City of San Diego MSCP Rare Plant Monitoring: 2006 Summary Results

			Popul	ation		Nati	ve	Non-Native				
Species	Site Name	Area (m²)¹	Area (ft²)¹	# Indiv- iduals	% Cover	Number of Species ²	Percent Cover ^{2,3}	Number of Species	% Cover³	Management Recommendation	Field Data Sht (pg. #)	Photo (pg. #)
Dudleya blochmaniae ssp. brevifolia (Short-Leaf	Carmel Mountain - 1	313	3,372	80 (Est)	0.5%	9	34%	4	2%	Monitor access- control if needed (install railing along trail edge?)	36	37
Dudleya)	Carmel Mountain - 2	669	7,206	5 (Est)	<1%	6	10%	NA	NA	Recent access control efforts successful; no add'l management activities needed	38	29
	Carmel Mountain - 3	1,487	16,011	175 (Est)	<1%	7	31%	NA	NA	"	40	41
	Crest Canyon - North	158	1,704	250 (Est)	1%	12	20%	NA	NA	Control invasives at perimeter (iceplant) & control access	42	43-44
	Crest Canyon - South	11	123	10 (Est)	0.5%	3	2%	1	1%	Fence north-south trail & close trail from east	45	46
	Skeleton Canyon	27	294	10 (Est)	0.5%	7	44%	2	1%	Relocate trail or fence sides of trail	47	48

Scientific Name: Dudlena brevifolia	Å.		Con	nmon Name:	Short - Le	af Dud	lena
Site Name: Carnel Mountain		#	Contract to the second	agement Unit		-	J
Date: 7 2 2-51	, ,		1/00	accoment Desi	-02		
Surveyors and Affiliation/Agency: Keith	Sreer, 1	Melan	ie Jah	nson Rocks.	- City of	San Diego	MSCP
Surveyors and Affiliation/Agency: Keith (Species Found? Yes No				-	- U L	auren Mie	er 1 - SDSN
. (If no	ot, why (if reason kr orders of 10, 100 a	nown or suspecte	ed)?	
Population/Subpopulation Area: 300		/h Uni	<u>></u>		d on GPS mappi		mate
Collection (if not collected previously)?	res 🗹 No			ed Previously			
If yes:					**************************************		
Collector			Collection	Number	Museu	um/Herbarium	
I. OBSERVATION AREA/MANAGEMENT	UNIT LOC	OITAC	N				
Accuracy of Coordinates/GPS Error: +/-		met	ters	feet			22.000000000000000000000000000000000000
Observation Location:				State	e Plane (feet)	☐ UTM	
II. GENERAL HABITAT DESCRIPTION AN	ID THRE/	ATS A	SSESS	MENT			
Vegetation Community: Opening in							
Landowner/Manager: City Of San	Diego fo	ark.	# Kec	Open Space	Land		
Overall Site Quality**				Fair to Good	Poor	Ver	y Poor
Surrounding land use: <u> </u>	- / prese	rve					-
Disturbances and/or threats (be specific, include	extent		Mana	agement Recom	nmendation/s:		
of disturbance or percent cover of disturbance if	possible):		Pn	+ railing	alma 1	hail edg	W
Trail nearby			/ ***	1	41.00	J	
III. ASSOCIATED SPECIES							
List dominant, subdominant and invasive specie							
Form: Tree=T, Shrub=S, Herb/Graminoid=H; 'Cover"=	= % cover of	species	s; Note if	collected by chec	ckina 'Coll.' colu		d to herbarium,
note collection number (submit to SDNHM unless othe Form Species	erwise noted) Cover	egone	ggggggdhanhaannan	te non-native spe Species	cies		O
11 Selazinella cinerascens	.30	COII.	H			***************************************	Cover Coll.
A Dudleya brevitation	41	l	H	Antairchi.	num sp. radrikasis	*	4/
Al Deirardea fasciculata	4		5	Ferocactu			2/
H Centaurea melitansist	e j	<u></u>	5	Eriogonun	// .	. /	21
H Osmadonia tengla	Z]		5	Adenoston	······································	ulatum	۷/
H Sonchus asper # Conn att	۷)		H	Eriophyllum	confer h	iflirum	<′/
4 Crassula contrata Commata	£ £	-				***************************************	
IV. SITE PHOTOMONITORING							
Camera type: <u>Canen Powershot At</u>	15						
	W.W. NW	IN	52	Down	5-10°	55-58	E: Monitoring
Location [State Plane (ft)]	Direction (fa		Hei		nera Angle	Photo #	File location/s
Location [State Plane (ft)]	Direction (fa	acing)	Hei	ght Cam	nera Angle	Photo #	File location/s
V. OTHER FIELD NOTES					<u> </u>		7 10 10 00 11 11
Other Field Notes/Comments:							
			-		***************************************	-	

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

Photo 16. *Dudleya blochmaniae* ssp. *brevifolia* (Short-Leaf Dudleya) Carmel Mountain – Subpopulation One



Panorama from eastern edge of subpopulation, facing southwest, west, northwest and north (photos merged using Canon PhotoStitch, v. 3.1).

Scientific Name: Dudleya brevifolio	<u>. </u>		Comr	non Name	: Short-	Leaf D	udkna	
Site Name: Carnel Mth - Subpy	p 2			gement Ui			0	
Date: Jun= 2 2006	_			gement Re				
Surveyors and Affiliation/Agency: Keith &	reer, Mel	ane	Johny	on Rock	s , Betsy	Miller.	- City of	SD 2
Species Found? Yes No	,		If not		ven Hie n known or susp	· /	sul n	nscr
Total No. Individuals:5	Exact	Estimate			00 and 1000 for	,		
Population/Subpopulation Area: 25	-	m			ased on GPS ma		Estimate	
		Unit	.s			PFJ,	, mo	
If yes:	Yes No			d Previously				
Collector			collection I	Number	Mu	ıseum/Herbariı	um	
I. OBSERVATION AREA/MANAGEMENT	UNIT LOC							
Accuracy of Coordinates/GPS Error: +/-		mete	ers [feet	,	┌┐.		
Observation Location:				S	tate Plane (feet) <u></u> [[[JTM ——————	
II. GENERAL HABITAT DESCRIPTION A								
Vegetation Community: Deening in	Souther	· My	ixed	Chapar	ral/Ma	ritime	Chapperra	~(
Landowner/Manager: C.m. of San	Diego Par	K 2	Rec	Open S	price		U	
Overall Site Quality**	od-Excellent		Fa	air to Good	Poor		Very Poor	
Surrounding land use:				***************************************				
Disturbances and/or threats (be specific, include	de extent		Mana	gement Red	commendation	n/s:		***************************************
of disturbance or percent cover of disturbance	if possible):		1	-	tkr/gla			
l / "/	1/1/181		No	nove	Trolling	55		
Trail near population (now	u. c.				' 0			
Trail near population (now Broken glass in area	u. gen		·		' 0			
Broken glass in area	- Langer				' <i>D</i>			
Broken glass in area III. ASSOCIATED SPECIES	urger)				,)			
		rget sp						
III. ASSOCIATED SPECIES List dominant, subdominant and invasive spec Form: Tree=T, Shrub=S, Herb/Graminoid=H; 'Cover	sies in/near ta	species	pecies ob	bservation a	area/managen	nent unit.	mitted to herbal	rium,
III. ASSOCIATED SPECIES List dominant, subdominant and invasive spec Form: Tree=T, Shrub=S, Herb/Graminoid=H; 'Cover note collection number (submit to SDNHM unless of	sies in/near ta r"= % cover of therwise noted)	species); Use *	pecies of s; Note if a to indicat	bservation a collected by c te non-native	area/managen	nent unit.		
III. ASSOCIATED SPECIES List dominant, subdominant and invasive specific form: Tree=T, Shrub=S, Herb/Graminoid=H; 'Cover note collection number (submit to SDNHM unless of Form Species	sies in/near ta	species); Use *	pecies ob	bservation a collected by c te non-native	area/managen	nent unit.	mitted to herbai	
III. ASSOCIATED SPECIES List dominant, subdominant and invasive speciform: Tree=T, Shrub=S, Herb/Graminoid=H; 'Covernote collection number (submit to SDNHM unless of Form Species H. Selaginella Cinerascens S. Adenosfone fasciculata	sies in/near ta r"= % cover of therwise noted) Cover	species); Use *	pecies of s; Note if a to indicat	bservation a collected by c te non-native	area/managen	nent unit.		
III. ASSOCIATED SPECIES List dominant, subdominant and invasive speciform: Tree=T, Shrub=S, Herb/Graminoid=H; 'Cover note collection number (submit to SDNHM unless of Form Species H. Selaginella cinerascens S. Adenostoma fasciculata S. Eriogenum fasciculatum	cies in/near ta r"= % cover of sherwise noted) Cover 5 2	species); Use *	pecies of s; Note if a to indicat	bservation a collected by c te non-native	area/managen	nent unit.		
III. ASSOCIATED SPECIES List dominant, subdominant and invasive speciform: Tree=T, Shrub=S, Herb/Graminoid=H; 'Cover note collection number (submit to SDNHM unless of Form Species H. Selaginella cinerascens S. Adenosfore fasciculata S. Eriogenum fasciculatum H. Deinandra fasciculata	cies in/near ta r"= % cover of rherwise noted) Cover 5 2 1	species); Use *	pecies of s; Note if a to indicat	bservation a collected by c te non-native	area/managen	nent unit.		
III. ASSOCIATED SPECIES List dominant, subdominant and invasive speciform: Tree=T, Shrub=S, Herb/Graminoid=H; 'Cover note collection number (submit to SDNHM unless of Form Species H. Selaginella cinerascens S. Adenostoma fasciculata S. Eriogenum fasciculatum	cies in/near ta r"= % cover of sherwise noted) Cover 5 2	species); Use *	pecies of s; Note if a to indicat	bservation a collected by c te non-native	area/managen	nent unit.		
III. ASSOCIATED SPECIES List dominant, subdominant and invasive speciform: Tree=T, Shrub=S, Herb/Graminoid=H; 'Covernote collection number (submit to SDNHM unless of Species H. Selaginella Cinerascens S. Adenostoma fasciculata S. Eriogenum fasciculatum H. Deinandra fasciculata M. Dudleya brevicilia	sies in/near ta r"= % cover of sitherwise noted) Cover S 2 1 -1	species); Use *	pecies of s; Note if a to indicat	bservation a collected by c te non-native	area/managen	nent unit.		
III. ASSOCIATED SPECIES List dominant, subdominant and invasive speciform: Tree=T, Shrub=S, Herb/Graminoid=H; 'Covernote collection number (submit to SDNHM unless of Species H. Selaginella cinerascens S. Adenostoma fasciculata S. Eriogenum fasciculatum H. Deinandra fasciculatum H. Deinandra fasciculata H. Dudleya brevialia H. Navarretia hamata	sies in/near ta r"= % cover of sitherwise noted) Cover S 2 1 -1	species); Use *	pecies of s; Note if a to indicat	bservation a collected by c te non-native	area/managen	nent unit.		
III. ASSOCIATED SPECIES List dominant, subdominant and invasive speciform: Tree=T, Shrub=S, Herb/Graminoid=H; 'Cover note collection number (submit to SDNHM unless off Form Species H. Selaginella Ginerascens S. Adenostoma fasciculata S. Eriogenum fasciculatum K. Deinandra fasciculatum K. Dudleya brevicilia H. Dudleya brevicilia H. Navarreha hamata IV. SITE PHOTOMONITORING	sies in/near ta r"= % cover of sitherwise noted) Cover 5 2 1 -1 -1 -1	species); Use *	pecies of s; Note if a to indicat	bservation a collected by c te non-native	area/managen	nent unit.		
III. ASSOCIATED SPECIES List dominant, subdominant and invasive speciform: Tree=T, Shrub=S, Herb/Graminoid=H; 'Covernote collection number (submit to SDNHM unless of Form Species H. Selaginella cinerascens S. Adenostome fasciculata S. Eriogenum fasciculatum K. Deinandra fasciculatum K. Deinandra fasciculatum K. Dudleya brevifilia H. Dudleya brevifilia H. Navadreha hamata IV. SITE PHOTOMONITORING Camera type: Canen Powershot	sies in/near ta r''= % cover of sherwise noted) Cover 5 2 1 -1 -1 -1	species ; Use * . Coll.	pecies ob s; Note if of to indicat	bservation a collected by of the non-native Species	area/managen checking 'Coll.' o species	nent unit.	Cover	Coll.
III. ASSOCIATED SPECIES List dominant, subdominant and invasive speciform: Tree=T, Shrub=S, Herb/Graminoid=H; 'Covernote collection number (submit to SDNHM unless of Form Species H. Selaginella cinerascens S. Adenostome fasciculata S. Eriogenum fasciculatum K. Deinandra fasciculatum K. Deinandra fasciculatum K. Dudleya brevifilia H. Dudleya brevifilia H. Navadreha hamata IV. SITE PHOTOMONITORING Camera type: Canen Powershot	sies in/near ta r"= % cover of sitherwise noted) Cover 5 2 1 -1 -1 -1	species ; Use * . Coll.	pecies of s; Note if a to indicat	bservation a collected by of the non-native Species	area/managen	nent unit.	Cover	Colli
III. ASSOCIATED SPECIES List dominant, subdominant and invasive speciform: Tree=T, Shrub=S, Herb/Graminoid=H; 'Cover note collection number (submit to SDNHM unless off Form Species H. Selaginella Ginerascens S. Adenosfome fasciculata S. Eriogenum fasciculata K. Deinandra fasciculata H. Dudleya brevicia H. Dudleya brevicia H. Navarretia hamata IV. SITE PHOTOMONITORING Camera type: Powershot Location [State Plane (ft)]	cies in/near ta f"= % cover of inferwise noted) Cover S J -J -J -J -J -J -J -J -J	species); Use * Coll. Coll. SE acing)	pecies ob s; Note if of to indicate Form s Heig	bservation a collected by of the non-native species	area/managen checking 'Coll.' of species	nent unit. column; if subsection in the subsect	Cover # File loc	Coll.
III. ASSOCIATED SPECIES List dominant, subdominant and invasive species Form: Tree=T, Shrub=S, Herb/Graminoid=H; 'Covernote collection number (submit to SDNHM unless off Form Species H. Selaginella cinerascens S. Addnosfome fasciculata S. Eriogenum fasciculatum H. Deinandra fasciculatum H. Dudleya breviculat H. Dudleya breviculat H. Navadreha hamata IV. SITE PHOTOMONITORING Camera type: Location [State Plane (ft)]	cies in/near ta r''= % cover of sherwise noted) Cover 5 2 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -	species); Use * Coll. Coll. SE acing)	pecies of s; Note if of to indicat	bservation a collected by of the non-native species	area/managen checking 'Coll.' o species	nent unit.	Cover # File loc	Coll.
III. ASSOCIATED SPECIES List dominant, subdominant and invasive species Form: Tree=T, Shrub=S, Herb/Graminoid=H; 'Covernote collection number (submit to SDNHM unless off Species H. Selaginella Cinerascens S. Adenostoma fasciculata S. Eriogonum fasciculata K. Deinandra fasciculata M. Dudleya brevifilia H. Navadreha hamata IV. SITE PHOTOMONITORING Camera type:	cies in/near ta f"= % cover of inferwise noted) Cover S J -J -J -J -J -J -J -J -J	species); Use * Coll. Coll. SE acing)	pecies ob s; Note if of to indicate Form s Heig	bservation a collected by of the non-native species	area/managen checking 'Coll.' of species	nent unit. column; if subsection in the subsect	Cover # File loc	Coll.
III. ASSOCIATED SPECIES List dominant, subdominant and invasive species Form: Tree=T, Shrub=S, Herb/Graminoid=H; 'Covernote collection number (submit to SDNHM unless off Form Species H. Selaginella cinerascens S. Addnosfome fasciculata S. Eriogenum fasciculatum H. Deinandra fasciculatum H. Dudleya breviculat H. Dudleya breviculat H. Navadreha hamata IV. SITE PHOTOMONITORING Camera type: Location [State Plane (ft)]	cies in/near ta f"= % cover of inferwise noted) Cover S J -J -J -J -J -J -J -J -J	species); Use * Coll. Coll. SE acing)	pecies ob s; Note if of to indicate Form s Heig	bservation a collected by of the non-native species	area/managen checking 'Coll.' of species	nent unit. column; if subsection in the subsect	Cover # File loc	Coll.
III. ASSOCIATED SPECIES List dominant, subdominant and invasive species Form: Tree=T, Shrub=S, Herb/Graminoid=H; 'Covernote collection number (submit to SDNHM unless off Species H. Selaginella Cinerascens S. Adenostoma fasciculata S. Eriogonum fasciculata K. Deinandra fasciculata M. Dudleya brevifilia H. Navadreha hamata IV. SITE PHOTOMONITORING Camera type:	cies in/near ta f"= % cover of inferwise noted) Cover S J -J -J -J -J -J -J -J -J	species); Use * Coll. Coll. SE acing)	pecies ob s; Note if of to indicate Form s Heig	bservation a collected by of the non-native species	area/managen checking 'Coll.' of species	nent unit. column; if subsection in the subsect	Cover # File loc	Coll.

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

Photo 17. *Dudleya blochmaniae* ssp. *brevifolia* (Short-Leaf Dudleya) Carmel Mountain - Subpopulation Two



Panorama from southern side (across closed trail) of subpopulation, facing north, northeast, east and southeast (photos merged using Canon PhotoStitch, v. 3.1).

Scientific Name: Dudlena brevifol	`&	Common Name:	Short-Leaf	Dudleya
Site Name: Carmel Mountain -		Management Uni	t#: 780	
Date: June 2 2006	0 0	Management Reg	-	
Surveyors and Affiliation/Agency: Kedf	Green Melan	ic Johnson Ro	cks, Betsal	Miller - City of SDMSet
Species Found? Yes No				Hiert Sosn
Total No. Individuals:		e (use orders of 10, 100		
Population/Subpopulation Area: 679	Units		ed on GPS mapping)	Estimate
Collection (if not collected previously)?	Yes No ?	Collected Previously		
Collector	C	ollection Number	Museum/	Herbarium
I. OBSERVATION AREA/MANAGEMEN	FUNIT LOCATION			150
Accuracy of Coordinates/GPS Error: +/		rs feet		
Observation Location:		Sta	te Plane (feet)	UTM
II. GENERAL HABITAT DESCRIPTION	ND THREATS AS	SESSMENT		
		ed Chappers	1/10-2:	Che rand 1/65
Landowner/Manager: C.m. of Sa	a Diego Park	1 / / "	Space	- cregarity cs
Overall Site Quality**	od-Excellent	Fair to Good	Poor	Very Poor
Surrounding land use:				
Disturbances and/or threats (be specific, inclu	de extent	Management Reco	mmendation/s:	
of disturbance or percent cover of disturbance	if possible):	_		
Trail Through center of population (now closed)				
population (now closed)				
III. ASSOCIATED SPECIES				
List dominant, subdominant and invasive spec	ies in/near target sp	ecies observation are	ea/management u	nit.
Form: Tree=T, Shrub=S, Herb/Graminoid=H; 'Cove	r"= % cover of species;	Note if collected by ch	eckina 'Coll.' column	
note collection number (submit to SDNHM unless of	herwise noted); Use * t	o indicate non-native sp	pecies	,
Form Species	Cover Coll.	Form Species		Cover Coll.
M Selaginella Cinerascens S Adenostoma fasciculata	25	***************************************		
H Deinandra fasciculata				
A Dudleya brevifolia	21			
5 Eriogonum fasciculatum			***************************************	***************************************
H Navarretia hamata	4	······································		
S Malosma laurina			·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
S Opentia litteralis				
IV. SITE PHOTOMONITORING				
Camera type: <u>Canon Powershot A7</u>				
Location [State Plane (ft)]	SE, S, SW, W, NW Direction (facing)			13-47 E: Monitoring
Essention [State Pane (it)]	Direction (racing)	neight Ca	mera Angle	Photo # File location/s
Location [State Plane (ft)]	Direction (facing)	Height Ca	mera Angle	Photo # File location/s
V. OTHER FIELD NOTES				
Other Field Notes/Comments:	****	161-141-141-141-141-141-141-141-141-141-		

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

Photo 18. *Dudleya blochmaniae* ssp. *brevifolia* (Short-Leaf Dudleya) Carmel Mountain - Subpopulation Three



Panorama from eastern edge of subpopulation, facing southwest, west and northwest (photos merged using Canon PhotoStitch, v. 3.1).

Scientific Name: Dudleya brevitalia		Common Name:	: Short-Lest	Dudlega	
Site Name: Crest Conyon - Northe		Management Un			
Date: June 2 2086	, 0	Management Re	egime: TBD		
Surveyors and Affiliation/Agency: Kerk	Greer, Melas			y of San?	2:-
Species Found? Yes No			, (uren Hiert-	SDSW.
	Exact Estimate	te (use orders of 10, 10	• •	•	
Population/Subpopulation Area:		Exact (bas	ased on GPS mapping)		
	Units	ts		/	
Collection (if not collected previously)?		Collected Previously			
Collector		Collection Number	Museum/	n/Herbarium	
I. OBSERVATION AREA/MANAGEMENT					
Accuracy of Coordinates/GPS Error: +/-	mete			-	Affine
Observation Location:			tate Plane (feet)	UTM	
II. GENERAL HABITAT DESCRIPTION A					
	S. Maritime	Chaparra (
Landowner/Manager: City of Sun	Digo Park	of Rec ope	en Space		
Overall Site Quality**	od-Excellent	Fair to Good	Poor	Very Poor	
Surrounding land use:					·
Disturbances and/or threats (be specific, includ	le extent	Management Reco	rommendation/s:		
of disturbance or percent cover of disturbance i	if possible):			cent	41
Iceplant on perimeter, tre	es pass	at perim	rasives; accepted	cess	rol
from adjacent properties	g	<i>J</i>	<i>2</i> 7		
, v					
III. ASSOCIATED SPECIES					
List dominant, subdominant and invasive specie	es in/near target sr	necies observation a	rea/management (ınit	
Form: Tree=T, Shrub=S, Herb/Graminoid=H; 'Cover'	"= % cover of species;	s; Note if collected by ch	hecking 'Coll.' column		∍rbarium,
note collection number (submit to SDNHM unless other	nerwise noted);	to indicate non-native s	species	n the tradition and the commence of the commen	•
Il Seleginella Cinerascens	Cover Coll.	Form Species 5 Acknis	sia California		Cover Coll.
5 Aderostoma fasciculatum	2	H Dudleya	pulverulent	ta a	د (د ا
S Eriogenum fasciculatum	3	H Naseyla	- CC.F. Shipe	4) <	< /
S Coceridium duposum H Corethroggne filaginitalia		H Mimulu.	s aurantiacu	45	4
H Enophalium californica		3 Knus III	ntegrifica	1979 44 - 2444	4
H Dudleya brevilia	2/				
M Dicher Stemma Capitatum	۷/				
IV. SITE PHOTOMONITORING	n				
	1 NU WINEE		100	1-10 CH	
Location [State Plane (ft)]	Direction (facing)	Sa" Dow Height C	<u>ບດ</u> ∼/0 ° Camera Angle	65-69 E:M Photo# File	lon fring
<u> </u>		, 10.g	differentials.	Flioto #	l0Catio
Location [State Plane (ft)]	Direction (facing)	Height C	Camera Angle	Photo # File	location/s
V. OTHER FIELD NOTES					
Other Field Notes/Comments:					

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

Photo 19. *Dudleya blochmaniae* ssp. *brevifolia* (Short-Leaf Dudleya) Crest Canyon – Northern Subpopulation



Panorama from southern edge of subpopulation, facing west and northwest (photos merged using Canon PhotoStitch, v. 3.1).

Photo 20. *Dudleya blochmaniae* ssp. *brevifolia* (Short-Leaf Dudleya) Crest Canyon – Northern Subpopulation



Panorama from southern edge of subpopulation, facing north, northeast and east (photos merged using Canon PhotoStitch, v. 3.1).

Scientific Name: Dudleya brevitalia					Short-L	eaf Dudle	na_	
Site Name: Crest Canyon - Southern	Subp	<i>5</i> p	Mana	agement Un	it#: 780		Õ	
Date: June 2 2006	1/	•			gime: TBD			
Surveyors and Affiliation/Agency: Leith bree	r, Mh	clapse	Johns	on Kacks			/	
Species Found? Yes No				. "f -2200r		ven Hierl,	SDSU	
Total No. Individuals:/O Exact	t 🕡	Estima'			n known or suspect 00 and 1000 for es	,		
Population/Subpopulation Area:	_				sed on GPS mapp	promoting	asta	
		Unit	ts		Sed on G. S	лпу)	late	
Collection (if not collected previously)?	☑ No	, ?	Collecte	ed Previously				
Collector		C	Collection	Number	Muse	eum/Herbarium		
I. OBSERVATION AREA/MANAGEMENT UNI	IT LOC	OITAC	N					
Accuracy of Coordinates/GPS Error: +/-		mete	ers	feet	2000a400a400a	1920/2020/00/00/00/00/00/00/00/00/00/00/00	W/39000000000000000000000000000000000000	70000000000000000000000000000000000000
Observation Location:				Sta	ate Plane (feet)	UTM		
II. GENERAL HABITAT DESCRIPTION AND 1	THRE/	ATS A	SSESS	SMENT				
				Aime Ch	aparral			
Landowner/Manager: City of Sun Dia	150	Pork		Recreation.	A	Space D'	<i>/</i> .	
Overall Site Quality**	cellent		VF	Fair to Good	Poor	v	/ Poor	
Surrounding land use: <u>Open Space press</u>	urse	. , <u>r</u> o	ad/1	homes no	50 to e	ast		-
Disturbances and/or threats (be specific, include ext			Mana	agement Rec	ommendation/s	enterioris de la companya della companya della companya de la companya della comp	***************************************	
of disturbance or percent cover of disturbance if pos	ssible):		*	-		and clos	-	ļ
Trail Through population and evid of pedestrian use throughout	dence	~	at		1 from			ļ
of pedestrian use Mroughout			v·	7	/ ,,	 ,		
						_		I
III. ASSOCIATED SPECIES								
List dominant, subdominant and invasive species in	∿near tr	araet s	necies (sheervation a	rea/manageme	nt unit		
Form: Tree=T, Shrub=S, Herb/Graminoid=H; 'Cover''= % o	cover of	f species	s; Note if	f collected by cl	hecking 'Coll.' col		to herbariı	um,
note collection number (submit to SDNHM unless otherwis Form Species	se noted)	d); Use *	to indica	ate non-native s	species		······································	· · · · · · · · · · · · · · · · · · ·
	Cover	Coll.	Form	Species	***************************************		Cover	Coll.
H Dudleya brevitolia H Deinandra Conjugens	21				A			
H Chlorogalum Sp.	</td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
H Grapthalium sp.	£1					**************************************		
H (6+. Spergularin Sp.)	41	1				·		
		l l						
IV. SITE PHOTOMONITORING								
Camera type: <u>(an an Powershot A75</u>					. 0		- 6.	
	N N rection (fa				Camera Angle	62-64 6	EMon. to	
Location [State Flane (II/]	action (ii	acing <i>)</i>	ПС	ight c	amera Angle	Photo #	File locat	tionysy
Location [State Plane (ft)] Dire	rection (fa	iacing)	He	eight C	Camera Angle	Photo #	F:1- 1	
V. OTHER FIELD NOTES							File locat	tion/s
(<u></u>							File loca	tion/s
Other Field Notes/Comments:							File loca	tion/s
Other Field Notes/Comments:					79/31 7. 11/1		File loca	tion/s
Other Field Notes/Comments:							File loca	

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

Photo 21. *Dudleya blochmaniae* ssp. *brevifolia* (Short-Leaf Dudleya) Crest Canyon – Southern Subpopulation



Panorama from southern edge of subpopulation, facing northwest, north and northeast (photos merged using Canon PhotoStitch, v. 3.1).

Scientific Name: Dudleya brevitila					Short-L	ent D	ridley	A.
Site Name: Skeletok Canyon				agement Unit			U	
Date: June 2, 2006 /		4 /		agement Regi			. ,	-
Surveyors and Affiliation/Agency: Keith &	sur, 11	lelan	يزد آوا	anson Koc	//			
Species Found? Yes No					known or suspected	•	SDSU	
	Exact 🚺	Estimat		orders of 10, 100	and 1000 for estir	cimates)		
Population/Subpopulation Area:		Unit	its	Exact (base	sed on GPS mapping	ng) Estim	ıate	
Collection (if not collected previously)?	′es 🗹 No			ed Previously				
Collector			Collection	Number	Museur	ım/Herbarium		
I. OBSERVATION AREA/MANAGEMENT U	INIT LOC	:ATIO	N					
Accuracy of Coordinates/GPS Error: +/-		met	Г	feet				
Observation Location:					ite Plane (feet)	Шитм		ı
II. GENERAL HABITAT DESCRIPTION AN	ID THRE/	ΔΥςΔ	esess		C T IC.	L		
Vegetation Community: <u>Opening</u> in I	_				/ L			
Landowner/Manager: University of	11.0		San	Die _	scrno			
Overall Site Quality**		M-1	₽ F	Fair to Good	Poor	Very	y Poor	
Surrounding land use:							•	
Disturbances and/or threats (be specific, include	extent.	***************************************		_	ommendation/s:	***************************************		
of disturbance or percent cover of disturbance if	f possible):			_	trail or	r fine	- alo	na
Trails Through population;	evidence	i-e	*	des ox		•	Supposer	1
Trails Through population; of pedestrian use / damage	,		0,00	les or	Jean			
′								
III. ASSOCIATED SPECIES								
List dominant, subdominant and invasive specie	s in/near ta	arget sr	pecies c	bservation are	ea/management	t unit.	200000000000000000000000000000000000000	800 man
Form: Tree=T, Shrub=S, Herb/Graminoid=H; 'Cover"=						mn; if submitted	I to herbari	um,
note collection number (submit to SDNHM unless othe Form Species	erwise noted), Cover	againment and g	2,2,2,2,2,200 miles miles in the state of th	ate non-native sp)ecies		Cover	Coll.
H Schaginella Cineragons	40 40	Con.	Form			2010/101/101/101/101/101/101/101/101/101	Cover	Con.
S Eriogonum tasciculatum	1	1	И	Grapthalia Lotus so	coperius		4	
H Bromus madr. tensis*	دا =			Superior Seed at 1				
S Artemisia Californica	41	-			***************************************			ļ
H Deinandra fasciculata H Dudlega brevifolia	2 2	-	4	*		PTO WATER TO THE OWN AND AN ARRANGE OF THE		į
H Dudlega Brevitolia H Dudlega edulis	د ا د ا	 	4	(Maria Maria	/// managa			
H Erodium Sp.*	4	<u> </u>	1					<u> </u>
IV. SITE PHOTOMONITORING								
Camera type: Conon 475 Powersh								<i></i>
<u>W</u>	NW, N				in ~5°	59-61 1	E Monito	aring.
Location [State Plane (ft)]	Direction (fa	acing)			amera Angle	Photo #	File loca	tions
Location [State Plane (ft)]	Direction (fa	ia <u>cing)</u>	He	eight Ca	amera Angle	Photo #	File locat	atio <u>n/s</u>
V. OTHER FIELD NOTES								
Other Field Notes/Comments:								Billiones

					,—————————————————————————————————————		***************************************	noncompanies
			-					

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

Photo 22. *Dudleya blochmaniae* ssp. *brevifolia* (Short-Leaf Dudleya) Skeleton Canyon



Panorama from southeastern edge of population, facing west, northwest and north (photos merged using Canon PhotoStitch, v. 3.1).

Acknowledgments

The following staff assisted in the preparation of this report:

Melanie Johnson Rocks, Biologist III Keith Greer, Deputy Planning Director Lisa Markovchick-Nicholls, MSCP Intern

City of San Diego MSCP Rare Plant Monitoring: 2006 Field Dates and Staff

Species	Risk Group (SDSU 3/06)	Site	Survey Date	Field Staff	Methodology
•	,				- Ov
Arctostaphylos glandulosa ssp. crassifolia	First	Crast Convon	14-Apr	MJR, JG	Dhoto Hobitot Aggaggment
(Del Mar Manzanita)	FIISt	Crest Canyon	20-Apr	MJR, JG	Photo, Habitat Assessment
		Carmel Mountain	28-Apr	MJR, JG, KG	Photo, Habitat Assessment
Navarretia fossalis	First	Carroll Canyon	18-May	MJR, JG, LMN	Photo, Habitat Assessment
(Spreading Navarretia)		Nobel Drive	18-May	MJR, JG, LMN	Photo, Habitat Assessment
		Robinhood Ridge	16-May	MJR, BM, LMN	Photo, Habitat Assessment
Orcuttia californica					
(California Orcutt Grass)	First	Robinhood Ridge	16-May	MJR, BM, LMN	Photo, Habitat Assessment
Pogogyne nudiuscula (Otay Mesa Mint)	E' 4	D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16 16	MID DM LAOI	Di a III'a A
Acanthomintha illicifolia	First	Robinhood Ridge Black Mountain Pk	16-May	MJR, BM, LMN	Photo, Habitat Assessment Census, Photo, Habitat
(San Diego Thorn-mint)		W (BMR)	19-May	MJR, KG, MK	Assessment, Quantitative
,			J	, ,	Census, Photo, Habitat
		Mission Trails ^	26-May	MJR, KG, JF, LH	Assessment, Quantitative
		D : G	10.16	MD RC MR	Census, Photo, Habitat
		Penasquitos Cyn	19-May	MJR, KG, MK	Assessment, Quantitative
		Sabre Springs	19-May	MJR, KG, MK	Census, Photo, Habitat Assessment, Quantitative
Ambrosia pumila		Mission Trails	19 11149	, 110, 1111	Tibbecoment, Quantitative
(San Diego Ambrosia)	First	Regional Park	8-Jun	MJR, LMN	Photo, Habitat Assessment
Dudleya variegata		Black Mtn Pk - E			
(Variegated Dudleya)	Second	(BMR)	10-May	MJR, BM	Photo, Habitat Assessment
		Black Mountain Pk	,	,	,
		W (BMR)	19-May	MJR, MK	Photo, Habitat Assessment
		East Elliot	26-May 1-Jun	KG, MJR, BM MJR, JG	Photo, Habitat Assessment
		Goat Mesa	16-May	MJR, BM, LMN	Photo, Habitat Assessment
		Marron Valley	2-May	MJR	Photo, Habitat Assessment
		Mercy Road	10-May	MJR, BM	Photo, Habitat Assessment
		Mission Trails	26-May	MJR, KG, JF, LH	Photo, Habitat Assessment
		Otay Lakes	24-May	MJR, LMN	Photo, Habitat Assessment
		Santa Luz (BMR)	10-May	MJR, BM	Photo, Habitat Assessment
Dudleya blochmaniae		~ Zuz (Diffit)	10 1114	KG, MJR, BM,	Photo, Habitat Assessment,
subsp. brevifolia	First	Carmel Mountain	2-Jun	LH	Quantitative @ Pop 3
(Short-Leaf Dudleya)		Crest Canyon	2-Jun	KG, MJR, LH	Photo, Habitat Assessment
		Skeleton Canyon	2-Jun	KG, MJR, LH	Photo, Habitat Assessment

City of San Diego MSCP Rare Plant Monitoring: 2006 Field Dates and Staff

	Risk Group		Survey		
Species	(SDSU 3/06)	Site	Date	Field Staff	Methodology
Lotus nuttallianus	First	Hospitality Pt	18-May	MJR, JG, LMN	Photo, Habitat Assessment
(Nuttall's lotus)		No Men's Land	1-Jun	MJR, JG	Photo, Habitat Assessment
		South Shores	1-Jun	MJR, JG	Photo, Habitat Assessment
		Dunes Triangle	1-Jun	MJR, JG	Photo, Habitat Assessment
					Quantitative, Photo, Habitat
Monardella viminea	Second	Lopez Canyon	14-Jun	MJR, LMN, MKl	Assessment
(Willowy Monardella)		Marron Valley	30-Jun	MJR, BM, PS	Quantitative
					Quantitative, Photo, Habitat
		Sycamore Canyon^	20-Jun	KG, LMN	Assessment
		Otay Lakes^	12-Jul	MJR, PS, LMN	Habitat Assessment, Photo
Deinandra conjugens					
(Otay Tarplant)	First	Proctor Valley n	16-Jun	MJR, PS	Photo, Habitat Assessment
Cordylanthus orcuttianus					Quantitative, Photo, Habitat
(Orcutt's Bird's Beak)	First	Otay River Valley	7-Jul	MJR, JG	Assessment

[^] Survey site is located in Oct 2003 fire-affected area

City Staff, Planning Department

KG = Keith Greer, Planning Deputy Director

MJR = Melanie Johnson Rocks, MSCP Biologist

BM = Betsy Miller, MSCP Planner

LMN = Lisa Markovchick-Nicholls, MSCP Intern

MKI = Michael Klein, Information Systems Analyst II

City Staff, Park and Recreation Department

J. Garcia = Joshua Garcia, Open Space Natural Resources Manager

City Staff, Water Department

PS = Paul Schlitt, Water Operations Biologist

Volunteer (Non-Staff) Monitors:

MK = Mike Kelly, Conservation Resources Network

JF = Dr. Janet Franklin, MSCP Monitoring Plan Revision Grant Lead, SDSU

LH = Lauren Hierl, MSCP Monitoring Plan Revision Grant Staff, SDSU