			
Collector		Collection Number	Muse	um/Herbarium		
I. OBSERVATION AREA/MANAGEMENT		ION				
Accuracy of Coordinates/GPS Error: +/-	And a second second second second	neters feet	And the second			
Observation Location: 6291943.74	1939635		✓ State Plane (feet)	Питм		
Observation Eocation. 6291943.74	1939033	.455 L				
II. GENERAL HABITAT DESCRIPTION A	ND THREATS	ASSESSMENT				
Vegetation Community: Salvia Apian	a Alliance	/Salvia apia	noi-Artemis	ia califo	mica	
Landowner/Manager: City of San Diego P					ociatio	n
Overall Site Quality**	od-Excellent	Fair to Goo	Dd Poor	Ve	ry Poor	
	ice water	5	1 1	1		
	1	Storage,	transportat			
Disturbances and/or threats (be specific, include	de extent		Recommendation/s			
of disturbance or percent cover of disturbance		111	1 milium	:1	11 .:	
very high cover brachypoo	lium	Theat on	hypodium	y our	4 15	
10 11		observed	1	0		
III. ASSOCIATED SPECIES		for all a			6 B.	
List dominant, subdominant and invasive spec	ies in/near target	species observation	on area/managemer	nt unit		
Species'=List all species (sci. name). Use * to indica					kina 'Coll.'	5. T. (
column; if submitted to herbarium, note collection nu						
Species	Cover Coll? Coll.	# Species			Cover Coll	? Coll. #
Salvia apiana	7	Calochort	as optendens		2	-
Rhus integrifolia	1		in bellum	N .	9	
Baccharis pilularis,	2 4	Corethingy	re filig anifer	ha	2	-
Erioganum fasciculatum	3	Mirabilus	macersegeo		1	-
Jocoma menzicaii	2	c/ .	lehra		20	
Pour dognaphalium californicum	1	A Cynam Ca	rounculus		12	
Calilon angus tiflium	11	Bloomen	ia crua		2	C SOLAS
IV. SITE PHOTOMONITORING	-			1000		1
Camera type: Pentax Optio W9(	)					
6291943.74 1939635.453	E, SE, S	1.1 m	5* down	264-268		
Location [State Plane (ft)]	Direction (facing	g) Height	Camera Angle	Photo #	File loc	ation/s
Location (Plata Diago /41)	Direction (fee)		Comoro Assis	Dhate #	File las	otion/a
Location [State Plane (ft)]	Direction (facing	g) Height	Camera Angle	Photo #	File loc	ation/s
V. OTHER FIELD NOTES	14.4.4.1.					
Other Field Notes/Comments:						
						_

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

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

Species

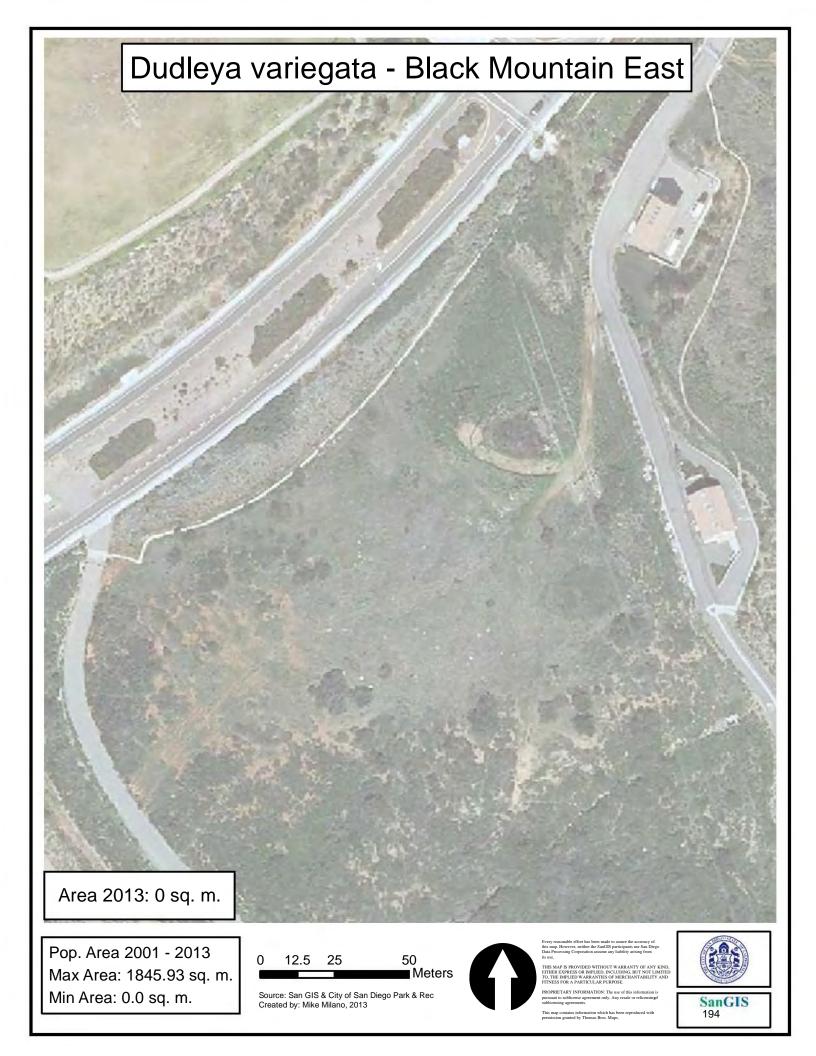
% cover

& Brachypodium distachyon 60 \* Avena barbata 2 Dichelostemma capitatum \* Sonchus deraceus 1 \* Feeduca myuros \* Foeniculum vulgare \* Bomus hordeaccus 2 3

#### Dudleya variegata (Variegated Dudleya) Black Mountain East



Panorama from Southeastern edge of population, facing East, Southeast, South. Panorama location is 6291943.74 1939635.45 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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

Scientific Name: Dudleya variegata		Common N	ame: Varie	gated Dudle	va	100
Site Name: East Elliott-Creek	1 - 1	Managemei	the second s			
Date: 5/1/13			nt Regime: TBA	-		-
Surveyors and Affiliation/Agency: Bels	Miller, K.	the second se	the second s	triano		
	2	San D.				
Species Found? Xes No			reason known or suspec	ted)?		
Total No. Individuals:	Exact Estimat		10, 100 and 1000 for e			
Population/Subpopulation Area: 0.5		s Exa	ct (based on GPS map) 2013 GIS Da	ping) 🗌 Es ta	stimate	
If yes:		Collected Previou				
Collector	and the second second	collection Number	Muse	eum/Herbarium	_	
I. OBSERVATION AREA/MANAGEMENT			-			
Accuracy of Coordinates/GPS Error: +/-	<1 🗸 met	1	2			
Observation Location:6316394.856	1897093.5	4	✓ State Plane (feet)	UTN	1	
II. GENERAL HABITAT DESCRIPTION A	ND THREATS ASS	ESSMENT				-
the second se	nziesii Alliar	the second se	ma menzi	PSIL DO	DUIC	inst
Landowner/Manager: City of San Diego Pa		40/1000	miler millin o			tion
		-				
Overall Site Quality** Very Goo		Fair to Go	od Poor		ery Poor	r
Surrounding land use: _ Open Space	Military					
III. ASSOCIATED SPECIES List dominant, subdominant and invasive speci					ine 10e1	
Species'=List all species (sci. name). Use * to indica column; if submitted to herbarium, note collection nur				естеа ру спеск	ing Coll	
Species	Cover Coll? Coll. #	Species			Cover	Coll? Coll
Phus integrifolia	5	Stipa pi	ilchra		10	
Isocoma menzicsii	15	RIVANO	iva tasucula	ster	5	
Engenum fusciculation	5	* Endin	lis avensi-	5	5	
Acmispon gluber	2 5	* Avena	sa.		35	
Calochorns splendens		+ Vulpia	MAMM		5	
Opuntia littoralis	1	* Bromus	madnitens	2	5	
Bauchains surothroides	1	* Brachyp	madnitensi adium distan	hyon	10	
IV. SITE PHOTOMONITORING		1.5			1	1
Camera type _ Pentax Optio 1N9	0					
6316394.9 1897093.542	SW,W,NW,N	1.1 m	Level	291-29	9 S/C	S/MSCF
Location [State Plane (ft)]	Direction (facing)	Height	Camera Angle	Photo #	File	e location/
Location [State Plane (ft)]	Direction (facing)	Height	Camera Angle	Photo #	File	e location/
V. OTHER FIELD NOTES					File	e location/
					File	elocation
Other Field Notes/Comments:	1.1910				File	BIOCAUON
	10.310				File	BIOCAUON

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

Continue on back if needed.

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

5

1

- \* Logfia gallica \* Brassica nigra
- + BROMUS Nordeareus 10

Duduya vaviegata	1
selaginella higelouii	21
Amemisia californica	1
Enodictyon crussifolium	I
Salvia mellifera	1
*Hedyphois Cretica	61
Chamnus Over	(
Adenostoma fasciculatum	T
Callystegia macrosteatia	c1
Salvia apiana	1
Pellaen mucronata mucronata	61

#### Dudleya variegata (Variegated Dudleya) East Elliott - Creek



Panorama from Northwestern edge of population, facing Southwest, West, Northwest, North. Panorama location is 6316694.86 1897093.54 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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

Scientific Name: Dudleya variegata		Common Name: Varie	gated Dudleya
Site Name: East Elliott-Hilltop		Management Unit #: TBA	
Date: 5/9/13		Management Regime: TBA	
Surveyors and Affiliation/Agency: Bets	Miller, Kim	Rocland, Mike Mila	no
	City o	FSAN Diego	
Species Found? Yes No		If not, why (if reason known or suspe	cted)?
Total No. Individuals: 39	Exact Estimat	e (use orders of 10, 100 and 1000 for e	
Population/Subpopulation Area: 26.3487	78 <u>M<sup>2</sup></u> Unit	XExact (based on GPS map	ping) 🗌 Estimate
Collection (if not collected previously)?	Yes 🖾 No 🔲	Collected Previously	
Collector	c	ollection Number Mus	eum/Herbarium
I. OBSERVATION AREA/MANAGEMENT U Accuracy of Coordinates/GPS Error: +/- Observation Location: 6316264.127	JNIT LOCATION <1	and the second part of the second	П итм
II. GENERAL HABITAT DESCRIPTION AN         Vegetation Community:         Landowner/Manager:         Overall Site Quality**         Surrounding land use:	sciculatum k and Recreation Excellent	Alliance / Adenostom	a fasciculatum Naritime Association
Disturbances and/or threats (be specific, include of disturbance or percent cover of disturbance if 1010 - moderna te cover Non-ne * new Frail Cut into hinton to Duckeya	extent possible):	Management Recommendation/	s:
III. ASSOCIATED SPECIES			
List dominant, subdominant and invasive species	s in/near target spec	ies observation area/management	unit.
Species'=List all species (sci. name). Use * to indicate column; if submitted to herbarium, note collection num	non-native species; 'C	Cover"= % cover of species; Note if coll	
Species	Cover Coll? Coll. #	Species	Cover Coll? Coll.
Dudleya vanegata		Deinandra fascicula	
Adenostoma fascicalatum	30	Dichondra occiden	talis 1
Eniogonum fasciculatum Salvia mellifera	10	Ferractus vindesie	
Xylococcus bicolor	i	Calyskaja marrost	5
Hecpevorinica which is	2	Artemisia californi	
Helperoyulca whipplei Hellanthemum scopanium Collochortus Splendens		* Lepidium sp.	t
		Malosma launni	a
IV. SITE PHOTOMONITORING		al instances	
Camera type Pentax Optio W90	N		
6316264.1 1897663.71 Location [State Plane (ft)]	SE,S,SW Direction (facing)	1.1 m Level Height Camera Angle	341-346         S/OS/MSCP           Photo #         File location/s
Location [State Plane (ft)]	Direction (facing)	Height Camera Angle	Photo # File location/s
V. OTHER FIELD NOTES		NY STATES AND STATES	
Other Field Notes/Comments: _ Photos tal.	cen of cut	ting that had been	done to
	unes piled a		
	the second s		

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

Continue on back if needed.

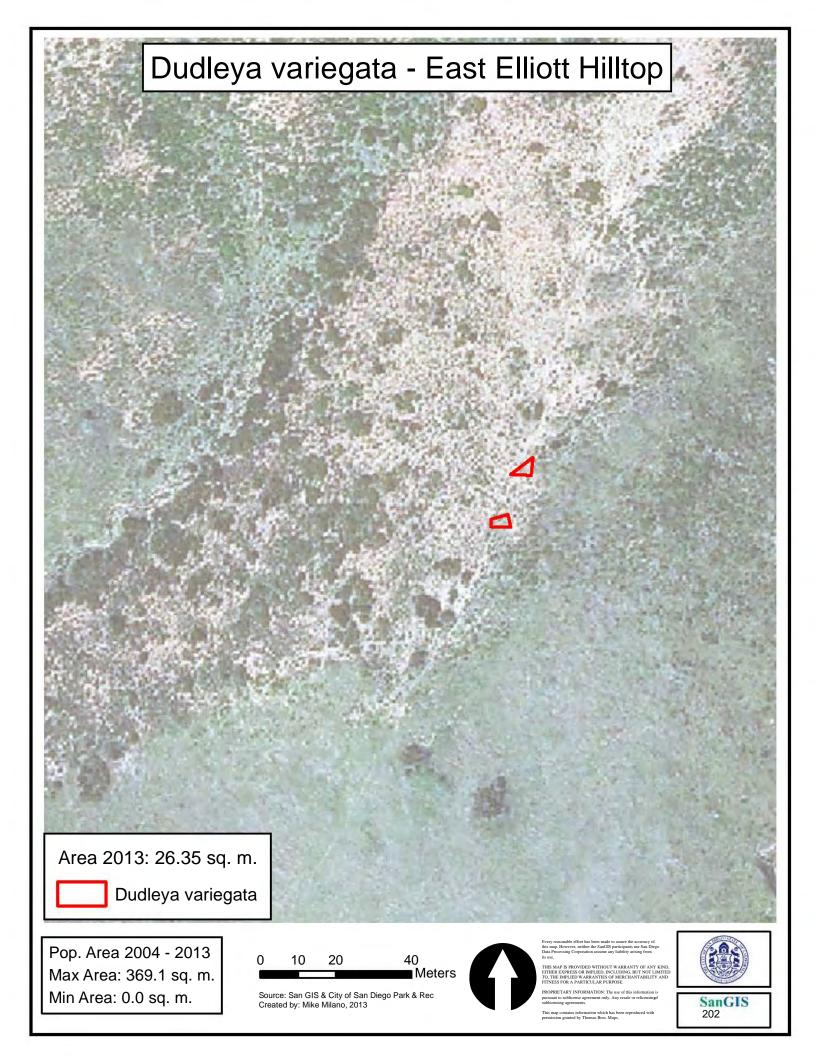
Very Good-Excellent	80-100% Native Flora Composition Vegetation Structure Intact or nearly so Cover /abundance of weeds < 5% No or minimal signs of disturbance	
Fair to Good	50-80% Native Flora Composition Vegetation structure modified or somewhat modified Cover/abundance of weeds 5-20% any number of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

Navavetia hamata	5
Pseudognaphatium microcephalum	1
* Logfia gallica	5
Kushemia gracilis	41
* Avena sp Stipa pulchua	1
* Bromus madntensis	1
* centaurea melitensis	5
* Hyprchaen's glabra	1
Porophylium gracile	5
Daucus pusillus	

#### *Dudleya variegata* (Variegated Dudleya) East Elliott - Hilltop



Panorama from the Southwestern edge of population, facing Southeast, South, Southwest. Panorama location is 6316264.13 1897663.71 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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

Scientific Name: Dudleya variega	ta	Common Na	me: Varieg	ated Dudley	/a	11.1	3
Site Name: East Elliott-Slope	Э	Managemen	t Unit #: TBA		1		
Date: 5/9/13		Managemen	t Regime: TBA		1		
Surveyors and Affiliation/Agency: Betsu	Miller, Kin R	seland Mi	le Milano	and the		1	
	city of	san Diego	s				
Species Found? ZYes No	3	J					_
Total No. Individuals:2	Exact Estima		eason known or suspec 0, 100 and 1000 for e				
Population/Subpopulation Area:8	Un		t (based on GPS mapp 013 615 Data	oing) 🗌 Es	timate		
Collection (if not collected previously)? If yes:		Collected Previou	<u></u>				
Collector	and the state of the second second	Collection Number	Muse	um/Herbarium	-	-	-
I. OBSERVATION AREA/MANAGEMEN	Comparison and a second s				1	1.5	
Accuracy of Coordinates/GPS Error: +/-	<1 ☑ me		(Chate Diana (feat)	П итм			
Observation Location: 6315780.586	1896466.9		✓ State Plane (feet)				_
II. GENERAL HABITAT DESCRIPTION	AND THREATS ASS	SESSMENT	1. S.	1000	1	1.11	
Vegetation Community: 15000 maine	enzie sii Allic	ince/soco	ma menzie	sii As	Soci	iati	or
Landowner/Manager: <u>City of San Diego</u>	Park and Recreation	'					
Contraction of the second s	ood-Excellent	Fair to Goo	od 🗌 Poor		ery Poo	r	
Surrounding land use: Open Space	[military						-
Brachypodium III. ASSOCIATED SPECIES List dominant, subdominant and invasive spe	cies in/near target spe	cies observation	area/management	unit.			
Species'=List all species (sci. name). Use * to indi column; if submitted to herbarium, note collection n				cted by checki	ing 'Coll	<i>.</i> '	
Species	Cover Coll? Coll. #	Species			Cover	Coll?	Coll.
Dudleya vaniegata	6	ACentaur	ea melitensi	5	7		
Eviodonum fasciculatum Isocoma menziesti	10	Malosi	na laurina	a-ens	1		-
Acmispon glaber	15	opunti	a littoralis		i		
Ferricactus Vindescens	1	Stipa pu	Ichra		1		_
Deinandra fasciculata	10	+ log fia g	allica		5		_
Selaginella bigclovii * Erodium sp.	25	+ Avena's	pusillus		2		
IV. SITE PHOTOMONITORING	- 1, 1 - N	1. 1. 1. 1. 1.				1	
Camera type PRINTAX Optio In	JAO		-				1000
Camera typePentax Optic M 6315780.61896466.988		1.1 m	Level	203-315	S/0	DS/MS	SCP
Camera typePentax Optio M 6315780.61896466.988 Location [State Plane (ft)]	UQ W,NW,N,NE Direction (facing)	<u> </u>	Level Camera Angle	303-315 Photo #		DS/MS e locat	
<u>6315780.6</u> <u>1896466.988</u>	W,NW,N,NE				File		tion/s
6315780.6 1896466.988 Location [State Plane (ft)]	W,NW,N,NE Direction (facing)	Height	Camera Angle	Photo #	File	e locat	tion/s
6315780.6 1896466.988 Location [State Plane (ft)] Location [State Plane (ft)]	W,NW,N,NE Direction (facing)	Height	Camera Angle	Photo #	File	e locat	tion/s

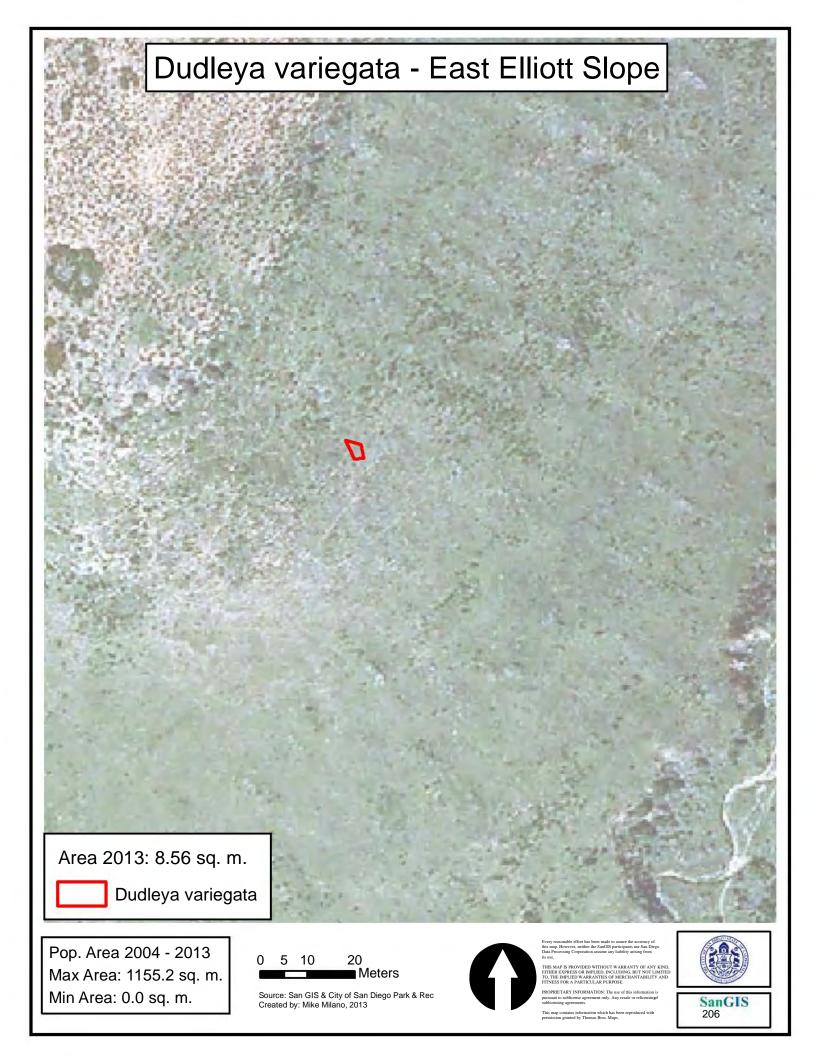
Very Good-Excellent	80-100% Native Flora Composition Vegetation Structure intact or nearly so Cover /abundance of weeds < 5% No or minimal signs of disturbance
Fair to Good	50-80% Native Flora Composition Vegetation structure modified or somewhat modified Cover/abundance of weeds 5-20% any number of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

\* Hypochaens glabra 1 \* Bromus madnitensis 5 Salvia opiana 1 \* Brachy podium distadiyon 30 \* Lepidium sp. cl

### Dudleya variegata (Variegated Dudleya) East Elliott - Slope



Panorama from the Southern edge of population, facing West, Northwest, North, Northeast. Panorama location is 6315780.58 1896466.98 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



<b>Multiple Species Conservation</b>	Program (MSCF	P) Rare Plant	Field Survey Form
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Rate:       #/56//3       Management Regime: TBD         Unveyors and Affiliation/Agency:       Ref. Miller, Clic Bals, Kim Recland, Mike Milens,         Sold       Magner - Orly of Sen Birgo         pecies Found?       Yes       No         If not, why (if reason known or suspected)?         opulation/Subpopulation Area:       Zen 30-115         m2       Wexact       Estimate (use orders of 10, 100 and 1000 for estimates)         opulation/Subpopulation Area:       Zen 30-115       M2         Units       M2       Exact (based on GPS mapping)       Estimate         Oblection (if not collected previously)?       Yes       Mo       Collection Number       Museum/Herbarium         OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Collection Number       Museum/Herbarium       OBSERVATION AREA/MANAGEMENT UNIT LOCATION         ccuracy of Coordinates/GPS Error:       +/-       <1       Imeters       feet         bservation Location:       6330814.789       1782236.114       State Plane (feet)       UTM         GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT       andowner/Manager:       City of San Diego Park and Recreation       Assoc         werall Site Quality**       Every Good-Excellent       Fair to Good       Poor       Very Poor         urrounding land use:       gracs	Date: 4/30/13       Manage         Surveyors and Affiliation/Agency; Reby Miller, Kelic Bala,       Syd. Illagree         Species Found?       Yes       No         Solution/Subpopulation Area:       Collector       Estimate (use order         Species Found?       Yes       No       If not, will         Solution/Subpopulation Area:       Coll - 80 + 11 + 5       m2       Will         Sollection (if not collected previously)?       Yes       No       Collected P         If yes:       Collector       Collection Nutr       Collection Nutr         OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Collection Nutr       Collection Nutr         OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Collection Sign 200       Exact       Second Excellent         Observation Location:       6330814.789       1782236.114       Immeters       Second Excellent       Second Excellent         GENERAL HABITAT DESCRIPTION AND THREATS ASSESSME       Generation       Second Excellent       Manage         overall Site Quality**       Second Excellent       Manage       Second Excellent       Manage         urrounding land use:       Second Excellent       Manage       Manage       Manage         Mome       Mome       Manage       Manage       Manage       Manage <th>ment Regime: TBD         Xim Recland, Min         Xim Recland, Min         Y (if reason known or suspected)?         s of 10, 100 and 1000 for estimation         Exact (based on GPS mapping)         2013 GPS data         eviously         hber       Museum/l         feet         State Plane (feet)         State Plane (feet)         IMMONDSIAL CHINESIS         o Good       Poor         ment Recommendation/s;</th> <th>Birgo ates) Estim Herbarium</th> <th>ate</th> <th>INIATA Aśs</th>	ment Regime: TBD         Xim Recland, Min         Xim Recland, Min         Y (if reason known or suspected)?         s of 10, 100 and 1000 for estimation         Exact (based on GPS mapping)         2013 GPS data         eviously         hber       Museum/l         feet         State Plane (feet)         State Plane (feet)         IMMONDSIAL CHINESIS         o Good       Poor         ment Recommendation/s;	Birgo ates) Estim Herbarium	ate	INIATA Aśs
unveyors and Affiliation/Agency, Refu; Miller, G. I.S. Gala, S. Sim, Recland, Milk Milles Agence, State Milleguer, City of Can. Biogo         pecies Found?       Yes       No       If not, why (if reason known or suspected)?         poteits No. Individuals:       477       State Class of the State Class of the State State Class of the State Sta	Surveyors and Affiliation/Agency: Beby Miller, Kelic Bala, Syd Magnet         Species Found?       Yes         Species Found?       Yes         Solution       If not, will         Solution       If not collected previously)?         If yes:       Collector         Collector       Collecton Nur         OBSERVATION AREA/MANAGEMENT UNIT LOCATION         Accuracy of Coordinates/GPS Error:       +	Xim Recland, Min         - City of San         ny (if reason known or suspected)?         s of 10, 100 and 1000 for estimation         Exact (based on GPS mapping)         2013 GPS date         eviously         nber       Museum/I         feet         ☑ State Plane (feet)         INT         IMMONDSIA: CHINESS         o 6000       □ Poor         ment Recommendation/s:	Birgo ates) Estim Herbarium	ate	INIAT Asso
Decise Found?       Yes       No       If not, why (if reason known or suspectual)?         Data No. Individuals:       477       If Exact       Estimate (use orders of 10, 100 and 1000 for estimates)         Dpulation/Subpopulation Area:       Zo1.90+H15:       92       Exact (base on GPS papping)       Estimate         Director       Units       Stats gas Gas Gas       Estimate       Stats gas Gas       Estimate         OBSERVATION AREAMANAGEMENT UNIT LOCATION       Collection Number       Museum/Herbanum       OBSERVATION AREAMANAGEMENT UNIT LOCATION         Courcey of Coordinates/GPS Error:       +      Museum/Herbanum         OBSERVATION AREAMANAGEMENT UNIT LOCATION       Exerce (feet)       UTM         GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT       getation Community:	pecies Found?       Yes       No       If not, will otal No. Individuals:       4779       ✓ Exact       Estimate (use order	City of San      y (if reason known or suspected)?      s of 10, 100 and 1000 for estimate      Exact (based on GPS mapping)	Birgo ates) Estim Herbarium	ate	INIAT Ass
Signt Magneer       City of Sen Bisgin         pecies Found?       Yes       No       If not, why (if reason known or suspected)?         patal No. Individuals:       477       Staat       Estimate (use orders of 10, 100 and 1000 for estimates)         opulation/Subpopulation Area:       201-80+1145       2       Exact       Estimate (use orders of 10, 100 and 1000 for estimates)         opulation/Subpopulation Area:       201-80+1145       2       Exact       Estimate (use orders of 10, 100 and 1000 for estimates)         opulation/Subpopulation Area:       201-80+1145       2       Exact (based on GPS repping)       Estimate         collector       Collector Number       Museum/Herbanium       Collector Second on GPS repping)       Estimate         OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Collector Releases       feet       Estimate         Observation Location:       6330814.789       1782236.114       State Plane (feet)       UTM         GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT       getation Community:       5.1.4.4.1.4.1.4.1.4.1.4.1.4.1.4.1.4.1.4.	Syd       Illagne         pecies Found?       Yes       No       If not, will         otal No. Individuals:       479       Exact       Estimate (use order         opulation/Subpopulation Area:       201.904145       m2       will         ollection (if not collected previously)?       Yes       No       Collected P         If yes:       Collector       Collection Nutrice       Collection Nutrice         OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Collection Nutrice       Collection Nutrice         OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Collection       6330814.789       1782236.114         GENERAL HABITAT DESCRIPTION AND THREATS ASSESSME       Egetation Community:       SimmonDiff.       Chine Exists       Attinance / SimmonDiff.         egetation Community:       SimmonDiff.       Chine Exists       Attinance / SimmonDiff.       Manage         andowner/Manager:       City of San Diego Park and Recreation       Manage         werall Site Quality**       Siturbance or percent cover of disturbance if possible):       Mon         Mom       ASSOCIATED SPECIES       Manage       Manage         st dominant, subdominant and invasive species in/near target species obset       Siturbance obset		Birgo ates) Estim Herbarium	ate	INJAT Ašz
pecies Found?       ✓Yes       No       If not, why (if reason known or suspected?)?         potal No. Individuals: <u>4779</u> ✓ Exact       Estimate (use orders of 10, 100 and 1000 for estimates)         opulation/Subpopulation Area:       Zult       Settimate       Zetact (used on GPS mapping)       Estimate         opulation/Subpopulation Area:       Zult       Collector Previously       Yes       Massach         ollection (if not collected previously)?       Yes       Yes       Collector Number       Museum/Herbarium         OBSERVATION/AREA/MANAGEMENT UNIT LOCATION       Collector Number       Museum/Herbarium         GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT       gegetation Community:       State Plane (feet)       UTM         General Industry       City of San Diego Park and Recreation       Association       Association       Association         urrounding land use:       City of San Diego Park and Recreation       Management Recommendation/s:       Massociation/scitton for theres (be specific, include extent       Massociation area/management unit.	If not, will         opulation/Subpopulation Area:         Collection (if not collected previously)?         Yes:         Collector         Collector         Collector         Collector         Collection (if not collected previously)?         Yes:         Collector         Collector         Collector         Collection Num         OBSERVATION AREA/MANAGEMENT UNIT LOCATION         ccuracy of Coordinates/GPS Error:         +/-	ay (if reason known or suspected)? s of 10, 100 and 1000 for estimation: Exact (based on GPS mapping) Sold? GPS data eviously her Museum/I feet State Plane (feet) NT IMMONDSIA: CHINENSIS Do @@@ Poor ment Recommendation/s;	Herbarium	S LAC	INJATA Aśsc
If not, why (if reason known row or suggested)?         Datal No. Individuals:       479         Detail No. Individuals:       570 A Second	If not, will         bala No. Individuals:       479       ✓ Exact       Estimate (use order         opulation/Subpopulation Area:       201.9804145       m2       will         oblection (if not collected previously)?       Yes       Wo       Collected Previously)?       Yes       Wo       Collected Previously)?       Wes       Wo       Collected Previously       Collected Previously       Wes       Collected Previously       Wes       Collected Previously       Wes       Collected Previously       Collected Previously       Collected Previously       Wes       Collected Previously       Wes       Collected Previously       Wes       Collected Previously	s of 10, 100 and 1000 for estimations Exact (based on GPS mapping) 2013 GPS data eviously mber Museum/I feet ☑ State Plane (feet) NT IMMONDSIA: CHINEUSIS NT IMMONDSIA: CHINEUSIS Decomo	Herbarium	S LAC	INIAT Asse
tal No. Individuals:       4779       Start       Estimate (use orders of 10, 100 and 1000 for estimates)         publication/Subpopulation Area:       201.96/1115       202       Start (based on GPS mapping)       Estimate         silection (if not collected previously)?       Yes       The       Collection Number       Museum/Herbarium         OBSERVATION AREA/MANAGEMENT UNIT LOCATION	batal No. Individuals:       479       Exact       Estimate (use order         bpulation/Subpopulation Area:       Coll. 804145       m2       units         bollection (if not collected previously)?       Yes       No       Collected Previously)?       Yes         If yes:       Collector       Collection Nutrition       Collection Nutrition       Collection Nutrition         OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Collection Nutrition       Collector       Collection Nutrition         OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Collection Nutrition       Collection Nutrition       Collection Nutrition         OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Collection Nutrition       Collection Nutrition       Collection Nutrition         OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Collection Nutrition       Collection Nutrition       Collection Nutrition         Observation Location:       6330814.789       1782236.114       Collection Nutrition         GENERAL HABITAT DESCRIPTION AND THREATS ASSESSME       Action Nutrition       Station Community:       Station Nutrition         General Site Quality**       City of San Diego Park and Recreation       Manage         werall Site Quality**       Overy Good Excellent       Manage         disturbance or percent cover of disturbance if possible):       Manage	s of 10, 100 and 1000 for estimations Exact (based on GPS mapping) 2013 GPS data eviously mber Museum/I feet ☑ State Plane (feet) NT IMMONDSIA: CHINEUSIS NT IMMONDSIA: CHINEUSIS Decomo	Herbarium	S LAC	IMIAT Asse
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Trioganum       Ascrigentum       7       Locidium pp.       41         Adamusia       californica       2       Crassula connada       41         SITE PHOTOMONITORING       .       .       SITE PHOTOMONITORING       .         Imera type:       PENTRX       OPTIO       W90       .       .         30814.789       1782236.114       SE, S, SW       1.1 m       Level       104/-/08       S/OS/MSCP         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	somus mader versus ssp. rubero 15 repe		14	-	-
SITE PHOTOMONITORING         amera type:       PENTRX       OPTIO       W90         30814.789       1782236.114       SE, S, SW       1.1 m       Level       104-108       S/OS/MSCP         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	Fridgenum Bariculatum 7 Lopin	ium D.			
SITE PHOTOMONITORING         imera type:       PENTRX       OPTIO       W90         30814.789       1782236.114       SE, S, SW       1.1 m       Level       104-108       S/OS/MSCP         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	Artemisia californica 2 Crass				1
30814.789       1782236.114       SE, S, SW       1.1 m       Level       104/-108       S/OS/MSCP         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	. SITE PHOTOMONITORING				4
330814.789       1782236.114       SE, S, SW       1.1 m       Level       104-108       S/OS/MSCP         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	amera type: DENTRX OPTIC W90				
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		Level //	4-108	S/OS/M	SCP
CONTRACT AND AN ACCOUNT OF A DECISION OF A DECISION OF A DECISIONO OF A DEC				File loca	ation/s
				_	
OTHER FIELD NOTES	Location [State Plane (ft)] Direction (facing) Height	Camera Angle	Photo #	File loca	ation/s
	OTHER FIELD NOTES				C

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

1

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

2/6 cover

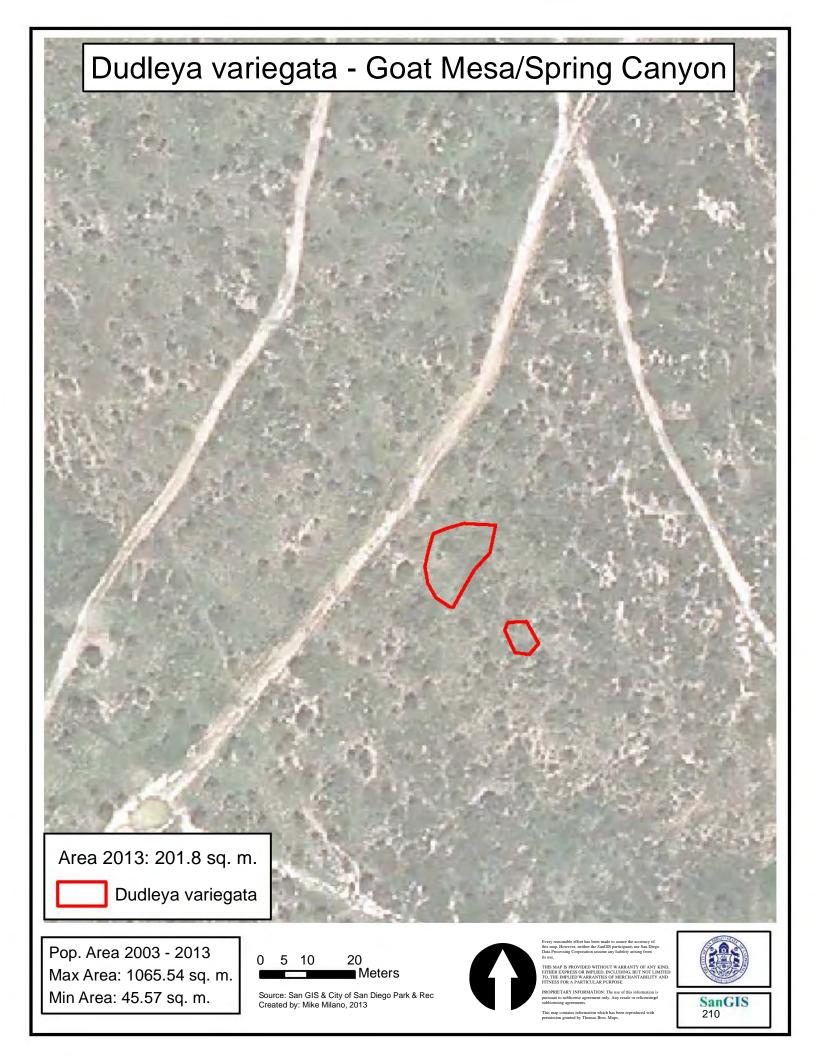
2

species \* Featura myunos Glindwpuntia prolifera \* Lamarkea aurea

### *Dudleya variegata* (Variegated Dudleya) Goat Mesa/Spring Canyon



Panorama looking towards the Southwestern edge of the population, facing Southeast, South, Southwest. Panorama location is 6330814.78 1782263.11 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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

Scientific Name: Dudleya variegat	a	Common Name: Variegat	ed Dudleya	1000
Site Name: Marron Valley		Management Unit #: TBD		
Date: 5/14/13		Management Regime: TBD		
Surveyors and Affiliation/Agency: Be-	tsu Miller		e Milano	
	a second s	ity of Sau Diego	1 1 1101 110	
Species Found? X Yes No		ing they be		
Total No. Individuals: 1726	Exact Estima	If not, why (if reason known or suspected te (use orders of 10, 100 and 1000 for estin		
Population/Subpopulation Area: 30.7	04 <u>m²</u> Uni		) Estimate	
Collection (if not collected previously)?	Yes XNO C	Collected Previously		
Collector	(	Collection Number Museum	/Herbarium	
I. OBSERVATION AREA/MANAGEMEN	T UNIT LOCATIO	N		
Accuracy of Coordinates/GPS Error: +/-	<1 🗸 met	rers feet		
Observation Location: 6407136.242	1787954.4	8 State Plane (feet)	Ш итм	
II. GENERAL HABITAT DESCRIPTION	AND THREATS A	SSESSMENT		
Vegetation Community: Artemisia californ		and the second sec	califimica - Eoun	mum Germ
Landowner/Manager: City of San Diego F	ublic Utilities Dept.	-Opuntia litoralis/Oudley (edu	(s) Association	)
	od-Excellent	Fair to Good	Very Poor	
Daver			L Very Poor	
Surrounding land use: Open Space				_
Disturbances and/or threats (be specific, inclu		Management Recommendation/s:		
of disturbance or percent cover of disturbance	if possible):			
moderate - high cover n	n anasc	weeding		
moderati - high cover n. and Errodium	. 9	J		
			in the second	-
III. ASSOCIATED SPECIES	ion in/none tornet of		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	-
List dominant, subdominant and invasive spec Species'=List all species (sci. name). Use * to indic	ate non-native species	s; 'Cover"= % cover of species; Note if colle		
List dominant, subdominant and invasive spec Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu	ate non-native species umber (submit to SDN	s; 'Cover"= % cover of species; Note if colle HM unless otherwise noted).	cted by checking 'Coll.'	Coll #
List dominant, subdominant and invasive spec Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu Species	ate non-native species Imber (submit to SDN Cover Coll? Coll. #	s; 'Cover''= % cover of species; Note if colle HM unless otherwise noted). Species	cted by checking 'Coll.'	Coll. #
List dominant, subdominant and invasive spec Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu Species Dudleya variegata	ate non-native species umber (submit to SDN	s; 'Cover"= % cover of species; Note if colle HM unless otherwise noted). Species Selaginella anertsuns	cted by checking 'Coll.' Cover Coll? 30	Coll. #
List dominant, subdominant and invasive spec Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu Species Dudleya van'egata Malosma laurna	ate non-native species imber (submit to SDN Cover Coll? Coll. #	s; 'Cover''= % cover of species; Note if colle HM unless otherwise noted). Species Selaginella ancresuns Fordium botys	cted by checking 'Coll.' Cover Coll? 30 Up	Coll. #
List dominant, subdominant and invasive spec Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu Species Dudleya variegata Malosma laurina Avtemísla californica Erigonam fascicajatum	ate non-native species Imber (submit to SDN Cover Coll? Coll. # 3 7 10 7	s; 'Cover'= % cover of species; Note if colle HM unless otherwise noted). Species Selaginella ancresuns FERDAIUM betrys Malacothnix clerulandi * Hypechaeris glabra	cted by checking 'Coll.' Cover Coll? 30 40 1	Coll. #
List dominant, subdominant and invasive spec Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu Species Dudleya variegata Malosma laurina Avtemísla californica Eriegonum fasciculatum Salvia apiana	ate non-native species imber (submit to SDN Cover Coll? Coll. # 3 7 10 7	s; 'Cover'= % cover of species; Note if colle HM unless otherwise noted). Species Selaginella ancressens Fordium botrys Malacothnix clerelandi * Hypechaenis glabra Rhamnus crucea	cted by checking 'Coll.' Cover Coll? 30 Up 'i I I I 1	Coll. #
List dominant, subdominant and invasive spec Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu Species Dudleya vaniegata Malosma laurina Aviemisia californica Enegonam fascicalatum Salvia apiana Isocoma menziesii	ate non-native species imber (submit to SDN Cover Coll? Coll. # 3 7 10 7 5 3	s; 'Cover''= % cover of species; Note if colle HM unless otherwise noted). Species Selaginella aneresuns Herodium botrys Malacothnix clerclandi + Hypechaeris glabra Rhamnus crucca Bloomeria clevelandii	cted by checking 'Coll.' Cover Coll? 30 40 1 1 1 3 3	Coll. #
List dominant, subdominant and invasive spece Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu Species Dudleya variegata Malosma laurina Avtemisla californica Eriogonum fascicalatum Salvia apiana Isocoma menziesii Continogyme filaginifolia	ate non-native species imber (submit to SDN Cover Coll? Coll. # 3 7 10 7	s; 'Cover''= % cover of species; Note if collection HM unless otherwise noted). Species Selaginella aneresuns Herodium botrys Malacothnix clevelandi * Hypechaeris glabra Rhamnus crucea Bloomeria clevelandii * Avena 5P.	Cover         Coll.'           30         40           1         1           3         40	Coll. #
List dominant, subdominant and invasive spece Species'=List all species (sci. name). Use * to indic column; it submitted to herbarium, note collection nu Species Dudleya variegata Malosma laurina Avtemisla californica Eriogonum fascicalatum Salvia apiana Isocoma menziesii Construguna filaginifolia Shpa puluhra	ate non-native species imber (submit to SDN Cover Coll? Coll. # 3 7 10 7 5 3 1	s; 'Cover''= % cover of species; Note if colle HM unless otherwise noted). Species Selaginella aneresuns Herodium botrys Malacothnix clerclandi + Hypechaeris glabra Rhamnus crucca Bloomeria clevelandii	Cover         Coll.'           30         40           1         1           3         40	Coll. #
List dominant, subdominant and invasive species Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu Species Dudleya variegata Malosma laurina Artemisla californica Eriegonum fascicalatum Salvia apiana Isocoma menziesii Construggue filaginifolia Shpa puluhra IV. SITE PHOTOMONITORING	ate non-native species imber (submit to SDN Cover Coll? Coll. # 3 7 10 7 5 3 1 2 2	s; 'Cover''= % cover of species; Note if collection HM unless otherwise noted). Species Selaginella aneresuns Herodium botrys Malacothnix clevelandi * Hypechaeris glabra Rhamnus crucea Bloomeria clevelandii * Avena 5P.	Cover         Coll.'           30         40           1         1           3         40	Coll. #
List dominant, subdominant and invasive spece Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu Species Dudleya variegata Malosma laurina Avremisla californica Eriogonum fascicalatum Salvia apiana Isocoma menziesti Construgune filaginifolia Shpa pulchra IV. SITE PHOTOMONITORING Camera type: <u>Pentax Optio W</u> 9	ate non-native species imber (submit to SDN Cover Coll? Coll. # 3 7 10 7 5 3 1 1 2	s; 'Cover''= % cover of species; Note if collection HM unless otherwise noted). Species Selaginella aneresuns Herodium botrys Malacothnix clevelandi * Hypechaenis glabra Rhamnus crucea Bloomeria clevelandii * Avena sp. * Bromus madatensi	cted by checking 'Coll.' Cover Coll? 30 40 1 1 1 3 40 5 Z Þ	
List dominant, subdominant and invasive spece Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu Species Dudleya variegata Malosma lawrina Avzemisla californica Eriogonum fascicalatum Salvia apiana Isocoma menziesti Congtringune filaginifolia Shpa puluhra IV. SITE PHOTOMONITORING Camera type: <u>Pentax Optio W9</u> 6407136.242 1787954.48	ate non-native species imber (submit to SDN Cover Coll? Coll. # 3 7 10 7 5 3 1 2 5 3 1 2 5 5 3 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	s; 'Cover"= % cover of species; Note if colle HM unless otherwise noted). Species Selaginella ancresuns * Erodium botrys Malacothnix clevulandi * Hypechaeris glabra Rhamnus crucea Bloomeria develandii * Avena SP. * Bromus madatensi	cted by checking 'Coll.' Cover Coll? 30 40 1 1 3 40 5 20 20 20 20 20 20 20 20 20 20	GCP
List dominant, subdominant and invasive spece Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu Species Dudleya variegata Malosma laurina Avremisla californica Eriogonum fascicalatum Salvia apiana Isocoma menziesti Congtrogum filaginifolia Shpa pulchra IV. SITE PHOTOMONITORING Camera type: <u>Pentax Optio W</u> 9	ate non-native species imber (submit to SDN Cover Coll? Coll. # 3 7 10 7 5 3 1 1 2	s; 'Cover''= % cover of species; Note if collection HM unless otherwise noted). Species Selaginella aneresuns Herodium botrys Malacothnix clevelandi * Hypechaenis glabra Rhamnus crucea Bloomeria clevelandii * Avena sp. * Bromus madatensi	cted by checking 'Coll.' Cover Coll? 30 40 1 1 1 3 40 5 Z Þ	GCP
List dominant, subdominant and invasive spece Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu Species Dudleya variegata Malosma laurina Avtemisla californica Eriogonum fascicalatum Salvia apiana Isocoma menziesti Constructure filaginifolia Shpa pulchra IV. SITE PHOTOMONITORING Camera type: <u>Pentax Optio W9</u> 6407136.242 1787954.48	ate non-native species imber (submit to SDN Cover Coll? Coll. # 3 7 10 7 5 3 1 2 5 3 1 2 5 5 3 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	s; 'Cover"= % cover of species; Note if colle HM unless otherwise noted). Species Selaginella ancresuns * Erodium botrys Malacothnix clevulandi * Hypechaeris glabra Rhamnus crucea Bloomeria develandii * Avena SP. * Bromus madatensi	cted by checking 'Coll.' Cover Coll? 30 40 1 1 3 40 5 20 20 20 20 20 20 20 20 20 20	SCP_ion/s
List dominant, subdominant and invasive spece Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu Species Dudleya variegata Malosma lawrina Artemisla californica Eriogonam fascicalatum Salvia apiana Isacema menziesii Confineaque filaginifolia Shpa puluhra IV. SITE PHOTOMONITORING Camera type: <u>Pentax Oprio W9</u> 6407136.242 <u>1787954.48</u> Location [State Plane (ft)]	ate non-native species imber (submit to SDN Cover Coll? Coll. # 3 7 10 7 5 3 1 2 2 0 SE, S, SW Direction (facing)	s; 'Cover"= % cover of species; Note if collection HM unless otherwise noted). Species Selaginella ancressens Herodium betrys Malacothnix clerelandi * Hypechaeris glabra Rhamnus crucea Bloomeria develandii * Avena Sp. * Bremus madatensi 1.1 m Level 4 Height Camera Angle	cted by checking 'Coll.' Cover Coll? 30 40 1 1 1 3 40 5 20 410 -417 Photo # S/OS/MS	SCP_ion/s
List dominant, subdominant and invasive spece Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu Species Dudleya variegata Malosma laurina Ave misla californica Eriogenum fasciculatum Salvia apiana [Salvia apiana [Salvia apiana [Salvia apiana [Salvia apiana [Salvia menziesii Congtruggne filaginifolia Shpa puluhra IV. SITE PHOTOMONITORING Camera type: <u>Pentax Optio W9</u> 6407136.242 1787954.48 Location [State Plane (ft)] V. OTHER FIELD NOTES	ate non-native species imber (submit to SDN Cover Coll? Coll. # 3 7 10 7 5 3 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	s; 'Cover"= % cover of species; Note if colle HM unless otherwise noted). Species Selaginella ancresuns Herodium botrys Malacothnix clerulandi * Hypechaeris glabra Rhamnus crucca Bloomeria develandii * Avena Sp. * Bromus madatensi Height Camera Angle	Cover     Coll.'       30     30       40     1       1     1       3     40       5     2.0	SCP_ion/s
List dominant, subdominant and invasive spece Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection nu Species Dudleya variegata Malosma lawrina Avtemisla californica Eriogonum fascicalatum Salvia apiana I Salvia apiana I Salvia apiana I Salvia apiana I Salvia menziesti Congtrogune filaginifolia Shpa pulchra IV. SITE PHOTOMONITORING Camera type: <u>Pentax Optio W9</u> 6407136.242 1787954.48 Location [State Plane (ft)]	ate non-native species imber (submit to SDN Cover Coll? Coll. # 3 7 10 7 5 3 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	s; 'Cover"= % cover of species; Note if colle HM unless otherwise noted). Species Selaginella ancresuns Herodium botrys Malacothnix clerulandi * Hypechaeris glabra Rhamnus crucca Bloomeria develandii * Avena Sp. * Bromus madatensi Height Camera Angle	Cover     Coll.'       30     30       40     1       1     1       3     40       5     2.0	iCP

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

Continue on back if needed,

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
Vary Poor	0-20% Native Flora Composition Vegetation Structure disappeared Cover/abundance of weeds 60-80% any number of individuals Disturbance incidence very high

\* Bromme hordeacens 20 \* Festuca myuros 15 Osmaßienia tenella 1 Gutierrezia sanothrae 3 \* Centanrea melitensis 1

### *Dudleya variegata* (Variegated Dudleya) Marron Valley



Panorama from Northern edge of population, facing Southeast, South, Southwest. Panorama location is 6407136.24 1787954.48 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Scientific Name: Dudleya variegat	а		Common N	ame: Vari	egated Dudle	ya		
Site Name: Mercy Road			Manageme	nt Unit #: TBD				
Date: 5/9/13			Manageme	nt Regime: TBD	1			
Surveyors and Affiliation/Agency: Bets	y Miller	KI	in Rocla	nd Mile	Milanu			
		4	f san Di	POID				
Species Found? Xes 🗆 No			If not, why (if	reason known or susp	ected)?	_		
Total No. Individuals: 5	Exact	] Estimat		10, 100 and 1000 for				
Population/Subpopulation Area:	.68	M Z Unit		ct (based on GPS ma		timate		
If yes:	Yes 📈 N		Collected Previo					
Collector	and the second		ollection Number	Mi	seum/Herbarium	_	-	-
I. OBSERVATION AREA/MANAGEMEN	T UNIT LOO	and the second second	A Real Property of the American State	-			-	and the
Accuracy of Coordinates/GPS Error: +/-	<1	✓ mete	ers 🗌 feet	1	_			
Observation Location: 6294234.759	192	4445.85	4	✓ State Plane (feet)		1		
II. GENERAL HABITAT DESCRIPTION	AND THRE	ATS AS	SSESSMENT					
	Contract Contract lack	~	0	sciculatum	Alliance /	Arte	mis	ia
Vegetation Community: Artemisia cal Landowner/Manager: <u>City of San Diego F</u>	Park and Red	creation	J californi	cq-Erigonw	n fascicu	latu	m-	Opun
Overall Site Quality**	od-Excellent		Fair to Go	ord Poor	oralis pui	alleya erv Poo	(edu	415) 1
		da al						
Surrounding land use: <u>Open Space</u>	e presta	nenn	-u					
Disturbances and/or threats (be specific, inclu			Managemen	t Recommendation	/s:			
of disturbance or percent cover of disturbance	e if possible):							
low to moderate cover			Non	ne				
NN grass and End	ium							
			1					
III. ASSOCIATED SPECIES				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-1-1-1-1			- 2
List dominant, subdominant and invasive spec	rias in/near t	arnat en	acies observat	ion area/managem	ent unit			-
Species'=List all species (sci. name). Use * to indic						ckina '	Coll.'	- L
column; if submitted to herbarium, note collection nu								
pecies	Cover Coll?	Coll. #	Species			Cover	Coll?	Coll. #
Dudleya variegata	2			alittoralis		1		-
Artemisia californica	12		Acmis	pon glat	ev C.I.	3	-	-
Rhus integritolia Eniogonum feisciculatum	53		Coven	rogyne fil. dra fuscici	aginitolia	5	-	-
Adolphia californica	3			chium belli		T	1	
Pentoma andorea	Ĩ.			Mus spleno		1		
Salvia mellifera			Bioom	ena croces		1		
Isocoma menziesii	5		Tettne	ra venusta		1		1
V. SITE PHOTOMONITORING								
Camera type: <u>Pentax</u> Optio W9C	)							
oundarypo. VPVIIVA UVIIDVVIC		11.47	1.1 m	5* down	283-28	7 s	OS/M	SCP
		100						
	SW, W, N Direction (		Height	Camera Angle	Photo #	Fi	le loca	
6294234.759 192445.8536 Location [State Plane (ft)]	SW, W, N Direction (	facing)	Height	Camera Angle				tion/s
6294234.759 192445.8536 Location [State Plane (ft)] Location [State Plane (ft)]	SW, W, N	facing)	and the second design of the s		Photo #		le loca le loca	tion/s
6294234.759 192445.8536 Location [State Plane (ft)]	SW, W, N Direction (	facing)	Height	Camera Angle				tion/s
6294234.759     192445.8536       Location [State Plane (ft)]       Location [State Plane (ft)]       V. OTHER FIELD NOTES	SW, W, N Direction (	facing)	Height	Camera Angle				tion/s
6294234.759 192445.8536 Location [State Plane (ft)]	SW, W, N Direction (	facing)	Height	Camera Angle				tion/s
6294234.759 Location [State Plane (ft)] Location [State Plane (ft)] V. OTHER FIELD NOTES	SW, W, N Direction (	facing)	Height	Camera Angle				tion/s

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

Lomatium dasycarpum	5
Stipa pulchra	7
Selaginella cinerascens	10
* Vulpia myunos	40
* Bromus madentensis	1
* Enodium sp	10
Logha filagindides	1
* Hypochaen's glabra	1
* rentaurea melitansis	1
* Brachypodium distachyon	19

## *Dudleya variegata* (Variegated Dudleya) Mercy Road



Panorama from Northwestern edge of population, facing Southwest, West, Northwest. Panorama location is 6294492.70 1924435.77 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Scientific Name: Dudleya varieg	ata		Common Na	ame:	Variega	ated Dudley	/a		
Site Name: MTRP- Subpor	o 1		Managemer	nt Unit #:	TBD				
Date: 5/9/13			Managemer	t Regime:	TBD				
Surveyors and Affiliation/Agency:	Miller +	Mit			1-80	Diego	-		
		1470		1999	- Sen	e.g.			
Species Found? Yes 🗌 No 🔄			If not, why (if r	eason known c		d)?	_	_	
Total No. Individuals: 19	Exact Es	stimate	(use orders of 1						
Population/Subpopulation Area: 103	.91	m2	1	t (based on G			timate		
		Units		13 CPS a	La a		umate		- 1
Collection (if not collected previously)? If yes:	Yes No		Collected Previou						
Collector		Co	ellection Number		Museu	m/Herbarium	-		
I. OBSERVATION AREA/MANAGEME	NT UNIT LOCA	TION	l .						200
Accuracy of Coordinates/GPS Error: +/-	<1 2	] mete	rs 🗌 feet						
Observation Location: 6309627.306	18797	05.912		✓ State Plane	e (feet)	UTM	_		
I. GENERAL HABITAT DESCRIPTION	LAND THEFT	0.40	OFOOLIENT						
Landowner/Manager: <u>City of San Diego</u> Overall Site Quality** Surrounding land use:	Good-Excellent		Fair to Go	od L	Poor		ery Poor		
	Juda and		Maaa	0	data - L	1			
Disturbances and/or threats (be specific, inc of disturbance or percent cover of disturban			Management	Recommen	dation/s:				
			none						
rearry trail is fenced			none						
		_					_	-	-
III. ASSOCIATED SPECIES		-			-				
List dominant, subdominant and invasive sp					•		alvian 10	-	
Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection				and the second	vote if col	lected by che	cking C	011.	
pecies	Cover Coll? C		Species	a subscription of the			Cover	Coll?	Coll. #
Budleya Variegata,	1	đ	Fredjum	00.			7		
Errogenum facciculatum	10	ø	Centaured	melite	rsis		2	-	
Petitoma arborea	5	4	Logfia 9	allica,			3	_	
Malosma laurina	3		Febcact		cens		1		
Aramesia californica	7	-	Stepa pu	lchra			10		
Semandra fasciculata	3	1	Avena sp Bromus	madrida	ain .	es alla	40.2		
alchortus splendens	1	a d	Bromus h	ordearry	and s	p. runa	1	-	
V. SITE PHOTOMONITORING				and on			100	in sta	
Camera type:Pentox Opt	io W90								
6309627.306 1879705.912	NW, N, NE	1	1.1 m	5* down		384-388	s/c	OS/MC	SP
Location [State Plane (ft)]	Direction (fac	cing)	Height	Camera A	Ingle	Photo #	-	e locat	
Location [State Plane (ft)]	Direction (fac	cing)	Height	Camera A	Ingle	Photo #	File	e locat	ion/s
V. OTHER FIELD NOTES									
Other Field Notes/Comments:									
And the state of the state of the									
							_	-	

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

Specifies Acmispon glaber Bahiopsis lacinata \* Brachypoolium distachyon \* Festuca myuros

% cover 2

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## *Dudleya variegata* (Variegated Dudleya) Mission Trails Regional Park Subpopulation # 1



Panorama from the Southern edge of population, facing Northwest, North, Northeast. Panorama location is 6309627.30 1879705.91 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Min Area: 20.4 sq. m.

Created by: Mike Milano, 2013



SanGIS 222

Site Name:       MTRP-Subpop 2       Management Regime: TBD         Date:       Sit/1/3       Management Regime: TBD         Surveyors and Affiliation/Agency:       Chick of Milling Agency:       An iter Milling Agency:         Species Found?       Site       No       If not, why (if reason known or suspected)?         Total No. Individuals:       Species Jound?       Site       If not, why (if reason known or suspected)?         Population/Subpopulation Area:       Site       Species of 10, 100 and 1000 for estimates)         Population/Subpopulation Area:       Site       Species for Area       Species of Site Milling Agency:         Collection (if not collected previously)?       I've       Species Site Area       Museum/Herbanum         I. OBSERVATION AREAMANAGEMENT UNIT LOCATION       Accuracy of Coordinates/GPS Error:       -       -       -         I. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT       Vegetation Community:       Adminic Californic	Scientific Name: Dudleya variegata	1	Common	Name: Varie	gated Dudley	а	
Date:       Strangement Regime: TBD         Surveyors and Attiliation/Agency:       Markey ML(May, Karky, Median, Adver ML(adver, Markey, ML(adver,				the second se	<u> </u>		
Surveyors and Affiliation/Agency: Party Million, Party, Party, Party, Party, Million, Area         Species Found?       Yes       No         Ind, why (I reason known or suspected)?         Total No. Individuals:       241/4       Statu Diegn.         Species Found?       Yes       No       If not, why (I reason known or suspected)?         Population/Subpopulation Area:       IST YS       Yes       Yes         Collection (If not collected previously)?       Yes       Yes       Yes         Collector       Collector Number       Museum/Herbanum         1. OBSERVATION AREAMANAGEMENT UNIT LOCATION       Accuracy of Coordinates/GPS Error: +/	and the second sec						
Species Found?       System Diego         Species Found?       System Diego         If not, why (if reason known or suspected)?         Total No. Individuals:       2414         Species Found?       State         Population/Subpopulation Area:       ISIN State         Species State Diego       State Closed on GPS mapping)         Estimate       Species State Diego         Collector       Collector Number         Masses       Species State Diego         Collector       Collector Number         Masses       Golector Number		w Mille.			Kalan	-	
Species Found?       Mres       No       If not, why (if reason known or suspected)?         Total No. Individuals:       24/14       Exact       Estimate (use orders of 10, 100 and 1000 for estimates)         Population/Subpopulation Area:       15/148       mt       Exact (leased on GPS mapping)       Estimate         Collection (if not collected previously)?       Vers       Mine       Zeris 6/3 0x74x       Collection Rumber       Museum/Herbanum         I. OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Accuracy of Coordinates/GPS Error: +1       1       Imeters       If test         Observation Location:       3308627.305       1973705.912       State Plane (feet)       UTM         II. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT       Vegetation Community:       Artemision Californico Califori Californico C	ourveyore and sumations igeney. Totals		and the second sec	the second s	MILLIPIA		-
Total No. Individuals:       241/4       Stead:       Estimate (use orders of 10, 100 and 1000 for estimates)         Population/Subpopulation Area:       ISI.49       INT       Stead: (based on GPS mapping)       Estimate         Collection (if not collected previously)?       Yes       Yes       Collection Number       Museum/Herbanum         1. OBSERVATION AREAMANAGEMENT UNIT LOCATION       Accuracy of Coordinates/GPS Error: +/	Species Found?	ang a		/3			
Collection (if not collected previously)?       Yes       White       2e15 6/15 Dafta         Collection       Collection       Collection       Collection       Museum/Herbarium         1. OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Accuracy of Coordinates/OPS Error: +-       <1	Total No. Individuals: 2414	Éxact 🛛 E					
Collection (if not collected previously)?       Yes       Yes       Collector       Collector Number       Museum/Herbanum         1. OBSERVATION AREA/MANAGEMENT UNIT LOCATION       Accuracy of Coordinates/OPS Error: +/- <_1 @ meters	Population/Subpopulation Area: 151	.48			ping) Est	imate	
1. OBSERVATION AREA/MANAGEMENT UNIT LOCATION         Accuracy of Coordinates/GPS Error: +/	If yes:	Yes No	Collected Pre	viously			
Accuracy of Coordinates/GPS Error: +/         State Plane (feet)				per Mus	eum/Herbarium		
Observation Location:       6309627.305       1879705.912       Iste Plane (feet)       UTM         II. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT         Vegetation Community:       Adomision Californico-Econopanuy fasciculatum Alliconce / Ardemisia Californico-Landowner/Manager:       City of San Diego Park and Recreation Erogonown fasciculatum - Opuntia Littoralis/ Dudley Overall Site Quality*         Overall Site Quality*       Uvery Good-Excellent       Image: City of San Diego Park and Recreation Erogonown fasciculatum - Opuntia Littoralis/ Dudley Over Association         Surrounding land use:       Open Space       Image: City of San Diego Park and Recreation Erogonown fasciculatum - Opuntia Littoralis/ Dudley Over Association         Surrounding land use:       Open Space       Image: City of San Diego Park and Recreation Erogonown fasciculatum - Opuntia Littoralis/ Dudley Over Association         Surrounding land use:       Open Space       Image: City of San Diego Park and Recreation Erogonown fasciculatum - Opuntia Littoralis/ Dudley Over Association         Management Recommendation/s:       Management Recommendation/s:       Image: City of San Diego Park and Park	the first of the second					-	
II. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT         Vegetation Community:       Artemisia Californica Encooping fasciculation Altionce Artemisia Californica	Accuracy of Coordinates/GPS Error: +/-	<1	meters fe				
Vegetation Community:       Artemisia Californica-Encognum fasciculatum Attiance (Artemisia californica- City of San Diego Park and Recreation Encognum fasciculatum - Opuntia littoralis/Dudley         Overall Site Quality**       Over Good Excellent       The count of the californica - Encognum fasciculatum - Opuntia littoralis/Dudley         Overall Site Quality**       Over Good Excellent       The count of the californica - Encognum fasciculatum - Opuntia littoralis/Dudley         Surrounding land use:       Open Space       Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible):       Management Recommendation/s:         Modernatic or percent cover of disturbance if possible):       Management Recommendation/s:       With ing         Mill. ASSOCIATED SPECIES       List dominant and invasive species in/near target species observation area/management unit.       Species (sci. name). Use * to indicate non-native species; Cover* % cover of species; Note if collected by checking 'Coli' column; if submitted to herbarium, note collection number (submit to SDNHW unless otherwise noted).         Species       Cover Coli? Coli #       Species collected by checking 'Coli' coli #         Malessman Ladderna       10       Distribution of coline and collected by checking 'Coli' coline #         Species       Cover Coli? Coli #       Species collocated by checking 'Coli' coline #         Species       Cover Coli? Coli #       Distribution fasciculatum collocated by checking 'Coli' coli #         Spe	Observation Location: 6309627.305	18797	05.912	✓ State Plane (feet)	Ш итм		
Landowner/Manager:       City of San Diego Park and Recreation       Errogonium fosciculatum - Optinita littoralis/Dudley         Overall Site Quality**       Very Good-Excellent       If Fair to Good       Poor       Very Poor       Associat         Surrounding land use:       Optinita Space       Management Recommendation/s:       Very Poor       Associat         Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible):       Management Recommendation/s:       IVERA include extent         Modernal:       Species       Management Recommendation/s:       IVERA include extent       IVERA include extent         III. ASSOCIATED SPECIES       Management Recommendation include extent       Management and invasive species: 'Cover's % cover of species; Note if collected by checking 'Coll.'         Species       Cover Call?       Coll #       Species: Cover's food in the collected by checking 'Coll.'         Species       Cover Call?       Coll #       Species food in the second coll on the second species; 'Cover's food in the collected by checking 'Coll.'         Species       Cover Call?       Coll #       Species       Cover Call? Coll #         Species       Cover Call?       Coll #       Species is content on the second species; 'Cover's % cover of species; Note if collected by checking 'Coll.'         Species       Cover Call?       Coll #       Species is con	II. GENERAL HABITAT DESCRIPTION A	ND THREAT	S ASSESSME	١T			1.2.1
Landowner/Manager:       City of San Diego Park and Recreation       Errogonium fosciculatum - Optinita littoralis/Dudley         Overall Site Quality**       Very Good-Excellent       If Fair to Good       Poor       Very Poor       Associat         Surrounding land use:       Optinita Space       Management Recommendation/s:       Very Poor       Associat         Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible):       Management Recommendation/s:       IVERA include extent         Modernal:       Species       Management Recommendation/s:       IVERA include extent       IVERA include extent         III. ASSOCIATED SPECIES       Management Recommendation include extent       Management and invasive species: 'Cover's % cover of species; Note if collected by checking 'Coll.'         Species       Cover Call?       Coll #       Species: Cover's food in the collected by checking 'Coll.'         Species       Cover Call?       Coll #       Species food in the second coll on the second species; 'Cover's food in the collected by checking 'Coll.'         Species       Cover Call?       Coll #       Species       Cover Call? Coll #         Species       Cover Call?       Coll #       Species is content on the second species; 'Cover's % cover of species; Note if collected by checking 'Coll.'         Species       Cover Call?       Coll #       Species is con							
Overall Site Quality**       Overy Good-Excellent       Image: Open Space         Surrounding land use:       Open Space         Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible):       Management Recommendation/s:         Mtdarad:       Down Mm grass         III. ASSOCIATED SPECIES         List dominant, subdominant and invasive species in/near target species observation area/management unit.         Species       Species: Soit arreno. 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.#         Dudlicya       Uange: Cover Coll? Coll.#         Diducidsmant fast: provide the collection number (submit to SDNHM unless otherwise noted).         Species       Cover Coll? Coll.#         Diducidsmant fast: provide the collection number (submit to SDNHM unless otherwise noted).         Species       Cover Coll? Coll.#         Diducidsmant fast: provide the collection number (submit to SDNHM unless otherwise noted).         Species       Cover Coll? Coll.#         Diducidsmant fast: provide the collected by checking 'Coll.*         Adversa       10         Halescath and the contended cover fast: provide the collected by checking 'Coll.*					Opuntia litt	oralis/E	Judleya (
Surrounding land use: Open Space Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible): Moderat coven Mm grass III. ASSOCIATED SPECIES List dominant, subdominant and invasive species in/near target species observation area/management unit. Species <sup>5</sup> -List all species (sci. name). Use * to inflicate non-native species; Cover <sup>6</sup> = % 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 <sup>6</sup> Coll? Coll. # Dudirya variegata 10 DicheldStemma Corpitatum 41 Enrogenum fasciculatum 10 Ferreraturs vindersens 11 Enrogenum fasciculatum 10 Ferreraturs vindersens 11 Enrogenum fasciculatum 1 Seleginella enterasis 10 Malacathampus, fasciculatus 1 Species 2 Coverfungative files 1 N. SITE PHOTOMONITORING Camera type: Pentax Optio Wa0 Eadoe27.306 1879705.912 NW, N, NE 1.1 m 10-15' down 246 -373 S/OS/MSCP Tocation [State Plane (ft)] Direction (facing) Height Camera Angle Photo # File location/s V. OTHER FIELD NOTES			-		Ve	ry Poor A	ssociatio
Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible): Moderate cover of possible if collected by checking 'Coll.' Species Cover Coll? Coll. # Moderate cover coll? Coll. # Disturbances otherwise noted). Species Cover Coll? Coll. # Disturbances of the cover of t			-				
of disturbance or percent cover of disturbance if possible):       Meding         Medinal       Weiding         III. ASSOCIATED SPECIES       Weiding         List dominant, subdominant and invasive species in/near target species observation area/management unit.       Species (sci. name). Use * to indicate non-native species; Cover*s (cover of species; Note if collected by checking 'Coll.' coll.*         Species*List all species (sci. name). Use * to indicate non-native species; Cover*s (cover of species; Note if collected by checking 'Coll.' coll.*         Species       Cover Coll? Coll.#         Durified to herbarium, note collection number (submit to SDNHM unless otherwise noted).         Species       Cover Coll? Coll.#         Durified to herbarium, note collection number (submit to SDNHM unless otherwise noted).         Species       Cover Coll? Coll.#         Durified to herbarium, note collection number (submit to SDNHM unless otherwise noted).         Species       Cover Coll? Coll.#         Durified to herbarium, note collection numbers (submit to SDNHM unless otherwise noted).         Species       Cover Coll? Coll.#         Durified to herbarium, note collection numbers (submit to SDNHM unless otherwise noted).         Species       Cover Coll? Coll.#         Malesman Latwarm       Species         Advertista Call.formice       Coptinities         Galitium aregustificium       1	· · · ·						
column; if submitted to herbarium, note collection number (submit to SDNHM unless otherwise noted).  Species Cover Coll? Coll. # DicheldStemma Corpitation Malestina lawning Bichlondva accidentalis Linegonium fasciculation 10 Ferozactus viridesens 1 Ferozactus 1	III. ASSOCIATED SPECIES List dominant, subdominant and invasive speci	ies in/near tar	get species obser	vation area/manageme		kina 'Coll '	
Dudleya wawega ta       10       Dichelostemma capitatum       41         Malosima Jawima       3       Dichelostemma capitatum       41         Eniogonum fasuculatum       10       terocactus viridesens       1         Aremisia californica       5       Optimia literatis       1         Anemisia californica       5       Optimia literatis       1         Galium angustifelium       1       Selaginella erineratis       1         Malocathamnus fasuculatus       1       Isocoma menziesii       1         Aumispen glaber       5       Correthuogyput filaginifolia I       1         Calochertus splendens       1       Derinandra fasuculatu       1         IV. SITE PHOTOMONITORING       1       Derinandra fasuculatu       1         Galogez7.306       1879705.912       NW, N, NE       1.1 m       10-15° down       3u8-373 s/Os/MSCP         Location [State Plane (ft)]       Direction (facing)       Height       Camera Angle       Photo #       File location/s         V. OTHER FIELD NOTES       V. OTHER FIELD NOTES       V.       Other State       Photo #       File location/s						ang con.	
Malesma laubina       3       Dictiondra occidentalis       ci         Enjogonum fasuculatum       10       terocachus vindesens       i         Anemisia californica       5       Opuntia litteralis       i         Galium argushtelium       1       Selaginella einerasiens       io         Malecathamnus fasuculatus       1       Isocoma menziesii       i         Malecathamnus fasuculatus       1       Isocoma menziesii       i         Aumispen glaber       5       Corectnogynu filoginitolia t       i         Aumispen glaber       5       Corectnogynu filoginitolia t       i         Aumispen glaber       5       Corectnogynu filoginitolia t       i         Malecathamnus spen glaber       1       Deinandra fascicultata       i         Calichoritus splendens       1       Deinandra fascicultata       i         IV. SITE PHOTOMONITORING       I       Deinandra fascicultata       i         Camera type:       PPNTAX Optio WQO       6309627.306       1879705.912       NW, N, NE       1.1 m       10-15* down       308-373 S/OS/MSCP         Location [State Plane (ft)]       Direction (facing)       Height       Camera Angle       Photo #       File location/s         V. OTHER FIELD NOTES       V. OTHER			and a second sec			Contraction of States of States	Coll. #
Eniogonum fasuculatum       10       Ferreactus viridesens       1         Araemisia californica       5       Opinitia Littoralis       1         Galium angustifelium       1       Selaginella evinerastens       10         Malecathannus fasuculatus       1       Selaginella evinerastens       10         Malecathannus fasuculatus       1       Selaginella evinerastens       10         Malecathannus fasuculatus       1       Selaginella evinerastens       10         Aumispen glaber       5       Correthrogypu filaginifelia       1         Aumispen glaber       5       Correthrogypu filaginifelia       1         Monther et al.       1       Deiviandira fasticultatus       1         N. SITE PHOTOMONITORING       1       Deiviandira fasticultatus       1         Camera type:       PENTAX Optio WQO       6309627.306       1879705.912       NW, N, NE       1.1 m       10-15° down       308 - 373       S/OS/MSCP         Location [State Plane (ft)]       Direction (facing)       Height       Camera Angle       Photo #       File location/s         V. OTHER FIELD NOTES       V. OTHER FIELD NOTES       1       Direction (facing)       Height       Camera Angle       Photo #       File location/s	Dudleya vanegata	10					
Aremisia       Californica       5       Optinitia (Heralis       (         Galium       angustifelium       1       Selaginella       civerastens       10         Malecamanus       fasuculatus       1       Isocoma       menziesii       1         Aumispen       glaber       5       Coverthiogypu       filaginifelia       1         Aumispen       glaber       5       Coverthiogypu       filaginifelia       1         IV. SITE PHOTOMONITORING       5       Coverthiogypu       filaginifelia       1         Calocino rhus       splendens       1       Derviandira       filaginifelia       1         IV. SITE PHOTOMONITORING       6309627.306       1879705.912       NW, N, NE       1.1 m       10-15* down       3u8 - 373       S/OS/MSCP         Galiution [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       V. OTHER FIELD NOTES       Image: State Plane       Sta			FRIOT	actus wind	IPIAC	1	
Galium angustifelium       1       Selaginella enverasiens       10         Malacamannus fasurulatus       1       Isocoma menziesii       1         Aumispen glaber       5       Correthiogypu filaginifolia i       1         IV. SITE PHOTOMONITORING       1       Deinandra fasurulatus       1         Galoubortus       splendens       1       Deinandra fasurulatus       1         IV. SITE PHOTOMONITORING       1       Deinandra fasurulatus       1       1         Galoubortus       splendens       1       Deinandra fasurulatus       1       1         IV. SITE PHOTOMONITORING       1       Deinandra fasurulatus       1       1       1       1         Galoubortus       splendens       1       Deinandra fasurulatus       1       1       1         K. SITE PHOTOMONITORING       1       1       10-15* down       3u8 - 373       S/OS/MSCP         Galoubortus       1879705.912       NW, N, NE       1.1 m       10-15* down       3u8 - 373       S/OS/MSCP         Location [State Plane (ft)]       Direction (facing)       Height       Camera Angle       Photo #       File location/s         V. OTHER FIELD NOTES       V. OTHER FIELD NOTES       Isoconometalestestestestestestestestestestestesteste	Agemisia californica				a vis	1	
Attmispen       glaber       5       Conchrogyput       filaginitalia       1         IV. SITE PHOTOMONITORING       Derinandra       fasurcultata       1         IV. SITE PHOTOMONITORING       Camera type:       Pentax Optio W90       6309627.306       1879705.912       NW, N, NE       1.1 m       10-15* down       368-373       S/OS/MSCP         Elocation [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       V.       OTHER FIELD NOTES       V       Other state       V       V	Galium angustitolium	1			lens	10	
CalochorAus       Splendens       Definandr& Austricultata       I         IV. SITE PHOTOMONITORING       IV. SITE PHOTOMONITORING       IV. SITE PHOTOMONITORING       IV. SITE PHOTOMONITORING         Camera type:       Pentax       Optio       Value       IV. Site Photo       IV. Site Photo         6309627.306       1879705.912       NW, N, NE       1.1 m       10-15* down       3u8 - 373       S/OS/MSCP         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       V. OTHER FIELD NOTES       IV. State Plane (ft)       IV. S		1				1	
IV. SITE PHOTOMONITORING     Image: Camera type: PRNTax Optio W90       Gamera type: PRNTax Optio W90     Image: Signature for the formation of the forma	Calcinornis splendens	5	Dein	margy file file	ginitolia	1	-
6309627.306       1879705.912       NW, N, NE       1.1 m       10-15* down       368-373       S/OS/MSCP         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       V.       OTHER FIELD NOTES       V.       V.       V.       V.		1	10 00 111	The practice	TETTER .		111
6309627.306       1879705.912       NW, N, NE       1.1 m       10-15* down       368-373       S/OS/MSCP         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       V.       OTHER FIELD NOTES       V.       V.       V.       V.		190					
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       View of the second			1.1 m	10-15* down	368-37	3 SIOSIN	ISCP
V. OTHER FIELD NOTES							
	Location [State Plane (ft)]	Direction (fa	cing) Height	Camera Angle	Photo #	File loc	ation/s
	V. OTHER FIELD NOTES	-1		N. The second			1
	Other Field Notes/Comments:						

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

Continue on back if needed.

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

Pentoma anbovea	1
Sisyninchium bellum	1
Bacchan's Santhuoides	1
+ centaurea melitensis	1
* Brassiin nigra	1
* Avena sp.	5
* Endium Sp.	3
Selaginella bigelovii	41
Stiph pulchra	15
1 omatium dasycarpum	3
* Brachypodium distache	jon 40
* Vulpia myunos	20
* Logfia gallica	3

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## *Dudleya variegata* (Variegated Dudleya) Mission Trails Regional Park Subpopulation # 2



Panorama from Northeastern edge of population, facing West, Northwest, North. Panorama location is 6309627.31 1879705.91 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Scientific Name:	Dudlova variegat		-		Common I	Vomo:	Variegat	ed Dudle	10		
	Dudleya variegata	And the second s				and the second	State and the second	eu Duule	ya		
Site Name:	MTRP- Subpop 3				Managem	All the second second second	TBD				
Date: 5/9/13		1			and the second s	ent Regime:		*			
Surveyors and Affiliat	tion/Agency: 13ets	gni	Ila	, Fi	n Roele	and, Mi	ke ple	land			
				CITU	of san	Dieg	19 C 2	1			
Species Found?	Yes No			,		\$					
		1			If not, why (	if reason known o	r suspected	)?			
Total No. Individuals:	195 D	Exact		Estimat	e (use orders o	f 10, 100 and 10	000 for estir	mates)			
Population/Subpopulati	on Area: 13.5	2		ME	× ×	kact (based on G	PS mapping	a) 🗌 Es	timate		
		5.2	/		s 2	013 GISDE	Ita				
Collection (if not collect	ed previously)?	Yes	< No	D 0	Collected Previ	ously					
If yes:	Collector	-	- 1		ollection Numbe		Museum	/Herbarium			
				and a state of the	12	1	Museum	rierbanum			21
I. OBSERVATION A		All and a second second	100.000	and the second second	-		_		-		- 14
Accuracy of Coordinate	s/GPS Error: +/-	•	<1	✓ met	ers 🗌 fee			-			
Observation Location:	6309578.77		188	0426.96	3	✓ State Plane	(feet)	שדט 🗌	1		
II. GENERAL HABIT	AT DESCRIPTION A	AND TH		ATS AS	SESSMEN	Г	- 1 -	1-		-	
Vegetation Community:		COLUMN 2011 DURING	of the second	And the second s	Course Course for and Annual Course		-late	IS SCON	will	2	_
Landowner/Manager:	City of San Diego P				1 Intostile	A GAMPING	1010	Assoc	int	on	
			1	readon	rtr		1				
Overall Site Quality**	Very Go		lent		Fair to C	Good L	Poor		ery Poc	r	
Surrounding land use:	Open space	l									
Disturbances and/or thr	eats (he specific inclu	de exter	nt		Manageme	nt Recommen	dation/s.		-		
of disturbance or percer	nt cover of disturbance	if possi	ble):								
the second se	grasses a his	1. S. M. M.			Keep	no gras	ses fi	irom			
COVER aloun	Page of pop	1 mint	1× In		Invac	ling pop					
areng	rage of pop	41411	on	-		2 . 1					
			_						_	_	
III. ASSOCIATED SP	PECIES				1.1		-	1			
List dominant, subdomin	nant and invasive spec	ies in/n	ear ta	arget sp	ecies observa	ation area/man	agement	unit.			
Species'=List all species (s							Note if colle	cted by che	cking '(	Coll.'	
column; if submitted to her	barium, note collection nu	imber (si	ıbmit	to SDNF	IM unless other	rwise noted).			-	_	
Species		Cover	Coll?	Coll. #	Species				Cover	Coll?	Coll. #
Dudleya vane	egata	1			the second secon	ortus sp	Carlo and a second strength of the second str		1		-
Malosmalau	china	15			Dicho	ndra oc	udent	alis	5	-	
Acmispon g	Japer	5	-		* Erva	inella k	: n 2/	1.52	240		
Galium angi opinnha litto	15TTOINING	1			Selen	inella ci	never	ent	3	-	-
Enogonum	Casciculatum	3			Dodec	appeon	clevela	andil	3		
Isocoma me		1			+ Avena	SP.			5		
Artemisia c	allifornica	T			+ Brach,	podiuma	distail	NON	5		
IV. SITE PHOTOMO	NITORING							1			
Camera type: Pen	tax optio Wal	)									-
6309578.77	1880426.963	SE, S	S. SM	V	1.1 m	5-10* down		378-38	3 S/	OS/MS	SCP
Location [State P				facing)	Height	Camera A		Photo #	_	e loca	_
Location [State P	lane (ft)]	Direc	tion (	facing)	Height	Camera A	Ingle	Photo #	Fi	e loca	tion/s
V. OTHER FIELD NO	DTES		1	1	and the second	See.			1.1.1		
Other Field Notes/Comr											
	10 M 10										
				_							_

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

*Logfia gallica	5
Chiorogalum parvitionin	1
A Bromus hordeaceus	1
* Bromus diandrus	1
+ Bromus madatensis	1
* Vulpia myunos	10
* Silene gallica	1

## *Dudleya variegata* (Variegated Dudleya) Mission Trails Regional Park Subpopulation # 3



Panorama from Southwestern edge of population, facing Southeast, South, Southwest. Panorama location is 6309578.77 1880426.96 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Scientific Name: Dudleya varieg	ata	Common Name: Variegated Dudl	eya
Site Name: Navajo/Mission	Contraction of the Contraction o	Management Unit #: TBD	
Date: 5/9/13		Management Regime: TBD	
Surveyors and Affiliation/Agency:	a stille the		20.
Surveyors and Anniator Agency.	y repetter, M.	the meland corg of Can (S)	90
Species Found?		If not, why (if reason known or suspected)?	
Total No. Individuals: 582	Exact Estima	te (use orders of 10, 100 and 1000 for estimates)	
	656 m		Estimate
<u>, 121</u>	Uni		Louinde
If yes:		Collected Previously	
Collector		Collection Number Museum/Herbariur	m
I. OBSERVATION AREA/MANAGEME	A selection areas on a first spectra and a second		
Accuracy of Coordinates/GPS Error: +/-	<1 // met	ters 🔲 feet	
Observation Location: 6313035.509	1873558.41	8 State Plane (feet) UT	ГМ
II. GENERAL HABITAT DESCRIPTION	AND THREATS A	SSESSMENT	
		asciculation Alliance Artomista calibri	nica-Erionnum
Landowner/Manager: City of San Diego	Park and Recreation		ulis) Association
and the second sec	Good-Excellent		Very Poor
	Good Excellent		very roor
Surrounding land use:pen spa	ce		
of disturbance or percent cover of disturban	ce if possible):	Management Recommendation/s:	CRI
Disturbances and/or threats (be specific, inc of disturbance or percent cover of disturban moderate / high cover Bra	ce if possible):	treat Brachypolium using mothods when available	CBZ IF
of disturbance or percent cover of disturban moderate/high cover Boa	ce if possible):	here, the factor and the best here and the second second	067 17
of disturbance or percent cover of disturban moderate/high cover Bra III. ASSOCIATED SPECIES	ce if possible):	treat Brachypolium using mothods when available logistically possible	OBZ IF
of disturbance or percent cover of disturban <i>modura le high cover Bra</i> III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp <i>Species'=List all species (sci. name).</i> Use * to inc	nce if possible): chappedium pecies in/near target sp dicate non-native species	treat Brachypalium using methods when a vailable logistically possible pecies observation area/management unit. s; 'Cover''= % cover of species; Note if collected by ch	
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to inc column; if submitted to herbarium, note collection species	nce if possible): chappedium pecies in/near target sp dicate non-native species	treat Brachypalium using methods when a vailable logistically possible pecies observation area/management unit. s; 'Cover''= % cover of species; Note if collected by ch	
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to ind column; if submitted to herbarium, note collection species Dudliega Variega fa	eccies in/near target sp dicate non-native species number (submit to SDN Cover Coll? Coll. #	treat Brachypolium using methods when available logistically possible becies observation area/management unit. s; 'Cover'= % cover of species; Note if collected by ch HM unless otherwise noted). Species Boomerica cocca	hecking 'Coll.' Cover Coll? Coll.#
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to ind column; if submitted to herbarium, note collection species Dudleya Variegata Mindus aurantia cus	eccies in/near target sp dicate non-native species number (submit to SDN Cover Coll? Coll. #	teat Brachypalium using methods when available logistically possible becies observation area/management unit. s; 'Cover''= % cover of species; Note if collected by ch HM unless otherwise noted).	hecking 'Coll.' Cover Coll? Coll. #
of disturbance or percent cover of disturban moderade/high cover Bra III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to into column; if submitted to herbarium, note collection species Dudheya Variega fa Mindus aurantin cus Baccharis, Sara Harides	ce if possible): chypeolium pecies in/near target sp dicate non-native species number (submit to SDN/ Cover Coll? Coll. # 2 7 7	treat Brachypalium using mothods when available logistically possible pecies observation area/management unit. s; 'Cover''= % cover of species; Note if collected by ch HM unless otherwise noted). Species Boomerica cocea Brassica rigra Angga Mus arcensis	hecking 'Coll.' Cover Coll? Coll.#
of disturbance or percent cover of disturban moderade/high cover Bra III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to into column; if submitted to herbarium, note collection species Dudleya Variegata Mindus aurantiacus Baccharis Sara threides Rhus integriplia	ce if possible): chypedium becies in/near target sp dicate non-native species number (submit to SDN/ Cover Coll? Coll. # 2 7 7 2	treat Brachypalium using methods when available logistically possible becies observation area/management unit. s; 'Cover''= % cover of species; Note if collected by ch HM unless otherwise noted). Species Boomeria cocea Boomeria cocea Maga flus arcensis Stepa pulcha	hecking 'Coll.' Cover Coll? Coll. # 2 1 1 3
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to int column; if submitted to herbarium, note collection species Dudkeya Variega fa Mimalius aurantin cus Baccharis, Sara Harides	ce if possible): chypeolium becies in/near target sp dicate non-native species number (submit to SDN/ Cover Coll? Coll. # 2 7 7	treat Brachypalium using mothods when available logistically possible pecies observation area/management unit. s; 'Cover''= % cover of species; Note if collected by ch HM unless otherwise noted). Species Boomeria cocea Boomeria cocea Amaga //www.avensis Stepa pulcha Brachypoolium distachypon Feoduce myuns	hecking 'Coll.' Cover Coll? Coll.#
of disturbance or percent cover of disturban Modera de / high cover Bra III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to into column; if submitted to herbarium, note collection species Dudleya Variegata Mindus aurantia cus Baccharis Sara Harides Rhus in Legripolia Erioganum factinala tum Erioganum factinala tum Erioganum factinala tum Erioganum factinala tum	pecies in/near target sy dicate non-native species number (submit to SDN Cover Coll? Coll. # 7 7 2 7 4 3	treat Brachypalium using mothods when available logistically possible pecies observation area/management unit. s; 'Cover''= % cover of species; Note if collected by ch HM unless otherwise noted). Species Boomerica cocea Boomerica cocea Brassica nigra Anaga //w arcensis Stepa pulcha Bachypoolium distachypon Feotuca myuns Iso coma menzicsii	hecking 'Coll.' Cover Coll? Coll. # 2 1 1 3
of disturbance or percent cover of disturban Modera le / high cover Bra III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to into column; it submitted to herbarium, note collection species Dudkeya Variega fa Minduus aaran the cus Baccharis Sara Harides Rhus mugnifican Erioganum faccuala tum Erioganum faccuala tum Erioganum faccuala tum Erioganum faccuala tum Erioganum faccuala tum Erioganum faccuala tum	pecies in/near target sy dicate non-native species number (submit to SDN Cover Coll? Coll. # 7 7 2 7 4	treat Brachypalium using mothods when available logistically possible pecies observation area/management unit. s; 'Cover''= % cover of species; Note if collected by ch HM unless otherwise noted). Species Boomeria cocea Boomeria cocea Amaga //www.avensis Stepa pulcha Brachypoolium distachypon Feoduce myuns	hecking 'Coll.' Cover Coll? Coll. # 2 1 1 3
of disturbance or percent cover of disturban Modera le high cover Bra III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to inte column; if submitted to herbarium, note collection species Dudleya Variegata Minduus aurantia cus Baccharis Sara Hasides Rhus in Legrido Rhus in Legrido Rhus in Legrido Rhus in Legrido Trioganum factura tum Erisphy Ilum confertifionum Steomeles arbutifolia Sigmachium bellum IV. SITE PHOTOMONITORING	ce if possible): chypedium pecies in/near target sp dicate non-native species number (submit to SDN Cover Coll? Coll. # 7 7 7 7 4 3 15	treat Brachypalium using mothods when available logistically possible pecies observation area/management unit. s; 'Cover''= % cover of species; Note if collected by ch HM unless otherwise noted). Species Boomerica cocea Boomerica cocea Brassica nigra Anaga //w arcensis Stepa pulcha Bachypoolium distachypon Feotuca myuns Iso coma menzicsii	hecking 'Coll.' Cover Coll? Coll. # 2 1 1 3
of disturbance or percent cover of disturban Modera le / high cover Bra III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to inte column; if submitted to herbarium, note collection Species Dudkeya Variegata Mindus aurantia cus Baccharies Sarathroides Rus in keyriplia Erioganum factura tum Erioganum factura tum Erioganum factura tum Erioganum factura tum Erioganum factura tum Erioganum factura tum Erioganum factura tum IV. SITE PHOTOMONITORING Camera type: <u>Pentax Optiow</u>	pecies in/near target sp dicate non-native species number (submit to SDN Cover Coll? Coll. # 7 7 2 7 4 3 15	treat Brachypalium uoing mothods when available logistically possible pecies observation area/management unit. s; 'Cover"= % cover of species; Note if collected by of HM unless otherwise noted). Species Boomenia cocea Brassica nigre Amaga //w arcensis Stepa pulcha Brachypoolium distachyon Feotuca myuns Iso coma menzicsii Salvia nu lijera	hecking 'Coll.' Cover Coll? Coll. # 2 1 1 3
of disturbance or percent cover of disturban Modera le / high cover Bra III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to into column; if submitted to herbarium, note collection species Dudleya Variegata Mindus aurantia cus Baccharis Sara threides Rhus integriblia Erisganum faccinta tum Erisganum faccinta tum Erisganum faccinta tum Erisganum faccinta tum Erisganum faccinta tum IV. SITE PHOTOMONITORING Camera type: <u>Pent ax Optio Wi</u>	ce if possible): chypedium pecies in/near target sp dicate non-native species number (submit to SDN Cover Coll? Coll. # 7 7 7 7 4 3 15	treat Brachypalium using mothods when available logistically possible pecies observation area/management unit. s; 'Cover''= % cover of species; Note if collected by ch HM unless otherwise noted). Species Boomerica cocea Boomerica cocea Brassica nigra Anaga //w arcensis Stepa pulcha Bachypoolium distachypon Feotuca myuns Iso coma menzicsii	hecking 'Coll.' Cover Coll? Coll. # 2 1 3 40 1 1 1 1 5 S/OS/MSCP
of disturbance or percent cover of disturban Modera le / high cover Bra III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to into column; if submitted to herbarium, note collection species Dudleya Variegata Mindus aurantia cus Bacchanis Sara threides Rive integriblia Frieganum facturala tum Frieganum facturala tum Frieganum facturala tum Erischyllum confertificmum Stecome (es anbut ifelia Sizymchium bellum IV. SITE PHOTOMONITORING Camera type: <u>Pent ax Optio Wi</u> 6313035.509 1873558.418	Ace if possible): Curpedium pecies in/near target sp dicate non-native species number (submit to SDN Cover Coll? Coll. # 2 7 4 2 7 4 3 15 NE, E, SE	treat Brachypalium using mothods when available logistically possible becies observation area/management unit. s; 'Cover"= % cover of species; Note if collected by ch HM unless otherwise noted). Species Boomeria cover Boomeria cov	hecking 'Coll.'
of disturbance or percent cover of disturban Modera le / high cover Bra III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to inte column; if submitted to herbarium, note collection Species Dudleya Variega fa Minutus aurantia cus Baccharis Sara Hosides Rins in tegrifolia Eriogan un factin la tum Eriogan un factin la tum Synchium bellum IV. SITE PHOTOMONITORING Camera type: <u>Pent ax Optio W</u> 6313035.509 1873558.418 Location [State Plane (ft)]	Ace if possible): Accepted in m becies in/near target sp dicate non-native species number (submit to SDN/ Cover Coll? Coll. # 2 7 7 2 7 4 3 15 NE, E, SE Direction (facing)	treat Brachypalium uoing methods when available logistically possible becies observation area/management unit. s; 'Cover"= % cover of species; Note if collected by ch HM unless otherwise noted). Species Boomeria cocea Boomeria cocea Maga/lus arcensis Stopa pulcha Bachypoolium distachypon Feorlaca myunos Iso coma menzicsii Balvia mullifera 1.1 m 5-10* down 395-40 Photo #	hecking 'Coll.'
of disturbance or percent cover of disturban Modera de / high cover Bra III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to inc column; if submitted to herbarium, note collection species Dudleya Variega /a Mindus auran Fia cus Baccharis Sara Harides Baccharis Sara Hari	Ace if possible): Accepted in m becies in/near target sp dicate non-native species number (submit to SDN/ Cover Coll? Coll. # 2 7 7 2 7 4 3 15 NE, E, SE Direction (facing)	treat Brachypalium uoing methods when available logistically possible becies observation area/management unit. s; 'Cover"= % cover of species; Note if collected by ch HM unless otherwise noted). Species Boomeria cocea Boomeria cocea Maga/lus arcensis Stepa pulcha Bachypoolium distachypon Feorlaca myunos Iso coma menzicsii Balvia mullifera 1.1 m 5-10* down 395-40 Photo #	hecking 'Coll.'
of disturbance or percent cover of disturban <i>Modera le high cover Bra</i> III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to into column; if submitted to herbarium, note collection pecies Dudleya Variegata Mindlus aurantia cus Baccharis Sara Harides Prise Marine Sara Harid	Ace if possible): Accepted in m becies in/near target sp dicate non-native species number (submit to SDN/ Cover Coll? Coll. # 2 7 7 2 7 4 3 15 NE, E, SE Direction (facing)	treat Brachypalium uoing methods when available logistically possible becies observation area/management unit. s; 'Cover"= % cover of species; Note if collected by ch HM unless otherwise noted). Species Boomeria cocea Boomeria cocea Maga/lus arcensis Stepa pulcha Bachypoolium distachypon Feorlaca myunos Iso coma menzicsii Balvia mullifera 1.1 m 5-10* down 395-40 Photo #	hecking 'Coll.'

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

olo cover

Species 06 Callium angustifolium # Bromus hordeaceus <1

\* Brown madrifensis sep. rubers 2)

## *Dudleya variegata* (Variegated Dudleya) Navajo/Mission Gorge



Panorama from Northwestern edge of population, facing Northeast, East, Southeast. Panorama location is 6313087.92 1873620.15 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Scientific Name: Dudleya varieg	gata	Common Name:	Variegated Dudle	ya
Site Name: Otay Lakes	- n-	Management Unit #:	TBD	
Date: 5/2/20/3		Management Regime:	TBD	
Surveyors and Affiliation/Agency: Pan	n Roeland, Bit	ty Milla Mike Nila	105	1
		City of San Dieg		
Species Found? 🗌 Yes 🕅 No 🔄	dry	If not, why (if reason known o		
Total No. Individuals:	Exact Estim	nate (use orders of 10, 100 and 10		
Population/Subpopulation Area:	<u><u> </u></u>	Inits	GPS mapping)	stimate
Collection (if not collected previously)? If yes:	Yes No [	Collected Previously		
Collector		Collection Number	Museum/Herbarium	
I. OBSERVATION AREA/MANAGEME				
Accuracy of Coordinates/GPS Error: +/-	<u></u> <1 ⊻ m		_	
Observation Location: 6356396.908	1807139.5	545 State Plane	e (feet)	И
Landowner/Manager: City of San Dieg	o Public Utilities Dept Good-Excellent		AS	SOCIATION Very Poor
Surrounding land use: Dpen Span				
III. ASSOCIATED SPECIES List dominant, subdominant and invasive s			the Company of the second second second	
Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection			Note if collected by che	ecking 'Coll.'
Species	Cover Coll? Coll. #	and the second se		Cover Coll? Coll. #
	5	1 to a dia		
WODOHUM FUSCICULATUM		* croatum sp.		20
Tsocoma menziesi)	10	* Erodium sp. * Hypochaens glabra		20 15
Deinandra fasciculota	10	* Hypochaensglabra * Lepidium sp.		15
Esecema menzesii Deinandra fasciculata Aumispon glaber	10	* Hypochaensglabra * Lepidium sp. Bibomenia clevelar	ndii	
Esecema menziesii Deinandra fasciculata Acmispon glaber Salvia mellifera	10	* Hypochens glabra * Lepidium sp. Bioomenia clevelan * Bromus-mad nten	adii 151-5	15
Esecema menziesii Deinandva fasciculata Aumispon glaber Salvia mellilera Calorhortus splendens Veltpera venusta	10 10 2 1	* Hypocheens glabra * Lepidium sp. Bioomenia develant * Bromus-mad nicu K Bromus hordeac * Avena sp.	ndii 151°5 eus	15 <br 1 30 1
Esecema mendesii Deinandva fasciculata Aumispon glaber Salvia mellilera Calarhortus splendens Veltoera venusta	10 10 2 1 21	* Hypocheens glabra * Lepidium sp. Bioomenia develan * Bromus-mad niter * Bromus hordeac	ndii 151°5 eus	15 <br 1 30
Esécema mendesii Deinandra fasuiculota Aumispon glaber Salvia mellikera Calerhortus splendens Selfnera venusta Kentaurea melikusis IV. SITE PHOTOMONITORING	10 10 2 1 41 41 41 1	* Hypocheens glabra * Lepidium sp. Bioomenia develant * Bromus-mad nicu K Bromus hordeac * Avena sp.	ndii 151°5 eus	15 <br 1 30 1
Esocoma prenzizsii Deinandra fasuiculota Aumispon glaber Salvia mellikera Calochortus spiendens Leitnera venusta * Centaurea melikusis IV. SITE PHOTOMONITORING	10 10 2 1 41 41 41 1	* Hypocheens glabra * Lepidium sp. Bioomenia develant * Bromus-mad nicu K Bromus hordeac * Avena sp.	ndii 151°5 eus	15 <br 1 30 1
Esécema mendesii Deinandra fasciculata Acmispon glaber Salvia mellifera Calachortus splendens Seltnera venusta Centaurea melifensis IV. SITE PHOTOMONITORING	10 10 2 1 41 41 41 1	* Hypochens glabra * Lepidium sp. Bicomenia develai * Bromus mad nten * Bromus hordeac * Avena sp: * Testrica myuroo	ndii 151:5 eus 5	15 <br 1 30 1
Esécema mendesii Deinandra fasuiculota Aumispon glaber Salvia melliken Calochortus splendens Selfnera venusta Kentaurea melikensis IV. SITE PHOTOMONITORING Camera type:	10 10 2 1 21 21 21 21 1 1 1 1 1 1 1 1 1	* Hypocheens glabra * Lepidium sp. Bicomenia cuvelar * Bromus mad nitur K Bromus hordeac * Avena sp: kicstuca myuro 1.1 m 10* up Camera d	Angle <u>182-188</u> Photo #	15 -/ I 30 I 5 S/OS/MSCP
Esecema menzizsii Deinandra fasticulota Atmispon glaber Salvia melliken Calochortus splendens Selfnera verusta Kentaurea melikensis IV. SITE PHOTOMONITORING Camera type:	10 10 2 1 21 21 21 21 1 1 1 1 1 1 1 1 1 1 1 1 1	* Hypocheens glabra * Lepidium sp. Bicomenia cuvelar * Bromus mad niter K Bromus hordeac * Avena sp: kicstnea myuro 1.1 m 10* up Camera d	Angle <u>182-188</u> Photo #	15          I       30       I       5   S/OS/MSCP File location/s
Esocoma prenzizsii Deinandra fasciculota Acmispon glaber Salvia mellikem Calorhortus splendens Seltnera venusta Contaurea melitensis IV. SITE PHOTOMONITORING Camera type: <u>Peritox Op</u> 6356396.908 1807139.545 Location [State Plane (ft)]	10 10 2 1 2 1 21 21 21 1 KO WAO N, NE, E, SE Direction (facing) Direction (facing)	* Hypocheens glabra * Lepidium sp. Bioemenia develar * Bromus mad nten * Bromus hordeac * Avena sp: * icstrica myuroo 1.1 m 10* up D Height Camera n	Angle Photo #	15 -/ I 30 I 5 S/OS/MSCP File location/s File location/s

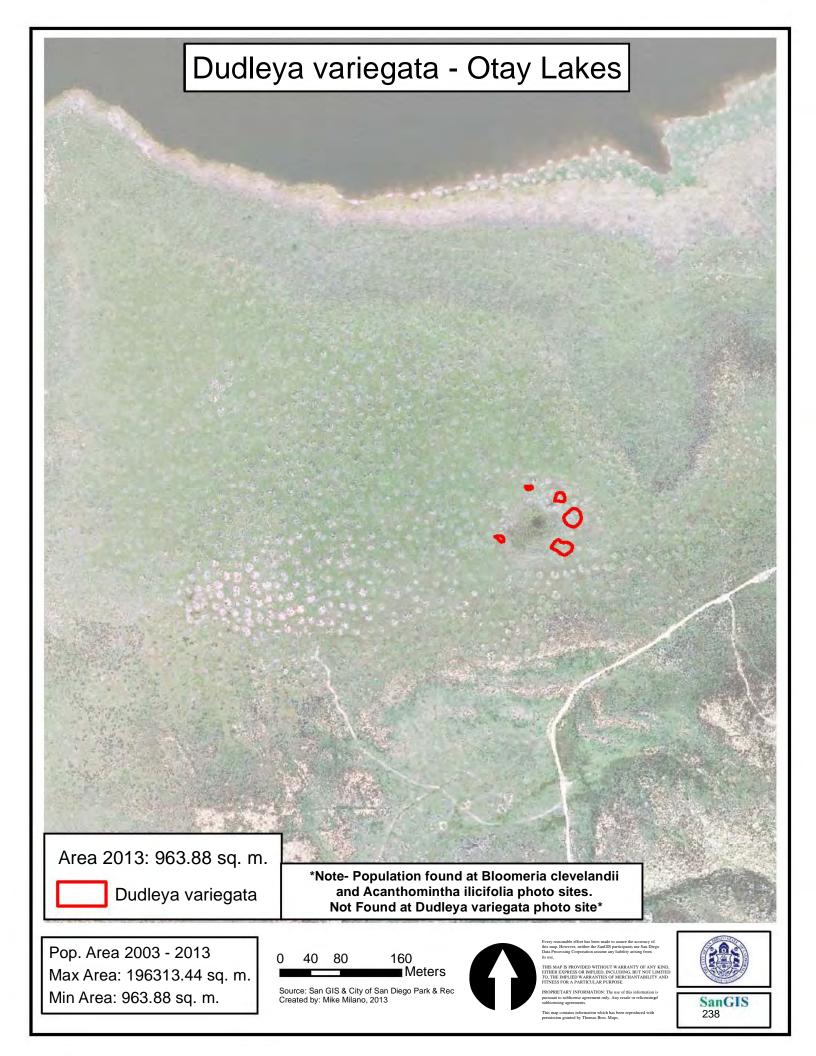
Very Good-Excellent	80-100% Native Flora Composition Vegetation Structure intact or nearly so Cover /abundance of weeds < 5% No or minimal signs of disturbance
Fair to Good	50-80% Native Flora Composition Vegetation structure modified or somewhat modified Cover/abundance of weeds 5-20% any number of 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

Peritoma arborea 4 Bareground 3

## *Dudleya variegata* (Variegated Dudleya) Otay Lakes



Panorama from Northeastern edge of the population, facing North, Northeast, East, Southeast. Panorama location is 635639.91 1807139.55 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Scientific Name: Dudleya variegata			Common N	ame: Varie	gated dudley	а	
Site Name: Santa Luz			Manageme	nt Unit #: TBA			
Date: 5/7/13			Manageme	nt Regime: TBA			
Surveyors and Affiliation/Agency: Be-Isy	Miller.	Kin	1 Roeland	1. Mipe Mil	ano		
			Ci	Fy of San I	Diego		
Species Found? Yes No							
Total No. Individuals:O	Exact	Estimate		reason known or suspe 0, 100 and 1000 for e	and the second se		
Population/Subpopulation Area:		NA	Exac	t (based on GPS mapp	oing) 🗆 Estin	mate	
Collection (if not collected previously)?	]Yes ØNo		s Collected Previou	sly			
Collector		C	ollection Number	Mus	eum/Herbarium	-	_
I. OBSERVATION AREA/MANAGEMENT	UNIT LOCA	TION				-	
Accuracy of Coordinates/GPS Error: +/- <1 _		🗹 mete	rs 🛛 feet				
Observation Location: 6284663.39	194	6643.2	9	✓ State Plane (feet)	□итм		
II. GENERAL HABITAT DESCRIPTION AN	D THREAT	S ASS	ESSMENT			-	
Vegetation Community: Artemisia calif	the second s			aculatum Allia	nce/Artem	isia ca	lifomica
Landowner/Manager: <u>City of San Diego Pa</u>	rk and Recre	ation	Eriogonum	fasciculatum -	Malosma	laurine	a Assoc
Overall Site Quality**			Fair to Go		Ver		a do sier to
Surrounding land use: Open Space		entid			in the second se		
Disturbances and/or threats (be specific, include of disturbance or percent cover of disturbance in High cover hon-native gras and mustard	possible):			tRecommendation/ Hes found,		n w.	reding
III. ASSOCIATED SPECIES	1.14			-		1-	
List dominant, subdominant and invasive specie Species'=List all species (sci. name). Use * to indicat column; if submitted to herbarium, note collection num	e non-native s	pecies; '0	Cover"= % cover	of species; Note if col		ng 'Coll.'	
Species	Cover Coll?		Species			Cover Coll	? Coll.
Artemisia californica	40	-	Calyst.	egia macrost	egia	2	
Malosma launna	5		caloci	igia macrost	leus	2	-
Isocoma menziesii	5		* 13121551	cardunculus		5	-
Phus integrifolia Eriogonum fasciculatum	5		1 Sonchi	is asper	2	1	
Bacchavis pilulans	2		SISUVI	nchium bell	im	1	
Salvia mellitera	1		Galium	angustifolicic	n	1	
Stipa pulchka	2	1	* Catura	wrightsi		1	
IV. SITE PHOTOMONITORING						-	
Camera type Pantax Optio WaD					E-275-28		
6289736 1940293.565 Location [State Plane (ft)]	SW, Direction (	W, NW facing)	1.1 m Height	Level Camera Angle	W: 269-27 Photo #	File loc	SCP ation/s
Location [State Plane (ft)]	Direction (	facing)	Height	Camera Angle	Photo #	File loc	ation/:
V. OTHER FIELD NOTES							
Other Field Notes/Comments: Access VI	a lot 8	5					
		-					

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

Continue on back if needed.

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

* Brachypodium distachyon	50
* Avena sp.	<1
* Bromus madntensis	1
* Bromus hordeaceus	5
* Vulpia myuns	1
Deinandia fasciculata	-1
Elymus triticoides triticoides	4
Coretnogyne filaginifolia	<1
Humispon glaber	L1
Dichelostemma capitatum	c

## *Dudleya variegata* (Variegated Dudleya) Santa Luz East

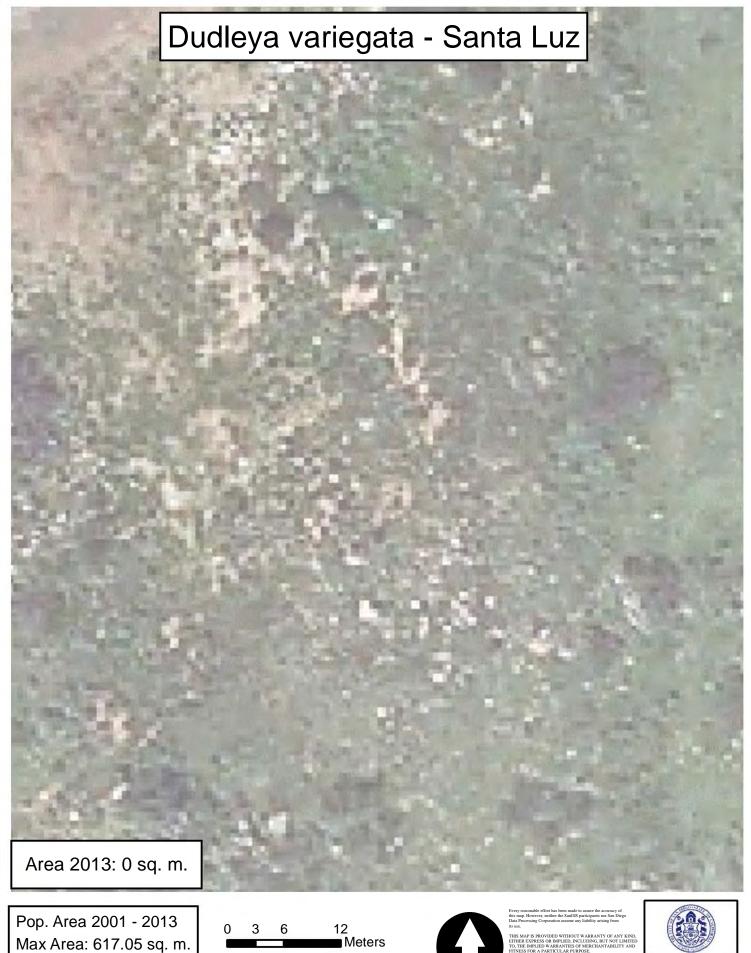


Panorama from Northeastern edge of population, facing Southeast, East, Northeast. Panorama location is 6289735.96 1940293.56 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

## *Dudleya variegata* (Variegated Dudleya) Santa Luz West



Panorama from Northeastern edge of population, facing Southwest, West, Northwest. Panorama location is 6289735.96 1940293.56 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Source: San GIS & City of San Diego Park & Rec Created by: Mike Milano, 2013

Min Area: 0 sq. m.





# *Eryingium aristulatum* var. *parishii* San Diego Button Celery



© City of San Diego, 2005

Scientific Name: Eryjngium aris	tulatum var. parishii	Common Name: San Dieg	go Button Celery
· · · · · · · · · · · · · · · · · · ·	oring Canyon- Obs 1	Management Unit #: TBD	
Date: 4/30/13		Management Regime: TBD	
Surveyors and Affiliation/Agency: Ki	m Roeland, Ke		70
Species Found? X Yes No		If not, why (if reason known or suspected)	2
Total No. Individuals: 878		ate (use orders of 10, 100 and 1000 for estim	nates)
Population/Subpopulation Area: <u>75</u> ,	003377 M2 Un	Exact (based on GPS mapping 2013 G14 Mapping	) Estimate
Collection (if not collected previously)? If yes:	Yes No	Collected Previously	
Collector		1.	/Herbarium
I. OBSERVATION AREA/MANAGEME Accuracy of Coordinates/GPS Error: +/-	ENT UNIT LOCATIO		
Observation Location: 6330499.213	1781402.68	89 State Plane (feet)	🗌 ИТМ
II. GENERAL HABITAT DESCRIPTIO	ALAND THREATS A	COECOMENT	
the set of	native anasola	And a strange s	
Landowner/Manager: City of San Dieg		20	
	Good-Excellent	Fair to Good	Very Poor
Surrounding land use:			
Disturbances and/or threats (be specific, in		Management Recommendation/s:	
		continue monitonii truet weeds it wa	19975 V 1997
III. ASSOCIATED SPECIES	TARK LARGE AN ENDER		
List dominant, subdominant and invasive s Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection	ndicate non-native specie	s; 'Cover"= % cover of species; Note if collect	
Species	Cover Coll? Coll. #	Species	Cover Coll? Coll. #
Deinandra fasciculata	35	Psilocauphus brevissimus	and the second s
* Endium Sp.	30	*Anuquiis avvensis	21
* Centaurea melitensis	2	Eryngium anstulatum	
* Bromus madritensis	2	Myosurus minimus	<li>&lt;1</li>
Simmondsia chinensis * Bromas diandrus	1	* Lamarckia aurea	2
	10	* Festuca myuros * Spergularia hocioni	
* lepidium 1 sp. * Bromus hordeaceus	2	a porgrand grand	
IV. SITE PHOTOMONITORING			
and the second se	W90		
6330499.213 1781402.689	N, NE, E, SE, S	6 1.1 m 1* down	114-117 S/OS/MSCP
Location [State Plane (ft)]	Direction (facing)		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:			

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

## *Eryngium aristulatum* var. *parishii* (San Diego Button Celery) Goat Mesa/Spring Canyon Observation # 1



Panorama from Eastern edge of population, facing North, East, South. Panorama location is 6330499.21 1781402.689 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

## Eryngium aristulatum - Goat Mesa/Spring Cyn Obs. 1



Eryngium aristulatum

Pop. Area 2011 - 2013 Max Area: 75.01 sq. m. Min Area: 49.2 sq. m.

0 3.75 7.5 15 Meters

Source: San GIS & City of San Diego Park & Rec Created by: Mike Milano, 2013



very reasonable effort has been made to assure the accuracy of its map. However, neither the SanGIS participants nor San Diego vata Processing Corporation assume any liability arising from s use.

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ROPRIETARY INFORMATION: The use of this information is rsuant to sublicense agreement only. Any resale or relicensingf bicroprin agreement

This map contains information which has been reproduced wi permission granted by Thomas Bros. Maps.



Scientific Name:	Eryingium aristu	ilatum var. parishii	Common Name:	San Diego Butto	n Celery
Site Name:	Goat Mesa/Spri	ng Canyon- Obs 2	Management Unit #:	TBD	
Date: 4/30/13			Management Regime	TBD	
	on/Agency: Kiw	Rocland, Bets	y Miller, Keli Ba		ano,
Syd Magi		of san Die			
			<u></u>		
Species Found?	Yes No		If not, why (if reason known	n or suspected)?	
Total No. Individuals:	895 1	XExact Destimat	e (use orders of 10, 100 and		
Population/Subpopulatio	Area: 277				Estimate
r opulation outpopulatio	212	Unit	s Exact (based on 20/3 G/S	Data Data	csumate
Collection (if not collecte	d previously)?		Collected Previously		
If yes:	- provide set () /				
	Collector	C	ollection Number	Museum/Herbariun	n
I. OBSERVATION AR	REA/MANAGEMEN	T UNIT LOCATION	٧		
Accuracy of Coordinates	GPS Error: +/-	<1 🗸 met	ers 🗌 feet		
Observation Location:	6329894.69	1781861.51	8 State Pla	ane (feet)	M
					-
II. GENERAL HABITA				D 1	
Vegetation Community:		and the second	INNE /Vernal 1	00	
Landowner/Manager:	City of San Diego	PUD Metro			
Overall Site Quality**	Very G	Good-Excellent	Fair to Good	Poor 🗌	Very Poor
			1		
Disturbances and/or thre		ude extent e if possible):	Management Recomme		treat
	eats (be specific, incl t cover of disturband S - Mod cvad	ude extent e if possible):	Management Recomme		treat
Disturbances and/or thre of disturbance or percent NNGRASSE	eats (be specific, incl t cover of disturbanc S - Mod crm	ude extent se if possible): H COVCA	Management Recomme Continua Mon Invasives i	itoring and if wananted	treat
Disturbances and/or thre of disturbance or percent NNGRASSE	eats (be specific, incl t cover of disturbance S - M o d c von ECIES ant and invasive species ci. name). Use * to ind	ude extent te if possible): <i>H COVC</i> ecies in/near target sp icate non-native species	Management Recomme Continue Mon Invasives i recies observation area/ma ; 'Cover''= % cover of species	iforing and if wananted anagement unit.	IL HERE
Disturbances and/or thre of disturbance or percent NNGRASSE III. ASSOCIATED SPI List dominant, subdomin Species'=List all species (so column; if submitted to herb	eats (be specific, incl t cover of disturbance S - M o d c von ECIES ant and invasive species ci. name). Use * to ind	ude extent se if possible): <i>H COVC</i> ecies in/near target sp icate non-native species number (submit to SDNH	Management Recomme Continue Mon Invasives i eccies observation area/ma ; 'Cover''= % cover of species M unless otherwise noted).	iforing and if wananted anagement unit.	necking 'Coll.'
Disturbances and/or thre of disturbance or percent NNGRASSE III. ASSOCIATED SPI List dominant, subdomin Species'=List all species (so column; if submitted to herb species	eats (be specific, incl t cover of disturbance S - M o d creat ECIES ant and invasive species in name). Use * to indu- parium, note collection in	ecies in/near target sp icate non-native species number (submit to SDNH Cover Coll? Coll. #	Management Recomme Continue Mon Invasives i eccies observation area/ma ; 'Cover''= % cover of species iM unless otherwise noted). Species	iforing and warranted anagement unit. s; Note if collected by ch	IL HERE
Disturbances and/or thre of disturbance or percent NNGRASSE III. ASSOCIATED SPI List dominant, subdomin Species'=List all species (so column; if submitted to herb species Er UN gium an's f	eats (be specific, incl t cover of disturbance S - Mod cover ECIES ant and invasive species in name). Use * to ind varium, note collection in culatum	ude extent se if possible): <i>H COVC</i> ecies in/near target sp icate non-native species number (submit to SDNH	Management Recomme Continue Mon Invasives i eccies observation area/ma ; 'Cover''= % cover of species M unless otherwise noted). Species * Festne Myuro Simmendsia	anagement unit. s; Note if collected by ch	necking 'Coll.'
Disturbances and/or thre of disturbance or percent NNGRASSE III. ASSOCIATED SPI List dominant, subdomin Species'=List all species (so column; if submitted to herb pecies Eryn gium an'sf Eriog onum for	eats (be specific, incl t cover of disturbance S - Mod cover ECIES ant and invasive species in name). Use * to indu- barium, note collection in culatum	ecies in/near target sp incate non-native species number (submit to SDNF Cover Coll? Coll. # 5 10 40	Management Recomme Continue Mon Invasives i eccies observation area/ma ; 'Cover''= % cover of species M unless otherwise noted). Species * Festne Myuro Simmendsia	anagement unit. s; Note if collected by ch	necking 'Coll.' Cover Coll? Col
Disturbances and/or three of disturbance or percent NNGRASSE III. ASSOCIATED SPI List dominant, subdomin Species'=List all species (so column; if submitted to herb pecies Eryn gium an'st Er og onum for Avima fataa Bromus nord co	eats (be specific, incl t cover of disturbance S - Mod cover ECIES ant and invasive species in name). Use * to indu- barium, note collection in culatum	ecies in/near target sp incate non-native species number (submit to SDNH Cover Coll? Coll. # 5 10 40 15	Management Recomme Continue Mon Invasives i eccies observation area/ma ; 'Cover''= % cover of species M unless otherwise noted). Species * Festne Myuro Simmendsia	anagement unit. s; Note if collected by ch	necking 'Coll.' Cover Coll? Col 1 7 1 1
Disturbances and/or three of disturbance or percent NNGrasse III. ASSOCIATED SPI List dominant, subdomin Species'=List all species (so column; if submitted to herb pecies Eryn gium an'st Er og onum for Avina fatna Bromus nord ca B. machifensis	eats (be specific, incl t cover of disturbance S - ModernalECIESant and invasive specificant and invasive specificin name). Use * to indu-tarium, note collection inculatumsciculatum	ecies in/near target sp icate non-native species number (submit to SDNH Cover Coll? Coll. # 5 10 40 15 5	Management Recomme Continue Mon Invasives i recies observation area/ma ; 'Cover''= % cover of species M unless otherwise noted). Species * Festnea myuro Simmondsia co * Festnea perer Acmis pon gla ISocoma men	anagement unit. s; Note if collected by ch schinensi's nnis abec nziesi'r	necking 'Coll.' Cover Coll? Co l 7
Disturbances and/or thre of disturbance or percent NNGrASSE III. ASSOCIATED SPI List dominant, subdomin Species'=List all species (so column; if submitted to herb pecies Eryngjum an'st Er'nggium an'st	eats (be specific, incl t cover of disturbance S - Moderna ECIES ant and invasive spectrum charium, note collection in charium, note collection in charium scicculatum scicculatum	ude extent te if possible): <i>H COVICA</i> ecies in/near target sp icate non-native species number (submit to SDNH Cover Coll? Coll. # 5 10 40 15 5 2	Management Recomme Continue Mon Invasives i recies observation area/ma ; 'Cover''= % cover of species M unless otherwise noted). Species * Festnea myuro Simmondsia c * Festnea perer Acmis pon gla ISOCOma men Artemisic. Ca	anagement unit. s; Note if collected by ch schinensis nnis abec nziesir lifemicc	necking 'Coll.' Cover Coll? Col 1 7 1 1
Disturbances and/or thre of disturbance or percent NNGRASSE II. ASSOCIATED SPI List dominant, subdomin Species'=List all species (so column; if submitted to herb pecies Eryngium an'st En'og onum foi Avena fatna Bromus nord ea B. mach i fensi's Centaurea men Deinand va fas	eats (be specific, incl t cover of disturbance S - Moderna ECIES ant and invasive spectrum charium, note collection in charium, note collection in charium scicculatum scicculatum	ecies in/near target sp icate non-native species number (submit to SDNH Cover Coll? Coll. # 5 10 40 15 5	Management Recomme Continue Mon Invasives i recies observation area/ma ; 'Cover''= % cover of species M unless otherwise noted). Species * Festnea myuro Simmondsia co * Festnea perer Acmis pon gla ISocoma men	anagement unit. s; Note if collected by ch schinensis nnis abca nziesii (ifamica capitatum	necking 'Coll.' Cover Coll? Col l 7 J J 1 1 1 1
Disturbances and/or thre of disturbance or percent NNGRASSE. III. ASSOCIATED SPI List dominant, subdomin Species'=List all species (so column; if submitted to herb pecies Eryngium an'st En'og onum for Avena fatna Bromus nord ea B. machitensis Centaurea meri Deinand va fas Ervdium sp	eats (be specific, incl t cover of disturbance S - Moderna ECIES ant and invasive speci- ci. name). Use * to ind arium, note collection in culatum scicculatum scicculatum ceus cicculata	ude extent a if possible): <i>H COVICA</i> ecies in/near target sp icate non-native species number (submit to SDNF Cover Coll? Coll. # 5 10 40 15 5 2- 15	Management Recomme Continue Mon Invasives i recies observation area/ma ; 'Cover''= % cover of species M unless otherwise noted). Species * Festnea myuro Simmondsia co * Festnea perer Acmis pon gla ISOLOma men Artemisic. ca D'chelostema	anagement unit. s; Note if collected by ch schinensis nnis abca nziesii (ifamica capitatum	necking 'Coll.' Cover Coll? Col 1 1 1 1 1 1 2 1 2
Disturbances and/or thre of disturbance or percent NNGrasse III. ASSOCIATED SPI List dominant, subdomin Species'=List all species (so column; if submitted to herb pecies Er yn gium an'st Er og onum foi Avena fatna Bromus nord ea B. machtifensi's Centaurea meil Deinand va fas Erodium sp V. SITE PHOTOMON	eats (be specific, incl t cover of disturbance S - Moderna ECIES ant and invasive speci- ci. name). Use * to indu- traium, note collection in the collection in the collection in the collection in the collection in the collection	ude extent a if possible): <i>H COVICA</i> ecies in/near target sp icate non-native species number (submit to SDNF Cover Coll? Coll. # 5 10 40 15 5 2- 15	Management Recomme Continue Mon Invasives i recies observation area/ma ; 'Cover''= % cover of species M unless otherwise noted). Species * Festnea myuro Simmondsia co * Festnea perer Acmis pon gla ISOLOma men Artemisic. ca D'chelostema	anagement unit. s; Note if collected by ch schinensis nnis abca nziesii (ifamica capitatum	necking 'Coll." Cover Coll? Col 1 1 1 1 1 1 2 1 2
Disturbances and/or thre of disturbance or percent NNGRASSE. III. ASSOCIATED SPI List dominant, subdomin. Species'=List all species (so column; if submitted to herb pecies Er yn gium an'st En'og onum fai Avina fatna Bromus nord ea B. machitensi's Centaurea meil Deinand va fasi Erodium sp V. SITE PHOTOMON Camera type: PENT	eats (be specific, incl t cover of disturbance S - Moderna ECIES ant and invasive speci- ci. name). Use * to indu- arium, note collection in trulatum scicculatum scicculatum scicculatum scicculatum scicculatum	ude extent te if possible): <i>H COVICA</i> ecies in/near target sp icate non-native species number (submit to SDNH Cover Coll? Coll. # 5 10 40 15 5 2 15 7 WHO	Management Recomme Continue Mon Invasives i pecies observation area/ma ; 'Cover'= % cover of species Munless otherwise noted). Species * Festnea Myuro Simmondsia c * Festnea perer Acmis pon gle ISOLOMA men Artemisis. Ca D'cheloStema Calochortus	anagement unit. s; Note if collected by ch s; Note if collected by ch os chinensi's nnis aba nziesi'r lifomri ca capitatum splende ns	necking 'Coll.' Cover Coll? Col 1 7 1 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2
Disturbances and/or thre of disturbance or percent NNGRASSE. II. ASSOCIATED SPI List dominant, subdomin. Species'=List all species (so column; if submitted to herb pecies Er yn gium an'st En'og on um fat Avena fatna Bromus nord ea B. mactuitensis Centaurea mett Deinand va fas Erodium sp V. SITE PHOTOMON Camera type: PENT	eats (be specific, incl t cover of disturbance S - Moderna ECIES ant and invasive speci- ci. name). Use * to indu- arium, note collection in the collection in the collection in the collection in the collection in the collection	ecies in/near target sp incate non-native species number (submit to SDNH Cover Coll? Coll. # 5 10 40 15 5 2 15 7	Management Recomme Continue Mon Invasives i pecies observation area/ma ; 'Cover'= % cover of species Munless otherwise noted). Species * Festnea Myuro Simmondsia c * Festnea perer Acmis pon gle ISOLOMA men Artemisis. Ca D'cheloStema Calochortus	anagement unit. s; Note if collected by ch s; Note if collected by ch schinensi's nnis aba nziesi'r lifennica capitatum splende ns	necking 'Coll.'
Disturbances and/or thre of disturbance or percent NNGRASSE. II. ASSOCIATED SPI ist dominant, subdomin Species'=List all species (sc column; if submitted to herb pecies Er yn gium an'st En' og onum for Avena fatna Bromus nord ea Bromus nord ea Brodium sp V. SITE PHOTOMON Camera type: PEUTA 6329894.64	ECIES ant and invasive specific, incl S - Moderna ECIES ant and invasive specific in name). Use * to indu- traium, note collection in culatum scicculatum scicculatum scicculatum itensis cicculata NITORING X OPTIO 1781861.518 ane (ft)]	ude extent ae if possible): <i>H COVICA</i> ecies in/near target sp icate non-native species number (submit to SDNH Cover Coll? Coll. # 5 10 40 15 5 2 15 7 W40 S, SW, W, NW, N	Management Recomme Continue Mon Invasives i pecies observation area/ma ; 'Cover'= % cover of species Muniess otherwise noted). Species * Festnea Myuro Simmondsia c * Festnea perer Acmis pon gle ISOLO Ma men Artemisiz. Cu D'cheloStema Calochartus	anagement unit. anagement unit. s; Note if collected by ch as chinensi's nnis abca nziesi'i chifami'ca capitatum splende ns n 124-127 Photo #	necking 'Coll.'          Cover       Coll?       Coll         I       I       I         I       I
Disturbances and/or thre of disturbance or percent NNGRASSE. III. ASSOCIATED SPI List dominant, subdomin Species'=List all species (so column; if submitted to herb pecies Er yn gjum an'st Eriog onum foi Avena fatna Bromus nord ea B. macluitensi's Centaurea meit Deinand va fass Erodium sp V. SITE PHOTOMON Camera type: <u>Peutra</u> 6329894.64 Location [State Pla	eats (be specific, incl t cover of disturbance S - Mod and ECIES ant and invasive species in name). Use * to indu- earium, note collection in the collection in the collection	ecies in/near target sp incate non-native species number (submit to SDNH Cover Coll? Coll. # 5 10 40 15 5 2 15 7 WHO S, SW, W, NW, N Direction (facing)	Management Recomme Contrinue Mon Invasives i recies observation area/ma ; 'Cover"= % cover of species Muniess otherwise noted). Species * Festnea myuro Simmondsia co * Festnea perer Acmis pon gla Isocoma men Artemisis. ca Dichelostema Callechortus	anagement unit. anagement unit. s; Note if collected by ch as chinensi's nis abca nziesi'i lifemi'ca capitatum splende ns n 124-127 Photo #	necking 'Coll.'          Cover       Coll?       Col         I       I       I         I       I
Disturbances and/or three of disturbance or percent NNGrASSE II. ASSOCIATED SPI List dominant, subdomin Species'=List all species (so column; if submitted to herb pecies Er yn gjum an'st Er og onum for Avena fatna Bromus nord ea B. mach rifensi's Centaurea meri Deinand va fas Er od ium sp V. SITE PHOTOMON Camera type: PEUTA 6329894.64 Location [State Pla	eats (be specific, incl t cover of disturbance S - Moderna ECIES ant and invasive speci- ci. name). Use * to indu- traium, note collection in culatum scicculatum scicculatum scicculatum scicculatum scicculatum scicculatum accus itensis cicculata NITORING X OPTIO 1781861.518 ane (ft)] TES	ecies in/near target sp incate non-native species number (submit to SDNH Cover Coll? Coll. # 5 10 40 15 5 2 15 7 WHO S, SW, W, NW, N Direction (facing)	Management Recomme Contrinue Mon Invasives i recies observation area/ma ; 'Cover"= % cover of species Muniess otherwise noted). Species * Festnea myuro Simmondsia co * Festnea perer Acmis pon gla Isocoma men Artemisis. ca Dichelostema Callechortus	anagement unit. anagement unit. s; Note if collected by ch as chinensi's nis abca nziesi'i lifemi'ca capitatum splende ns n 124-127 Photo #	necking 'Coll.'          Cover       Coll?       Coll         I       I       I         I       I

3

y Vegetation Condition Scale Descriptions (see back of form or instructions)

Continue on back if needed.

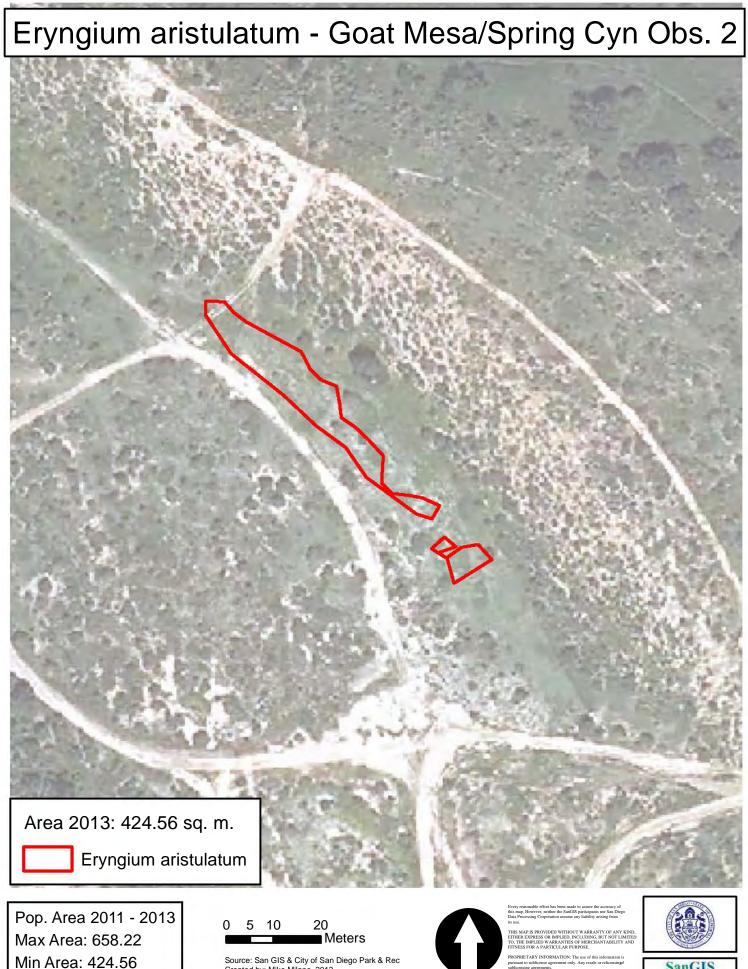
Very Good-Excellent	80-100% Native Flora Composition Vegetation Structure intact or nearly so Cover /abundance of weeds < 5% No or minimal signs of disturbance
Fair to Good	50-80% Native Flora Composition Vegetation structure modified or somewhat modified Cover/abundance of weeds 5-20% any number of 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

Toxicoscondion sp. selaginella bigelouii \* salsola tragus Brodiaca i terrestris Logfia sp. 

## *Eryngium aristulatum* var. *parishii* (San Diego Button Celery) Goat Mesa/Spring Canyon Observation # 2



Panorama from Northern edge of population, facing South, West, North. Panorama location is 6329894.69 1781861.52 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.







Scientific Name: Eryingiu	im aristulatum var par	rishii	Common Name	: San L	Diego Button	Celer	у
Site Name: Otay Lal	kes		Management U	nit #: TBA			
Date: 5/2/13		-	Management R	egime: TBA	· · · · · · · · · · · · · · · · · · ·		
Surveyors and Affiliation/Agency	1. Ratar Miller	n Kim	Rolland 1	Nike Mie	000-		
	Conge que	, a week	7/0-14-14/ 2		I Jan à	Dira	0
				1009	Gan a	19	0
Species Found? PYes No			If not, why (if reaso	n known or susner	ted)?		
Total No. Individuals:	Exact 6	Estimate	(use orders of 10, 10	A THE POLY AND A REPORT OF A			
Population/Subpopulation Area:						mata	
r opulation outpopulation vica.	1001100131	Units	Exact (ba	3 GPS de	da Lisu	nate	
Collection (if not collected previously If yes:	ly)? □Yes ☑N		Collected Previously				
Collect	tor	Co	ollection Number	Mus	eum/Herbarium		
I. OBSERVATION AREA/MANA	GEMENT UNIT LOC	CATION					
Accuracy of Coordinates/GPS Error	: +/- <1	🗹 meter	rs 🗌 feet				
Observation Location: 635677		807379.03	⊡ Sta	ate Plane (feet)	□итм		
	The second s	and the second	The second second		1		
II. GENERAL HABITAT DESCR	Section Contraction and the own	ATS ASS	ESSMENT	10.00			
	mal pool	The Party of the P		-		-	
Landowner/Manager: City of Sa	an Diego Park and Recr	reation	and the second second	10074	See. 1		
Overall Site Quality**	Very Good-Excellent		Fair to Good	Poor	□ Ver	y Poor	
Surrounding land use:	n opace					_	_
Disturbances and/or threats (be spe of disturbance or percent cover of di	and the state of the second state		none - n	WE Cov	er in va	emo	al
of disturbance or percent cover of di moderate cover NA	and the state of the second state		none - n pool du	e to bo	w rain	fai	el
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#### Multiple Species Conservation Program (MSCP) Rare Plant Field Survey Form

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

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A.A.

Species Lepidium nitidum

254

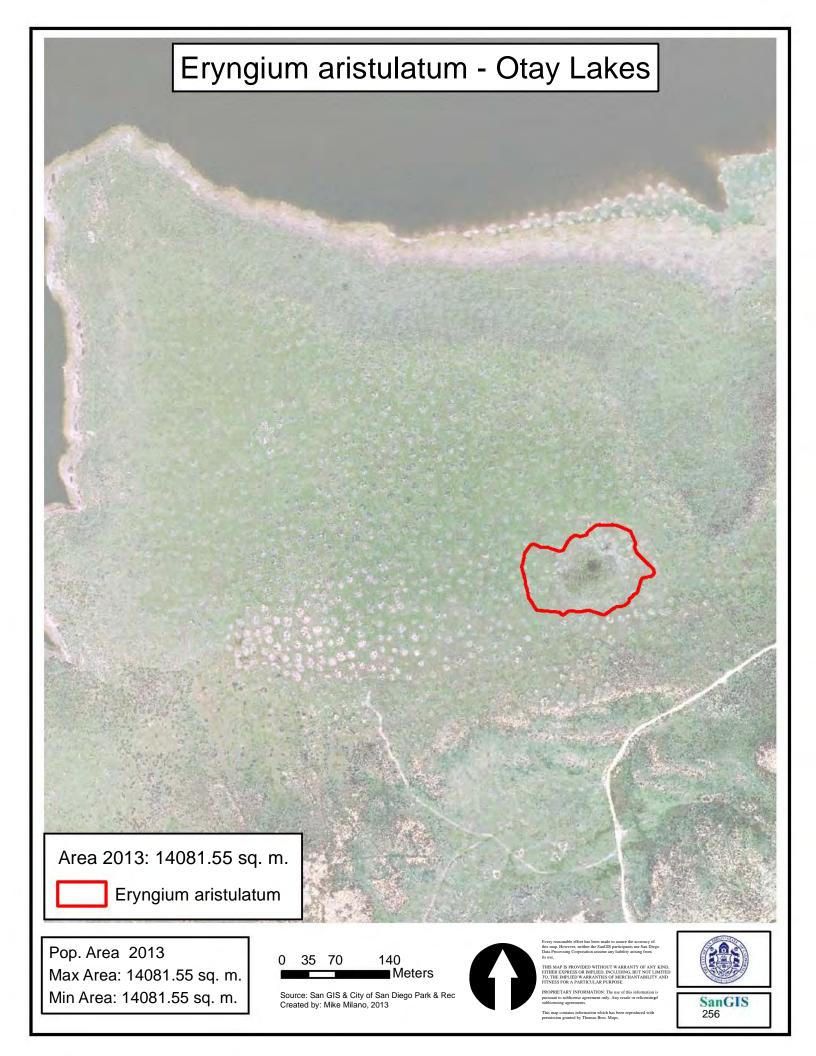
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## *Eryngium aristulatum* var. *parishii* (San Diego Button Celery) Otay Lakes



Panorama from Northern edge of population, facing Northeast, East, Southeast. Panorama location is 6356775.9 1807379.03 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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## *Monardella stoneana* Jennifer's Monardella



© City of San Diego, 2005

<b>Multiple Species</b>	<b>Conservation P</b>	rogram	(MSCP) Rare	Plant Field	Survey Form
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Scientific Name: Monardella sto:	neana	Common Name:	Willowy Monarde	ella
Site Name: Otay Lakes		Management Unit #:	TBD	
Date: 5/2/2013		Management Regime	TBD	
	y Miller, Kri	in Rocland, Mile		
Carroyoro and rimitations ignore.	Culture and the second s	- San Diego	- Pullano	
Species Found? XYes No	ung of	sun preyo		
	A 65	If not, why (if reason known	or suspected)?	
Total No. Individuals:	Exact Estimate	e (use orders of 10, 100 and		
Population/Subpopulation Area: 7,9809	33 M2			stimate
	Unit	s 2013 GIS	Data	
If yes:		Collected Previously		
Collector		ollection Number	Museum/Herbarium	1
I. OBSERVATION AREA/MANAGEMEN	IT UNIT LOCATION	N		
Accuracy of Coordinates/GPS Error: +/-	<1 🗸 mete	ers 🗌 feet		
Observation Location: 6357735.58	1805911.58	8 🛛 🗹 State Pla	ne (feet)	M
II. GENERAL HABITAT DESCRIPTION		RECOMENT		
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	Public Utilities Dept. 1		MA CABIR AUTON	ASSICIATION
	and the second second			
Overall Site Quality**	ood-Excellent	Fair to Good	Poor 1	Very Poor
Surrounding land use: Open space	د			
Disturbances and/or threats (be specific, inclu-	ude extent	Management Recomme	ndation/s:	
of disturbance or percent cover of disturbance		a second second second second		
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Malosma Laurina	10	Monardella Viv	ninea	<1
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Artemisia californica	2 5	Enodicty on Than	ocalyx	5
Conicera subspicata		Pseudoghaphalium	a californicum	2
Marah macrocamphies En'ogonum fasciculatum	5	* Tamanik sp. R Carduus pycno	rexphalus	2
Bahionsis Javinata	5	* Brachy podium	distachuan	2
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6357735.58     1805911.58       Location [State Plane (ft)]       Location [State Plane (ft)]	Direction (facing)	Height Camera	Angle Photo #	File location/s

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

54.

Continue on back if needed. K

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

* Brassica nigra	0
* Avena sp	2
* Festuca perennis	5
* centaurea melitensis	t
* Festuca mynnos	20
* phalan's minor	1
* Bromus diandms	30
* Silybum manianum	1
lecterometes arbutifolia	2
Acmispon americanus	2
* Sonchus asper	1
* Polypogon monspeliens,	is 1
Scrophulania Californ	
Bachan's sarothroides	1

## Monardella stoneana (Jennifer's Monardella) Otay Lakes



Panorama from Northern edge of population, facing Northeast, East, Southeast. Panorama location is 6357735.58 1805911.58 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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*Monardella viminea* Willowy Monardella



© City of San Diego, 2003

Multiple Species Conservation Program	(MSCP) Rare Plant Field Survey Form
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3 2 2 1	<u>X Glebin</u> <u>X Bromus</u> <u>X Centaun</u> <u>1.1 m</u> <u>Height</u>	<u>ca nigka</u> pnis cerenau s diandrus <u>madnitensis</u> <u>en melitensis</u> <u>5* down</u> Camera Angle	<u>715-722</u> Photo #	I D I I S/OS/M Pile loca	ation/s
3 2 2 1	<u>X Glebin</u> <u>X Bromus</u> <u>X Centaun</u> <u>1.1 m</u> <u>Height</u>	<u>ca nigka</u> pnis cerenau s diandrus <u>madnitensis</u> <u>en melitensis</u> <u>5* down</u> Camera Angle	<u>715-722</u> Photo #	I D I I S/OS/M Pile loca	ation/s
		If not, why (if not, why (it not, why (	tsg Miller, Kim Roeland, Mike Mill         If not, why (if reason known or suspect         Exact       Estimate (use orders of 10, 100 and 1000 for es         Image: State Estimate (use orders of 10, 100 and 1000 for es         Image: State Estimate (use orders of 10, 100 and 1000 for es         Image: State Estimate (use orders of 10, 100 and 1000 for es         Image: State Estimate (use orders of 10, 100 and 1000 for es         Image: State Estimate (use orders of 10, 100 and 1000 for es         Image: State Estimate (use orders of 10, 100 and 1000 for es         Image: State Estimate (use orders of 10, 100 and 1000 for es         Image: State Estimate (use orders of 10, 100 and 1000 for es         Image: State Estimate (use orders of 10, 100 and 1000 for es         Image: State Estimate (use orders of 10, 100 and 1000 for es         Image: State Estimate (use orders of for estimate (feet)         Image: State Estimate (feet)	If not, why (if reason known or suspected)?         If not, why (if reason known or suspected)?         If not, why (if reason known or suspected)?         If Exact         Estimate (use orders of 10, 100 and 1000 for estimates)         If Exact         If exact         If not, why (if reason known or suspected)?         If exact         If not, why (if reason known or suspected)?         If exact         If not, why (if reason known or suspected)?         If exact         If not, why (if reason known or suspected)?         If exact         If not, why (if reason known or suspected)?         If exact (based on GPS mapping)         If exact (	tsg Miller, Kim Koeland, Mike Milano, Kristina (         If not, why (if reason known or suspected)?         If not, why (if reason known or suspected)?         If Exact         Estimate (use orders of 10, 100 and 1000 for estimates)         If Exact         If not, why (if reason known or suspected)?         If Exact         If estimate (use orders of 10, 100 and 1000 for estimates)         If estimate         If estimate         If estimate         Others         If estimate         If estimate

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

Continue on back if needed.

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

* Avena sp	1
* Festuca .myuros	1
* Rumex crispus	1
* Bromus hordeaceus	1
Toxicodendron diversilobum	3
* carduus pycne cephalus	1
Orobanche panishii	t

## *Monardella viminea* (Willowy Monardella) Lopez Canyon – West Terrace Observation # 1



Panorama from Southern edge of population, facing South, Southwest, West. Panorama location is 6275731.67 1913221.28 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

## Monardella viminea - Lopez Cyn West Terrace #1



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

Scientific Name: Monardellavimin	ea	Common Name:	Willowy Monarde	ella	
Site Name: Lopez Canyon- E of	Bridge Site #2	Management Unit #:	TBD		
Date: 6/13/13		Management Regime	e: TBD	12/200	
Surveyors and Affiliation/Agency: Bert	Miller, Kin		, , , ,	iction (	21
		- grand, repta	Dite a Sec	Diego	9
Species Found? Tyes No			corg of Curre	eng:	
Species Found? Yes No	02	If not, why (if reason know	or suspected)?	-	-
Total No. Individuals: 3	Exact Estima	te (use orders of 10, 100 and	and the second of the second sec		-
Population/Subpopulation Area: 106.6		/			
100, 6	Uni Uni	Exact (based o	n GPS mapping)	Estimate	
Collection (if not collected previously)?	Yes No	Collected Previously			
If yes:Collector		Collection Number	Museum/Herbariun	1	_
I. OBSERVATION AREA/MANAGEMEN			Madedininicibanan		1 11
and the second	the second cards a second second second				-
Accuracy of Coordinates/GPS Error: +/-	<u>&lt;1</u>		_		
Observation Location: 6278287.281	1913733.6	56 State Pl	ane (feet)	M	-
II. GENERAL HABITAT DESCRIPTION	AND THREATS A	SSESSMENT ,			
Vegetation Community: BACHARIS SARD	and the second se		HARIS SAROTHRO	IDES ASS	CIANT
	Park and Recreation				
	ood-Excellent		Poor	Very Poor	
	1	Fair to Good		very Poor	
Surrounding land use: open spe	ace, Transp	artation, real	dential		
Disturbances and/or threats (be specific, inclu	ude extent	Management Recomm	endation/s:		
of disturbance or percent cover of disturbance	e if possible):				
stream bank ension		continue v	ohen seer		
moderate cover invasin		managemen	1 pmh		
moderate cover invaring	e speeres	munajemer	There		
III. ASSOCIATED SPECIES	and the second		The second		
					-
List dominant, subdominant and invasive spe					
Species'=List all species (sci. name). Use * to india column; if submitted to herbarium, note collection n			es; Note if collected by ch	ecking 'Coll.'	
Species	Cover Coll? Coll. #	Species	a d	Cover Coll?	Coll. #
Monardella vimínez	1	Antenisia ca	1: Amin	1	
Bacharis Caratariales	12	Rhammus and	and the second se	1	
Friezanum fasciculatum	7	Brickellia ca	lifornica	1	
Carocarphies moutiflorus	7	Ribers Specios	um,	1	
Toxiçodendrum diversilobum	2	Quanta litto	rahis	1	
Artemesia palmeri	7	Salvia mellifes	ne	3	
March macrocarpha Prunus iliciplia	25	Conchus op. Confaurea me	lifensis	2	
IV. SITE PHOTOMONITORING	,	Connanea me	11 render	a	
Camera type: PENTAN OPTIO U90	12-			4	
		44			
6278287.281 1913733.66 Location [State Plane (ft)]	NE, E, SE Direction (facing)	1.1 m 5* dow Height Came	a Angle Photo #	S/OS/M	
Location [otate halle (it)]	Direction (lacing)	rieight Gamer	a Angle Filoto #	File loca	uons
Location [State Plane (ft)]	Direction (facing)	Height Camer	a Angle Photo #	File loca	tion/s
V. OTHER FIELD NOTES	(issuit)	ounor	indu indu in	1 110 1000	
			a survey along		and the second second
Other Field Notes/Comments:					-
					-
					_

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

24

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	

% cover

3

2

2

20

20

15

5

\* Brassian nig \* Erodium op.

Baccharis pililaris \* Silybum marianum

\* Bomus madrilensis

\* Festura myuros \* Bomus diandrus Cryptantha sp.

270

## *Monardella viminea* (Willowy Monardella) Lopez Canyon – East of Bridge Observation # 2



Panorama from Southeastern edge of population, facing Northeast, East, Southeast. Panorama location is 6278287.28 1913733.66 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

# Monardella viminea - Lopez Cyn West Terrace #2



Scientific Name: Monardella vimin	ea	Common Name: Willowy Monardel	a
Site Name: Lopez Canyon- E of		Management Unit #: TBD	
Date: 6/13/13	Bridge one no	Management Regime: TBD	
	a nasilas k		-
	A REAL PROCESSION OF THE REAL PROPERTY OF THE PROPERTY OF THE REAL PROPE	in Poeland, Milce Milar	101
Species Found? XYes No	of san dieg	10	
		If not, why (if reason known or suspected)?	
Total No. Individuals:	Exact Estimat	te (use orders of 10, 100 and 1000 for estimates)	
Population/Subpopulation Area: 2,64	1482 152 Uni	ts 2º/3 GIS Data	stimate
Collection (if not collected previously)?	Yes 🕅 No 🗆	Collected Previously	1 A 1
Collector		Collection Number Museum/Herbarium	
I. OBSERVATION AREA/MANAGEMEN	T UNIT LOCATIO	N	1 1
Accuracy of Coordinates/GPS Error: +/-	<1 🗹 met	ers 🔲 feet	
- Observation Location: 6279603.64	1914641.4	9 State Plane (feet) UTN	1
II. GENERAL HABITAT DESCRIPTION		1	
	Park and Recreation		island Association
Overall Site Quality**	ood-Excellent	Fair to Good Poor V	ery Poor
Surrounding land use: Open space	-, Transpo	Antion residential	
Stream bed erosion Moderale cover non-na-			
List dominant, subdominant and invasive spec	and the second	이 집에 다 집에 다 같은 것이 많은 것이 같은 것이 가 집에 다 있는 것이 가지 않는 것이 없다. 가지 않는 것이 같은 것이 없다. 가지 않는 것이 같은 것이 없다. 가지 않는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없 않는 것이 없는 것이 없 않는 것이 없는 것이 없 않는 것이 없는 것이 않는 것 않 것이 않는 것이 없는 것이 없 않이	and the second
Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection n		s; 'Cover"= % cover of species; Note if collected by che	ecking 'Coll.'
Species	Cover Coll? Coll. #	Species	Cover Coll? Coll. #
Monardella Viminea	2	* Euphorbia peplus	t
cenoca pus minutifloms	40	* Brassica nigra	T
Toxicodendron diversilobum		* Glebionis coronanium	1
Bachan's sanothroides	10	Pseudognaphalium stramineum	1
Iva hayesiana	2	* Avena sp.	7 5
Erogonum fasciculatum	i li	* Festuca myuros	2
Artemisia californica Foeniculum vulgari	1	* Brachypodium distachyon * Sonchus asper	T
IV. SITE PHOTOMONITORING	54 - F - DY		1
Camera type: PENTAX OFTIO WHO			
and the second		1.1 m 5* down 705.70	1 S/OS/MSCP
6279603.64 1914641.49 Location [State Plane (ft)]	SW, W, NW 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:			

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

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

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 Vagetation 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	

1

## \*Bromns madritensis

1.0

\* cardnus pycnocephalus 1 Xan-thium strumanium 1

## *Monardella viminea* (Willowy Monardella) Lopez Canyon – East of Bridge Observation # 3



Panorama from Southwestern edge of population, facing Southwest, West, Northwest. Panorama location is 6279603.64 1914641.49 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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

					1	
Scientific Name:	Monardella vimin		Common Name:	Wollowy Monard	ella	
Site Name:	Sycamore Canyo	n	Management Unit #:	TBD		
Date: 6/13/13			Management Regime.	TBD		
Surveyors and Affiliati	ion/Agency:	Miller, Kim	Roeland Mike	Milano, Kri	stina (	Zary
		1		City of Sar	Ries	1
Species Found?	Yes No			18	/	
a second a second	to -	1 -	If not, why (if reason known			
Total No. Individuals:			te (use orders of 10, 100 and	1000 for estimates)		
Population/Subpopulation	on Area: <u>775.63</u>	3779 m <sup>2</sup> Uni	ts Exact (based on	GPS mapping) E	Estimate	
Collection (if not collected lf yes:		Yes No	Collected Previously		_	
	Collector	(	Collection Number	Museum/Herbarium	n	
I. OBSERVATION AF	REA/MANAGEMEN	UNIT LOCATION	N			
Accuracy of Coordinates	s/GPS Error: +/-	<1 🗸 met	ers 🗌 feet			
Observation Location:	6334291.64	1916600.96	3 State Pla	ne (feet)	M	
II. GENERAL HABITA	the second s	CONCEASED OF CONCEASED OF CAREER	the state of the s	1171. 100.0	a.	
		and the second se	WEE/ ADENOSTO-AF PASC	RUCHOWI - (BAD Gan	tem msc	ICULAS 4
Landowner/Manager:	City of San Diego P	ark and Recreation	- Moneures in Crun			contract
Overall Site Quality**	Very Go	od-Excellent	Fair to Good	Poor D	Very Poor	
Surrounding land use:	open space	-				
Disturbances and/or three			Management Recomme	ndation/s:		
of disturbance or percen	nt cover of disturbance	if possible):	. 1. /	11	./	
Stream bank	emeril.		Continue str			ing
1.1	croston	S. M. A. LANS	continue plan	ning runof	n	-
high cover n	non-native	grasses	continue plan mitigation via	MTRP NRM	p	_
	V		miliganon via	mind more	4	
III. ASSOCIATED SP	ECIES		+			
			pecies observation area/ma			
			; 'Cover"= % cover of species	; Note if collected by ch	ecking 'Coll	£.
	parium, note collection nu	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HM unless otherwise noted).			
Species	*	Cover Coll? Coll. #	Species	p		oll? Coll. #
Monardella vin	Inca La	7	Artemisia cal	yormca	34	-
Prinus, ilicity	lia	2	Salvía melliferi	J: Blium	2	
Adenastoma for	ciulata	2	Erigenon Ali	asus	7	
Hereneles and	ntifolia	11	11 1.1	constegia	1	
Saluia apiana		. 5	Apa Joulahra	,4	1	+
Cercocarphusmin		3	Hypochaeris g	labra	1	-
Khamnus onces	The second se	1	tepidium 50		2	
IV. SITE PHOTOMON	VIT IKING					
Camera type:	14 1	*		121.04		
633497.64 Location [State Pla	1916600.963	SE, S, SW Direction (facing)	1.1 m 5* dowr Height Camera	1015 VI		/MSCP ocation/s
Location [State Pla	ane (ft)]	Direction (facing)	Height Camera	Angle Photo #	File lo	ocation/s
V. OTHER FIELD NO	TES	1000				N-
		ad in Ann	of : 11 Am - 11:08	· Am		
	SHOW ALAN	o ni jion p	11 Mm - 11.00			

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

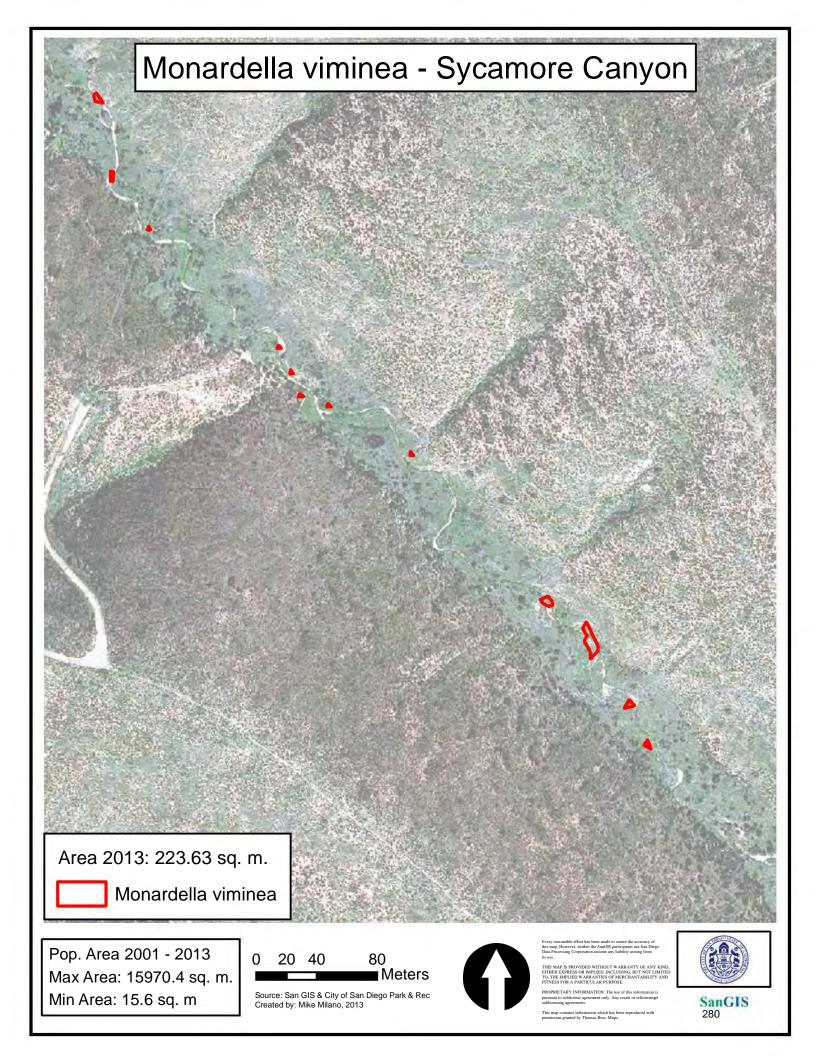
Very Good-Excellent	80-100% Native Flora Composition Vegetation Structure intact or nearly so Cover /abundance of weeds < 5% No or minimal signs of disturbance
Fair to Good	50-80% Native Flora Composition Vegetation structure modified or somewhat modified Cover/abundance of weeds 5-20% any number of 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

% cover Species Selaginella cinerascens \* Centaurea melitensis Selaginella bigelovii \* Avena sp. \* Featuca myunos \* Bromus madritensis 2 20 / \* Bromus hordeaces 4 \* Bromens diandrus 25 \* Erodium Sp. \* Brassica negros \* Alese gallica 3 2

## Monardella viminea (Willowy Monardella) Sycamore Canyon



Panorama from Southern end of population, facing Southeast, South, Southwest. Panorama location is 6334297.64 1916600.96 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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# *Navarretia fossalis* Spreading Navarretia



© City of San Diego, 2003

Scientific Name: Navarretia fossa	is	Common Name	e: Spread	ding Navarre	etia	05
Site Name: Carroll Canyon		Management U	and a second			2.5
Date: 4/23/13		Management R	egime: TBD		5	
Surveyors and Affiliation/Agency: 34	Miller Kim	Rocland. M	like Mila	10 -	-	
	1	1		of San.	Diego	6
Species Found?		If not why lif reas	on known or suspect	0	/	_
Total No. Individuals: 19	Exact Estimat	e (use orders of 10, 1				
Population/Subpopulation Area: 2.320		Exact (b	ased on GPS mapp	1. 1. 1. <u></u>	timate	
Collection (if not collected previously)?		Collected Previously	s tps data			
Collector	C	ollection Number	Muse	um/Herbarium		_
I. OBSERVATION AREA/MANAGEMEN	T UNIT LOCATION	1				
Accuracy of Coordinates/GPS Error: +/-	<1 🗸 met	ers 🗌 feet				
Observation Location: 6282852.814	1907472.26	8 29	state Plane (feet)	□ итм		
II. GENERAL HABITAT DESCRIPTION		RECOMENT		22.0		1
the second s	+ chamine		-			
	Park and Recreation	chapanat				
	ood-Excellent	Fair to Good	Poor		ery Poor	
Surrounding land use: _ Open Space	e, resident	ial, mining	9	_		
III. ASSOCIATED SPECIES					_	
List dominant, subdominant and invasive spec	ties in/near target so	acies observation	area/manacemer	at unit	_	
Species'=List all species (sci. name). Use * to indic column; if submitted to herbarium, note collection n	ate non-native species	; 'Cover"= % cover of	species; Note if co		cking 'Coll.'	
Species	Cover Coll? Coll. #	Species			Cover Coll	?   Coll. #
Ergngium aristulatum	30	Rhypogen M	on callien	eis	2	
Pegogyne abramsic	35 1	restuca m	yugos		15	1
Postocarphus bremesimus		Bromus me		sp. nu	bens 2	-
Deschampsia danthorisides Brodiaca orcu Hia	1		cidentalis		52	1
Navarretia hamata,	2	Navametia	Alexalis		1	
Deinandra fusciculata.	25	F Sanchus a			1	1
Adenastanta fasciculatum	20		•		-	-
IV. SITE PHOTOMONITORING	10					_
Camera type: PENTAX OPT	A 100 - A 1	25.0	5 10 V	Townson .		
6282852.814 1907472.268	S, SW, W, NW		5* down	84-87	S/OS/N	
Location [State Plane (ft)]	Direction (facing)	Height	Camera Angle	Photo #	File loc	ation/s
Location [State Plane (ft)]	Direction (facing)	Height	Camera Angle	Photo #	File loc	ation/s
V. OTHER FIELD NOTES						-
Other Field Notes/Comments:						
Construction and a series of the series of t						

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

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

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

## Navarretia fossalis (Spreading Navarretia) Carroll Canyon



Panorama from Northern edge of population, facing South, Southwest, West, Northwest. Panorama location is 6282852.81 1907472.26 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Scientific Name: Navarretia fossal	is	Common Name: Spreading Navarretia
Site Name: Goat Mesa/Sprin	and the second se	Management Unit #: TBD
Date: 4/30/13		Management Regime: TBD
	m Boeland,	Keli Balo - City of San Diego
Species Found? Yes No		
Total No. Individuals: 0	Exact Estimat	If not, why (if reason known or suspected)? te (use orders of 10, 100 and 1000 for estimates)
Population/Subpopulation Area:		
	Unit	ts Exact (based on GPS mapping) Estimate
If yes:	Yes No	Collected Previously
Collector	The state of the state of the state	Collection Number Museum/Herbarium
I. OBSERVATION AREA/MANAGEMEN		
Accuracy of Coordinates/GPS Error: +/-	< <u>1</u> / met	
Observation Location: 6330499.713	1781402.4	9 State Plane (feet) UTM
II. GENERAL HABITAT DESCRIPTION A	AND THREATS AS	SSESSMENT
Vegetation Community: Vernal pe	ols, non-1	native grassland
Landowner/Manager: City of San Diego F	ark and Recreation	
Overall Site Quality**	od-Excellent	Fair to Good Poor Very Poor
Surrounding land use: open spo	ce	
NNgrasses - moderate	cover	continue monitoring and treat weeds if warranted
III. ASSOCIATED SPECIES		
List dominant, subdominant and invasive spec	ies in/near target so	pecies observation area/management unit.
	ate non-native species	; 'Cover"= % cover of species; Note if collected by checking 'Coll.'
Species	Cover Coll? Coll. #	Species Cover Coll? Coll.
Deinandra fasciculata	35	Psilocaipus brevissimus 5 *Anagalis arvensis 21
Contained malitensis	2	*Anugali's arvensis 21 Eryngium aristulatum 7
t Centaured melitensis * Bromus madritensis	2	Myosurus minimus LI
Simmonds ia chinensis	2	* Lamarchia aurea LI
Bromus diandrus	1	* Festuca myuros 2
Bromus hordeaceus	210	* Spergularia bocconi LI
Lepidium sp.	10 1	
IV. SITE PHOTOMONITORING	an	
Camera type: <u>Pentax Optio</u> W	A TRACK AND A DAY AND A DAY AND	111-117
6330499.713 1781402.49 Location [State Plane (ft)]	S, SW, W, NW, N Direction (facing)	1.1 m         10* down         114-117         S/OS/MSCP           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:		

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

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	

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# *Navarretia fossalis* (Spreading Navarretia) Goat Mesa/Spring Canyon



Panorama from Southeastern edge of population, facing South, West, North. Panorama location is 6330499.71 1781402.49 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



<b>Multiple Species</b>	<b>Conservation Pro</b>	gram (MSCP)	<b>Rare Plant Field</b>	Survey Form
-------------------------	-------------------------	-------------	-------------------------	-------------

Scientific Name: Navarretia	fassalis	Common	Name:	reading ,	Vavarre	tia
Site Name: Nobel Drive		Managem	ent Unit #: TBD	40. 1	1 - 3	WOLL Y
Date: 4/23/13		Carling and American American	ent Regime: TBD	1.1.1.1	1.1.1.96	3.1
Surveyors and Affiliation/Agency: Be	sy Miller Kim	the second se		0,	N	
an and a second		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	City of San		-	(1)==0
Species Found?				0		
Total No. Individuals: 122	Exact Estimat		if reason known or suspe f 10, 100 and 1000 for			
Population/Subpopulation Area:	241541 m <sup>2</sup> Unit	ts И́Б	act (based on GPS map 2013 GIS Dat		stimate	
If yes:	1	Collected Previ	ously			
Collector	and the second state that the second state	Collection Numbe	r Mus	seum/Herbarium		
I. OBSERVATION AREA/MANAGEME	NATION CONTRACTOR STREET	the second se	We the start of the	145 10		20%
Accuracy of Coordinates/GPS Error: +/-	<u></u> met	ers 🗌 feel				
Observation Location: 6271105.37	1896318.83	4	✓ State Plane (feet)	UUT	M	
II. GENERAL HABITAT DESCRIPTION	AND THREATS AS	SSESSMEN	C DAME TO THE	STATES STATES	121 1.10	-Nut-
Vegetation Community: . vernal poor	Park and Recreation	The second		bed coa	stal sa	n.b
Overall Site Quality**	Good-Excellent	Fair to G	Good Door		/ery Poor	
Surrounding land use: 6 pen 5 pa	u/Resident	:91				
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp	ecies in/near target sp	ecies observa	ition area/manageme	ent unit.	1991100	
Species'=List all species (sci. name). Use * to inc column; if submitted to herbarium, note collection				collected by che	ecking 'Coll.'	
Species	Cover Coll? Coll. #	Species	wise noted).		Cover Coll	Coll i
Navarretia fossalis		products operating a supervised	psia dantho	ninides	5	COIL.
Psilocarphus brevissimus	10	* Polypogo	h monspeliensi	S	1	1
Brodiaca orcuttii	3	* Phalanis	s minor		1	-
Deinandra fusuiculata	2	Logfia	filang	inoides	1	+
croton setigerus cofula australis		* Bromu	s' madritensis	1	1	+
Holocarpha virgata elongata			s hordpaceu		2	+
Juncus batonius	2		haens glabi		1	1
IV. SITE PHOTOMONITORING		1662.4	21	San Star		14 A
Camera type: PENTAX	OPTIO WAG		12			
6271105.37 1896318.834	NW, W, SW, S	1.1 m	20* down	100-103	S/OS/M	ISCP
Location [State Plane (ft)]	Direction (facing)	Height	Camera Angle	Photo #	File loca	
Location [State Plane (ft)]	Direction (facing)	Height	Camera Angle	Photo #	File loca	ation/s
V. OTHER FIELD NOTES	2017 A 10 10 19 30	1,30,50	「「「「「「「「「」」	1. 化花林	1.1.1.1.1	10
Other Field Notes/Comments:						
						-

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 60-30% any number of individuals Disturbance incidence very high

### Eniogonum fusciculatum 5 Isocoma menziesii 5 stipa pulchva 3

* Lythnum hyssopifolia	1
* Gastridium phieoides	
Pseudognaphalium a	
* Avena sp	1
Bare ground	40

### *Navarretia fossalis* (Spreading Navarretia) Nobel Drive



Panorama from Northern edge of population, facing Southwest, South, Southeast. Panorama location is 6271105.47 1896367.536 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

# Navarretia fossalis - Nobel Drive

Area 2013: 11.262 sq. m.

Navarretia fossalis

Pop. Area 2012 - 2013 Max Area: 11.262 sq. m. Min Area: 0 sq. m







SanGIS 294



<b>Multiple Species</b>	<b>Conservation</b>	Program	(MSCP)	Rare I	Plant	Field	Survey	Form
-------------------------	---------------------	---------	--------	--------	-------	-------	--------	------

Scientific Name: Navarretia fossal	is	Common Name: Sprea	ading Navarr	etia	
Site Name: Otay Lakes		Management Unit #: TBD		-	
Date: 5/2/13		Management Regime: TBD	P. A.		
Surveyors and Affiliation/Agency: Betsy	miller Kin	n Rodand, Mike Milau	10		0
		of san Diego			
Species Found? XYes No					
	1999 - 19	If not, why (if reason known or suspec	cted)?		
Total No. Individuals:	Exact Estimation	te (use orders of 10, 100 and 1000 for e	estimates)		
Population/Subpopulation Area: 3.036	585 <u>m</u>	tis 2013 GIS Day	ping) Es	timate	- 14
If yes:	Yes XNo	Collected Previously	~		
Collector		Collection Number Mus	eum/Herbarium		
I. OBSERVATION AREA/MANAGEMEN	T UNIT LOCATIC	Ň			
Accuracy of Coordinates/GPS Error: +/-	<1 🗹 me	ters 🗌 feet			-
Observation Location: 635504.7	1807021.	28 State Plane (feet)	UTN	1	
II. GENERAL HABITAT DESCRIPTION	AND THREATS	SSESSMENT			
	Contraction of the Contraction o	Coastal sage some	-	-	
Landowner/Manager: City of San Diego F					
					1.1
	ood-Excellent	Fair to Good		ery Poor	
Surrounding land use: Open Space	-				
Disturbances and/or threats (be specific, inclu		Management Recommendation/	s:		
of disturbance or percent cover of disturbance	if possible):	continue moniton	na and		
NN grasses + endium		continue moniton: Weat as needed	June		
for the second sec					- N
		11			
III. ASSOCIATED SPECIES		Total States	10.000	14	
	ing in/near tornatio	nation charaction area/manageme	nt unit		
List dominant, subdominant and invasive spec Species'=List all species (sci. name). Use * to indic				cking 'Coll	é
column; if submitted to herbarium, note collection n			oncolou by one	oning con	
Species	Cover Coll? Coll. #	Species		Cover Co	Il? Coll. #
Eriogonum fasciculatum	15	Deschampsia dantha	nivides	3	
Malosma Lannina	2	Juncus sp-		2	
Acmispon glaber	2	*Anugalis avvensis		1	-
Engingium distulatum Deinandra fasciculata	5	psilocarphus breviss * Erodium sp	imus	7	-
Le Anera venusta	2	* Hypochaenis glabra		5	1.1
Antemisia californica	1	* Lepidium sp-		1	
Brodiaea terrestris	-		nleoidas	1	
IV. SITE PHOTOMONITORING		1 2 2 3 S	-		
Camera type: <u>PIENTAX</u> OPTIO W90	-				
6355504.7 1807021.28	NW, N	1.1 m 10* down	190-195	S/OS	MSCP
Location [State Plane (ft)]	Direction (facing)		Photo #		ocation/s
Location [State Plane (ft)]	Direction (facing)	Height Camera Angle	Photo #	File k	ocation/s
V. OTHER FIELD NOTES	(rashig)				
	1	e l al			
Other Field Notes/Comments: BT Ja	cchabbit 1	o E of site			$\rightarrow$
BUDW 3 burrows					

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

2

1

\* Bromus hordeaceus 15 \* Festuca myunos . Selaginella bigelovii 7 15 Navametra fossalis 4 Calocho Aus splendens <1

Bare ground Bromus madritensis ×

# *Navarretia fossalis* (Spreading Navarretia) Otay Lakes



Panorama from Northwestern edge of population, facing Northwest, West. Panorama location is 6355504.70 1807021.28 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



Scientific Name: Navarretia fossal	is		Common N	ame:	Spreadin	ng Navarr	etia		
Site Name: Robinhood Ridge	No.		Managemer		TBD				
Date: 5/2/13			Managemer		TBD				
Surveyors and Affiliation/Agency:	Miller	10	A 1	, ,	Milano			-	
Curreyers and runnation regency.	require,	~~~~	goerana,	mere ,			-		
Species Found? Yes No				City	y de	n Bieg	0		-
			If not, why (if	reason known o	or suspected	1)?			
Total No. Individuals:	Exact	Estimat	e (use orders of :						
Population/Subpopulation Area:	0	m <sup>2</sup> Unit	s Exa	ct (based on G	PS mapping	) 🗌 Es	timate		
Collection (if not collected previously)?	Yes INC		Collected Previou	yla					
Collector		C	ollection Number		Museum	n/Herbarium			
I. OBSERVATION AREA/MANAGEMENT	T UNIT LOC	ATION	1				15		
Accuracy of Coordinates/GPS Error: +/-	<1	🗹 mete	ers 🗌 feet						-
Observation Location: 6329438.23	179	90979.8	2	State Plane	e (feet)	□ UTM	6		
II. GENERAL HABITAT DESCRIPTION A		ATS AS	SESSMENT					1	-
1	1 00	istal	Augurous experimente	ach.		-	-	-	
Landowner/Manager: City of San Diego F			Je se	ng	-				
		outon	<b>—</b>		7.0				
A STATUTE TO A STATUTE A STATUTE A STATUTE A	od-Excellent		Fair to Go	od L	Poor		ery Poo		
Surrounding land use:	e, tran	spor	tation	-		_		-	
III. ASSOCIATED SPECIES List dominant, subdominant and invasive spec Species'=List all species (sci. name). Use * to indic							cking (	2011	
column; if submitted to herbarium, note collection nu					vote il colle	cieu by che	ching c	.011.	
Species	Cover Coll?	Coll. #	Species				Cover	Coll?	Coll. #
Erioganum faxicalatum	22		Stipa p	ulchra			1		
Bgogyne midiuscula		*	Anagath	is annen		1.00	2		
Alemesia altomica	15 80	3	Erod iun		mum	nodiflor	un	1	
Bahiopsis /acinata	3	*	Avena				2	-	
Ferocactus viridescens,	3	1	Bromus m		is ssp. 1	rekens	5		
Deschampsig dantfapoides	1	¥	Bomus .	hordeace	us		10	_	
IV. SITE PHOTOMONITORING		*	Feotuca	perenn	es	1	/		
CALLER PARTY CONTRACTOR OF THE PARTY OF THE									
Camera type: <u>Релтах</u> оро W90 6329438.23 1790979.82	S, SW,	A/	11-	Lough	-	0.4	- 0	20/140	
Location [State Plane (ft)]	Direction (f		<u> </u>	Level Camera A		20.5-20 Photo #		DS/MS e locat	_
Location [State Plane (ft)]	Direction (f	acing)	Height	Camera A	ngle	Photo #	File	e locat	ion/s
V. OTHER FIELD NOTES								-	
Other Field Notes/Comments:									-
				1					-
									_

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

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

A Featuca myreros

80

% cover

b.

1

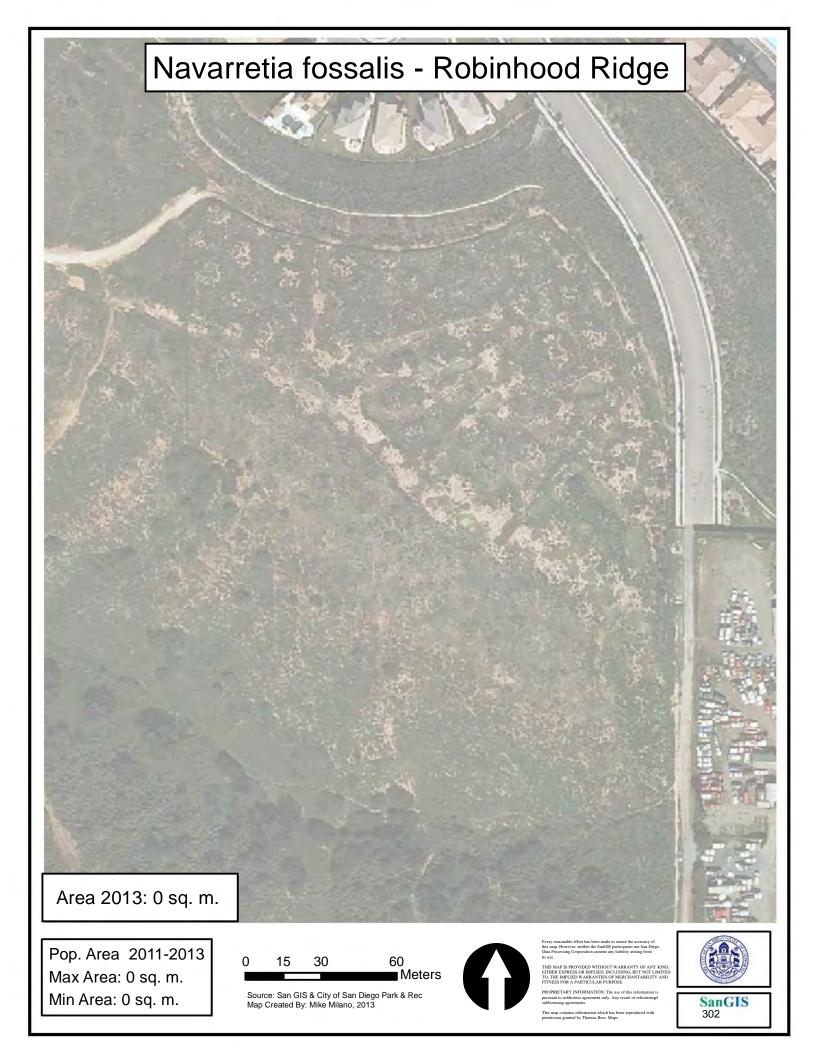
1.5

5.4

# Navarretia fossalis (Spreading Navarretia) Robinhood Ridge



Panorama from Northwestern edge of population, facing South, Southwest, West Panorama location is 6329438.23 1790979.82 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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*Pogogyne abramsii* San Diego Mesa Mint



© City of San Diego, 2005

Scientific Name: Pogogyne abra	amsii		Common Na	ame:	San Die	go Mesa I	Mint		
Site Name: Carroll Canyor			Managemer	t Unit #:	TBD				
Date: 4/23/13	a line in a		Managemer	and construction of the local sectors	TBD	7.8			-
Surveyors and Affiliation/Agency:	Las Millan	V	n Roelano	1	Melan	and the second second	1	-	-
carroyere and sumations igeney.	by raine,	~~~	n vjæciano	, rue	1.1	1	2	1	-
d 5					City	of Las	701	1090	
Species Found? Yes No								_	
Total No. Individuals: /9800		Trutter	If not, why (if r						
		I Estimat	e (use orders of 1						
Population/Subpopulation Area: 181.2	21340B	Unit	s Exac	t (based on C	GPS mapping	g) 🗌 Es	stimate		
Collection (if not collected previously)? If yes:	Yes No		Collected Previou	sly					
Collector		С	ollection Number		Museum	n/Herbarium	_		_
I. OBSERVATION AREA/MANAGEME	ENT UNIT LOC	OITAC	N						
Accuracy of Coordinates/GPS Error: +/-	<1	✓ mete	ers 🗌 feet						
Observation Location: 6282860.426	190	7341.59	9 [	J State Plane	e (feet)	UTN	4		
	and the second second						-	-	
II. GENERAL HABITAT DESCRIPTION	and the second se	and the second se	and the second design of the s						
	pool + c		ise chap.	amp					-
Landowner/Manager: City of San Dieg	o Park and Rec	reation	/						
Overall Site Quality**	Good-Excellent		Fair to Go	d [	Poor		ery Poo	r	
			/	1 1	2.2.2				
ourrounding land dat.	pace, mi	11110	1. Martin					_	
		1	Management nonc		dation/s:				
III. ASSOCIATED SPECIES	nce if possible):		Management nonc	Recommen		unit.			
of disturbance or percent cover of disturbance	nce if possible): pecies in/near tandicate non-native	arget sp	Management	Recommen	nagement		ecking '(	Coll.'	
of disturbance or percent cover of disturbance Mone III. ASSOCIATED SPECIES List dominant, subdominant and invasive sy Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection Species	nce if possible): pecies in/near tandicate non-native	arget sp species to SDNF	Management	Recommen	nagement			Coll."	Coll.
of disturbance or percent cover of disturbance MSALE III. ASSOCIATED SPECIES List dominant, subdominant and invasive sy Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection Species	nce if possible): pecies in/near ta ndicate non-native n number (submit Cover Coll?	arget sp species to SDNF	Management <i>nonc</i> eccies observati ; 'Cover"= % cove <i>M unless otherw</i> Species	Recommen on area/mar ar of species; ise noted).	nagement ( Note if colle	ected by che			Coll.
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sy Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection Species Poppyne abramsiii Brandinian and invasive sy array array	nce if possible): pecies in/near ta ndicate non-native n number (submit	arget sp species to SDNF	Management <i>nonc</i> ecies observati ; 'Cover"= % cove <i>dM unless otherw</i>	Recomment on area/mar er of species; ise noted).	nagement i Note if colle	ected by che			Coll.
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sp Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection Species Propogne abramaic,	nce if possible): pecies in/near ta ndicate non-native n number (submit Cover Coll? 45	arget sp species to SDNF Coll. #	Management <i>Nonc</i> eccies observati ; 'Cover"= % cove <i>Munless otherw</i> Species <i>Crasgella</i> <i>Toggica</i> 7 <i>Conchus</i>	Recomment on area/marter of species; ise noted).	nagement i Note if colle	ected by che	Cover		Coll.
III. ASSOCIATED SPECIES List dominant, subdominant and invasive sy Species'=List all species (sci. name). Use * to in column; if submitted to herbarium, note collection Species Poppoyne abramsiii Species Poppoyne abramsiii Poppoyne abramsii Poppoyne abramsii	nce if possible): pecies in/near ta ndicate non-native n number (submit Cover Coll? 4/5 29 1	arget sp species to SDNF Coll. #	Management <i>Nonc</i> Pecies observati ; 'Cover''= % cover <i>Munless otherw</i> Species <i>Crasgella</i> <i>Togfia</i> <i>Togfia</i> <i>Togfia</i> <i>Togfia</i> <i>Togfia</i>	Recomment on area/marter of species; ise noted).	nagement i Note if colle n falis des	ected by che	Cover		Coll.
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#### Multiple Species Conservation Program (MSCP) Rare Plant Field Survey Form

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

Species

% cover

\* Featuca myuros 10 Chlorogalum parviflorum \* Bamus madridensis osp. rubens 10 <1

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# Pogogyne abramsii (San Diego Mesa Mint) Carroll Canyon



Panorama from Northern edge of population, facing North, Northeast, East. Panorama location is 6282860.43 1907341.59 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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

Scientific Name: Pogogyne abran	sii	Common	Name: San Dieg	10 Mesa Me	it		
Site Name: Lopez Ridge							
Date: 4/23/13		Manager	ment Regime: TBD				
Surveyors and Affiliation/Agency: 🔗	w Miller	Kim Roel	and Mike Mil	lano-	de la		
		1	Cite	of dan a	Diego		
Species Found? Yes No			~	V	1		
Total No. Individuals:	Exact LE		y (if reason known or suspe of 10, 100 and 1000 for				
Population/Subpopulation Area: 335.	721138	Units	Exact (based on GPS map 3013 CPS da	pping) 🗌 Estim	ate		
If yes:	Yes No	Collected Pre			_		
Collector	and second state	Collection Num	ber Mus	eum/Herbarium	outirs a use		
I. OBSERVATION AREA/MANAGEMEN			PUT I Show	10,000			
Accuracy of Coordinates/GPS Error: +/	< <u>1</u>	meters f					
Observation Location: 6278246.403		15522.734	State Plane (feet)	Ш итм			
II. GENERAL HABITAT DESCRIPTION	AND THREAT	'S ASSESSME	NT	4 51-5 - 53	12-11-15-1		
			crub/chapara	P	1000 100 100 100 100		
Landowner/Manager: City of San Diego			1-1-				
	Good-Excellent	Fair to	Good Poor	Very	Poor		
					1 001		
Surrounding land use: open opa	ce, reside	atlal					
III. ASSOCIATED SPECIES	1995 T		and the second	1997 - 1997 -	Refer		
List dominant, subdominant and invasive spe Species'=List all species (sci. name). Use * to indi- column; if submitted to herbarium, note collection (	icate non-native sp	ecies; 'Cover"= %	cover of species; Note if c		ng 'Coll.'		
Species	Cover Coll? Co	oll. # Species		Co	ver Coll? Coll.		
Bodiaca orcu Hia	12	Jelagía	ella cinerascen	1 5	the second se		
Pogogyne abramsu	35	Navarr	ctia hamata	4			
Elomeria clevelandio Zettuera venusta	3		phus prevised	mus 3			
Dock can theon chevelandii	2	~ / /	la conpata	2	2		
Captilleja esserta osp. exser	fal	1 1	filaginoides		V1		
Demasdra facciegata	5	Descha	molia danthan	pides 1			
Allium halmatochiton	2	* Endiu	m SA.	~			
IV. SITE PHOTOMONITORING		Treas de treas	and a fat at	Dela Martin	1.2		
Camera type: PENTAX OPTO	W90						
6278246.4 1915522.7 Location [State Plane (ft)]	SW,W Direction (fac		10*Down Camera Angle	<u>75-99</u> S/C Photo #	DS/MSCP File location/s		
Location [State Plane (ft)]	Direction (fac	ing) Height	Camera Angle	Photo #	File location/s		
V. OTHER FIELD NOTES	Sec. Sugar		and market	Saul She	1997 B		
Other Field Notes/Comments:	- 40185 - 1470 e	est					

Modified Trudgen & Keighery Vegetation Condition Scale

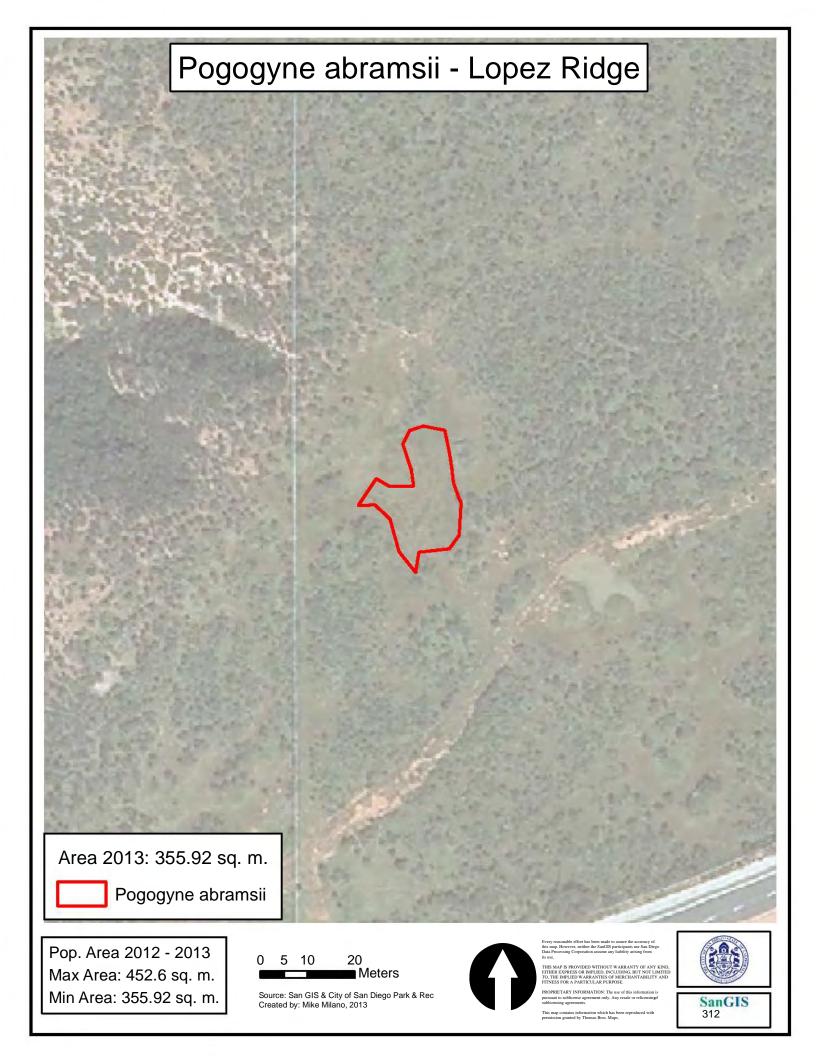
Very Good-Excellent	80-100% Native Flora Composition Vegetation Structure Intact or nearly so Cover /abundance of weeds < 5% No or minimal signs of disturbance
Fair to Good	50-80% Native Flora Composition Vegetation structure modified or somewhat modified Cover/abundance of weeds 5-20% any number of 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

species 2/0 cover \* Hypochaeris glabra Chlorogalum parviflorum \* Bomus hordaceus 10 7 \* Bromus madritensis sop. nikens 5 \* Avera barbata 5 \* Freatura myuros \* Castridium phleoides Opertia letoralis 3 Acmis pon glaber Malosma laurina 1 3 Adenostoma fasciculatem 20

# 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.



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*Pogogyne nudiuscula* Otay Mesa Mint



© City of San Diego, 2003

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

Scientific Name: Pegegyne nudi	weula	Common N	ame: Ofay Ma	esa Min	+	
Site Name: Robinhood Ridg	le	Managemei	of a state of the			15
Date: 5/2/13	and the second	Managemei	nt Regime: TBD		110- 16	
Surveyors and Affiliation/Agency:	Miller. Kin	1 Roeland	Mike Mila	10-	a for the second	See. F
	(1) (m) (m) (m)		City of a	Fon Brego	5	ALC: N
Species Found? Yes [ No		If not why (if	reason known or suspect	red)?		
Total No. Individuals:	Exact Estima		10, 100 and 1000 for es			
Population/Subpopulation Area: 13, 5	47 <u>131</u>	L VEXa	ct (based on GPS mapp	ing) 🗌 Esti	imate	
Collection (if not collected previously)?	Yes No	Collected Previou	the second s			
Collector	(	Collection Number	Muse	um/Herbarium		
OBSERVATION AREA/MANAGEMEN     Accuracy of Coordinates/GPS Error: +/-     Observation Location: 6329438.23     II. GENERAL HABITAT DESCRIPTION	<u>&lt;1</u>	ers 🗌 feet 2	State Plane (feet)			
The second s	cool coastal	Construction and a solution of	h			10000
	Park and Recreation	Duge com				
	ood-Excellent	Fair to Go	od 🗌 Poor	Dve	ry Poor	
	ce, transpor	1.1.				
1000/modern le cover NNC		None			Sales a	
List dominant, subdominant and invasive spe Species'=List all species (sci. name). Use * to indi column; if submitted to herbarium, note collection n	cate non-native species	; 'Cover"= % cove	er of species; Note if co		king 'Coll.'	
Species	Cover Coll? Coll. #	Species			Cover Coll?	Coll. #
Erisganum facicalatum	2	Stipa pl	ulchra		1	
Baggine nudiuscula	2	Anagath	is amensis		2	-
Alemeria altomia	15	Meseme	nyan themum	nodiflor		
Babiopsis /acina a	3	Avena	50.		2	
Ferricactus viridescens	3	Bromus m	adri Leasis ssp.	rekens	5	
Deschampsig danthappides		Bomus	hordeaceus		10	
Cy/indio punta pro/itera		Feotuca	perennis	1.51 - 200	A CONTRACT	1 7.4.1
IV. SITE PHOTOMONITORING Camera type: <u>PENTR</u> X OPTIO W	90				12.000	200
6329438.23 1790979.82 Location [State Plane (ft)]	S, SW, W Direction (facing)	1.1 m Height	Level Camera Angle	20.5-209 Photo #	S/OS/MS	_
Location [State Plane (ft)]	Direction (facing)	Height	Camera Angle	Photo #	File loca	
Constant and the second s	Direction (lacing)	Height	Camera Angle	F100 #	File loca	uon/s
V. OTHER FIELD NOTES			and the life of	10 (10 1 1 1 2 M	A COL	10.50
Other Field Notes/Comments:						-
						-

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
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Very Poor	0-20% Native Flora Composition Vegetation Structure disappeared Cover/abundance of weeds 60-80% any number of individuals Disturbance incidence very high

.

Species \* Festuca myreros

\* \*

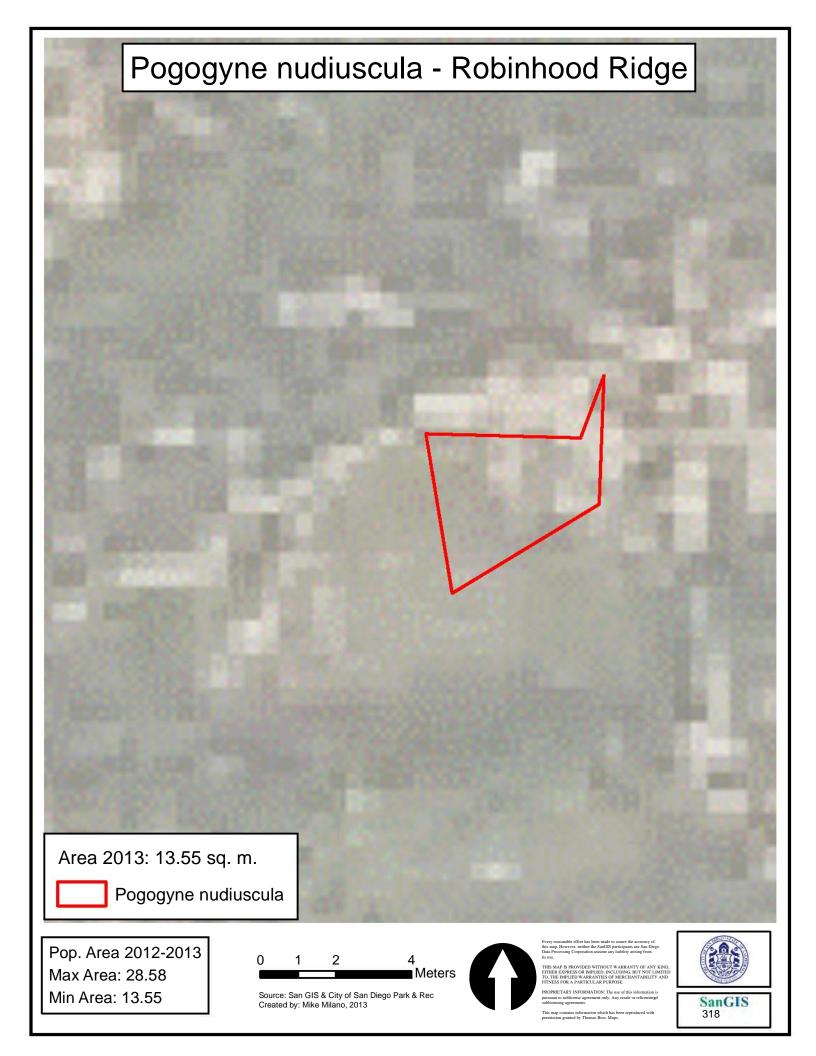
% cover

.

### Pogogyne nudiuscula (Otay Mesa Mint) Robinhood Ridge



Panorama from Southwestern edge of population, facing South, Southwest, West. Panorama location is 632938.23 1790979.82 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.



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# *Rosa minutifolia* Baja Rose



© Stan Shebs, 2007

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

Scientific Name: Jose minutiflore Site Name: Dennery Rand	1095	Common N	lame: Small-lei	wed Rose	al yest
	which has	Manageme	a second de la construcción de la c	A THE NUMBER OF	She shall be
Date: 5/21/13		Manageme	nt Regime: TBD	March Contraction	L'AND THE THE
Surveyors and Affiliation/Agency:	h Miller K	the second se	the second second second second second	- 01 - 11 BA	
	property in	a cyca cur, c		网络龙龙 化合金	1-1-1-1-1 1-1-1-1-1
Species Found? Yes   Nu		14 C			
Total No. Individuals: 7	Exact E		reason known or suspect 10, 100 and 1000 for e		
Population/Subpopulation Area: 93.	616602	Units DExa	act (based on GPS mapp	ping) 🗌 Estimate	
Collection (if not collected previously)? If yes:	Yes No	Collected Previo	ously		
Collector		Collection Number	Muse	eum/Herbarium	
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### Rosa minutifolia (Baja Rose) Dennery Ranch



Panorama from Southern edge of population, facing South, Southeast, East. Panorama location is 6321404.87 1791630.28 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, Senior Planner Kim Roeland, Biologist III Kristina Cary, Open Space Intern Mike Milano, Open Space Intern This page is intentionally left blank.

#### **APPENDIX A**

#### CITY OF SAN DIEGO RARE PLANT MONITORING: 2013 MONITORING DATES AND STAFF

	Risk Group	Risk Group				
Species	(SDSU '06)	(Ogden '96)	Site	Survey Date	Staff	Methodology
Acanthomintha ilicifolia						
(San Diego Thorn-mint)	First	Second	Blk Mtn Park West	16 Arp	BYM, KR, MM	GPS, Photo, Habitat Assessment
					BYM, KR, MM,	
			Dennery Canyon East	30-Apr	SM	GPS, Photo, Habitat Assessment
			Mission Trails			
			Regional Park	18-Apr	BYM, KR	GPS, Photo, Habitat Assessment
			Otay Lakes	2-May	BYM, KR, MM	GPS, Photo, Habitat Assessment
				1.5.4		
			Penasquitos Canyon	16-Apr	BYM, KR, MM	GPS, Photo, Habitat Assessment
			Sabre Springs/Poway	16-Apr	BYM, KR, MM	GPS, Photo, Habitat Assessment
Acmispon [Lotus] nuttallianus			Sable Springs/10way	10-Api		OI 5, I holo, Habitat Assessment
(Nuttall's lotus)	First	First	Dune Triangle	24-May	BYM, KR, MM, KC, KCS	GPS, Photo, Habitat Assessment
					-	
			Hospitality Point (Site 2)	24-May	BYM, KR, MM, KC, KCS	GPS, Photo, Habitat Assessment
			Mariner's Point		BYM, KR, MM,	
			(Site 4)	24-May	KC, KCS	Presence/Absence
					BYM, KR, MM,	
			No Man's Land (Site 1)	24-May	KC, KCS	GPS, Photo, Habitat Assessment
			South Shores		BYM, KR, MM,	
			(Site 6)	24-May	KC, KCS	GPS, Photo, Habitat Assessment
Ambrosia pumila (San Diego Ambrosia)			Mission Trails Regional			
Bloomeria [Muilla]	First	Second	Park	15-May	BYM, KR, MM	GPS, Photo, Habitat Assessment
clevelandii	G 1	<b>C</b> 1	East Elliott/Sycamore	10.4		
(San Diego Goldenstar)	Second	Second	Canyon	18-Apr	BYM, KR	GPS, Photo, Habitat Assessment
			Lopez Ridge	23-Apr	BYM, KR, MM	GPS, Photo, Habitat Assessment
			Lopez Kluge	23-Api	DTWI, KK, WIWI	GI 5, I HOIO, HAURAI ASSESSIBEIL
			Marron Valley	15-May	BYM, KR, MM	Photo, Habitat Assessment
			Mission Trails			
			Regional Park	18-Apr	BYM, KR	GPS, Photo, Habitat Assessment
			Otay Lakes	2-May	BYM, KR, MM	Photo, Habitat Assessment

Species	Risk Group (SDSU '06)	Risk Group (Ogden '96)	Site	Survey Date	Staff	Methodology
Brodiaea orcuttii						
(Orcutt's Brodiaea)	Third	Second	Carroll Canyon	23-Apr	BYM, KR, MM	GPS, Photo, Habitat Assessme
				_		
			Lopez Ridge	23-Apr	BYM, KR, MM	GPS, Photo, Habitat Assessme
				_		
			Nobel Drive	23-Apr	BYM, KR, MM	GPS, Photo, Habitat Assessme
			USIU/Alliant/			
			Scripps Ranch	23-Apr	BYM, KR, MM	GPS, Photo, Habitat Assessme
Cylindropuntia [Opuntia]				_	BYM, KR, MM,	
californica [ var. serpentina] (Snake Cholla)	Second	Third	Otay Mesa	30-Apr	SM	GPS, Photo, Habitat Assessme
(Shake Chona)			-	<u>^</u>		
			Spring Canyon	30-Apr	BYM, MM, SM	GPS, Photo, Habitat Assessme
Deinandra [Hemizonia]			· · · ·			
conjugens	First	First	Dennery Ranch	21-May	BYM, KR, MM	GPS, Photo, Habitat Assessme
(Otay Tarplant)				, ,		, ,
			Dennery Ranch East	21-May	BYM, KR, MM	GPS, Photo, Habitat Assessme
				, ,	, ,	, ,
			Proctor Valley	21-May	BYM, KR, MM	GPS, Photo, Habitat Assessme
			<u>y</u>	, ,	, ,	, ,
Dicranostegia orcuttiana						
[Cordylanthus orcuttianus]		<b>T</b> : (		21.34		
(Orcutt's Bird's Beak) Dudleya blochmaniae ssp.	First	First	Otay River Valley	21-May	BYM, KR, MM	GPS, Photo, Habitat Assessme
brevifolia			~		BYM, KR, CW,	
(Short Leaf Dudleya)	First	First	Carmel Mountain	24-Apr	KC	GPS, Photo, Habitat Assessme
				24.4	BYM, KR, CW,	
Dudleya variegata			Crest Canyon	24-Apr	KC	GPS, Photo, Habitat Assessme
(Variegated Dudleya)						
	Second	First	Blk Mtn Park East	7-May	BYM, KR, MM	GPS, Photo, Habitat Assessme
			East Elliott	9-May	BYM, KR, MM	GPS, Photo, Habitat Assessme
			Goat Mesa/		BYM, KB, KR,	
			Spring Canyon	30-Apr	MM, SM	GPS, Photo, Habitat Assessme
			Marron Valley	14-May	BYM, KR, MM	GPS, Photo, Habitat Assessme
			Mercy Road	9-May	BYM, KR, MM	GPS, Photo, Habitat Assessme
			Mission Trails			
			Regional Park	9-May	BYM, MM	GPS, Photo, Habitat Assessme
			Navajo/Margarum/			
			Mission Gorge	9-May	BYM, MM	GPS, Photo, Habitat Assessme
			Otay Lakes	2-May	BYM, KR, MM	GPS, Photo, Habitat Assessme
			Santa Luz	7-May	BYM, KR, MM	GPS, Photo, Habitat Assessme

Species	Risk Group (SDSU '06)	Risk Group (Ogden '96)	Site	Survey Date	Staff	Methodology
Eryngium aristulatum var. parishii (San Diego Button Celery)	Second	None	Goat Mesa/Spring Canyon (J16-18)	30-Apr	BYM, KR, KB, SM, MM	GPS, Photo, Habitat Assessment
			Otay Lakes	2-May	BYM, KR, MM	GPS, Photo, Habitat Assessment
Monardella stoneana (Jennifer's Monardella) and Monardella viminea (Willowy	Second	First	Otay Lakes	2-May	BYM, KR, MM	GPS, Photo, Habitat Assessment
Monardella)			Lopez Canyon	13-Jun	BYM, KR, MM, KC	GPS, Photo, Habitat Assessment
			Sycamore Canyon	13-Jun	BYM, KR, MM, KC	GPS, Photo, Habitat Assessment
<i>Navarretia fossalis</i> (Spreading Navarretia)	First	None	Carroll Canyon	23-Apr	BYM, KR, MM	GPS, Photo, Habitat Assessment
			Goat Mesa/Spring Canyon (J16-18)	30-Apr	KR, KB	GPS, Photo, Habitat Assessment
			Nobel Drive	23-Apr	BYM, KR, MM	GPS, Photo, Habitat Assessment
			Otay Lakes	2-May	BYM, KR, MM	GPS, Photo, Habitat Assessment
			Robinhood Ridge	2-May	BYM, KR, MM	GPS, Photo, Habitat Assessment
Pogogyne abramsii (San Diego Mesa Mint)	Second	None	Carroll Canyon	23-Apr	BYM, KR, MM	GPS, Photo, Habitat Assessment
			Lopez Ridge	23-Apr	BYM, KR, MM	GPS, Photo, Habitat Assessment
Pogogyne nudiuscula (Otay Mesa Mint)	First	None	Robinhood Ridge	2-May	BYM, KR, MM	GPS, Photo, Habitat Assessment
Rosa minutifolia (Baja Rose)	First	Third	Dennery Ranch	21-May	BYM, KR, MM	GPS, Photo, Habitat Assessment

#### Survey Staff

BYM = Betsy Miller, Senior Planner

KR = Kim Roeland, Biologist III

MM = Mike Milano, Management Intern

KC = Kristina Cary, Management Intern

SM = Syd Magner, Management Intern

KW = Karina Weber, Park Ranger

KB = Keli Balo, Senior Planner, PUD

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