# **Vernal Pool Habitat Conservation Plan (VPHCP)**

# **Annual Monitoring and Management Report**



City of San Diego

2019

## I. Introduction

The City of San Diego (City) Vernal Pool Habitat Conservation Plan (VPHCP) is intended to provide an effective framework to protect, enhance, and restore vernal pool resources in specific areas of San Diego, while improving and streamlining the environmental permitting process for impacts to threatened and endangered species associated with vernal pools. The City developed this VPHCP to provide for the long-term conservation, management, and monitoring of these species and avoid costly delays and uncertainty associated with a project-by-project approach toward vernal pool conservation. Implementation of the VPHCP will preserve a network of vernal pool habitat in a matrix of open space; protect the biodiversity of these unique wetlands; and define a formal strategy for their long-term conservation, management, and monitoring.

The VPHCP is a conservation plan for vernal pools and seven threatened and endangered covered species that do not have federal coverage under the City's Multiple Species Conservation Program (MSCP) Subarea Plan (SAP), including five plant and two crustacean species (i.e., covered species):

- Otay Mesa mint (Pogogyne nudiuscula, PONU)
- San Diego mesa mint (Pogogyne abramsii, POAB)
- Spreading navarretia (Navarretia fossalis, NAFO)
- San Diego button-celery (Eryngium aristulatum var. parishii, ERAR)
- California Orcutt grass (Orcuttia californica, ORCA)
- Riverside fairy shrimp (Streptocephalus woottoni, RFS)
- San Diego fairy shrimp (Branchinecta sandiegonensis, SDFS)

This report summarizes the methods and results of quantitative covered plant monitoring conducted in 2019 for 30 vernal pool complexes on lands owned and managed by City of San Diego (City), Park and Recreation Department Open Space Division, Public Utilities Department (PUD), Real Estate Assets Department (READ), and Environmental Services Department (ESD) in accordance with the Final City VPHCP (2018) and Vernal Pool Management and Monitoring Plan (VPMMP 2018).

## **Table of Contents**

Introduction	1
Anderprises	
Brown Field	11
Cal Terraces North – Otay Mesa Parcels	14
Cal Terraces South	
Carmel Mountain	143
Carroll Canyon	
Clayton Parcel	177
Cresent Heights	192
Del Mar Mesa	199
Goat Mesa	230
Greystone Torrey Highlands	236
Hidden Trails	
Kelton	251
Lopez Ridge	256
Marron Valley	265
Mission Trails Regional Park	
Montgomery Field	
Nobel Drive	316
Otay Lakes	322
Pasatiempo	341
Proctor Valley	
Pueblo Lands	351
Robinhood Ridge	355
Sanders	510
Serra Mesa Library	512
South Otay 1 Acre	519
Tecolote Canyon	529
West Otay B	529
West Otay C	537
Winterwood	545
Wruck Canyon	549

# Anderprises

Planning Unit: South Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: No

Planning Unit: South City or Other? City	Managing Department: Park_Recreation
Baseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
ualitative Monitoring Data:	
<b>Visit Date:</b> 2/26/2019 <b>Start Time:</b> 6:30:00	
urveyors: Jason Allen, Diana Brand, Jessie Lane	
Site Conditions:Ponded Water: noDays Since Last Rain: 1-5	Fairy Shrimp Visible?
Listed Plants Visible? Absent Listed Plants	5:
New and Ongoing Issues Observed During Visit:	Turney and // Inc. the stine of Lines
Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing	Damage from Edge Effects:
Other issues observed:	Hydrological Impacts:
Management Needs: Weedcontrol,RestReveg,Recont	
Other Management Needs: Additional Management Actions Recommended: Notes: Very bad quality pools.	
Other Management Needs: Additional Management Actions Recommended:	
Other Management Needs: Additional Management Actions Recommended: Notes: Very bad quality pools. Visit Date: 4/8/2019 Start Time: 6:30:00	Fairy Shrimp Visible?
Other Management Needs: Additional Management Actions Recommended: Notes: Very bad quality pools. isit Date: 4/8/2019 Start Time: 6:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plants New and Ongoing Issues Observed During Visit:	Fairy Shrimp Visible?
Other Management Needs: Additional Management Actions Recommended: Notes: Very bad quality pools. isit Date: 4/8/2019 Start Time: 6:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plants New and Ongoing Issues Observed During Visit: Trash: Ongoing	Fairy Shrimp Visible? s: Tresspass/Unauthorized Use: Ongoing
Other Management Needs: Additional Management Actions Recommended: Notes: Very bad quality pools. Visit Date: 4/8/2019 Start Time: 6:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plants New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs:	Fairy Shrimp Visible?
Other Management Needs: Additional Management Actions Recommended: Notes: Very bad quality pools. isit Date: 4/8/2019 Start Time: 6:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plants New and Ongoing Issues Observed During Visit: Trash: Ongoing	Fairy Shrimp Visible? S: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression:
Other Management Needs: Additional Management Actions Recommended: Notes: Very bad quality pools. Visit Date: 4/8/2019 Start Time: 6:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plants New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing	Fairy Shrimp Visible? s: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects:
Other Management Needs: Additional Management Actions Recommended: Notes: Very bad quality pools. isit Date: 4/8/2019 Start Time: 6:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plants New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing	Fairy Shrimp Visible? s: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects:
Other Management Needs: Additional Management Actions Recommended: Notes: Very bad quality pools. Visit Date: 4/8/2019 Start Time: 6:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plants New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing?	Fairy Shrimp Visible? Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: _install,Sign_install,Dump_cleanup,Trash_pickup,Grading_rec
Other Management Needs: Additional Management Actions Recommended: Notes: Very bad quality pools. isit Date: 4/8/2019 Start Time: 6:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plants New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,RestReveg,Fence_	Fairy Shrimp Visible? Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: _install,Sign_install,Dump_cleanup,Trash_pickup,Grading_rec
Other Management Needs: Additional Management Actions Recommended: Notes: Very bad quality pools. Visit Date: 4/8/2019 Start Time: 6:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plants New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,RestReveg,Fence_ ontouring,Regularpatrolsrecom	Fairy Shrimp Visible? S: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: _install,Sign_install,Dump_cleanup,Trash_pickup,Grading_recommended

...

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Visit Date: 5/28/2019 Start Time: 3:30:00	
Surveyors: Jason Allen	
Site Conditions: Ponded Water: no Days Since Last Rain: 1	-5 Fairy Shrimp Visible?
Listed Plants Visible? Absent Listed Pla	<i>,</i> .
New and Ongoing Issues Observed During Visit:	
Trash: Ongoing	Tresspass/Unauthorized Use: Ongoing
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol,RestReveg,Dun ecommended	np_cleanup,Trash_pickup,Grading_recontouring,Regularpatrolsr
Other Management Needs:	
Additional Management Actions Recommended:	Weed whacking, spraying and trash pickup in progress.
Notes: Sal tra sprayed. Lots of old concrete and tra	ash dumps in area.

# Anderprises

## Qualitative Management Monitoring Photos



- Photo taken: 2/26/2019
- Photo description: Upland native and invasive plants growing in vernal pool.
- Photo taken: 2/26/2019
- Photo description: Trash/debris onsite.

## **Anderprises** Qualitative Management Monitoring Photos



- Photo taken: 4/8/2019
- Photo description: Upland native and invasive plants growing in vernal pool.



- Photo taken: 4/8/2019
- Photo description: Trash/debris onsite.

## **Anderprises** Qualitative Management Monitoring Photos



- Photo taken: 5/28/2019
- Photo description: Upland native and invasive plants growing in vernal pool.



- Photo taken: 5/28/2019
- Photo description: Upland native and invasive plants growing in vernal pool removed.

## **Anderprises** Qualitative Management Monitoring Photos



- Photo taken: 5/28/2019
- Photo description: Trash/debris in vernal pools buffer.



- Photo taken: 5/28/2019
- Photo description: Trash/debris in vernal pools buffer removed.

# Anderprises

## **Qualitative Management Monitoring Photos**



- Photo taken: 5/28/2019
- Photo description: Trash and debris picked up and hauled away from vernal pools for disposal. Herbicide was applied to invasive plants in vernal pool buffer zone.

# **Brown Field**

Planning Unit: South Land Owner: City of San Diego Managing Department: READ - Airports VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: No

Year: 2019	
Complex Name: City_Brown_Field_Basins	
Planning Unit: South City or Other? City	Managing Department: READ_Airports
Baseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
ualitative Monitoring Data:	
/isit Date: 1/23/2019 Start Time: 19:30:00	
Surveyors: Cindy Dunn	
Site Conditions:	
Ponded Water: yes Days Since Last Rain: 2	
Listed Plants Visible? Wrong_Tim Listed Pla	ants:
New and Ongoing Issues Observed During Visit: Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
	hly disturbed due to the regular mowing of the airfield.
Are other issues observed is new or ongoing?	
Management Needs:	
Other Management Needs:	
Additional Management Actions Recommended:	These pools may be impacted by the MAP project.
	Management in pending the outcome of the mitigation for MAP.
Notes:	
Visit Date: 3/27/2019 Start Time: 22:30:00	
Visit Date: 3/27/2019 Start Time: 22:30:00 Surveyors: Cindy Dunn	
Surveyors: Cindy Dunn Site Conditions:	
Surveyors: Cindy Dunn <u>Site Conditions:</u> Ponded Water: no Days Since Last Rain: 6	
Surveyors: Cindy Dunn <u>Site Conditions:</u> Ponded Water: no Days Since Last Rain: 6 Listed Plants Visible? Present Listed Pla	
Surveyors: Cindy Dunn <u>Site Conditions:</u> Ponded Water: no Days Since Last Rain: 6	ants:
Surveyors: Cindy Dunn           Site Conditions:           Ponded Water: no         Days Since Last Rain: 6           Listed Plants Visible? Present         Listed Plants Visible?           New and Ongoing Issues Observed During Visit:	ants: Tresspass/Unauthorized Use:
Surveyors: Cindy Dunn           Site Conditions:           Ponded Water: no         Days Since Last Rain: 6           Listed Plants Visible? Present         Listed Plants Visible? Interviewed During Visit:           New and Ongoing Issues Observed During Visit:         Trash:	ants:
Surveyors: Cindy Dunn           Site Conditions:           Ponded Water: no         Days Since Last Rain: 6           Listed Plants Visible? Present         Listed Plants Visible? Instead Plants Visible? Instead Plants Visible? Damage to Fences and/or Signs:	ants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression:
Site Conditions: Ponded Water: no Days Since Last Rain: 6 Listed Plants Visible? Present Listed Plants New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing	ants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
Site Conditions: Ponded Water: no Days Since Last Rain: 6 Listed Plants Visible? Present Listed Plants New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing	ants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: hly disturbed due to the regular mowing of the airfield.
Site Conditions:         Ponded Water: no       Days Since Last Rain: 6         Listed Plants Visible? Present       Listed Plated Plated Plates         New and Ongoing Issues Observed During Visit:       Trash:         Damage to Fences and/or Signs:       Invasive Species in Pool: Ongoing         Invasive Species in Buffer: Ongoing       Other issues observed: These basins are high	ants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: hly disturbed due to the regular mowing of the airfield.
Surveyors: Cindy Dunn           Site Conditions:           Ponded Water: no         Days Since Last Rain: 6           Listed Plants Visible? Present         Listed Pla           New and Ongoing Issues Observed During Visit:         Trash:           Damage to Fences and/or Signs:         Invasive Species in Pool: Ongoing           Invasive Species in Buffer: Ongoing         Other issues observed: These basins are high           Are other issues observed is new or ongoing?         Other issues observed is new or ongoing?	ants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: hly disturbed due to the regular mowing of the airfield.
Surveyors: Cindy Dunn Site Conditions: Ponded Water: no Days Since Last Rain: 6 Listed Plants Visible? Present Listed Pla New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: These basins are high Are other issues observed is new or ongoing? Management Needs: Other Management Needs:	ants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: hly disturbed due to the regular mowing of the airfield. Ongoing These pools may be impacted by the MAP project.
Surveyors: Cindy Dunn           Site Conditions:           Ponded Water: no         Days Since Last Rain: 6           Listed Plants Visible? Present         Listed Pla           New and Ongoing Issues Observed During Visit:         Trash:           Damage to Fences and/or Signs:         Invasive Species in Pool: Ongoing           Invasive Species in Buffer: Ongoing         Other issues observed: These basins are high           Are other issues observed is new or ongoing?         Management Needs:	ants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: hly disturbed due to the regular mowing of the airfield. ? Ongoing

isit Date: 6/5/2019 Start Time: 23:30:00	
urveyors: Cindy Dunn	
Site Conditions:	
Ponded Water: no Days Since Last Rain: 1	L-5 Fairy Shrimp Visible?
Listed Plants Visible? Present Listed Pla	ints:
New and Ongoing Issues Observed During Visit:	
Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed: These basins are high	ly disturbed due to the regular mowing of the airfield.
Are other issues observed is new or ongoing?	Ongoing
Management Needs:	
Other Management Needs:	
Additional Management Actions Recommended:	These pools may be impacted by the MAP project.
-	Management in pending the outcome of the mitigation for MAP
Notes:	

# Cal Terraces North - Otay Mesa Road Parcels

Planning Unit: South Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: Yes

Year: 2019	
Complex Name: City_CalTerracesNorth_OtayMesaRdR	Parcels
Planning Unit: South City or Other? City	Managing Department: Park_Recreation
Baseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
Qualitative Monitoring Data:	
Visit Date: 1/24/2019 Start Time: 16:30:00	
Surveyors: Jason Allen	
Site Conditions:	
Ponded Water: yes Days Since Last Rain: 6-15	Fairy Shrimp Visible? Present
Listed Plants Visible? Present Listed Plants:	
New and Ongoing Issues Observed During Visit: Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs: Ongoing	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	, , , ,
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol,Fencerepair,Add_r recommended	eplace_lock,Add_replace_chain,Trash_pickup,Regularpatrols
Other Management Needs:	
Additional Management Actions Recommended:	
Notes: Weeds near edges and throughout, mustard, ic	e plant, erodium. Trash near edges.
Visit Date: 3/12/2019 Start Time: 17:30:00	
Surveyors: Jason Allen	
Site Conditions:	Fairs Chrimen Visible? Dresent
Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants:	Fairy Shrimp Visible? Present
New and Ongoing Issues Observed During Visit:	
Trash: New	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol,Sign_install,Trash_ replace_chain	pickup,Regularpatrolsrecommended,Add_replace_lock,Add_
Other Management Needs:	
Additional Management Actions Recommended: Wee	ed management soon.
<b>Notes:</b> Jason manually cut mustard on 3/12/19.	

Visit Date:         5/21/2019         Start Time:         2:30:00	
Surveyors: Jason Allen, Sara Allen, Mark Berninger,	Jessie Lane, Diana Brand, Ninfa Negrete
Site Conditions: Ponded Water: no Days Since Last Rain	: 1-5 Fairy Shrimp Visible?
Listed Plants Visible? Present Listed I	
New and Ongoing Issues Observed During Visit: Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoin	g?
Management Needs: Weedcontrol,Trash_picku	
Other Management Needs:	
_	: Continue weed control. Dit Gra seedlings. Mes sp. throughout
-	site.
Notes:	
lanagement Actions Completed:	
Contractor (if applicable)	lication to invasive species
Date: 10/2/2018 Completed by: Jason Allen Contractor (if applicable) Management Actions Completed: Herbicide app Notes/Comments:	lication to invasive species.
Contractor (if applicable) Management Actions Completed: Herbicide app	lication to invasive species.
Contractor (if applicable) Management Actions Completed: Herbicide app Notes/Comments: Date: 11/16/2018 Completed by: Jason Allen, Diar	
Contractor (if applicable) Management Actions Completed: Herbicide app Notes/Comments: Date: 11/16/2018 Completed by: Jason Allen, Diar Contractor (if applicable)	a Brand, Jessie Lane
Contractor (if applicable) Management Actions Completed: Herbicide app Notes/Comments: Date: 11/16/2018 Completed by: Jason Allen, Diar Contractor (if applicable) Management Actions Completed: Trash and deb	a Brand, Jessie Lane
Contractor (if applicable) Management Actions Completed: Herbicide app Notes/Comments: Date: 11/16/2018 Completed by: Jason Allen, Diar Contractor (if applicable)	a Brand, Jessie Lane
Contractor (if applicable) Management Actions Completed: Herbicide app Notes/Comments: Date: 11/16/2018 Completed by: Jason Allen, Diar Contractor (if applicable) Management Actions Completed: Trash and deb	a Brand, Jessie Lane
Contractor (if applicable) Management Actions Completed: Herbicide app Notes/Comments: Date: 11/16/2018 Completed by: Jason Allen, Diar Contractor (if applicable) Management Actions Completed: Trash and deb Notes/Comments:	a Brand, Jessie Lane
Contractor (if applicable) Management Actions Completed: Herbicide app Notes/Comments: Date: 11/16/2018 Completed by: Jason Allen, Diar Contractor (if applicable) Management Actions Completed: Trash and deb Notes/Comments: Date: 3/1/2019 Completed by: Moises Vasquez	a Brand, Jessie Lane oris cleaned up.
Contractor (if applicable) Management Actions Completed: Herbicide app Notes/Comments: Date: 11/16/2018 Completed by: Jason Allen, Diar Contractor (if applicable) Management Actions Completed: Trash and deb Notes/Comments: Date: 3/1/2019 Completed by: Moises Vasquez Contractor (if applicable)	na Brand, Jessie Lane oris cleaned up.
Contractor (if applicable) Management Actions Completed: Herbicide app Notes/Comments: Date: 11/16/2018 Completed by: Jason Allen, Diar Contractor (if applicable) Management Actions Completed: Trash and deb Notes/Comments: Date: 3/1/2019 Completed by: Moises Vasquez Contractor (if applicable) Management Actions Completed: Herbicide app	a Brand, Jessie Lane oris cleaned up.
Contractor (if applicable) Management Actions Completed: Herbicide app Notes/Comments: Date: 11/16/2018 Completed by: Jason Allen, Diar Contractor (if applicable) Management Actions Completed: Trash and deb Notes/Comments: Date: 3/1/2019 Completed by: Moises Vasquez Contractor (if applicable) Management Actions Completed: Herbicide app Notes/Comments:	a Brand, Jessie Lane oris cleaned up.
Contractor (if applicable) Management Actions Completed: Herbicide app Notes/Comments: Date: 11/16/2018 Completed by: Jason Allen, Diar Contractor (if applicable) Management Actions Completed: Trash and deb Notes/Comments: Date: 3/1/2019 Completed by: Moises Vasquez Contractor (if applicable) Management Actions Completed: Herbicide app Notes/Comments:	a Brand, Jessie Lane oris cleaned up.
Contractor (if applicable) Management Actions Completed: Herbicide app Notes/Comments: Date: 11/16/2018 Completed by: Jason Allen, Diar Contractor (if applicable) Management Actions Completed: Trash and deb Notes/Comments: Date: 3/1/2019 Completed by: Moises Vasquez Contractor (if applicable) Management Actions Completed: Herbicide app Notes/Comments: Date: 3/15/2019 Completed by: Jason Allen Contractor (if applicable)	ha Brand, Jessie Lane bris cleaned up.
Contractor (if applicable) Management Actions Completed: Herbicide app Notes/Comments: Date: 11/16/2018 Completed by: Jason Allen, Diar Contractor (if applicable) Management Actions Completed: Trash and deb Notes/Comments: Date: 3/1/2019 Completed by: Moises Vasquez Contractor (if applicable) Management Actions Completed: Herbicide app Notes/Comments:	ha Brand, Jessie Lane bris cleaned up.

Year: 2019 Complex Name: City_CalTerracesNorth_OtayMesaRdParcels
<ul> <li>Date: 3/18/2019 Completed by: Scott Seyfried, Moises Vasquez</li> <li>Contractor (if applicable)</li> <li>Management Actions Completed: Herbicide application to invasive species.</li> <li>Notes/Comments:</li> </ul>
<ul> <li>Date: 3/25/2019 Completed by: Scott Seyfried, Moises Vasquez</li> <li>Contractor (if applicable)</li> <li>Management Actions Completed: Herbicide application to invasive species.</li> <li>Notes/Comments:</li> </ul>
<ul> <li>Date: 5/6/2019 Completed by: Jason Allen, Scott Seyfried, Moises Vasquez</li> <li>Contractor (if applicable)</li> <li>Management Actions Completed: Weed whack invasive species.</li> <li>Notes/Comments:</li> </ul>
<ul> <li>Date: 5/13/2019 Completed by: Jason Allen, Scott Seyfried</li> <li>Contractor (if applicable)</li> <li>Management Actions Completed: Herbicide application to invasive species.</li> <li>Notes/Comments:</li> </ul>
<ul> <li>Date: 5/24/2019 Completed by: Jason Allen, Scott Seyfried, Moises Vasquez</li> <li>Contractor (if applicable)</li> <li>Management Actions Completed: Herbicide application to invasive species. Pickup trash.</li> <li>Notes/Comments:</li> </ul>
<ul> <li>Date: 6/18/2019 Completed by: Jason Allen, Scott Seyfried</li> <li>Contractor (if applicable)</li> <li>Management Actions Completed: Herbicide application to invasive species.</li> <li>Notes/Comments:</li> </ul>
Date: 6/24/2019 Completed by: Jason Allen Contractor (if applicable) Management Actions Completed: Pickup trash. Notes/Comments:

Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Date: 6/28/2019 Completed by: Scott Seyfried, Moises VasquezContractor (if applicable)Management Actions Completed: Herbicide application to invasive species.

Notes/Comments:

### **Qualitative Management Monitoring Photos**



- Photo taken: 9/25/2019
- Photo description: Invasive plants Stinkwort (*Dittrichia graveolens*) present in vernal pools and surrounding buffer.



- Photo taken: 9/25/2019
- Photo description: Herbicide application to invasive plants in vernal pool complex.

## **Qualitative Management Monitoring Photos**



- Photo taken: 10/2/2019
- Photo description: Herbicide application to invasive plants encroaching into vernal pool complex.



- Photo taken: 10/2/2019
- Photo description: After herbicide application to invasive plants encroaching into vernal pool complex.

### **Qualitative Management Monitoring Photos**



- Photo taken: 11/16/2019
- Photo description: Trash/debris onsite.



- Photo taken: 11/16/2019
- Photo description: Interns assisting with trash/debris removal.

### **Qualitative Management Monitoring Photos**



- Photo taken: 3/12/2019
- Photo description: Invasive plants encroaching into vernal pools.



- Photo taken: 3/12/2019
- Photo description: Trash/debris onsite.

### **Qualitative Management Monitoring Photos**



- Photo taken: 5/6/2019
- Photo description: Invasive plants encroaching on native plants being weed whacked.



- Photo taken: 5/13/2019
- Photo description: Invasive plant Crystalline ice plant (*Mesembryanthenum sp.*) present in vernal pool complex.

### **Qualitative Management Monitoring Photos**



- Photo taken: 5/13/2019
- Photo description: Herbicide application to invasive plants in vernal pool complex.



- Photo taken: 5/21/2019
- Photo description: Invasive plant Crystalline ice plant (*Mesembryanthenum sp.*) encroaching on a native barrel cactus.

## **Qualitative Management Monitoring Photos**



- Photo taken: 5/24/2019
- Photo description: Trash/debris onsite and cleaned up.



- Photo taken: 6/27/2019
- Photo description: Invasive plants in vernal pool complex.

#### **Annual VPHCP Covered Plant Monitoring**

Survey Year: 2019		Page 1 of 2	
Complex Name: City_CalTerracesN	orth_OtayMesaRdParcels	VP_ID: 42	
Photopoint X: -117.00909158200	Photopoint Y: 32.56923167240	Photopoint Established: 2018	
2003 Baseline Survey Data			
Baseline Cover of ERAR: 63.0	Baseline Cover of NAFO: 3.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 38.0		
2019 Quantitative Monitoring Data			
Survey Date 5/21/2019	Survey Start Time: 1:06 PM	Survey End Time: 1:35 PM	
Surveyors: Mark Berninger, Diana	Brand Ramirez		
VPHCP Covered Species Present: E	RAR,NAFO		
Cover of ERAR in Basin 1-5%	Cover of NAFO in Basin: <1%	Cover of ORCA in Basin	
Cover of POAB in Basin	Cover of PONU in Basin		
Other Native Species in Pool:			
Species	Name	Cover	
Callitriche marginata - Ca	lifornia water starwort	1-5%	
Deinandra fasciculata - clustered tarweed		1-5%	
Deschampsia danthonioides - annual hairgrass		<1%	
Eleocharis macrostachya - common spikerush		<1%	
Epilobium campestre		<1%	
Myosurus minimus		<1%	
Psilocarphus brevissir	nus - woolly marble	1-5%	

#### **Nonnative Species in Pool**

Species Name	Cover
Dittrichia graveolens	<1%
Lythrum hyssopifolia - hyssop loosestrife	<1%

Ponded Water Present? no

Cover of Nonnative Species in Basin: <1%</th>Nonnative Species Richness in Basin: 2Bare Ground Cover in Basin 50-75%Cover of Rocks/Cobble in Basin: 10-25%Cover of Litter in Basin: 1-5%

Days Since Last Rain 1-5

Dead Species Present in Pool: None

#### **Annual VPHCP Covered Plant Monitoring**

Survey Year: 2019	Page 2 of 2
Complex Name: City_CalTerracesNorth_OtayMesaRdParcels	VP_ID: 42
2019 Quantitative Monitoring Data continued	
Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)	

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bloomeria crocea - common goldenstar
Bromus madritensis - compact brome
Camissoniopsis bistorta - southern suncup
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Deschampsia danthonioides - annual hairgrass
Dichelostemma capitatum - bluedicks
Dittrichia graveolens - Stinkwort
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Logfia gallica - narrowleaf cottonrose
Navarretia hamata - hooked pincushionplant
Plagiobothrys acanthocarpus - adobe popcornflower
Psilocarphus brevissimus - woolly marble
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Stipa lepida - foothill needlegrass
Zeltnera venusta - charming centaury

Notes/Comments: None

Annual Covered Plant Monitoring Photo Vernal Pool ID: 42



Photo taken: 5/21/2019 Photo location is -117.00909158200, 32.56923167240 NAD83 State Plane California Zone 6 (feet)

#### **Annual VPHCP Covered Plant Monitoring**

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesN	orth_OtayMesaRdParcels	VP_ID: 51
Photopoint X: -117.00956761900	Photopoint Y: 32.56892326770	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 38.0	Baseline Cover of NAFO: 1.0	Baseline Cover of ORCA: 1.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 38.0	
2019 Quantitative Monitoring Data		
Survey Date 5/21/2019	Survey Start Time: 1:44 PM	Survey End Time: 2:12 PM
Surveyors: Mark Berninger, Diana	Brand Ramirez	
VPHCP Covered Species Present: E	RAR,POAB,NAFO	
Cover of ERAR in Basin ${<}1\%$	Cover of NAFO in Basin: <1%	Cover of ORCA in Basin
Cover of POAB in Basin 1-5%	Cover of PONU in Basin	
Other Native Species in Pool:		
Species Name		Cover
Baccharis sarothroides - desertbroom		
	des - desertbroom	<1%
Callitriche marginata - Ca		<1% <1%
	lifornia water starwort	
Callitriche marginata - Ca	llifornia water starwort era - coastal cholla	<1%
Callitriche marginata - Ca Cylindropuntia prolif	ilifornia water starwort era - coastal cholla - clustered tarweed	<1% <1%
Callitriche marginata - Ca Cylindropuntia prolif Deinandra fasciculata	llifornia water starwort era - coastal cholla - clustered tarweed ides - annual hairgrass	<1% <1% 1-5%
Callitriche marginata - Ca Cylindropuntia prolif Deinandra fasciculata Deschampsia danthonio	llifornia water starwort Fera - coastal cholla - clustered tarweed ides - annual hairgrass campestre	<1% <1% 1-5% <1%
Callitriche marginata - Ca Cylindropuntia prolif Deinandra fasciculata Deschampsia danthonio Epilobium c	llifornia water starwort era - coastal cholla - clustered tarweed ides - annual hairgrass campestre - little mouse tail	<1% <1% 1-5% <1% 10-25%

#### **Nonnative Species in Pool**

Species Name	Cover
Dittrichia graveolens	1-5%
Lythrum hyssopifolia - hyssop loosestrife	<1%
Polypogon monspeliensis - annual rabbitsfoot grass	<1%

Cover of Nonnative Species in Basin: 1-5% Nonnative Species Richness in Basin: 3

Bare Ground Cover in Basin 25-50% Cover of Rocks/Cobble in Basin: 5-10% Cove

Days Since Last Rain 1-5

Dead Species Present in Pool: None

Ponded Water Present? no

Cover of Litter in Basin: <1%

Page 29

#### **Annual VPHCP Covered Plant Monitoring**

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 51

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Baccharis sarothroides - desertbroom
Bahiopsis laciniata - torhleaf goldeneye
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Chenopodium murale - nettleleaf goosefoot
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Deschampsia danthonioides - annual hairgrass
Dittrichia graveolens - Stinkwort
Encelia californica - California brittlebush
Epilobium campestre - Smooth boisduvalia
Eriogonum fasciculatum - Eastern Mojave buckwheat
Euphorbia misera - Cliff spurge
Festuca myuros - rattail sixweeks grass
Glebionis coronaria - crown daisy
Juncus bufonius - toad rush
Lamarckia aurea - goldentop grass
Logfia gallica - narrowleaf cottonrose
Lysimachia arvensis - scarlet pimpernel
Myosurus minimus - little mouse tail
Navarretia fossalis - Spreading navarretia
Navarretia hamata - hooked pincushionplant
Peritoma arborea - bladderpod spiderflower
Phalaris minor - littleseed canarygrass
Pogogyne nudiuscula - Otay mesa mint
Pseudognaphalium beneolens - cudweed
Pseudognaphalium californicum - ladies' tobacco
Psilocarphus tenellus - short woollyheads
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Zeltnera venusta - charming centaury

Notes/Comments: None

Annual Covered Plant Monitoring Photo Vernal Pool ID: 51



Photo taken: 5/21/2019 Photo location is -117.00956761900, 32.56892326770 NAD83 State Plane California Zone 6 (feet)

#### **Annual VPHCP Covered Plant Monitoring**

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerrace	sNorth_OtayMesaRdParcels	VP_ID: 67
Photopoint X: -117.00739243600	Photopoint Y: 32.57577115110	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 3.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 63.0	
2019 Quantitative Monitoring Da	ta	
Survey Date 5/22/2019	Survey Start Time: 2:08 PM	Survey End Time:
Surveyors: Mark Berninger, Diar	na Brand Ramirez	
VPHCP Covered Species Present	ERAR,PONU	
Cover of ERAR in Basin 1-5%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin <1%	
Other Native Species in Pool:		
Species Name		Cover
Artemisia californica - coastal sagebrush		<1%
Baccharis sarothroides - desertbroom		<1%
Cylindropuntia pro	olifera - coastal cholla	<1%
Deinandra fasciculata - clustered tarweed		1-5%
Deschampsia danthonioides - annual hairgrass		<1%
Juncus bufo	nius - toad rush	<1%
Navarretia hamata -	Navarretia hamata - hooked pincushionplant	
Psilocarphus brevissimus - woolly marble		1-5%

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus madritensis - compact brome	<1%
Centaurea melitensis - Maltese star-thistle	<1%
Festuca myuros - rattail sixweeks grass	5-10%
Gastridium phleoides - nit grass	<1%
Lysimachia arvensis - scarlet pimpernel	1-5%

Cover of Nonnative Species in Basin: 10-25% Nonnative Species Richness in Basin: 5

Bare Ground Cover in Basin 25-50% Cover of Rocks/Cobble in Basin: 25-50% Cover of Litter in Basin: <1%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

#### **Annual VPHCP Covered Plant Monitoring**

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 67

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name         Amaranthus albus - tumbleweed         Antirrhinum nuttallianum - Nuttall's snapdragon         Artemisia californica - coastal sagebrush         Baccharis sarothroides - desertbroom         Brassica nigra - black mustard         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Crassula connata - sand pygmyweed         Cylindropuntia prolifera - coastal cholla         Daucus pusillus - American wild carrot
Antirrhinum nuttallianum - Nuttall's snapdragon Artemisia californica - coastal sagebrush Baccharis sarothroides - desertbroom Brassica nigra - black mustard Bromus hordeaceus - soft brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Daucus pusillus - American wild carrot
Artemisia californica - coastal sagebrush Baccharis sarothroides - desertbroom Brassica nigra - black mustard Bromus hordeaceus - soft brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Daucus pusillus - American wild carrot
Baccharis sarothroides - desertbroom Brassica nigra - black mustard Bromus hordeaceus - soft brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Daucus pusillus - American wild carrot
Brassica nigra - black mustard Bromus hordeaceus - soft brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Daucus pusillus - American wild carrot
Bromus hordeaceus - soft brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Daucus pusillus - American wild carrot
Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Daucus pusillus - American wild carrot
Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Daucus pusillus - American wild carrot
Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Daucus pusillus - American wild carrot
Cylindropuntia prolifera - coastal cholla Daucus pusillus - American wild carrot
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Dichelostemma capitatum - bluedicks
Eriogonum fasciculatum - Eastern Mojave buckwheat
Eryngium aristulatum var. parishii - San Diego button celery
Euphorbia misera - Cliff spurge
Festuca perennis - Italian rye grass
Gastridium phleoides - nit grass
Hainardia cylindrica - Thin tail
Hypochaeris glabra - smooth cat's ear
Lactuca serriola - prickly lettuce
Lamarckia aurea - goldentop grass
Logfia gallica - narrowleaf cottonrose
Lysimachia arvensis - scarlet pimpernel
Mirabilis laevis - desert wishbone bush
Muhlenbergia microsperma - littleseed muhly
Navarretia hamata - hooked pincushionplant
Phalaris minor - littleseed canarygrass
Pholistoma racemosum - San diego fiesta flower
Plagiobothrys acanthocarpus - adobe popcornflower
Pogogyne nudiuscula - Otay mesa mint
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Stephanomeria diegensis - San Diego milk aster
Stipa lepida - foothill needlegrass
Zeltnera venusta - charming centaury

Notes/Comments: None

Annual Covered Plant Monitoring Photo Vernal Pool ID: 67



Photo taken: 5/22/2019 Photo location is -117.00739243600, 32.57577115110 NAD83 State Plane California Zone 6 (feet)

#### **Annual VPHCP Covered Plant Monitoring**

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesN	orth_OtayMesaRdParcels	VP_ID: 78
Photopoint X: -117.00771936200	Photopoint Y: 32.57534329240	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 38.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 1.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 16.0	
2019 Quantitative Monitoring Data		
Survey Date 5/22/2019	Survey Start Time: 3:07 PM	Survey End Time: 3:41 PM
Surveyors: Mark Berninger, Diana	Brand Ramirez	
VPHCP Covered Species Present: F	PONU,ERAR	
Cover of ERAR in Basin 1-5%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin 10-2	5%
Other Native Species in Pool:		
Species	Name	Cover
Crassula aquatica - A	quatic pygmy weed	<1%
Deinandra fasciculata - clustered tarweed		10-25%
Deschampsia danthonioides - annual hairgrass		<1%
Eleocharis macrostachya - common spikerush		1-5%
Epilobium campestre		<1%
Juncus bufoniu	us - toad rush	<1%
Marsilea	vestita	<1%
Psilocarphus brevissimus - woolly marble		1-5%

#### **Nonnative Species in Pool**

Species Name	Cover
Beta vulgaris	1-5%
Carduus pycnocephalus - Italian plumeless thistle	<1%
Centaurea melitensis - Maltese star-thistle	<1%
Phalaris aquatica - harding Grass	<1%
Phalaris minor - littleseed canarygrass	<1%
Rumex crispus - curly dock	<1%
Sonchus asper - spiny sowthistle	1-5%

Cover of Nonnative Species in Basin: 5-10% Nonnative Species Richness in Basin: 7

Bare Ground Cover in Basin 25-50% Cover of Rocks/Cobble in Basin: 10-25%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

**Cover of Litter in Basin:** 1-5%
Survey Year: 2019	Page 2 of 2
Complex Name: City_CalTerracesNorth_OtayMesaRdParcels	VP_ID: 78
2019 Quantitative Monitoring Data continued	
Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)	
Species Name	
Ambrosia chenopodiifolia - San Diego bur ragweed	
Amsinckia intermedia - common fiddleneck	

Amsinckia intermedia - common fiddleneck         Artemisia californica - coastal sagebrush         Bahiopsis laciniata - torhleaf goldeneye         Brachypodium distachyon - purple false brome         Brascia nigra - black mustard         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Cylindropuntia californica - Coastal cholla         Cylindropuntia californica - California cholla         Cylindropuntia prolifera - coastal cholla         Deinandra fasciculata - clustered tarweed         Errogonum fasciculatur - Eastern Mojave buckwheat         Errogonum fasciculatur - Eastern Mojave buckwheat         Errogonum fasciculatur - artial sixweeks grass         Logfia gallica - narrowleaf cottonrose         Mesembryanthemum nodiflorum - slender leaved ice plant         Navarretia hamata - hooked pincushionplant         Pogogyne nudiuscula - Otay mesa mint         Pogogyne nudiuscula - Jotay mesa mint         Pogogyne nudiuscula - Jotay mesa mint         Posilocarphus tenellus - short woollyheads         Rhus integrifolia - lemonade berry         Rosa minutifolia - small-leaved rose         Simmondisa chinensis - jojoba         Stipa lepida - foorthil needlegrass	Ambrosia chenopodiifolia - San Diego bur ragweed
Bahiopsis laciniata - torhleaf goldeneye         Brachypodium distachyon - purple false brome         Brassica nigra - black mustard         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Crassula connata - sand pygmyweed         Cylindropuntia californica - California cholla         Cylindropuntia prolifera - coastal cholla         Deinandra fasciculata - clustered tarweed         Encelia californica - California brittlebush         Eriogonum fasciculatum - Eastern Mojave buckwheat         Eryngium aristulatum var. parishii - San Diego button celery         Ferocactus viridescens - Sant Biogo barrel cactus         Festuca myuros - rattail sixweeks grass         Logfia gallica - narrowleaf cottonrose         Mesembryanthemum nodiflorum - slender leaved ice plant         Navarretia hamata - hooked pincushionplant         Pogogyne nudiuscula - Otay meas mint         Psilocarphus tenellus - short woollyheads         Rhus integrifolia - lemonade berry         Rosa minutifolia - small-leaved rose         Simmondsia chinensis - jojoba	Amsinckia intermedia - common fiddleneck
Brachypodium distachyon - purple false brome Brassica nigra - black mustard Bromus hordeaceus - soft brome Bromus madritensis - compact brome Crassula connata - sand pygmyweed Cylindropuntia californica - California cholla Cylindropuntia prolifera - coastal cholla Deinandra fasciculata - clustered tarweed Ericgonum fasciculatum - Eastern Mojave buckwheat Eriogonum fasciculatum - Eastern Mojave buckwheat Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Logfia gallica - narrowleaf cottonrose Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Navarretia hamata - hooked pincushinplant Pogogyne nudiuscula - Otay mesa mint Psilocarphus tenellus - short woollyheads Rhus integrifolia - lemonade berry Rosa minutifolia - small-leaved rose Simmondsia chinensis - jojoba	Artemisia californica - coastal sagebrush
Brassica nigra - black mustard         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Crassula connata - sand pygmyweed         Cylindropuntia californica - California cholla         Cylindropuntia rolifera - coastal cholla         Deinandra fasciculata - clustered tarweed         Eriogonum fasciculatum - California brittlebush         Eriogonum fasciculatum var. parishii - San Diego button celery         Ferocactus viridescens - San Diego barrel cactus         Festuca myuros - rattail sixweeks grass         Logfia gallica - narrowleaf cottonrose         Mesembryanthemum nodiflorum - slender leaved ice plant         Navarretia hamata - hooked pincushionplant         Pogogyne nudiuscula - Otay mesa mint         Psilocarphus tenellus - short woollyheads         Rhus integrifolia - lemonade berry         Rosa minutifolia - small-leaved rose         Simmondsia chinensis - jojoba	Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Crassula connata - sand pygmyweed         Cylindropuntia californica - California cholla         Cylindropuntia prolifera - coastal cholla         Deinandra fasciculata - clustered tarweed         Encelia californica - California brittlebush         Eriogonum fasciculatur - Eastern Mojave buckwheat         Eryngium aristulatum var. parishii - San Diego button celery         Ferocactus viridescens - San Diego barrel cactus         Ferocactus viridescens - San Diego barrel cactus         Logfia gallica - narrowleaf cottonrose         Mesembryanthemum nodiflorum - slender leaved ice plant         Navarretia hamata - hooked pincushionplant         Pogogyne nudiuscula - Otay mesa mint         Psilocarphus tenellus - short woollyheads         Rhus integrifolia - lemonade berry         Rosa minutifolia - small-leaved rose         Simmondsia chinensis - jojoba	Brachypodium distachyon - purple false brome
Bromus madritensis - compact brome Crassula connata - sand pygmyweed Cylindropuntia californica - California cholla Cylindropuntia prolifera - coastal cholla Deinandra fasciculata - clustered tarweed Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Logfia gallica - narrowleaf cottonrose Mesembryanthemum crystallinum - comon iceplant Navarretia hamata - hooked pincushionplant Pogogyne nudiuscula - Otay mesa mint Psilocarphus tenellus - short woollyheads Rhus integrifolia - lemonade berry Rosa minutifolia - small-leaved rose Simmondsia chinensis - jojoba	Brassica nigra - black mustard
Crassula connata - sand pygmyweed Cylindropuntia californica - California cholla Cylindropuntia prolifera - coastal cholla Deinandra fasciculata - clustered tarweed Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Logfia gallica - narrowleaf cottonrose Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Navarretia hamata - hooked pincushionplant Pogogyne nudiuscula - Otay mesa mint Psilocarphus tenellus - short woollyheads Rhus integrifolia - lemonade berry Rosa minutifolia - small-leaved rose Simmondsia chinensis - jojoba	Bromus hordeaceus - soft brome
Cylindropuntia californica - California cholla Cylindropuntia prolifera - coastal cholla Deinandra fasciculata - clustered tarweed Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Logfia gallica - narrowleaf cottonrose Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Navarretia hamata - hooked pincushionplant Pogogyne nudiuscula - Otay mesa mint Psilocarphus tenellus - short woollyheads Rhus integrifolia - lemonade berry Rosa minutifolia - small-leaved rose Simmondsia chinensis - jojoba	Bromus madritensis - compact brome
Cylindropuntia prolifera - coastal chollaDeinandra fasciculata - clustered tarweedEncelia californica - California brittlebushEriogonum fasciculatum - Eastern Mojave buckwheatEryngium aristulatum var. parishii - San Diego button celeryFerocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassLogfia gallica - narrowleaf cottonroseMesembryanthemum nodiflorum - slender leaved ice plantNavarretia hamata - hooked pincushionplantPogogyne nudiuscula - Otay mesa mintPsilocarphus tenellus - short woollyheadsRhus integrifolia - lemonade berryRosa minutifolia - small-leaved roseSimmondsia chinensis - jojobaStipa lepida - foothill needlegrass	Crassula connata - sand pygmyweed
Deinandra fasciculata - clustered tarweedEncelia californica - California brittlebushEriogonum fasciculatum - Eastern Mojave buckwheatEryngium aristulatum var. parishii - San Diego button celeryFerocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassLogfia gallica - narrowleaf cottonroseMesembryanthemum nodiflorum - slender leaved ice plantNavarretia hamata - hooked pincushionplantPogogyne nudiuscula - Otay mesa mintPsilocarphus tenellus - short woollyheadsRhus integrifolia - lemonade berryRosa minutifolia - small-leaved roseSimmondsia chinensis - jojobaStipa lepida - foothill needlegrass	Cylindropuntia californica - California cholla
Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Logfia gallica - narrowleaf cottonrose Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Navarretia hamata - hooked pincushionplant Pogogyne nudiuscula - Otay mesa mint Psilocarphus tenellus - short woollyheads Rhus integrifolia - lemonade berry Rosa minutifolia - small-leaved rose Simmondsia chinensis - jojoba	Cylindropuntia prolifera - coastal cholla
Eriogonum fasciculatum - Eastern Mojave buckwheat Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Logfia gallica - narrowleaf cottonrose Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Navarretia hamata - hooked pincushionplant Pogogyne nudiuscula - Otay mesa mint Psilocarphus tenellus - short woollyheads Rhus integrifolia - lemonade berry Rosa minutifolia - small-leaved rose Simmondsia chinensis - jojoba Stipa lepida - foothill needlegrass	Deinandra fasciculata - clustered tarweed
Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Logfia gallica - narrowleaf cottonrose Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Navarretia hamata - hooked pincushionplant Pogogyne nudiuscula - Otay mesa mint Psilocarphus tenellus - short woollyheads Rhus integrifolia - lemonade berry Rosa minutifolia - small-leaved rose Simmondsia chinensis - jojoba	Encelia californica - California brittlebush
Ferocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassLogfia gallica - narrowleaf cottonroseMesembryanthemum crystallinum - common iceplantMesembryanthemum nodiflorum - slender leaved ice plantNavarretia hamata - hooked pincushionplantPogogyne nudiuscula - Otay mesa mintPsilocarphus tenellus - short woollyheadsRhus integrifolia - lemonade berryRosa minutifolia - small-leaved roseSimmondsia chinensis - jojobaStipa lepida - foothill needlegrass	Eriogonum fasciculatum - Eastern Mojave buckwheat
Festuca myuros - rattail sixweeks grassLogfia gallica - narrowleaf cottonroseMesembryanthemum crystallinum - common iceplantMesembryanthemum nodiflorum - slender leaved ice plantNavarretia hamata - hooked pincushionplantPogogyne nudiuscula - Otay mesa mintPsilocarphus tenellus - short woollyheadsRhus integrifolia - lemonade berryRosa minutifolia - small-leaved roseSimmondsia chinensis - jojobaStipa lepida - foothill needlegrass	Eryngium aristulatum var. parishii - San Diego button celery
Logfia gallica - narrowleaf cottonrose Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Navarretia hamata - hooked pincushionplant Pogogyne nudiuscula - Otay mesa mint Psilocarphus tenellus - short woollyheads Rhus integrifolia - lemonade berry Rosa minutifolia - small-leaved rose Simmondsia chinensis - jojoba Stipa lepida - foothill needlegrass	Ferocactus viridescens - San Diego barrel cactus
Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Navarretia hamata - hooked pincushionplant Pogogyne nudiuscula - Otay mesa mint Posilocarphus tenellus - short woollyheads Rhus integrifolia - lemonade berry Rosa minutifolia - small-leaved rose Simmondsia chinensis - jojoba Stipa lepida - foothill needlegrass	Festuca myuros - rattail sixweeks grass
Mesembryanthemum nodiflorum - slender leaved ice plant Navarretia hamata - hooked pincushionplant Pogogyne nudiuscula - Otay mesa mint Psilocarphus tenellus - short woollyheads Rhus integrifolia - lemonade berry Rosa minutifolia - small-leaved rose Simmondsia chinensis - jojoba Stipa lepida - foothill needlegrass	Logfia gallica - narrowleaf cottonrose
Navarretia hamata - hooked pincushionplant Pogogyne nudiuscula - Otay mesa mint Psilocarphus tenellus - short woollyheads Rhus integrifolia - lemonade berry Rosa minutifolia - small-leaved rose Simmondsia chinensis - jojoba Stipa lepida - foothill needlegrass	Mesembryanthemum crystallinum - common iceplant
Pogogyne nudiuscula - Otay mesa mint Psilocarphus tenellus - short woollyheads Rhus integrifolia - lemonade berry Rosa minutifolia - small-leaved rose Simmondsia chinensis - jojoba Stipa lepida - foothill needlegrass	Mesembryanthemum nodiflorum - slender leaved ice plant
Psilocarphus tenellus - short woollyheads Rhus integrifolia - lemonade berry Rosa minutifolia - small-leaved rose Simmondsia chinensis - jojoba Stipa lepida - foothill needlegrass	Navarretia hamata - hooked pincushionplant
Rhus integrifolia - lemonade berry Rosa minutifolia - small-leaved rose Simmondsia chinensis - jojoba Stipa lepida - foothill needlegrass	Pogogyne nudiuscula - Otay mesa mint
Rosa minutifolia - small-leaved rose Simmondsia chinensis - jojoba Stipa lepida - foothill needlegrass	Psilocarphus tenellus - short woollyheads
Simmondsia chinensis - jojoba Stipa lepida - foothill needlegrass	Rhus integrifolia - lemonade berry
Stipa lepida - foothill needlegrass	Rosa minutifolia - small-leaved rose
	Simmondsia chinensis - jojoba
Zeltnera venusta - charming centaury	Stipa lepida - foothill needlegrass
	Zeltnera venusta - charming centaury



Photo taken: 5/22/2019 Photo location is -117.00771936200, 32.57534329240 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesNo	orth_OtayMesaRdParcels	VP_ID: 89
Photopoint X: -117.00866986300	Photopoint Y: 32.57526712800	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 16.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 63.0	
2019 Quantitative Monitoring Data		
Survey Date 5/22/2019	Survey Start Time: 2:06 PM	Survey End Time: 2:46 PM
Surveyors: Jason Allen, Jessie Lane		
VPHCP Covered Species Present: El	RAR,PONU	
Cover of ERAR in Basin 1-5%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin 1-5%	
Other Native Species in Pool:		
Species I	Name	Cover
Artemisia californica -	coastal sagebrush	<1%
Crassula connata - s	and pygmyweed	<1%
Cylindropuntia prolife	era - coastal cholla	<1%
Deinandra fasciculata	<ul> <li>clustered tarweed</li> </ul>	25-50%
Deschampsia danthonioi	des - annual hairgrass	<1%
Erigeron canadensis -		<1%
Eriogonum fasciculatum - Ea	-	<1%
Lepidium nitidum - sh		<1%
Myosurus minimus		<1%
Navarretia hamata - hoo		1-5%
Plantago elongata - an		<1%
Psilocarphus brevissin	-	10-25%
Selaginella cinerascen	s - mesa spikemoss	<1%
Cover of Other Native Species in Ba	sin 50-75% Native Species Richn	ess in Basin: 15
Nonnative Species in Pool		
Species	Name	Cover

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Bromus madritensis - compact brome	1-5%
Festuca myuros - rattail sixweeks grass	5-10%
Lactuca serriola - prickly lettuce	<1%
Logfia gallica - narrowleaf cottonrose	<1%
Lysimachia arvensis - scarlet pimpernel	<1%
Mesembryanthemum nodiflorum - slender leaved ice plant	<1%
Sonchus asper - spiny sowthistle	<1%

**Cover of Nonnative Species in Basin:** 10-25%

Nonnative Species Richness in Basin: 8

Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: 25-50%

Ponded Water Present? no

**Cover of Litter in Basin:** 1-5%

Days Since Last Rain 1-5

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 89

## 2019 Quantitative Monitoring Data continued

## Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Cracies Nama	
Species Name	
Ambrosia chenopodiifolia - San Diego bur ragweed	
Amsinckia intermedia - common fiddleneck	
Artemisia californica - coastal sagebrush	
Avena barbata - slender oat	
Bahiopsis laciniata - torhleaf goldeneye	
Beta vulgaris - beet	
Bromus hordeaceus - soft brome	
Bromus madritensis - compact brome	
Centaurea melitensis - Maltese star-thistle	
Crassula connata - sand pygmyweed	
Cryptantha sp cryptantha	
Cylindropuntia prolifera - coastal cholla	
Deinandra fasciculata - clustered tarweed	
Dudleya pulverulenta - chalk dudleya	
Erigeron canadensis - Canada horseweed	
Eriogonum fasciculatum - Eastern Mojave buckwheat	
Eryngium aristulatum var. parishii - San Diego button celery	
Festuca myuros - rattail sixweeks grass	
Festuca perennis - Italian rye grass	
Lamarckia aurea - goldentop grass	
Lysimachia arvensis - scarlet pimpernel	
Mesembryanthemum crystallinum - common iceplant	
Mesembryanthemum nodiflorum - slender leaved ice plant	
Psilocarphus brevissimus - woolly marble	
Salsola tragus - prickly Russian thistle	
Schismus barbatus - common Mediterranean grass	
Selaginella cinerascens - mesa spikemoss	
Simmondsia chinensis - jojoba	
Sonchus asper - spiny sowthistle	
Sonchus oleraceus - common sowthistle	
Stephanomeria diegensis - San Diego milk aster	
Stipa lepida - foothill needlegrass	



Photo taken: 5/22/2019 Photo location is -117.00866986300, 32.57526712800 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesNo	orth_OtayMesaRdParcels	<b>VP_ID:</b> 96
Photopoint X: -117.00829554900	Photopoint Y: 32.57519091080	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 63.0	Baseline Cover of NAFO: 1.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 3.0	
2019 Quantitative Monitoring Data		
Survey Date 5/22/2019	Survey Start Time: 2:48 PM	Survey End Time: 3:19 PM
Surveyors: Jason Allen, Jessie Lane		
VPHCP Covered Species Present: E	RAR	
Cover of ERAR in Basin 25-50%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Species	Name	Cover
Callitriche marginata - Ca	lifornia water starwort	<1%
Deinandra fasciculata	- clustered tarweed	1-5%
Deschampsia danthonioi	des - annual hairgrass	<1%
Eleocharis montevider	sis - sand spikerush	5-10%
Juncus bufoniu	s - toad rush	<1%
Myosurus minimus	- little mouse tail	<1%
Navarretia hamata - hoo	oked pincushionplant	<1%
Psilocarphus brevissin	nus - woolly marble	5-10%

**Cover of Other Native Species in Basin** 10-25% Native Species Richness in Basin: 9

#### **Nonnative Species in Pool**

Species Name	Cover
Sonchus asper - spiny sowthistle	<1%

**Cover of Nonnative Species in Basin:** <1% Nonnative Species Richness in Basin: 1

Bare Ground Cover in Basin 25-50% Cover of Rocks/Cobble in Basin: 25-50% **Cover of Litter in Basin:** 1-5% Ponded Water Present? no

Days Since Last Rain 1-5

Dead Species Present in Pool: Baccharis sarothroides

Survey Year: 2019	Page 2 of 2
Complex Name: City_CalTerracesNorth_OtayMesaRdParcels	VP_ID: 96
2019 Quantitative Monitoring Data continued	
Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)	
Species Name	
Ambrosia chenopodiifolia - San Diego bur ragweed	
Artemisia californica - coastal sagebrush	
Brachypodium distachyon - purple false brome	
Bromus hordeaceus - soft brome	
Bromus madritensis - compact brome	
Centaurea melitensis - Maltese star-thistle	
Crassula connata - sand pygmyweed	
Cryptantha sp cryptantha	
Cylindropuntia prolifera - coastal cholla	
Distichlis spicata - saltgrass	
Eriogonum fasciculatum - Eastern Mojave buckwheat	

Festuca myuros - rattail sixweeks grass Festuca perennis - Italian rye grass Lepidium nitidum - shining pepperweed Mesembryanthemum crystallinum - common iceplant Navarretia hamata - hooked pincushionplant Rosa minutifolia - small-leaved rose Simmondsia chinensis - jojoba Sonchus asper - spiny sowthistle Stipa lepida - foothill needlegrass Zeltnera venusta - charming centaury



Photo taken: 5/22/2019 Photo location is -117.00829554900, 32.57519091080 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesNo	orth_OtayMesaRdParcels	VP_ID: 100
Photopoint X: -117.00758533500	Photopoint Y: 32.57511068150	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 80.0	Baseline Cover of NAFO: 3.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 16.0	
2019 Quantitative Monitoring Data		
Survey Date 5/22/2019	Survey Start Time: 2:09 PM	Survey End Time: 2:47 PM
Surveyors: Sara Allen		
VPHCP Covered Species Present: El	RAR,PONU	
Cover of ERAR in Basin 10-25%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin <1%	
<b>Other Native Species in Pool:</b>		
Species	Name	Cover
Callitriche marginata - Ca	lifornia water starwort	<1%
Deinandra fasciculata	- clustered tarweed	10-25%
Deschampsia danthonioides - annual hairgrass		<1%
Eleocharis macrostachya	a - common spikerush	<1%
Epilobium c	-	<1%
Juncus bufoniu		<1%
Navarretia hamata - hoo		<1%
Psilocarphus brevissin	nus - woolly marble	10-25%

Cover of Other Native Species in Basin 10-25% Native Species Richness in Basin: 9

#### Nonnative Species in Pool

Species Name	Cover
Brassica nigra - black mustard	<1%
Centaurea melitensis - Maltese star-thistle	<1%
Dittrichia graveolens	<1%
Festuca myuros - rattail sixweeks grass	1-5%
Sonchus asper - spiny sowthistle	<1%

Nonnative Species Richness in Basin: 5

Cover of Nonnative Species in Basin: 1-5%

Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: 10-25% Cover of Litter in Basin: 1-5%

Days Since Last Rain 1-5

Ponded Water Present? no

**Dead Species Present in Pool:** Baccharis sarothroides

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 100

#### 2019 Quantitative Monitoring Data continued

## Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cryptantha intermedia - Common cryptantha
Cryptantha sp cryptantha
Cylindropuntia prolifera - coastal cholla
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Isocoma menziesii - Menzies' goldenbush
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Mesembryanthemum crystallinum - common iceplant
Mesembryanthemum nodiflorum - slender leaved ice plant
Navarretia hamata - hooked pincushionplant
Opuntia littoralis - coastal pricklypear
Phacelia cicutaria - caterpillar phacelia
Psilocarphus brevissimus - woolly marble
Schismus barbatus - common Mediterranean grass
Simmondsia chinensis - jojoba
Yucca schidigera - Mojave yucca

**Notes/Comments:** Southern pacific rattlesnake in pool. California gnatcatcher calling within buffer.



Photo taken: 5/22/2019 Photo location is -117.00758533500, 32.57511068150 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesNo	rth_OtayMesaRdParcels	VP_ID: 295
Photopoint X: -117.00744618500	Photopoint Y: 32.57449253160	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 38.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 16.0	
2019 Quantitative Monitoring Data		
Survey Date 5/22/2019	Survey Start Time: 2:58 PM	Survey End Time: 3:27 PM
Surveyors: Sara Allen		
VPHCP Covered Species Present: ER	AR	
Cover of ERAR in Basin 10-25%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Species N	ame	Cover
Callitriche marginata - Cali	fornia water starwort	<1%
Deinandra fasciculata -	clustered tarweed	5-10%
Eleocharis macrostachya	- common spikerush	<1%
Epilobium ca	mpestre	<1%
Myosurus minimus -	little mouse tail	<1%
Psilocarphus brevissim	us - woolly marble	5-10%

Cover of Other Native Species in Basin 10-25% Native Species Richness in Basin: 7

#### **Nonnative Species in Pool**

Species Name	Cover
Centaurea melitensis - Maltese star-thistle	<1%
Festuca myuros - rattail sixweeks grass	<1%
Lythrum hyssopifolia - hyssop loosestrife	<1%
Sonchus asper - spiny sowthistle	<1%

Cover of Nonnative Species in Basin: <1% Nonnative Species Richness in Basin: 4

Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: 25-50% Cover of Litter in Basin: <1%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: Baccharis sarothroides

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 295

## 2019 Quantitative Monitoring Data continued

## Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name	
Ambrosia chenopodiifolia - San Diego bur ragweed	
Artemisia californica - coastal sagebrush	
Bahiopsis laciniata - torhleaf goldeneye	
Beta vulgaris - beet	
Brassica nigra - black mustard	
Bromus madritensis - compact brome	
Camissoniopsis bistorta - southern suncup	
Centaurea melitensis - Maltese star-thistle	
Crassula connata - sand pygmyweed	
Cryptantha sp cryptantha	
Cylindropuntia prolifera - coastal cholla	
Deinandra fasciculata - clustered tarweed	
Encelia californica - California brittlebush	
Eriogonum fasciculatum - Eastern Mojave buckwheat	
Erodium botrys - longbeak stork's bill	
Erodium cicutarium - redstem stork's bill	
Eryngium aristulatum var. parishii - San Diego button celery	
Ferocactus viridescens - San Diego barrel cactus	
Festuca myuros - rattail sixweeks grass	
Festuca perennis - Italian rye grass	
Logfia gallica - narrowleaf cottonrose	
Lysimachia arvensis - scarlet pimpernel	
Malosma laurina - laurel sumac	
Malva parviflora - cheeseweed mallow	
Matricaria discoidea - pineapple weed	
Mesembryanthemum crystallinum - common iceplant	
Mesembryanthemum nodiflorum - slender leaved ice plant	
Navarretia hamata - hooked pincushionplant	
Opuntia littoralis - coastal pricklypear	
Psilocarphus brevissimus - woolly marble	
Rhus integrifolia - lemonade berry	
Schismus barbatus - common Mediterranean grass	
Simmondsia chinensis - jojoba	
Sonchus asper - spiny sowthistle	
Stephanomeria diegensis - San Diego milk aster	

Notes/Comments: California gnatcatcher pair calling in pool buffer area



Photo taken: 5/22/2019 Photo location is -117.00744618500, 32.57449253160 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesNo	Name: City_CalTerracesNorth_OtayMesaRdParcels VP_ID: 3	
Photopoint X: -117.00815842000	Photopoint Y: 32.57251959650	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 63.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 37.0	
2019 Quantitative Monitoring Data		
Survey Date 5/21/2019	Survey Start Time: 2:28 PM	Survey End Time: 2:44 PM
Surveyors: Sara Allen, Jessie Lane		
VPHCP Covered Species Present: PC	NU,ERAR,ORCA	
Cover of ERAR in Basin 5-10%	Cover of NAFO in Basin: Co	ver Cover of ORCA in Basin
Cover of POAB in Basin	of PONU in Basin 5-10%	
Other Native Species in Pool:		
Species N	ame	Cover
Callitriche marginata - Cali	fornia water starwort	<1%
Callitriche marginata - Cali	fornia water starwort	<1%
Deinandra fasciculata -	clustered tarweed	10-25%
Deinandra fasciculata -	clustered tarweed	10-25%
Deschampsia danthonioid	les - annual hairgrass	<1%
Deschampsia danthonioid	les - annual hairgrass	<1%
Juncus bufonius	- toad rush	<1%
Juncus bufonius	- toad rush	<1%
Myosurus minimus -	little mouse tail	1-5%
Myosurus minimus -	little mouse tail	1-5%
Navarretia hamata - hoo	ked pincushionplant	<1%
Navarretia hamata - hoo	ked pincushionplant	<1%
Peritoma arborea - blado	derpod spiderflower	<1%
Peritoma arborea - blado	derpod spiderflower	<1%
Plantago erecta - Ca	lifornia plantain	<1%
Plantago erecta - Ca	lifornia plantain	<1%
Psilocarphus brevissim	us - woolly marble	10-25%
Psilocarphus brevissim	us - woolly marble	10-25%

**Cover of Other Native Species in Basin** 25-50% Native Species Richness in Basin: 11

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus madritensis - compact brome	<1%
Bromus madritensis - compact brome	<1%
Festuca myuros - rattail sixweeks grass	1-5%
Festuca myuros - rattail sixweeks grass	1-5%
Logfia gallica - narrowleaf cottonrose	<1%
Logfia gallica - narrowleaf cottonrose	<1%

**Cover of Nonnative Species in Basin:** 1-5%

Nonnative Species Richness in Basin: 3 Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: 10-25%

**Days Since Last Rain** 1-5

Ponded Water Present? no

**Cover of Litter in Basin:** <1%

Dead Species Present in Pool: Baccharis sarothroides

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 301

## 2019 Quantitative Monitoring Data continued

## Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Artemisia californica - coastal sagebrush
Atriplex canescens - fourwing saltbush
Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Crassula connata - sand pygmyweed
Cryptantha sp cryptantha
Deinandra fasciculata - clustered tarweed
Erodium botrys - longbeak stork's bill
Euphorbia misera - Cliff spurge
Festuca myuros - rattail sixweeks grass
Lamarckia aurea - goldentop grass
Logfia gallica - narrowleaf cottonrose
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Stipa pulchra - purple needlegrass



Photo taken: 5/21/2019 Photo location is -117.00815842000, 32.57251959650 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesNo	orth_OtayMesaRdParcels	VP_ID: 445
Photopoint X: -117.00782288100	Photopoint Y: 32.57202948570	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 63.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 38.0	
2019 Quantitative Monitoring Data		
Survey Date 5/21/2019	Survey Start Time: 1:44 PM	Survey End Time: 2:20 PM
Surveyors: Sara Allen, Jessie Lane		
VPHCP Covered Species Present: P	ONU,ERAR	
Cover of ERAR in Basin 5-10%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin 10-2	5%
<b>Other Native Species in Pool:</b>		
Species I	Name	Cover
Baccharis sarothroid	les - desertbroom	<1%
Deinandra fasciculata	- clustered tarweed	50-75%
Deschampsia danthonioides - annual hairgrass		<1%
Eleocharis macrostachya - common spikerush		<1%
Juncus bufoniu		<1%
Navarretia hamata - hoo		<1%
Psilocarphus brevissin	-	50-75%
Zeltnera venusta - cl	harming centaury	<1%

Cover of Other Native Species in Basin 75-100% Native Species Richness in Basin: 10

### **Nonnative Species in Pool**

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Bromus madritensis - compact brome	<1%
Centaurea melitensis - Maltese star-thistle	<1%
Erodium botrys - longbeak stork's bill	1-5%
Festuca myuros - rattail sixweeks grass	1-5%
Gastridium phleoides - nit grass	<1%
Lysimachia arvensis - scarlet pimpernel	<1%
Sonchus asper - spiny sowthistle	<1%

**Cover of Nonnative Species in Basin:** 5-10%

Nonnative Species Richness in Basin: 8

Bare Ground Cover in Basin 1-5%Cover of Rocks/Cobble in Basin: 5-10%

Ponded Water Present? no

Cover of Litter in Basin: 1-5%

Days Since Last Rain 1-5

Dead Species Present in Pool: None

Survey Year: 2019 Complex Name: City_CalTerracesNorth_OtayMesaRdParcels	Page 2 of 2 VP ID: 445
2019 Quantitative Monitoring Data continued	

# Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Antirchinum nuttallianum - Nuttall's snapdragon
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cryptantha sp cryptantha
Cylindropuntia californica - California cholla
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Euphorbia misera - Cliff spurge
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Gastridium phleoides - nit grass
Lamarckia aurea - goldentop grass
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Navarretia hamata - hooked pincushionplant
Rosa minutifolia - small-leaved rose
Salsola tragus - prickly Russian thistle
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Stephanomeria diegensis - San Diego milk aster
Unknown - herb
Yucca schidigera - Mojave yucca
Zeltnera venusta - charming centaury



Photo taken: 5/21/2019 Photo location is -117.00782288100, 32.57202948570 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2	
Complex Name: City_CalTerracesN	lorth_OtayMesaRdParcels	VP_ID: 447	
Photopoint X: -117.00697304900	point X: -117.00697304900 Photopoint Y: 32.57208295730 Photopoint Established: 20		
2003 Baseline Survey Data			
Baseline Cover of ERAR: 63.0	Baseline Cover of NAFO: 1.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 16.0		
2019 Quantitative Monitoring Data			
Survey Date 5/21/2019	Survey Start Time: 1:07 PM	Survey End Time: 1:35 PM	
Surveyors: Sara Allen, Jessie Lane			
VPHCP Covered Species Present:	ERAR,NAFO		
Cover of ERAR in Basin 5-10%	Cover of NAFO in Basin: 1-5%	Cover of ORCA in Basin	
Cover of POAB in Basin	Cover of PONU in Basin		
Other Native Species in Pool:			
Species	Name	Cover	
Callitriche marginata - C	alifornia water starwort	<1%	
Deinandra fasciculata	a - clustered tarweed	10-25%	
Deschampsia danthonio	pides - annual hairgrass	<1%	
Eleocharis macrostach	ya - common spikerush	<1%	
Epilobium campestre		5-10%	
Juncus bufonius - toad rush		<1%	
Juncus bufoni	us - toad rush	×170	
Juncus bufoni Navarretia hamata - ho		<1%	
	poked pincushionplant		

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Centaurea melitensis - Maltese star-thistle	<1%
Erodium botrys - longbeak stork's bill	<1%
Festuca myuros - rattail sixweeks grass	1-5%
Lythrum hyssopifolia - hyssop loosestrife	<1%
Sonchus asper - spiny sowthistle	<1%

Cover of Nonnative Species in Basin: 1-5% Nonnative Species Richness in Basin: 6

Bare Ground Cover in Basin 5-10%Cover of Rocks/Cobble in Basin: 10-25%

Ponded Water Present? no

Cover of Litter in Basin: <1%

Days Since Last Rain 1-5

Dead Species Present in Pool: Baccharis sarothroides

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 447

## 2019 Quantitative Monitoring Data continued

## Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Beta vulgaris - beet
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Cylindropuntia californica - California cholla
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Encelia californica - California brittlebush
Erodium botrys - longbeak stork's bill
Erodium cicutarium - redstem stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Logfia gallica - narrowleaf cottonrose
Salsola tragus - prickly Russian thistle
Schismus barbatus - common Mediterranean grass
Selaginella cinerascens - mesa spikemoss
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Stephanomeria diegensis - San Diego milk aster
Stipa pulchra - purple needlegrass
Yucca schidigera - Mojave yucca
Zeltnera venusta - charming centaury



Photo taken: 5/21/2019 Photo location is -117.00697304900, 32.57208295730 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesNo	orth_OtayMesaRdParcels	<b>VP_ID:</b> 449
Photopoint X: -117.00824750600	Photopoint Y: 32.57107438200	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 38.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 38.0	
2019 Quantitative Monitoring Data		
Survey Date 5/21/2019	Survey Start Time: 1:08 PM	Survey End Time: 1:55 PM
Surveyors: Jason Allen		
VPHCP Covered Species Present: P	ONU,ERAR	
Cover of ERAR in Basin 1-5%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin 5-10%	
<b>Other Native Species in Pool:</b>		
Species	Name	Cover
Callitriche marginata - Ca	lifornia water starwort	1-5%
Cryptantha sp.	- cryptantha	<1%
Deinandra fasciculata	<ul> <li>clustered tarweed</li> </ul>	10-25%
Deschampsia danthonioides - annual hairgrass		<1%
Eleocharis macrostachya	a - common spikerush	<1%
Juncus bufonius - toad rush		<1%
Myosurus minimus	- little mouse tail	<1%
Navarretia hamata - ho	oked pincushionplant	<1%
Plantago elongata - an	inual coast plantago	<1%
Psilocarphus brevissin	nus - woolly marble	25-50%

**Cover of Other Native Species in Basin** 50-75% Native Species Richness in Basin: 12

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Erodium botrys - longbeak stork's bill	<1%
Festuca myuros - rattail sixweeks grass	<1%

**Cover of Nonnative Species in Basin:** <1%

Nonnative Species Richness in Basin: 3

Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: 25-50% **Cover of Litter in Basin:** <1%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: Baccharis sarothroides

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 449

## 2019 Quantitative Monitoring Data continued

## Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Chenopodium murale - nettleleaf goosefoot
Crassula connata - sand pygmyweed
Cryptantha sp cryptantha
Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Grindelia camporum - gumweed
Isocoma menziesii - Menzies' goldenbush
Juncus bufonius - toad rush
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Lysimachia minima - chaffweed
Mesembryanthemum crystallinum - common iceplant
Navarretia hamata - hooked pincushionplant
Peritoma arborea - bladderpod spiderflower
Phacelia cicutaria - caterpillar phacelia
Plantago erecta - California plantain
Psilocarphus tenellus - short woollyheads
Rhus integrifolia - lemonade berry
Salsola tragus - prickly Russian thistle
Selaginella cinerascens - mesa spikemoss
Silene gallica - common catchfly
Stephanomeria diegensis - San Diego milk aster
Stipa lepida - foothill needlegrass



Photo taken: 5/21/2019 Photo location is -117.00824750600, 32.57107438200 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesN	lorth_OtayMesaRdParcels	VP_ID: 450
Photopoint X: -117.00801833200	Photopoint Y: 32.57106887980	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 38.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 38.0	
2019 Quantitative Monitoring Data		
Survey Date 5/21/2019	Survey Start Time: 1:59 PM	Survey End Time: 2:34 PM
Surveyors: Jason Allen		
VPHCP Covered Species Present:	ERAR,PONU	
Cover of ERAR in Basin 10-25%	6 Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin 1-5%	
<b>Other Native Species in Pool:</b>		
Species	Name	Cover
Baccharis sarothroi	ides - desertbroom	<1%
Crassula connata -		
Crussula connuta	sand pygmyweed	<1%
Cryptantha sp		<1% <1%
	cryptantha	
Cryptantha sp	a - cryptantha a - clustered tarweed	<1%
Cryptantha sp Deinandra fasciculata	a - cryptantha a - clustered tarweed bides - annual hairgrass	<1% 10-25%
Cryptantha sp Deinandra fasciculata Deschampsia danthonio	- cryptantha a - clustered tarweed pides - annual hairgrass shining pepperweed	<1% 10-25% <1%
Cryptantha sp Deinandra fasciculata Deschampsia danthonio Lepidium nitidum - s	a - cryptantha a - clustered tarweed bides - annual hairgrass shining pepperweed boked pincushionplant	<1% 10-25% <1% <1%

Cover of Other Native Species in Basin 25-50% Native Species Richness in Basin: 11

#### Nonnative Species in Pool

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Bromus madritensis - compact brome	<1%
Festuca myuros - rattail sixweeks grass	<1%
Logfia gallica - narrowleaf cottonrose	<1%
Lysimachia arvensis - scarlet pimpernel	<1%

Cover of Nonnative Species in Basin: 1-5% Nonnative Species Richness in Basin: 5

Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: 25-50% Cover of Litter in Basin: 1-5%

**Days Since Last Rain** 1-5

Ponded Water Present? no

Dead Species Present in Pool: Unknown shrub

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 450

## 2019 Quantitative Monitoring Data continued

## Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Artemisia californica - coastal sagebrush
Baccharis sarothroides - desertbroom
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Chenopodium murale - nettleleaf goosefoot
Crassula connata - sand pygmyweed
Cryptantha sp cryptantha
Cylindropuntia californica - California cholla
Deinandra fasciculata - clustered tarweed
Encelia californica - California brittlebush
Erigeron canadensis - Canada horseweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Hedypnois cretica - Cretanweed
Hypochaeris glabra - smooth cat's ear
Lamarckia aurea - goldentop grass
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Lysimachia minima - chaffweed
Mesembryanthemum crystallinum - common iceplant
Navarretia hamata - hooked pincushionplant
Peritoma arborea - bladderpod spiderflower
Phacelia cicutaria - caterpillar phacelia
Plantago elongata - annual coast plantago
Plantago erecta - California plantain
Psilocarphus brevissimus - woolly marble
Selaginella cinerascens - mesa spikemoss
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Stephanomeria diegensis - San Diego milk aster



Photo taken: 5/21/2019 Photo location is -117.00801833200, 32.57106887980 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesNorth_O	tayMesaRdParcels	VP_ID: 451
Photopoint X: -117.00687672700 Pho	topoint Y: 32.57103052540	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 16.0 Bas	eline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0 Bas	eline Cover of PONU: 3.0	
2019 Quantitative Monitoring Data		
Survey Date 5/21/2019	urvey Start Time: 11:13 AN	Survey End Time: 11:37 AM
Surveyors: Sara Allen, Jessie Lane		
VPHCP Covered Species Present: ERAR,PC	NU	
Cover of ERAR in Basin <1%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin <1	%
Other Native Species in Pool:		
Species Name		Cover
Artemisia californica - coast	al sagebrush	<1%
Deinandra conjugens - Ota		1-5%
Deinandra fasciculata - cluste	red tarweed	1-5%
Navarretia hamata - hooked p	ncushionplant	<1%
Psilocarphus brevissimus - w	oolly marble	1-5%
Cover of Other Native Species in Basin 5	10% Native Species Ric	hness in Basin: 5
Nonnative Species in Pool		
Species Name		Cover
Brassica nigra - black m		<1%
Centaurea melitensis - Malter		<1%
Dittrichia graveolens		1-5%
Erodium cicutarium - redste		25-50%
Festuca myuros - rattail sixu	_	<1%
Lactuca serriola - prickly		<1%
Melilotus indica - annual yello		<1%
Phalaris minor - littleseed o Sonchus asper - spiny so		<1% <1%
SULLIUS ASPEL - SPILLY SU		S170

Cover of Nonnative Species in Basin: 25-50% Nonnative Species Richness in Basin: 9

Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: 10-25% Cover of Litter in Basin: <1%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 451

## 2019 Quantitative Monitoring Data continued

## Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Beta vulgaris - beet
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Cryptantha sp cryptantha
Cylindropuntia prolifera - coastal cholla
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Erodium cicutarium - redstem stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Grindelia camporum - gumweed
Lepidium nitidum - shining pepperweed
Lycium andersonii - Anderson thornbush
Malva parviflora - cheeseweed mallow
Simmondsia chinensis - jojoba
Stephanomeria diegensis - San Diego milk aster



Photo taken: 5/21/2019 Photo location is -117.00687672700, 32.57103052540 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesNo	rth_OtayMesaRdParcels	VP_ID: 452
Photopoint X: -117.00729392100	Photopoint Y: 32.57107822780	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 80.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 16.0	
2019 Quantitative Monitoring Data		
Survey Date 5/21/2019	Survey Start Time: 10:37 AM	Survey End Time: 11:11 AM
Surveyors: Sara Allen, Jessie Lane		
VPHCP Covered Species Present: PC	DNU,ERAR	
Cover of ERAR in Basin 5-10%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin 1-5%	
Other Native Species in Pool:		
Species N	lame	Cover
Callitriche marginata - Cal	ifornia water starwort	10-25%
Deinandra conjugen	s - Otay tarplant	<1%
Deinandra fasciculata -	clustered tarweed	1-5%
Deschampsia danthonioid	des - annual hairgrass	<1%
Eleocharis macrostachya	- common spikerush	<1%
Navarretia hamata - hoo	ked pincushionplant	<1%
Psilocarphus brevissim	us - woolly marble	10-25%
Cover of Other Native Species in Bas	sin 25-50% Native Species Richne	ess in Basin: 9
Nonnative Species in Pool		
Species N	lame	Cover
Beta vulg	garis	<1%
Erodium cicutarium - r	edstem stork's bill	<1%
Festuca myuros - ratta	ail sixweeks grass	<1%
Gastridium phleoi	des - nit grass	<1%
Parapholis i	ncurva	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 6

Bare Ground Cover in Basin 25-50% Cover of Rocks/Cobble in Basin: 25-50% Cover of Litter in Basin: <1%

Days Since Last Rain 1-5

Ponded Water Present? no

-----

<1%

Dead Species Present in Pool: Baccharis sarothroides

Sonchus asper - spiny sowthistle

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 452

## 2019 Quantitative Monitoring Data continued

## Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Apiastrum angustifolium - mock parsley
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Beta vulgaris - beet
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cryptantha sp cryptantha
Cylindropuntia prolifera - coastal cholla
Deinandra conjugens - Otay tarplant
Deinandra fasciculata - clustered tarweed
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium cicutarium - redstem stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Lactuca serriola - prickly lettuce
Lamarckia aurea - goldentop grass
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Lycium andersonii - Anderson thornbush
Oncosiphon piluliferum - stinknet
Parapholis incurva - sickle grass
Psilocarphus brevissimus - woolly marble
Pterostegia drymarioides - woodland threadstem
Salsola tragus - prickly Russian thistle
Schismus barbatus - common Mediterranean grass
Simmondsia chinensis - jojoba
Stephanomeria diegensis - San Diego milk aster
Stipa pulchra - purple needlegrass
Yucca schidigera - Mojave yucca



Photo taken: 5/21/2019 Photo location is -117.00729392100, 32.57107822780 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerraces	North_OtayMesaRdParcels	VP_ID: 459
Photopoint X: -117.00729726500	Photopoint Y: 32.57070880010	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 38.0	Baseline Cover of NAFO: 3.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 16.0	
2019 Quantitative Monitoring Data		
Survey Date 5/21/2019	Survey Start Time: 9:48 AM	Survey End Time: 10:28 AM
Surveyors: Sara Allen, Jessie Lane		
VPHCP Covered Species Present:	ERAR,PONU	
Cover of ERAR in Basin 1-5%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin $<\!\!1\%$	
<b>Other Native Species in Pool:</b>		
Specie	s Name	Cover
Callitriche marginata - C	California water starwort	<1%
Deinandra conjugens - Otay tarplant		1-5%
Deinandra fasciculata - clustered tarweed		1-5%
Eleocharis macrostachya - common spikerush		<1%
Eleocharis macrostach	ya - common spikerush	
	us - toad rush	<1%
Juncus bufon		<1% <1%
Juncus bufon Navarretia hamata - h	us - toad rush	

### **Nonnative Species in Pool**

Species Name	Cover
Dittrichia graveolens	<1%
Erodium cicutarium - redstem stork's bill	<1%
Lysimachia arvensis - scarlet pimpernel	<1%
Sonchus asper - spiny sowthistle	<1%

**Cover of Nonnative Species in Basin:** <1% Nonnative Species Richness in Basin: 4

Bare Ground Cover in Basin 25-50% Cover of Rocks/Cobble in Basin: 25-50%

Days Since Last Rain 1-5

Dead Species Present in Pool: None

Ponded Water Present? no

Cover of Litter in Basin: <1%
Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 459

### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Apiastrum angustifolium - mock parsley
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bergerocactus emoryi - Golden spined cereus
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Cylindropuntia californica - California cholla
Cylindropuntia prolifera - coastal cholla
Deinandra conjugens - Otay tarplant
Deinandra fasciculata - clustered tarweed
Deschampsia danthonioides - annual hairgrass
Dicranostegia orcuttiana - Orcutt's birds-beak
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Erodium cicutarium - redstem stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Lycium andersonii - Anderson thornbush
Matricaria discoidea - pineapple weed
Opuntia littoralis - coastal pricklypear
Psilocarphus brevissimus - woolly marble
Simmondsia chinensis - jojoba
Stipa pulchra - purple needlegrass
Zeltnera venusta - charming centaury



Photo taken: 5/21/2019 Photo location is -117.00729726500, 32.57070880010 NAD83 State Plane California Zone 6 (feet)

		0
Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesN	orth_OtayMesaRdParcels	VP_ID: 464
Photopoint X: -117.00680402900	Photopoint Y: 32.57062819120	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 16.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 16.0	
2019 Quantitative Monitoring Data		
Survey Date 5/21/2019	Survey Start Time: 9:13 AM	Survey End Time: 9:41 AM
Surveyors: Sara Allen, Jessie Lane		
VPHCP Covered Species Present: P	PONU,ERAR	
Cover of ERAR in Basin <1%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin <1%	
<b>Other Native Species in Pool:</b>		
Species	Name	Cover
Baccharis pilulari	s - coyotebrush	<1%
Convolvulus simular	ns - field bindweed	<1%
Deinandra conjuge	ns - Otay tarplant	<1%
Deinandra fasciculata	<ul> <li>clustered tarweed</li> </ul>	1-5%
Psilocarphus brevissir	nus - woolly marble	<1%
Stephanomeria diegensi	s - San Diego milk aster	<1%
Cover of Other Native Species in B	asin 1-5% Native Species Richn	ess in Basin: 6
Nonnative Species in Pool		
Species	Name	Cover
Duranting utana	h la aluminista nal	-10/

Brassica nigra - black mustard<1%	Species Name	Cover
Erodium cicutarium - redstem stork's bill25-50%Festuca myuros - rattail sixweeks grass<1%	Brassica nigra - black mustard	<1%
Festuca myuros - rattail sixweeks grass<1%Logfia gallica - narrowleaf cottonrose<1%	Centaurea melitensis - Maltese star-thistle	5-10%
Logfia gallica - narrowleaf cottonrose<1%Lysimachia arvensis - scarlet pimpernel1-5%Melilotus indica - annual yellow sweetclover<1%	Erodium cicutarium - redstem stork's bill	25-50%
Lysimachia arvensis - scarlet pimpernel1-5%Melilotus indica - annual yellow sweetclover<1%	Festuca myuros - rattail sixweeks grass	<1%
Melilotus indica - annual yellow sweetclover<1%Oncosiphon piluliferum - stinknet<1%	Logfia gallica - narrowleaf cottonrose	<1%
Oncosiphon piluliferum - stinknet <1%	Lysimachia arvensis - scarlet pimpernel	1-5%
	Melilotus indica - annual yellow sweetclover	<1%
Sonchus asper - spiny sowthistle 5-10%	Oncosiphon piluliferum - stinknet	<1%
	Sonchus asper - spiny sowthistle	5-10%

**Cover of Nonnative Species in Basin:** 50-75% Nonnative Species Richness in Basin: 9

Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: 10-25%

Ponded Water Present? no

**Cover of Litter in Basin:** 1-5%

Days Since Last Rain 1-5

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 464

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Beta vulgaris - beet
Brassica nigra - black mustard
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Cylindropuntia prolifera - coastal cholla
Deinandra conjugens - Otay tarplant
Deinandra fasciculata - clustered tarweed
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium cicutarium - redstem stork's bill
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Lepidium nitidum - shining pepperweed
Lycium andersonii - Anderson thornbush
Matricaria discoidea - pineapple weed
Opuntia littoralis - coastal pricklypear
Rhus integrifolia - lemonade berry
Simmondsia chinensis - jojoba
Stipa lepida - foothill needlegrass



Photo taken: 5/21/2019 Photo location is -117.00680402900, 32.57062819120 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerraces	North_OtayMesaRdParcels	VP_ID: 471
Photopoint X: -117.00677941000	Photopoint Y: 32.57038296720	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 38.0	Baseline Cover of NAFO: 3.0	Baseline Cover of ORCA: 3.0
<b>Baseline Cover of POAB:</b> 0.0	Baseline Cover of PONU: 38.0	
2019 Quantitative Monitoring Dat	a	
Survey Date 5/21/2019	Survey Start Time: 9:13 AM	Survey End Time: 9:52 AM
Surveyors: Mark Berninger, Dian	a Brand Ramirez	
VPHCP Covered Species Present:	PONU,ERAR	
Cover of ERAR in Basin 5-10%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin 1-5%	
<b>Other Native Species in Pool:</b>		
Specie	s Name	Cover
Ambrosia chenopodiifoli	a - San Diego bur ragweed	<1%
Artemisia californic	a - coastal sagebrush	<1%
Baccharis sarothro	oides - desertbroom	<1%
Deinandra fascicula	a - clustered tarweed	10-25%
Eleocharis macrostach	iya - common spikerush	<1%
Epilobium	campestre	<1%
	a a lua al value a chi a na la nat	<1%
Navarretia hamata - h	looked pincushionplant	-2,0

#### **Nonnative Species in Pool**

Species Name	Cover
Centaurea melitensis - Maltese star-thistle	<1%
Erodium botrys - longbeak stork's bill	1-5%
Festuca myuros - rattail sixweeks grass	<1%
Lactuca serriola - prickly lettuce	<1%
Lysimachia arvensis - scarlet pimpernel	<1%
Oncosiphon piluliferum - stinknet	<1%
Oxalis pes-caprae - Sourgrass	<1%
Sonchus asper - spiny sowthistle	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 8

Bare Ground Cover in Basin 25-50% Cover of Rocks/Cobble in Basin: 25-50% Cover of Litter in Basin: <1%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 471

### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name Ambrosia chenopodiifolia - San Diego bur ragweed Antirrhinum nuttallianum - Nuttall's snapdragon Artemisia californica - coastal sagebrush Avena sp oat Bahiopsis laciniata - torhleaf goldeneye Beta vulgaris - beet Bromus hordeaceus - soft brome Centaurea melitensis - Maltees etar-thistle Crassula connata - sand pygmyweed Cylindropuntia californica - California cholla Cylindropuntia prolifera - coastal kolla Deinandra conjugens - Otat target Ditranostegia orcuttiana - Orcut's birds-beak Dittrichia graveolens - Stinkwort Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego batton celery Ferocactus viridescens - San Dieg	
Antirrhinum nuttallianum - Nuttall's snapdragon Artemisia californica - coastal sagebrush Avena sp oat Bahiopsis laciniata - torhleaf goldeneye Beta vulgaris - beet Bromus hordeaceus - soft brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia californica - California cholla Cylindropuntia arlifornica - California cholla Cylindropuntia prolifera - coastal cholla Deinandra fasciculata - clustered tarweed Dicranostegia orcuttiana - Orcutt's birds-beak Dittrichia graveolens - Stinkwort Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Eriogonum fasciculatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Lepidium nitdum - shining pepperweed Logfia galica - narrowleaf cottonrose Lycium andersonii - Anderson thornbush Lysimachia arvensis - scarlet pimpernel Malosma laurina - laurel sumac Rhus integrifolia - lemonade berry Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass	Species Name
Artemisia californica - coastal sagebrush         Avena sp oat         Bahiopsis laciniata - torhleaf goldeneye         Beta vulgaris - beet         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Cylindropuntia californica - California cholla         Cylindropuntia prolifera - coastal cholla         Cylindropuntia ronjugens - Otay tarplant         Deinandra fasciculata - clustered tarweed         Dicranostegia orcuttiana - Orcutt's birds-beak         Dittrichia graveolens - Stinkwort         Encelia californica - California brittlebush         Eriogonum fasciculatum - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Eryngium aristulatum var. parishii - San Diego button celery         Ferocactus viridescens - San Diego barrel cactus         Festuca myuros - rattail sixweeks grass         Lepidium initidum - shining pepperweed         Lycimander andersonii - Anderson thornbush         Lycimander andersonii - Anderson thornbush         Lycimander and alurina - laurel sumac         Rhus integrifolia - leuronabe berry         Simmondsia chinensis - jojoba	
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Bahiopsis laciniata - torhleaf goldeneye         Beta vulgaris - beet         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Crassula connata - sand pygmyweed         Cylindropuntia californica - California cholla         Cylindropuntia prolifera - coastal cholla         Cylindropuntia conjugens - Otay tarplant         Deinandra conjugens - Otay tarplant         Deinandra fasciculata - clustered tarweed         Dicranostegia orcuttiana - Orcut's birds-beak         Dittrichia graveolens - Stinkwort         Encelia californica - California brittlebush         Eriogonum fasciculatum - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Eryngium aristulatum var. parishii - San Diego button celery         Festuca myuros - rattali sixweeks grass         Lepidium nitidum - shining pepperweed         Logfia gallica - narrowleaf cottonrose         Lycium andersonii - Anderson thornbush         Lysimachia arvensis - scarlet pimpernel         Malosma laurina - laurel sumac         Rhus integrifolia - lemonade berry         Simmondsia chinensis - jojoba         Stephanomeria diegensis - San Diego Dilk aster         Stephanomeria diegensis - Son Diego milk aster	Artemisia californica - coastal sagebrush
Beta vulgaris - beet         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Crassula connata - sand pygmywed         Cylindropuntia californica - California cholla         Cylindropuntia prolifera - coastal cholla         Deinandra fasciculata - clustered tarweed         Dicranostegia orcuttiana - Orcuty Torkbeak         Dittrichia graveolens - Stinkwort         Encelia californica - California brittlebush         Eriogonum fasciculatum - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Eryngium aristulatum var. parishii - San Diego button celery         Ferocactus viridescens - San Diego button celery         Ferocactus viridescens - San Diego button celery         Lepidium nitidum - shining pepperweed         Logfia gallica - narrowleaf cottonrose         Lycium andersonii - Anderson thornbush         Lysimachia arvensis - scarlet pimpernel         Malosma laurina - laurel sumac         Rhus integrifolia - lemonade berry         Simmondsia chinensis - jojoba         Stephanomeria diegensis - San Diego milk aster	Avena sp oat
Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Crassula connata - sand pygmyweed         Cylindropuntia californica - California cholla         Cylindropuntia conjugens - Otay tarplant         Deinandra conjugens - Otay tarplant         Deinandra fasciculata - clustered tarweed         Dicranostegia orcuttiana - Orcutt's birds-beak         Dittrichia graveolens - Stinkwort         Encelia californica - California brittlebush         Eriogonum fasciculatum - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Eryngium aristulatum var. parishii - San Diego button celery         Ferocactus viridescens - San Diego button celery         Festuca myuros - rattail sixweeks grass         Lepidium nitidum - shining pepperweed         Logfia gallica - narrowleaf cottonrose         Lycium andersonii - Anderson thornbush         Lysimachia arvensis - scarlet pimpernel         Malosma laurina - laurel sumac         Rhus integrifolia - lemonade berry         Simmondsia chinensis - jojoba         Stephanomeria diegensis - San Diego milk aster	
Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Crassula connata - sand pygmyweed         Cylindropuntia californica - California cholla         Cylindropuntia arbitymica - California cholla         Cylindropuntia prolifera - coastal cholla         Deinandra fasciculata - clustered tarweed         Dicranostegia orcuttiana - Orcutt's birds-beak         Dittrichia graveolens - Stinkwort         Encelia californica - California brittlebush         Eriogonum fasciculatum - Eastern Mojave buckwheat         Erolium botrys - longbeak stork's bill         Eryngium aristulatum var. parishii - San Diego button celery         Ferocactus viridescens - San Diego barrel cactus         Festuca myuros - ratali sixweeks grass         Lepidium nitidum - shining pepperweed         Logfia gallica - narrowleaf cottonrose         Lycium andersonii - Anderson thornbush         Lysimachia arvensis - scarlet pimpernel         Malosma laurina - laurel sumac         Rhus integrifolia - lemonade berry         Simmondsia chinensis - jojoba         Stephanomeria diegensis - San Diego milk aster         Stipa lepida - foothill needlegrass	Beta vulgaris - beet
Centaurea melitensis - Maltese star-thistleCrassula connata - sand pygmyweedCylindropuntia californica - California chollaCylindropuntia prolifera - coastal chollaDeinandra conjugens - Otay tarplantDeinandra fasciculata - clustered tarweedDitranostegia orcuttiana - Orcutt's birds-beakDittrichia graveolens - StinkwortEncelia californica - California brittlebushEriogonum fasciculatum - Eastern Mojave buckwheatErodium botrys - longbeak stork's billEryngium aristulatum var. parishii - San Diego button celeryFerocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassLepidium nitidum - shining pepperweedLogfia gallica - narrowleaf cottonroseLycium andersonii - Anderson thornbushLysimachia arvensis - scarlet pimpernelMalosma laurina - laurel sumacRhus integrifolia - lemonade berrySimmondsia chinensis - jojobaStephanomeria diegensis - San Diego milk asterStipa lepida - foothill needlegrass	Bromus hordeaceus - soft brome
Crassula connata - sand pygmyweed Cylindropuntia californica - California cholla Cylindropuntia prolifera - coastal cholla Deinandra conjugens - Otay tarplant Deinandra fasciculata - clustered tarweed Dicranostegia orcuttiana - Orcutt's birds-beak Dittrichia graveolens - Stinkwort Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Lepidium nitidum - shining pepperweed Logfia gallica - narrowleaf cottonrose Lycium andersonii - Anderson thornbush Lysimachia arvensis - scarlet pimpernel Malosma laurina - laurel sumac Rhus integrifolia - lemonade berry Simmondsia chinensis - jojoba	Bromus madritensis - compact brome
Cylindropuntia californica - California chollaCylindropuntia prolifera - coastal chollaDeinandra conjugens - Otay tarplantDeinandra fasciculata - clustered tarweedDicranostegia orcuttiana - Orcutt's birds-beakDittrichia graveolens - StinkwortEncelia californica - California brittlebushEriogonum fasciculatum - Eastern Mojave buckwheatEronium botrys - longbeak stork's billFerocactus viridescens - San Diego button celeryFerocactus viridescens - San Diego button celeryFestuca myuros - rattail sixweeks grassLepidium nitidum - shrining peperweedLogfia gallica - narrowleaf cottonroseLycium andersonii - Anderson thornbushLysimachia arvensis - scarlet pimpernelMalosma laurina - laurel sumacRhus integrifolia - lemonade berrySimmondsia chinensis - jojobaStephanomeria diegensis - San Diego milk asterStipa lepida - foothill needlegrass	Centaurea melitensis - Maltese star-thistle
Cylindropuntia prolifera - coastal chollaDeinandra conjugens - Otay tarplantDeinandra fasciculata - clustered tarweedDicranostegia orcuttiana - Orcutt's birds-beakDittrichia graveolens - StinkwortEncelia californica - California brittlebushEriogonum fasciculatum - Eastern Mojave buckwheatErodium botrys - longbeak stork's billEryngium aristulatum var. parishii - San Diego button celeryFerocactus viridescens - San Diego button celeryFerocactus viridescens - San Diego barrel cactusLepidium nitidum - shining pepperweedLogfia gallica - narrowleaf cottonroseLycium andersonii - Anderson thornbushLysimachia arvensis - scarlet pimpernelMalosma laurina - laurel sumacRhus integrifolia - lemonade berrySimmondsia chinensis - jojobaStephanomeria diegensis - San Diego milk asterStipa lepida - foothill needlegrass	Crassula connata - sand pygmyweed
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Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Lepidium nitidum - shining pepperweed Logfia gallica - narrowleaf cottonrose Lycium andersonii - Anderson thornbush Lysimachia arvensis - scarlet pimpernel Malosma laurina - laurel sumac Rhus integrifolia - lemonade berry Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass	Dicranostegia orcuttiana - Orcutt's birds-beak
Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Lepidium nitidum - shining pepperweed Logfia gallica - narrowleaf cottonrose Lycium andersonii - Anderson thornbush Lysimachia arvensis - scarlet pimpernel Malosma laurina - laurel sumac Rhus integrifolia - lemonade berry Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass	Dittrichia graveolens - Stinkwort
Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Lepidium nitidum - shining pepperweed Logfia gallica - narrowleaf cottonrose Lycium andersonii - Anderson thornbush Lysimachia arvensis - scarlet pimpernel Malosma laurina - laurel sumac Rhus integrifolia - lemonade berry Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass	Encelia californica - California brittlebush
Eryngium aristulatum var. parishii - San Diego button celeryFerocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassLepidium nitidum - shining pepperweedLogfia gallica - narrowleaf cottonroseLycium andersonii - Anderson thornbushLysimachia arvensis - scarlet pimpernelMalosma laurina - laurel sumacRhus integrifolia - lemonade berrySimmondsia chinensis - jojobaStephanomeria diegensis - San Diego milk asterStipa lepida - foothill needlegrass	Eriogonum fasciculatum - Eastern Mojave buckwheat
Ferocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassLepidium nitidum - shining pepperweedLogfia gallica - narrowleaf cottonroseLycium andersonii - Anderson thornbushLysimachia arvensis - scarlet pimpernelMalosma laurina - laurel sumacRhus integrifolia - lemonade berrySimmondsia chinensis - jojobaStephanomeria diegensis - San Diego milk asterStipa lepida - foothill needlegrass	Erodium botrys - longbeak stork's bill
Festuca myuros - rattail sixweeks grassLepidium nitidum - shining pepperweedLogfia gallica - narrowleaf cottonroseLycium andersonii - Anderson thornbushLysimachia arvensis - scarlet pimpernelMalosma laurina - laurel sumacRhus integrifolia - lemonade berrySimmondsia chinensis - jojobaStephanomeria diegensis - San Diego milk asterStipa lepida - foothill needlegrass	Eryngium aristulatum var. parishii - San Diego button celery
Lepidium nitidum - shining pepperweed Logfia gallica - narrowleaf cottonrose Lycium andersonii - Anderson thornbush Lysimachia arvensis - scarlet pimpernel Malosma laurina - laurel sumac Rhus integrifolia - lemonade berry Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass	Ferocactus viridescens - San Diego barrel cactus
Logfia gallica - narrowleaf cottonrose Lycium andersonii - Anderson thornbush Lysimachia arvensis - scarlet pimpernel Malosma laurina - laurel sumac Rhus integrifolia - lemonade berry Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass	Festuca myuros - rattail sixweeks grass
Lycium andersonii - Anderson thornbush Lysimachia arvensis - scarlet pimpernel Malosma laurina - laurel sumac Rhus integrifolia - lemonade berry Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass	Lepidium nitidum - shining pepperweed
Lysimachia arvensis - scarlet pimpernel Malosma laurina - laurel sumac Rhus integrifolia - lemonade berry Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass	Logfia gallica - narrowleaf cottonrose
Malosma laurina - laurel sumac Rhus integrifolia - lemonade berry Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass	Lycium andersonii - Anderson thornbush
Rhus integrifolia - lemonade berry Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass	
Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass	Malosma laurina - laurel sumac
Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass	Rhus integrifolia - lemonade berry
Stipa lepida - foothill needlegrass	Simmondsia chinensis - jojoba
· · · •	Stephanomeria diegensis - San Diego milk aster
Yucca schidigera - Mojave yucca	Stipa lepida - foothill needlegrass
	Yucca schidigera - Mojave yucca



Photo taken: 5/21/2019 Photo location is -117.00677941000, 32.57038296720 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerraces	North_OtayMesaRdParcels	VP_ID: 473
Photopoint X: -117.00745860200	Photopoint Y: 32.57011866340	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 38.0	Baseline Cover of NAFO: 16.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 16.0	
2019 Quantitative Monitoring Data	1	
Survey Date 5/21/2019	Survey Start Time: 10:04 AM	Survey End Time: 10:37 AM
Surveyors: Mark Berninger, Diana	Brand Ramirez	
VPHCP Covered Species Present:	PONU,ERAR,NAFO	
Cover of ERAR in Basin 10-259	<b>Cover of NAFO in Basin:</b> <1%	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin 1-5%	, )
<b>Other Native Species in Pool:</b>		
Specie	s Name	Cover
Callitriche marginata - C	California water starwort	1-5%
Deinandra fasciculat	a - clustered tarweed	5-10%
Deschampsia danthoni	oides - annual hairgrass	<1%
Myosurus minimu	s - little mouse tail	<1%
,	imus - woolly marble	1-5%

Cover of Nonnative Species in Basin: 0Nonnative Species Richness in Basin: 0Bare Ground Cover in Basin 25-50%Cover of Rocks/Cobble in Basin: 25-50%Cover of Litter in Basin: <1%</td>Days Since Last Rain 1-5Ponded Water Present? noDead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 473

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bergerocactus emoryi - Golden spined cereus
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Dicranostegia orcuttiana - Orcutt's birds-beak
Eriogonum elongatum - longstem buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Lycium andersonii - Anderson thornbush
Mirabilis laevis - desert wishbone bush
Navarretia hamata - hooked pincushionplant
Plagiobothrys acanthocarpus - adobe popcornflower
Psilocarphus tenellus - short woollyheads
Simmondsia chinensis - jojoba
Stephanomeria diegensis - San Diego milk aster
Stipa lepida - foothill needlegrass
Zeltnera venusta - charming centaury



Photo taken: 5/21/2019 Photo location is -117.00745860200, 32.57011866340 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesNorth_OtayMesaRdParcels		VP_ID: 483
Photopoint X: -117.00707001700	Photopoint Y: 32.56981794580	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 38.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 3.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 16.0	
2019 Quantitative Monitoring Data		
Survey Date 5/21/2019	Survey Start Time: 9:13 AM	Survey End Time: 10:05 AM
Surveyors: Jason Allen		
VPHCP Covered Species Present: EF	RAR,ORCA	
Cover of ERAR in Basin 5-10%	Cover of NAFO in Basin:	Cover of ORCA in Basin $<1\%$
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Species N	Name	Cover
Baccharis sarothroid	es - desertbroom	<1%
Callitriche marginata - Cal	ifornia water starwort	5-10%
Deinandra fasciculata -	- clustered tarweed	10-25%
Deschampsia danthonioi	des - annual hairgrass	<1%
Eleocharis macrostachya - common spikerush		<1%
Epilobium campestre		<1%
Lepidium nitidum - shining pepperweed		<1%
Myosurus minimus - little mouse tail		<1%
Navarretia hamata - hoc	ked pincushionplant	<1%
Psilocarphus brevissim	ius - woolly marble	25-50%
Simmondsia chin	ensis - jojoba	<1%

Cover of Other Native Species in Basin 50-75% Native Species Richness in Basin: 12

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Bromus madritensis - compact brome	<1%
Erodium botrys - longbeak stork's bill	<1%
Festuca myuros - rattail sixweeks grass	<1%
Lythrum hyssopifolia - hyssop loosestrife	<1%
Silene gallica - common catchfly	<1%

**Cover of Nonnative Species in Basin:** 1-5%

Nonnative Species Richness in Basin: 6

**Bare Ground Cover in Basin** 25-50% **Cover of Rocks/Cobble in Basin:** 25-50%

Ponded Water Present? no

**Cover of Litter in Basin:** 1-5%

Days Since Last Rain 1-5

Dead Species Present in Pool: Baccharis sarothroides, woody unknown

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 483

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bergerocactus emoryi - Golden spined cereus
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cylindropuntia californica - California cholla
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Eleocharis macrostachya - common spikerush
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Erodium cicutarium - redstem stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Galium angustifolium - narrowleaf bedstraw
Hypochaeris glabra - smooth cat's ear
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Lycium andersonii - Anderson thornbush
Navarretia hamata - hooked pincushionplant
Orcuttia californica - Orcutt's grass
Peritoma arborea - bladderpod spiderflower
Phalaris minor - littleseed canarygrass
Pogogyne nudiuscula - Otay mesa mint
Psilocarphus tenellus - short woollyheads
Rosa minutifolia - small-leaved rose
Schismus barbatus - common Mediterranean grass
Selaginella cinerascens - mesa spikemoss
Silene gallica - common catchfly
Simmondsia chinensis - jojoba
Stipa lepida - foothill needlegrass
Zeltnera venusta - charming centaury



Photo taken: 5/21/2019 Photo location is -117.00707001700, 32.56981794580 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesNorth_OtayMesaRdParcels		<b>VP_ID:</b> 484
Photopoint X: -117.00741098200	Photopoint Y: 32.56992845520	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 16.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 3.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 16.0	
2019 Quantitative Monitoring Data		
Survey Date 5/21/2019	Survey Start Time: 10:47 AM	Survey End Time: 11:33 AM
Surveyors: Mark Berninger, Diana B	Brand Ramirez	
VPHCP Covered Species Present: El	RAR,PONU	
Cover of ERAR in Basin 1-5%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin <1%	
Other Native Species in Pool:		
Species	Name	Cover
Callitriche marginata - Ca	lifornia water starwort	1-5%
Deinandra fasciculata	- clustered tarweed	1-5%
Eleocharis macrostachya - common spikerush		1-5%
Marsilea vestita		<1%
Psilocarphus brevissimus - woolly marble		1-5%
Cover of Other Native Species in Ba	sin 10-25% Native Species Richn	ess in Basin: 6
Nonnative Species in Pool		
Species I	Name	Cover
Dittrichia gr	aveolens	<1%
Sonchus asper - s	niny sowthistle	<1%

 Cover of Nonnative Species in Basin: <1%</th>
 Nonnative Species Richness in Basin: 2

 Bare Ground Cover in Basin 50-75%
 Cover of Rocks/Cobble in Basin: 10-25%
 Cover of Litter in Basin: <1%</td>

 Days Since Last Rain 1-5
 Ponded Water Present? no
 Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 484

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bergerocactus emoryi - Golden spined cereus
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Dichelostemma capitatum - bluedicks
Encelia californica - California brittlebush
Eriogonum elongatum - longstem buckwheat
Eryngium aristulatum var. parishii - San Diego button celery
Euphorbia misera - Cliff spurge
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Lycium andersonii - Anderson thornbush
Navarretia hamata - hooked pincushionplant
Oncosiphon piluliferum - stinknet
Peritoma arborea - bladderpod spiderflower
Pogogyne nudiuscula - Otay mesa mint
Psilocarphus brevissimus - woolly marble
Rhus integrifolia - lemonade berry
Simmondsia chinensis - jojoba
Stephanomeria diegensis - San Diego milk aster
Stipa lepida - foothill needlegrass
Yucca schidigera - Mojave yucca
Zeltnera venusta - charming centaury



Photo taken: 5/21/2019 Photo location is -117.00741098200, 32.56992845520 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019 Complex Name: City_CalTerracesNorth_OtayMesaRdParcels		Page 1 of 2 VP_ID: 490
2003 Baseline Survey Data		
Baseline Cover of ERAR: 16.0	Baseline Cover of NAFO: 1.0	Baseline Cover of ORCA: 16.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 16.0	
2019 Quantitative Monitoring Data		
Survey Date 5/21/2019	Survey Start Time: 10:07 AM	Survey End Time: 10:50 AM
Surveyors: Jason Allen		
VPHCP Covered Species Present: C	DRCA,ERAR,PONU	
Cover of ERAR in Basin 1-5%	Cover of NAFO in Basin:	Cover of ORCA in Basin 10-25%
Cover of POAB in Basin	Cover of PONU in Basin 1-5%	
Other Native Species in Pool:		
Species	Name	Cover
Callitriche marginata - Ca	alifornia water starwort	1-5%
Deinandra fasciculata - clustered tarweed		1-5%
Deschampsia danthonioides - annual hairgrass		<1%
Eleocharis macrostachya - common spikerush		1-5%
Epilobium campestre		<1%
Juncus bufoniu	us - toad rush	<1%
Marsilea	vestita	<1%
Psilocarphus brevissir	mus - woolly marble	10-25%

Cover of Other Native Species in Basin 25-50% Native Species Richness in Basin: 11

#### Nonnative Species in Pool

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Bromus madritensis - compact brome	<1%
Erodium botrys - longbeak stork's bill	<1%
Festuca myuros - rattail sixweeks grass	<1%
Logfia gallica - narrowleaf cottonrose	<1%

**Cover of Nonnative Species in Basin:** 1-5%

Nonnative Species Richness in Basin: 5

Bare Ground Cover in Basin 25-50% Cover of Rocks/Cobble in Basin: 10-25% Cover of Litter in Basin: 1-5%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: Artemisia californica, Baccharis sarothroides

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 490

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name         Ambrosia chenopodiifolia - San Diego bur ragweed         Amsinckia intermedia - common fiddleneck         Apiastrum angustifolium - mock parsley         Artemisia californica - coastal sagebrush         Bahiopsis laciniata - torhleaf goldeneye         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Crassula connata - sand pygmyweed         Cylindropuntia californica - California cholla         Deinandra fasciculata - clustered tarweed         Deschampsia danthonioides - annual hairgrass         Dichelostemma capitatum - bluedicks         Eleocharis macrostachya - common spikerush         Erroigonum fasciculatum - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Eryngium aristulatum var. parishii - San Diego button celery         Euphorbia misera - Cliff spurge
Amsinckia intermedia - common fiddleneckApiastrum angustifolium - mock parsleyArtemisia californica - coastal sagebrushBahiopsis laciniata - torhleaf goldeneyeBrassica nigra - black mustardBromus hordeaceus - soft bromeBromus madritensis - compact bromeCentaurea melitensis - Maltese star-thistleCylindropuntia californica - California chollaDeinandra fasciculata - clustered tarweedDeschampsia danthonioides - annual hairgrassDichelostemma capitatum - bluedicksEleocharis macrostachya - common spikerushEncelia californica - California brittlebushErrogonum fasciculatum - Eastern Mojave buckwheatErodium botrys - longbeak stork's billEryngium aristulatum var. parishii - San Diego button celeryEuphorbia misera - Cliff spurge
Apiastrum angustifolium - mock parsleyArtemisia californica - coastal sagebrushBahiopsis laciniata - torhleaf goldeneyeBrassica nigra - black mustardBromus hordeaceus - soft bromeBromus madritensis - compact bromeCentaurea melitensis - Maltese star-thistleCrassula connata - sand pygmyweedCylindropuntia californica - California chollaDeinandra fasciculata - clustered tarweedDeschampsia danthonioides - annual hairgrassDichelostemma capitatum - bluedicksEleocharis macrostachya - common spikerushEncelia californica - California brittlebushEriogonum fasciculatum - Eastern Mojave buckwheatErodium botrys - longbeak stork's billEryngium aristulatum var. parishii - San Diego button celeryEuphorbia misera - Cliff spurge
Artemisia californica - coastal sagebrushBahiopsis laciniata - torhleaf goldeneyeBrassica nigra - black mustardBromus hordeaceus - soft bromeBromus madritensis - compact bromeCentaurea melitensis - Maltese star-thistleCrassula connata - sand pygmyweedCylindropuntia californica - California chollaDeinandra fasciculata - clustered tarweedDeschampsia danthonioides - annual hairgrassDichelostemma capitatum - bluedicksEleocharis macrostachya - common spikerushEncelia californica - California brittlebushErodium botrys - longbeak stork's billEryngium aristulatum var. parishii - San Diego button celeryEuphorbia misera - Cliff spurge
Bahiopsis laciniata - torhleaf goldeneyeBrassica nigra - black mustardBromus hordeaceus - soft bromeBromus madritensis - compact bromeCentaurea melitensis - Maltese star-thistleCrassula connata - sand pygmyweedCylindropuntia californica - California chollaDeinandra fasciculata - clustered tarweedDeschampsia danthonioides - annual hairgrassDichelostemma capitatum - bluedicksEleocharis macrostachya - common spikerushEriogonum fasciculatum - Eastern Mojave buckwheatErodium botrys - longbeak stork's billEryngium aristulatum var. parishii - San Diego button celeryEuphorbia misera - Cliff spurge
Brassica nigra - black mustard Bromus hordeaceus - soft brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia californica - California cholla Deinandra fasciculata - clustered tarweed Deschampsia danthonioides - annual hairgrass Dichelostemma capitatum - bluedicks Eleocharis macrostachya - common spikerush Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Eriogium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Euphorbia misera - Cliff spurge
Bromus hordeaceus - soft brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia californica - California cholla Deinandra fasciculata - clustered tarweed Deschampsia danthonioides - annual hairgrass Dichelostemma capitatum - bluedicks Eleocharis macrostachya - common spikerush Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Euphorbia misera - Cliff spurge
Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia californica - California cholla Deinandra fasciculata - clustered tarweed Deschampsia danthonioides - annual hairgrass Dichelostemma capitatum - bluedicks Eleocharis macrostachya - common spikerush Encelia californica - California brittlebush Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Euphorbia misera - Cliff spurge
Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia californica - California cholla Deinandra fasciculata - clustered tarweed Deschampsia danthonioides - annual hairgrass Dichelostemma capitatum - bluedicks Eleocharis macrostachya - common spikerush Encelia californica - California brittlebush Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Euphorbia misera - Cliff spurge
Crassula connata - sand pygmyweed Cylindropuntia californica - California cholla Deinandra fasciculata - clustered tarweed Deschampsia danthonioides - annual hairgrass Dichelostemma capitatum - bluedicks Eleocharis macrostachya - common spikerush Encelia californica - California brittlebush Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Euphorbia misera - Cliff spurge
Cylindropuntia californica - California cholla Deinandra fasciculata - clustered tarweed Deschampsia danthonioides - annual hairgrass Dichelostemma capitatum - bluedicks Eleocharis macrostachya - common spikerush Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Euphorbia misera - Cliff spurge
Deinandra fasciculata - clustered tarweed Deschampsia danthonioides - annual hairgrass Dichelostemma capitatum - bluedicks Eleocharis macrostachya - common spikerush Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Euphorbia misera - Cliff spurge
Deschampsia danthonioides - annual hairgrass Dichelostemma capitatum - bluedicks Eleocharis macrostachya - common spikerush Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Euphorbia misera - Cliff spurge
Dichelostemma capitatum - bluedicks Eleocharis macrostachya - common spikerush Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Euphorbia misera - Cliff spurge
Eleocharis macrostachya - common spikerush Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Euphorbia misera - Cliff spurge
Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Euphorbia misera - Cliff spurge
Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Euphorbia misera - Cliff spurge
Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Euphorbia misera - Cliff spurge
Eryngium aristulatum var. parishii - San Diego button celery Euphorbia misera - Cliff spurge
Euphorbia misera - Cliff spurge
Forosactus viridossons - San Diago harrol sastus
relocacius villuescens - San Diego Darrei Cacius
Festuca myuros - rattail sixweeks grass
Juncus bufonius - toad rush
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Lycium andersonii - Anderson thornbush
Mammillaria dioica - fish hook cactus
Navarretia hamata - hooked pincushionplant
Opuntia littoralis - coastal pricklypear
Plagiobothrys acanthocarpus - Adobe allocarya
Psilocarphus brevissimus - woolly marble
Rosa minutifolia - small-leaved rose
Schismus barbatus - common Mediterranean grass
Simmondsia chinensis - jojoba
Stipa lepida - foothill needlegrass



Photo taken: 5/21/2019 Photo location is -117.00707537100, 32.56970186600 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesN	lorth_OtayMesaRdParcels	VP_ID: 502
Photopoint X: -117.00675027200	Photopoint Y: 32.56946502310	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 16.0	Baseline Cover of NAFO: 1.0	Baseline Cover of ORCA: 3.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 16.0	
2019 Quantitative Monitoring Data		
Survey Date 5/21/2019	Survey Start Time: 11:03 AM	Survey End Time: 11:41 AM
Surveyors: Jason Allen		
VPHCP Covered Species Present:	PONU,ERAR,NAFO,ORCA	
Cover of ERAR in Basin 1-5%	Cover of NAFO in Basin: <1%	Cover of ORCA in Basin <1%
Cover of POAB in Basin	Cover of PONU in Basin ${<}1\%$	
<b>Other Native Species in Pool:</b>		
Species	Name	Cover
Callitriche marginata - California water starwort		
Callitriche marginata - C		1-5%
Callitriche marginata - C Crassula connata -	alifornia water starwort	1-5% <1%
	alifornia water starwort sand pygmyweed	
Crassula connata -	alifornia water starwort sand pygmyweed a - clustered tarweed	<1%
Crassula connata - Deinandra fasciculata	alifornia water starwort sand pygmyweed a - clustered tarweed bides - annual hairgrass	<1% 5-10%
Crassula connata - Deinandra fasciculata Deschampsia danthonio	alifornia water starwort sand pygmyweed a - clustered tarweed bides - annual hairgrass ya - common spikerush	<1% 5-10% <1%
Crassula connata - Deinandra fasciculata Deschampsia danthonio Eleocharis macrostachy	alifornia water starwort sand pygmyweed a - clustered tarweed bides - annual hairgrass va - common spikerush us - toad rush	<1% 5-10% <1% <1%
Crassula connata - Deinandra fasciculata Deschampsia danthonio Eleocharis macrostachy Juncus bufoni	alifornia water starwort sand pygmyweed a - clustered tarweed bides - annual hairgrass /a - common spikerush us - toad rush a vestita	<1% 5-10% <1% <1%

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus madritensis - compact brome	<1%
Centaurea melitensis - Maltese star-thistle	<1%
Festuca myuros - rattail sixweeks grass	<1%
Logfia gallica - narrowleaf cottonrose	<1%

Cover of Nonnative Species in Basin: <1%

asin: <1% Nonnative Species Richness in Basin: 4

Bare Ground Cover in Basin 50-75% Cover of Rocks/Cobble in Basin: 10-25% Cover of Litter in Basin: <1%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 502

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name Ambrosia chenopodiifolia - San Diego bur ragweed Artemisia californica - coastal sagebrush Atriplex semibaccata - Australian saltbush Bahiopsis laciniata - torhleaf goldeneye Bromus hordeaceus - soft brome Centaurea melitensis - compact brome Centaurea melitensis - Maltese star-thistle Cistanthe maritima - seaside calandrinia Crassula connata - sand pygmyweed Cryptantha sp cryptantha Cylindropuntia californica - California cholla Cylindropuntia californica - California cholla Cylindropuntia californica - California cholla Cylindropuntia californica - California brittlebush Erolium aristulatum var. parishii - San Diego butro celery Ferocactus viridescens - San Nego button celery Ferocactus viridescens - San Diego batton celery Ferocactus viridescens - San Diego batton celery Ferocactus viridescens - San Diego batton celery Lepidium nitidum - shining peperweed Logfia galiica - narrowleaf cottonrose Lycium andersonii - Anderson thornbush Lysimachia arvensis - corset pimpernel Navarretia hamata - hooked pincushionplant Opuntia littoralis - coastal pricklypear Pogogyne nudiuscula - Otay mesa mint Pseudognaphalium stramineum - cottonbatting plant Psilocarphus tenellus - short woollyheads Simmondsia chinensis - jojoba Sonchus asper - spin ysowthistle	
Artemisia californica - coastal sagebrush         Atriplex semibaccata - Australian saltbush         Bahiopsis laciniata - torhleaf goldeneye         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Cistanthe maritima - seaside calandrinia         Crassula connata - sand pygmyweed         Cryptantha sp cryptantha         Cylindropuntia californica - California cholla         Cylindropuntia prolifera - coastal cholla         Dittrichia graveolens - Stinkwort         Encelia californica - California brittlebush         Eriogonum fasciculatum - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Eryngium aristulatum var. parishii - San Diego button celery         Ferocactus viridescens - San Diego barrel cactus         Glebionis coronaria - crown daisy         Glebionis coronaria - crown daisy         Legrid aur nitidum - shining pepperweed         Logfia gallica - narrowleaf cottonrose         Lycium andersonii - Anderson thornbush         Lysimachia arvensis - scarlet pimpernel         Navarretia hamata - hooked pincushionplant         Opuntia littoralis - coastal pricklypear         Pogogyne nudiuscula - Otay mesa mint         Pseudognaphalium stramineum - cottonbatting plant	Species Name
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Pogogyne nudiuscula - Otay mesa mint         Pseudognaphalium stramineum - cottonbatting plant         Psilocarphus tenellus - short woollyheads         Simmondsia chinensis - jojoba         Sonchus asper - spiny sowthistle         Stipa lepida - foothill needlegrass	Navarretia hamata - hooked pincushionplant
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Simmondsia chinensis - jojoba Sonchus asper - spiny sowthistle Stipa lepida - foothill needlegrass	Pseudognaphalium stramineum - cottonbatting plant
Sonchus asper - spiny sowthistle Stipa lepida - foothill needlegrass	Psilocarphus tenellus - short woollyheads
Stipa lepida - foothill needlegrass	Simmondsia chinensis - jojoba
	Sonchus asper - spiny sowthistle
Yucca schidigera - Mojave yucca	Stipa lepida - foothill needlegrass
	Yucca schidigera - Mojave yucca



Photo taken: 5/21/2019 Photo location is -117.00675027200, 32.56946502310 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerraces	North_OtayMesaRdParcels	VP_ID: 509
Photopoint X: -117.00727772600	Photopoint Y: 32.56936961860	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 38.0	Baseline Cover of NAFO: 3.0	Baseline Cover of ORCA: 3.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 16.0	
2019 Quantitative Monitoring Data	l	
Survey Date 5/16/2019	Survey Start Time: 3:32 PM	Survey End Time: 4:01 PM
Surveyors: Mark Berninger, Diana	Brand Ramirez	
VPHCP Covered Species Present:	POAB,ERAR,ORCA,NAFO	
Cover of ERAR in Basin 1-5%	Cover of NAFO in Basin: <1%	Cover of ORCA in Basin 5-10%
Cover of POAB in Basin 1-5%	Cover of PONU in Basin	
<b>Other Native Species in Pool:</b>		
Specie	Name	Cover
Deinandra fasciculata - clustered tarweed		10-25%
Psilocarphus breviss	mus - woolly marble	25-50%
Cover of Other Native Species in I	Basin 50-75% Native Species Richne	ass in Basin: 5
Nonnative Species in Pool	value species riching	
		â
Species Name Sonchus asper - spiny sowthistle		Cover <1%

Bare Ground Cover in Basin 10-25%Cover of Rocks/Cobble in Basin: 10-25%Cover of Litter in Basin: <1%</th>Days Since Last Rain 1-5Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 509

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bergerocactus emoryi - Golden spined cereus
Brachypodium distachyon - purple false brome
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Deinandra fasciculata - clustered tarweed
Dichelostemma capitatum - bluedicks
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Eryngium aristulatum var. parishii - San Diego button celery
Euphorbia misera - Cliff spurge
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Juncus bufonius - toad rush
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Lycium andersonii - Anderson thornbush
Navarretia hamata - hooked pincushionplant
Pogogyne nudiuscula - Otay mesa mint
Simmondsia chinensis - jojoba
Stipa lepida - foothill needlegrass
Yucca schidigera - Mojave yucca



Photo taken: 5/16/2019 Photo location is -117.00727772600, 32.56936961860 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2 VP_ID: 591
Complex Name: City_CalTerracesNorth_OtayMesaRdParcels		
Photopoint X: -117.00699302100	Photopoint Y: 32.56897284890	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 38.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 38.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 3.0	
2019 Quantitative Monitoring Data		
Survey Date 5/16/2019	Survey Start Time: 10:41 AM	Survey End Time: 11:28 AM
Surveyors: Sara Allen, Sarah McCut	cheon	
VPHCP Covered Species Present: P	ONU,ERAR,ORCA	
Cover of ERAR in Basin 10-25% Cover of NAFO in Basin:		Cover of ORCA in Basin 25-50%
Cover of POAB in Basin	Cover of PONU in Basin $<1\%$	
<b>Other Native Species in Pool:</b>		
Species I	Name	Cover
Ambrosia pumila - San Diego ambrosia		1-5%
Callitriche marginata - California water starwort		<1%
Crassula aquatica - Aquatic pygmy weed		<1%
Deinandra conjugens - Otay tarplant		<1%
Deinandra fasciculata - clustered tarweed		<1%
Deschampsia danthonioides - annual hairgrass		<1%
Eleocharis macrostachya - common spikerush		1-5%
Navarretia hamata - hooked pincushionplant		<1%
Oxalis californica - California wood sorrel		<1%
Pseudognaphalium stramine	eum - cottonbatting plant	<1%
Psilocarphus brevissim	nus - woolly marble	10-25%
Zeltnera venusta - charming centaury		<1%

**Cover of Other Native Species in Basin** 25-50% Native Species Richness in Basin: 14

#### **Nonnative Species in Pool**

Species Name	Cover
Erodium cicutarium - redstem stork's bill	<1%
Festuca myuros - rattail sixweeks grass	<1%
Festuca perennis - Italian rye grass	<1%
Lythrum hyssopifolia - hyssop loosestrife	<1%
Polypogon monspeliensis - annual rabbitsfoot grass	<1%
Sonchus asper - spiny sowthistle	<1%

**Cover of Nonnative Species in Basin:** 1-5% Nonnative Species Richness in Basin: 6

Bare Ground Cover in Basin 5-10%Cover of Rocks/Cobble in Basin: 10-25% Cover of Litter in Basin: <1% Ponded Water Present? no

**Days Since Last Rain** 1-5

Dead Species Present in Pool: Unknown shrub

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 591

### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Ambrosia pumila - San Diego ambrosia
Apiastrum angustifolium - mock parsley
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bergerocactus emoryi - Golden spined cereus
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cryptantha sp cryptantha
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra conjugens - Otay tarplant
Deinandra fasciculata - clustered tarweed
Deschampsia danthonioides - annual hairgrass
Eleocharis macrostachya - common spikerush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Eryngium aristulatum var. parishii - San Diego button celery
Euphorbia misera - Cliff spurge
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Hordeum intercedens - Vernal barley
Lactuca serriola - prickly lettuce
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Lycium andersonii - Anderson thornbush
Malosma laurina - laurel sumac
Mesembryanthemum nodiflorum - slender leaved ice plant
Mirabilis laevis - desert wishbone bush
Navarretia hamata - hooked pincushionplant
Oxalis californica - California wood sorrel
Pogogyne nudiuscula - Otay mesa mint
Pseudognaphalium stramineum - cottonbatting plant
Psilocarphus brevissimus - woolly marble
Schismus barbatus - common Mediterranean grass
Selaginella cinerascens - mesa spikemoss
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Stipa pulchra - purple needlegrass
Yucca schidigera - Mojave yucca
Zeltnera venusta - charming centaury



Photo taken: 5/16/2019 Photo location is -117.00699302100, 32.56897284890 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesNo		VP_ID: 1310
Photopoint X: -117.00759363400	Photopoint Y: 32.56857329120	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 20.0	Baseline Cover of NAFO: 0.5	Baseline Cover of ORCA: 1.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 15.0	
2019 Quantitative Monitoring Data		
Survey Date 5/16/2019	Survey Start Time: 3:27 PM	Survey End Time: 4:35 PM
Surveyors: Jason Allen		
VPHCP Covered Species Present: PC	NU,ERAR,ORCA,NAFO	
Cover of ERAR in Basin 10-25%	<b>Cover of NAFO in Basin:</b> <19	% Cover of ORCA in Basin <1%
Cover of POAB in Basin	Cover of PONU in Basin 10-	-25%
Other Native Species in Pool:		
Species N	lame	Cover
		5-10%
Callitriche marginata - California water starwort Crassula aquatica - Aquatic pygmy weed		<1%
Crassula connata - sa		<1%
Deinandra conjugen		1-5%
Deschampsia danthonioid		1-5%
Eleocharis macrostachya	-	<1%
Epilobium ca	-	<1%
Eriogonum fasciculatum - Eas	stern Mojave buckwheat	<1%
Holocarpha virgata ssp. elon	gata - Graceful tarplant	<1%
Juncus bufonius	- toad rush	<1%
Lepidium nitidum - shi	ning pepperweed	<1%
Myosurus minimus -	little mouse tail	<1%
Navarretia hamata - hoo	ked pincushionplant	<1%
Osmadenia tenella -	false rosinweed	<1%
Plantago elongata - anr	nual coast plantago	<1%
Psilocarphus brevissim	us - woolly marble	10-25%
Simmondsia chine	ensis - jojoba	<1%

Cover of Other Native Species in Basin 25-50% Native Species Richness in Basin: 19

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Bromus madritensis - compact brome	<1%
Erodium sp stork's bill	<1%
Festuca myuros - rattail sixweeks grass	<1%
Lamarckia aurea - goldentop grass	<1%
Logfia gallica - narrowleaf cottonrose	<1%
Lysimachia arvensis - scarlet pimpernel	<1%
Mesembryanthemum nodiflorum - slender leaved ice plant	<1%
Sonchus asper - spiny sowthistle	<1%

Cover of Nonnative Species in Basin: 1-5% No

Nonnative Species Richness in Basin: 9

Bare Ground Cover in Basin 5-10%Cover of Rocks/Cobble in Basin: 5-10%

Ponded Water Present? no

Cover of Litter in Basin: <1%

Days Since Last Rain 1-5

Dead Species Present in Pool: Unknown shrub

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 1310

### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name Ambrosia chenopodiifolia - San Diego bur ragweed Amsinckia intermedia - common fiddleneck Artemisia californica - coastal sagebrush Bahiopsis laciniata - torhleaf goldeneye Brassica nigra - black mustard Bromus madritensis - compact brome Bromus madritensis - compact brome Centaurea mellitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Deinandra conjugens - Otay tarplant Deinandra conjugens - Otay tarplant Deinandra fasciculata - clustered tarweed Deschampsia danthonioides - annual hairgrass Encelia california - California brittlebush Eriogonum fasciculaturu - Eastern Mojave buckwheat Eryngium aristulatum var. parishi - San Diego button celery Festuca myuros - rattail sixweeks grass Gelebionis coronaria - Gareful tarplant Hypochaeris glabra - smooth cat's ear Lepidium nitidum - shining peperweed Logfia gallica - narrowleaf cottonrose Matricaria discoidea - pineapple weed Mesembryanthemum nodiforum - seladre is roismed Materiaria fascala - pineapple weed Phalaris aquatica - harding Grass Pogogyne nudiuscula - Otay mesa mint Psilocarphus brevisimus - woolly marble Salvia mellifera - black age Selaginella cinerascens - mesa spikemoss Simmondia chinensis - jojoba Sonchus asper - spiny sowtistle Stipa lepida - forthil needlegrass	
Amsinckia intermedia - common fiddleneck Artemisia californica - coastal sagebrush Bahiopsis laciniata - torhleaf goldeneye Brassica nigra - black mustard Bromus hordeaceus - soft brome Bromus nadritensis - compact brome Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Deinandra fasciculata - clustered tarweed Deschampsia danthonioides - annual hairgrass Encelia californica - California brittlebush Erriogonum fasciculatua - clustered tarweed Erriogonum fasciculatua - clanda horseweed Erriogonum fasciculatum - Eastern Mojave buckwheat Erriogonum fasciculatum - Eastern Mojave buckwheat Errogionum fasciculatum - Sanda horseweed Errogionum fasciculatum - Sanda horseweed Errogionum fasciculatum - Sanda horseweed Errogionum fasciculatum - Sanda - Graceful tarplant Holocarpha virgata sp. elongata - Graceful tarplant Holocarpha virgata sp. elongata - Graceful tarplant Holocarpha virgata sp. elongata - Graceful tarplant Hovenherris glabra - narrowleaf cottonrose Matricaria discoidea - pineapple weed Matricaria discoidea - pineapple weed Mesembryanthemum nodiflorum - slender leaved ice plant Navarretia hamata - hooked pincushionplant Osmadenia tenella - false rosinweed Phalaris aquatica - harding Grass Pogogyne nudiuscula - Otay mesa mint Psilocarphus brevissimus - woolly marble Salvia mellifera - black sage Selaginella cinerascens - mesa apikemoss Simmondsia chinensis - jojoba Sonchus saper - spiny sowthistle Stepa lepida - foothill needlegrass	
Artemisia californica - coastal sagebrush         Bahiopsis lacinitat - torhleaf goldeneye         Brassica nigra - black mustard         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Crassula connata - sand pygmyweed         Cylindropuntia prolifera - coastal cholla         Deinandra conjugens - Otay tarplant         Deinandra conjugens - Otay tarplant         Deschampsia danthonioides - annual hairgrass         Encelia californica - California britlebush         Erigeron canadensis - Canada horseweed         Erigeron canadensis - Canada horseweed         Erigeron canadensis - Canada horseweed         Feituca myuros - rattail sixweeks grass         Glebionis coronaria - crown daisy         Holocarpha wirgata ssp. elongata - Graceful tarplant         Hypochaeris glabra - smooth cat's ear         Lepidium nitidum - shining pepperweed         Logfia gallica - narrowleaf cottorrose         Matricaria discoidea - pineapple weed         Mesembryanthemum modifforum - slender leaved ice plant         Navarretia hamata - hooked pincushionplant         Osmadenia tenella - false rosinweed         Phalaris aquatica - harding Grass         Pogogyne nudiuscula - Otay mesa mint         Psilocarphus brevissimus - woolly	·
Bahiopsis laciniata - torhleaf goldeneye         Brassica nigra - black mustard         Bromus hordeaceus - soft brome         Centaurea melitensis - compact brome         Centaurea melitensis - compact brome         Centaurea melitensis - compact brome         Centaurea melitensis - contact brome         Centaurea melitensis - contact brome         Cylindropuntia prolifera - coastal cholla         Deinandra conjugens - Otay tarplant         Deinandra fasciculata - clustered tarweed         Deschampsia danthonioides - annual hairgrass         Encelia california - fulfornia brittlebush         Erigeron canadensis - Canada horseweed         Eriogonum fasciculatum - Eastern Mojave buckwheat         Eriogonum fasciculatum var. parishii - San Diego button celery         Festuca myuros - ratiali sixweeks grass         Festuca myuros - ratiali sixweeks grass         Festuca perennis - Italian rye grass         Glebionis coronaria - crown daisy         Holocarpha virgata ssp. elongata - Graceful tarplant         Hypochaeris glabra - smooth cat's ear         Lepidium nitidum - shining pepperweed         Logfia galita - narrowleaf cottonrose         Matricaria discoidea - pineapple weed         Masarretia fossalis - Spreading navarretia         Navarretia hamata - hooked pincushionplant         Osmaden	
Brassica nigra - black mustard         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Crassula connata - sand pygmyweed         Cylindropuntia prolifera - coastal cholla         Deinandra conjugens - Otay tarplant         Deinandra fasciculata - clustered tarweed         Deschampsia danthonioides - annual hairgrass         Encelia californica - California brittlebush         Erigeron canadensis - Canada horseweed         Eriogonum fasciculatum - Eastern Mojave buckwheat         Eryngium aristulatum var. parishii - San Diego button celery         Festuca myuros - rattail sixweeks grass         Glebionis coronaria - crown daisy         Holocarpha virgata ssp. elongata - Graceful tarplant         Hypochaeris glabra - smooth cat's ear         Lepidium nitidum - shining pepperweed         Logfia gallica - narrowleaf cotonrose         Matricaria discoidea - pineapple weed         Mesembryanthemum nodiflorum - slender leaved ice plant         Navarretia hamata - hooked pincushioplant         Osmadenia tenella - false rosinweed         Phalaris aquatica - harding Grass         Pogogyne nudiuscula - Otay mesa mint         Psilocarphus brevissimus - woolly marble         Salvia mellifera - black sage         Selagine	5
Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Crassula connata - sand pygnyweed         Cylindropuntia prolifera - coastal cholla         Deinandra conjugens - Otay tarplant         Deschampsia danthonioides - annual hairgrass         Encelia californica - California brittlebush         Eriogonum fasciculatur - Eastern Mojave buckwheat         Erogonum fasciculatur - Eastern Mojave buckwheat         Eryngium aristulatum var. parishii - San Diego button celery         Festuca myuros - rattail sixweeks grass         Glebionis coronaria - crown daisy         Holocarpha virgata ssp. elongata - Graceful tarplant         Hypochaeris glabra - smooth cat's ear         Lepidium nitidum - shining pepperweed         Masvarretia fossalis - Spreading navarretia         Navarretia fossalis - Spreading navarretia         Navarretia fossalis - Spreading rass         Pogogyne nulsucula - hoteked pincushionplant         Osmadenia tenella - false rosinweed         Phalaris aquatica - harding Grass         Pogogyne nulsucula - hoteke age         Selaginella cinerascens - meas apikemoss         Silvia mellifera - black sage         Selaginella cinerascens - meas apikemoss         Silvia mellifera - black sage         Selaginel	
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Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Deinandra conjugens - Otay tarplant Deinandra fasciculata - clustered tarweed Deschampsia danthonioides - annual hairgrass Encelia californica - California brittlebush Erigeron canadensis - Canada horseweed Eriogonum fasciculatum - Eastern Mojave buckwheat Eryngium aristulatum var. parishii - San Diego button celery Festuca myuros - rattali sixweeks grass Festuca perennis - Italian rye grass Glebionis coronaria - crown daisy Holocarpha virgata ssp. elongata - Graceful tarplant Hypochaeris glabra - smooth cat's ear Lepidium nitidum - shining pepperweed Logfia gallica - narrowleaf cottonrose Matricaria discoidea - pineapple weed Masarretia fossalis - Spreading navarretia Navarretia fossalis - Spreading navarretia Navarretia fossalis - Spreading navarretia Navarretia fossalis - Spreading navarretia Savarretia hamata - hooked pincushionplant Osmadenia tenella - false rosinweed Phalaris aquatica - harding Grass Pogogyne nudiuscula - Otay mesa mint Psilocarphus brevissimus - woolly marble Salvia mellifera - black sage Selaginella cinerascens - mesa spikemoss Simmondsia chinensis - jojoba	Bromus madritensis - compact brome
Cylindropuntia prolifera - coastal cholla Deinandra conjugens - Otay tarplant Deinandra fasciculata - clustered tarweed Deschampsia danthonioides - annual hairgrass Encelia californica - California brittlebush Erigeron canadensis - Canada horseweed Eriogonum fasciculatum - Eastern Mojave buckwheat Eryngium aristulatum var. parishii - San Diego button celery Festuca myuros - rattail sixweeks grass Festuca perennis - Italian rye grass Glebionis coronaria - crown daisy Holocarpha virgata ssp. elongata - Graceful tarplant Hypochaeris glabra - smooth cat's ear Lepidium nitidum - shining pepperweed Logfia gallica - narrowleaf cottonrose Matricaria discoidea - pineapple weed Mesembryanthemum nodiflorum - slender leaved ice plant Navarretia hamata - hooked pincushionplant Osmadenia tenella - false rosinweed Phalaris aquatica - harroing Grass Pogogyne nudiuscula - Otay mesa mint Psilocarphus brevissimus - woolly marble Salvia mellifera - black sage Selaginella cinerascens - mesa spikemoss Simondsia chinensis - jojoba	Centaurea melitensis - Maltese star-thistle
Deinandra conjugens - Otay tarplant         Deinandra fasciculata - clustered tarweed         Deschampsia danthonioides - annual hairgrass         Encelia californica - California brittlebush         Eriogonum fasciculatum - California brittlebush         Eriogonum fasciculatum - Eastern Mojave buckwheat         Eriogonum fasciculatum - Eastern Mojave buckwheat         Eriogonum fasciculatum - Eastern Mojave buckwheat         Eryngium aristulatum var. parishii - San Diego button celery         Festuca myuros - rattail sixweeks grass         Glebionis coronaria - crown daisy         Holocarpha virgata ssp. elongata - Graceful tarplant         Hypochaeris glabra - smooth cat's ear         Lepidium nitidum - shining pepperweed         Logfia gallica - narrowleaf cottonrose         Matricaria discoidea - pineapple weed         Masarretia fossalis - Spreading navarretia         Navarretia fossalis - Spreading navarretia         Navarretia hamata - hooked pincushionplant         Osmadenia tenella - false rosinweed         Phalaris aquatica - harding Grass         Pogogyne nudiuscula - Otay mesa mint         Psilocarphus brevissimus - woolly marble         Salvia mellifera - black sage         Selaginella cinerascens - mesa spikemoss         Simmondia chinensis - jojoba         Sonchus asper - spiny sowthistle <td< td=""><td>Crassula connata - sand pygmyweed</td></td<>	Crassula connata - sand pygmyweed
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Erigeron canadensis - Canada horseweed Eriogonum fasciculatum - Eastern Mojave buckwheat Eryngium aristulatum var. parishii - San Diego button celery Festuca myuros - rattail sixweeks grass Festuca perennis - Italian rye grass Glebionis coronaria - crown daisy Holocarpha virgata ssp. elongata - Graeful tarplant Hypochaeris glabra - smooth cat's ear Lepidium nitidum - shining pepperweed Logfia gallica - narrowleaf cottonrose Matricaria discoidea - pineapple weed Mesembryanthemum nodiflorum - slender leaved ice plant Navarretia fossalis - Spreading navarretia Navarretia hamata - hooked pincushionplant Osmadenia tenella - false rosinweed Phalaris aquatica - harding Grass Pogogyne nudiuscula - Otay mesa mint Psilocarphus brevissimus - woolly marble Salvia mellifera - black sage Selaginella cinerascens - mesa spikemoss Simmondsia chinensis - jojoba	Deschampsia danthonioides - annual hairgrass
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Eryngium aristulatum var. parishii - San Diego button celeryFestuca myuros - rattail sixweeks grassFestuca perennis - Italian rye grassGlebionis coronaria - crown daisyHolocarpha virgata ssp. elongata - Graceful tarplantHypochaeris glabra - smooth cat's earLepidium nitidum - shining pepperweedLogfia gallica - narrowleaf cottonroseMatricaria discoidea - pineapple weedMesembryanthemum nodiflorum - slender leaved ice plantNavarretia fossalis - Spreading navarretiaNavarretia fossalis - Spreading navarretiaNavarretia false rosinweedPhalaris aquatica - harding GrassPogogyne nudiuscula - Otay mesa mintPsilocarphus brevissimus - woolly marbleSalvia mellifera - black sageSelaginella cinerascens - mesa spikemossSimmondsia chinensis - jojobaSonchus asper - spiny sowthistleStipa lepida - foothill needlegrass	Erigeron canadensis - Canada horseweed
Festuca myuros - rattail sixweeks grass         Festuca perennis - Italian rye grass         Glebionis coronaria - crown daisy         Holocarpha virgata ssp. elongata - Graceful tarplant         Hypochaeris glabra - smooth cat's ear         Lepidium nitidum - shining pepperweed         Logfia gallica - narrowleaf cottonrose         Matricaria discoidea - pineapple weed         Mesembryanthemum nodiflorum - slender leaved ice plant         Navarretia fossalis - Spreading navarretia         Navarretia hamata - hooked pincushionplant         Osmadenia tenella - false rosinweed         Phalaris aquatica - harding Grass         Pogogyne nudiuscula - Otay mesa mint         Psilocarphus brevissimus - woolly marble         Salvia mellifera - black sage         Selaginella cinerascens - mesa spikemoss         Simmondsia chinensis - jojoba         Sonchus asper - spiny sowthistle         Stipa lepida - foothill needlegrass	Eriogonum fasciculatum - Eastern Mojave buckwheat
Festuca perennis - Italian rye grassGlebionis coronaria - crown daisyHolocarpha virgata ssp. elongata - Graceful tarplantHypochaeris glabra - smooth cat's earLepidium nitidum - shining pepperweedLogfia gallica - narrowleaf cottonroseMatricaria discoidea - pineapple weedMesembryanthemum nodiflorum - slender leaved ice plantNavarretia fossalis - Spreading navarretiaNavarretia hamata - hooked pincushionplantOsmadenia tenella - false rosinweedPhalaris aquatica - harding GrassPogogyne nudiuscula - Otay mesa mintPsilocarphus brevissimus - woolly marbleSalvia mellifera - black sageSelaginella cinerascens - mesa spikemossSimmondsia chinensis - jojobaSonchus asper - spiny sowthistleStipa lepida - foothill needlegrass	Eryngium aristulatum var. parishii - San Diego button celery
Glebionis coronaria - crown daisyHolocarpha virgata ssp. elongata - Graceful tarplantHypochaeris glabra - smooth cat's earLepidium nitidum - shining pepperweedLogfia gallica - narrowleaf cottonroseMatricaria discoidea - pineapple weedMesembryanthemum nodiflorum - slender leaved ice plantNavarretia fossalis - Spreading navarretiaNavarretia hamata - hooked pincushionplantOsmadenia tenella - false rosinweedPhalaris aquatica - harding GrassPogogyne nudiuscula - Otay mesa mintPsilocarphus brevissimus - woolly marbleSalvia mellifera - black sageSelaginella cinerascens - mesa spikemossSimmondsia chinensis - jojobaSonchus asper - spiny sowthistleStipa lepida - foothill needlegrass	Festuca myuros - rattail sixweeks grass
Holocarpha virgata ssp. elongata - Graceful tarplantHypochaeris glabra - smooth cat's earLepidium nitidum - shining pepperweedLogfia gallica - narrowleaf cottonroseMatricaria discoidea - pineapple weedMesembryanthemum nodiflorum - slender leaved ice plantNavarretia fossalis - Spreading navarretiaNavarretia fossalis - Spreading navarretiaOsmadenia tenella - false rosinweedPhalaris aquatica - harding GrassPogogyne nudiuscula - Otay mesa mintPsilocarphus brevissimus - woolly marbleSalvia mellifera - black sageSelaginella cinerascens - mesa spikemossSimmondsia chinensis - jojobaSonchus asper - spiny sowthistleStipa lepida - foothill needlegrass	Festuca perennis - Italian rye grass
Hypochaeris glabra - smooth cat's earLepidium nitidum - shining pepperweedLogfia gallica - narrowleaf cottonroseMatricaria discoidea - pineapple weedMesembryanthemum nodiflorum - slender leaved ice plantNavarretia fossalis - Spreading navarretiaNavarretia hamata - hooked pincushionplantOsmadenia tenella - false rosinweedPhalaris aquatica - harding GrassPogogyne nudiuscula - Otay mesa mintPsilocarphus brevissimus - woolly marbleSalvia mellifera - black sageSelaginella cinerascens - mesa spikemossSimmondsia chinensis - jojobaSonchus asper - spiny sowthistleStipa lepida - foothill needlegrass	Glebionis coronaria - crown daisy
Lepidium nitidum - shining pepperweedLogfia gallica - narrowleaf cottonroseMatricaria discoidea - pineapple weedMesembryanthemum nodiflorum - slender leaved ice plantNavarretia fossalis - Spreading navarretiaNavarretia hamata - hooked pincushionplantOsmadenia tenella - false rosinweedPhalaris aquatica - harding GrassPogogyne nudiuscula - Otay mesa mintPsilocarphus brevissimus - woolly marbleSalvia mellifera - black sageSelaginella cinerascens - mesa spikemossSimmondsia chinensis - jojobaSonchus asper - spiny sowthistleStipa lepida - foothill needlegrass	Holocarpha virgata ssp. elongata - Graceful tarplant
Logfia gallica - narrowleaf cottonroseMatricaria discoidea - pineapple weedMesembryanthemum nodiflorum - slender leaved ice plantNavarretia fossalis - Spreading navarretiaNavarretia hamata - hooked pincushionplantOsmadenia tenella - false rosinweedPhalaris aquatica - harding GrassPogogyne nudiuscula - Otay mesa mintPsilocarphus brevissimus - woolly marbleSalvia mellifera - black sageSelaginella cinerascens - mesa spikemossSimmondsia chinensis - jojobaSonchus asper - spiny sowthistleStipa lepida - foothill needlegrass	Hypochaeris glabra - smooth cat's ear
Matricaria discoidea - pineapple weedMesembryanthemum nodiflorum - slender leaved ice plantNavarretia fossalis - Spreading navarretiaNavarretia hamata - hooked pincushionplantOsmadenia tenella - false rosinweedPhalaris aquatica - harding GrassPogogyne nudiuscula - Otay mesa mintPsilocarphus brevissimus - woolly marbleSalvia mellifera - black sageSelaginella cinerascens - mesa spikemossSimmondsia chinensis - jojobaSonchus asper - spiny sowthistleStipa lepida - foothill needlegrass	Lepidium nitidum - shining pepperweed
Mesembryanthemum nodiflorum - slender leaved ice plantNavarretia fossalis - Spreading navarretiaNavarretia hamata - hooked pincushionplantOsmadenia tenella - false rosinweedPhalaris aquatica - harding GrassPogogyne nudiuscula - Otay mesa mintPsilocarphus brevissimus - woolly marbleSalvia mellifera - black sageSelaginella cinerascens - mesa spikemossSimmondsia chinensis - jojobaSonchus asper - spiny sowthistleStipa lepida - foothill needlegrass	Logfia gallica - narrowleaf cottonrose
Navarretia fossalis - Spreading navarretiaNavarretia hamata - hooked pincushionplantOsmadenia tenella - false rosinweedPhalaris aquatica - harding GrassPogogyne nudiuscula - Otay mesa mintPsilocarphus brevissimus - woolly marbleSalvia mellifera - black sageSelaginella cinerascens - mesa spikemossSimmondsia chinensis - jojobaSonchus asper - spiny sowthistleStipa lepida - foothill needlegrass	Matricaria discoidea - pineapple weed
Navarretia hamata - hooked pincushionplantOsmadenia tenella - false rosinweedPhalaris aquatica - harding GrassPogogyne nudiuscula - Otay mesa mintPsilocarphus brevissimus - woolly marbleSalvia mellifera - black sageSelaginella cinerascens - mesa spikemossSimmondsia chinensis - jojobaSonchus asper - spiny sowthistleStipa lepida - foothill needlegrass	Mesembryanthemum nodiflorum - slender leaved ice plant
Osmadenia tenella - false rosinweed Phalaris aquatica - harding Grass Pogogyne nudiuscula - Otay mesa mint Psilocarphus brevissimus - woolly marble Salvia mellifera - black sage Selaginella cinerascens - mesa spikemoss Simmondsia chinensis - jojoba Sonchus asper - spiny sowthistle Stipa lepida - foothill needlegrass	Navarretia fossalis - Spreading navarretia
Phalaris aquatica - harding Grass         Pogogyne nudiuscula - Otay mesa mint         Psilocarphus brevissimus - woolly marble         Salvia mellifera - black sage         Selaginella cinerascens - mesa spikemoss         Simmondsia chinensis - jojoba         Sonchus asper - spiny sowthistle         Stipa lepida - foothill needlegrass	Navarretia hamata - hooked pincushionplant
Pogogyne nudiuscula - Otay mesa mint         Psilocarphus brevissimus - woolly marble         Salvia mellifera - black sage         Selaginella cinerascens - mesa spikemoss         Simmondsia chinensis - jojoba         Sonchus asper - spiny sowthistle         Stipa lepida - foothill needlegrass	Osmadenia tenella - false rosinweed
Psilocarphus brevissimus - woolly marble Salvia mellifera - black sage Selaginella cinerascens - mesa spikemoss Simmondsia chinensis - jojoba Sonchus asper - spiny sowthistle Stipa lepida - foothill needlegrass	Phalaris aquatica - harding Grass
Salvia mellifera - black sage Selaginella cinerascens - mesa spikemoss Simmondsia chinensis - jojoba Sonchus asper - spiny sowthistle Stipa lepida - foothill needlegrass	Pogogyne nudiuscula - Otay mesa mint
Selaginella cinerascens - mesa spikemoss Simmondsia chinensis - jojoba Sonchus asper - spiny sowthistle Stipa lepida - foothill needlegrass	Psilocarphus brevissimus - woolly marble
Simmondsia chinensis - jojoba Sonchus asper - spiny sowthistle Stipa lepida - foothill needlegrass	Salvia mellifera - black sage
Sonchus asper - spiny sowthistle Stipa lepida - foothill needlegrass	Selaginella cinerascens - mesa spikemoss
Stipa lepida - foothill needlegrass	Simmondsia chinensis - jojoba
	Sonchus asper - spiny sowthistle
Vucca schidigera - Mojave vucca	Stipa lepida - foothill needlegrass
rucca schulgera - wojave yucca	Yucca schidigera - Mojave yucca



Photo taken: 5/16/2019 Photo location is -117.00759363400, 32.56857329120 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerrac	esNorth_OtayMesaRdParcels	VP_ID: 1321
Photopoint X: -117.0091003780	<b>Photopoint Y:</b> 32.56862252390	Photopoint Established: 2018
2003 Baseline Survey Data		
<b>Baseline Cover of ERAR:</b> 2.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
<b>Baseline Cover of POAB:</b> 0.0	Baseline Cover of PONU: 5.0	
2019 Quantitative Monitoring Da	ata	
Survey Date 5/21/2019	Survey Start Time: 2:19 PM	Survey End Time: 2:50 PM
Surveyors: Mark Berninger, Dia	ina Brand Ramirez	
VPHCP Covered Species Presen	t: PONU,ERAR,NAFO	
Cover of ERAR in Basin 5-1	0%Cover of NAFO in Basin: <1%	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin 10-25	5%
Other Native Species in Pool:		
Spec	cies Name	Cover
Baccharis saroth	roides - desertbroom	5-10%
Deinandra fascicu	lata - clustered tarweed	1-5%
Deschampsia dantho	onioides - annual hairgrass	<1%
Eleocharis macrostachya - common spikerush		1-5%
Epilobiu	im campestre	1-5%
Juncus buf	onius - toad rush	<1%
Navarretia hamata	- hooked pincushionplant	<1%

#### **Nonnative Species in Pool**

Species Name	Cover
Amaranthus albus	<1%
Centaurea melitensis - Maltese star-thistle	1-5%
Erigeron sumatrensis - tropical horseweed	<1%
Erodium cicutarium - redstem stork's bill	<1%
Lysimachia arvensis - scarlet pimpernel	1-5%
Lythrum hyssopifolia - hyssop loosestrife	<1%
Phalaris aquatica - harding Grass	<1%
Ricinus communis - castor bean	<1%
Sonchus asper - spiny sowthistle	1-5%

**Cover of Nonnative Species in Basin:** 10-25%

Nonnative Species Richness in Basin: 9

Bare Ground Cover in Basin <1%

Cover of Rocks/Cobble in Basin: <1% Ponded Water Present? no **Cover of Litter in Basin:** <1%

Days Since Last Rain 1-5

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 1321

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Artemisia californica - coastal sagebrush
Baccharis sarothroides - desertbroom
Bahiopsis laciniata - torhleaf goldeneye
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Deinandra conjugens - Otay tarplant
Deinandra fasciculata - clustered tarweed
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Festuca myuros - rattail sixweeks grass
Glebionis coronaria - crown daisy
Juncus bufonius - toad rush
Lactuca serriola - prickly lettuce
Logfia gallica - narrowleaf cottonrose
Nuttallanthus canadensis - Canada toadflax
Phalaris minor - littleseed canarygrass
Plantago erecta - California plantain
Pogogyne nudiuscula - Otay mesa mint
Psilocarphus brevissimus - woolly marble
Ricinus communis - castor bean
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle



Photo taken: 5/21/2019 Photo location is -117.00910037800, 32.56862252390 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesN	orth_OtayMesaRdParcels	VP_ID: 1713
Photopoint X: -117.00661338700	Photopoint Y: 32.56863941650	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 30.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 1.0	
2019 Quantitative Monitoring Data		
Survey Date 5/16/2019	Survey Start Time: 3:40 PM	Survey End Time: 4:03 PM
Surveyors: Sara Allen, Sarah McCur	tcheon	
VPHCP Covered Species Present: E	RAR,PONU	
Cover of ERAR in Basin 10-25%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin <1%	
Other Native Species in Pool:		
Species	Name	Cover
Baccharis sarothroid	des - desertbroom	<1%
Callitriche marginata - Ca	lifornia water starwort	1-5%
Deinandra fasciculata	- clustered tarweed	1-5%
Deschampsia danthonio	ides - annual hairgrass	<1%
Navarretia hamata - ho	oked pincushionplant	<1%

Cover of Other Native Species in Basin 10-25% Native Species Richness in Basin: 7

#### **Nonnative Species in Pool**

Species Name	Cover
Erodium botrys - longbeak stork's bill	<1%
Festuca myuros - rattail sixweeks grass	<1%
Glebionis coronaria - crown daisy	<1%
Lysimachia arvensis - scarlet pimpernel	<1%

Ponded Water Present? no

Cover of Nonnative Species in Basin: <1% Nonnative Species Richness in Basin: 4

Bare Ground Cover in Basin 50-75% Cover of Rocks/Cobble in Basin: 1-5% Cover of Litter in Basin: <1%

Days Since Last Rain 1-5

Dead Species Present in Pool: None
Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 1713

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Avena barbata - slender oat
Bahiopsis laciniata - torhleaf goldeneye
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Deinandra conjugens - Otay tarplant
Deinandra fasciculata - clustered tarweed
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Erodium cicutarium - redstem stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Hypochaeris glabra - smooth cat's ear
Logfia gallica - narrowleaf cottonrose
Phalaris minor - littleseed canarygrass
Psilocarphus brevissimus - woolly marble
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle

**Notes/Comments:** Dittrichia graveolens cover >1%; this pool was mislabeled 1716 in the 2018 survey

# **Cal Terraces North**



Photo taken: 5/16/2019 Photo location is -117.00661338700, 32.56863941650 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesN	Iorth_OtayMesaRdParcels	VP_ID: 1724
hotopoint X: -117.00584036700	Photopoint Y: 32.56872004800	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 40.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 1.0	
2019 Quantitative Monitoring Data		
Survey Date 5/16/2019	Survey Start Time: 9:13 AM	Survey End Time: 10:04 AM
Surveyors: Sara Allen, Sarah McCu	itcheon	
VPHCP Covered Species Present:	ERAR	
Cover of ERAR in Basin 5-10%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Species	Name	Cover
Baccharis pilular	is - coyotebrush	<1%
Deinandra fasciculata		1-5%
Eleocharis macrostachy	-	<1%
Epilobium	-	5-10%
Psilocarphus brevissi		<1%
Cover of Other Native Species in B	Basin 10-25% Native Species Richn	ness in Basin: 6
Nonnative Species in Pool		
Species	Name	Cover
Amaranth	ius albus	1-5%
Festuca perennis - Italian rye grass		<1%
	Glebionis coronaria - crown daisy	
Polygonum aviculare ssp. dep	-	<1%
Polypogon monspeliensis	_	<1%
Sonchus asper -	spiny sowthistle	<1%
Cover of Nonnative Species in Bas	in: 1-5% Nonnative Species	Richness in Basin: 6
Bare Ground Cover in Basin <1%	Cover of Rocks/Cobble in Basin: 5	<b>Cover of Litter in Basin:</b> 1-5%
Days Since Last Rain 1-5	Ponded Water Present? no	

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_CalTerracesNorth\_OtayMesaRdParcels

Page 2 of 2

VP\_ID: 1724

## 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name         Avena barbata - slender oat         Baccharis pilularis - coyotebrush         Baccharis salicifolia - mule-fat         Beta vulgaris - beet         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Commom ornamental shrub with pink flowers
Baccharis pilularis - coyotebrush Baccharis salicifolia - mule-fat Beta vulgaris - beet Bromus hordeaceus - soft brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle
Baccharis salicifolia - mule-fat Beta vulgaris - beet Bromus hordeaceus - soft brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle
Beta vulgaris - beet Bromus hordeaceus - soft brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle
Bromus hordeaceus - soft brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle
Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle
Centaurea melitensis - Maltese star-thistle
Commom ornamental shrub with pink nowers
Convolvulus simulans - field bindweed
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Dittrichia graveolens - stinkwort
Encelia californica - California brittlebush
Epilobium campestre - Smooth boisduvalia
Erigeron canadensis - Canada horseweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium cicutarium - redstem stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Festuca perennis - Italian rye grass
Glebionis coronaria - crown daisy
Hainardia cylindrica - Thin tail
Heteromeles arbutifolia - toyon
Hypochaeris glabra - smooth cat's ear
Lactuca serriola - prickly lettuce
Logfia gallica - narrowleaf cottonrose
Lysimachia arvensis - scarlet pimpernel
Lythrum hyssopifolia - hyssop loosestrife
Melilotus indica - annual yellow sweetclover
Polypogon monspeliensis - annual rabbitsfoot grass
Psilocarphus brevissimus - woolly marble
Rhus integrifolia - lemonade berry
Spergularia bocconi - sand spurry

Notes/Comments: None

# **Cal Terraces North**



Photo taken: 5/16/2019 Photo location is -117.00584036700, 32.56872004800 NAD83 State Plane California Zone 6 (feet)

Planning Unit: South Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: Yes

# VPHCP Qualitative Monitoring and Management Actions

anning Unit: South City or Other? City	Managing Department: Park_Recreation
aseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
ualitative Monitoring Data:	
<b>isit Date:</b> 1/7/2019 <b>Start Time:</b> 4:30:00	
urveyors: Jason Allen	
Site Conditions:	
Ponded Water: yes Days Since Last Rain: 1-5	
Listed Plants Visible? Wrong_Tim Listed Plant	ts:
New and Ongoing Issues Observed During Visit: Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs: Ongoing	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	, 0 · · · · · · · · · · · · · · · · ·
Are other issues observed is new or ongoing?	
releracommanded	
rolsrecommended Other Management Needs: Additional Management Actions Recommended: Notes: Weeds present East and South edges. High p	priority maintenance site.
Other Management Needs: Additional Management Actions Recommended:	priority maintenance site.
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds present East and South edges. High p Visit Date: 3/4/2019 Start Time: 8:30:00	5 Fairy Shrimp Visible? Present
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds present East and South edges. High p Visit Date: 3/4/2019 Start Time: 8:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit:	5 Fairy Shrimp Visible? Present ts:
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds present East and South edges. High p Visit Date: 3/4/2019 Start Time: 8:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Ongoing	5 Fairy Shrimp Visible? Present ts: Tresspass/Unauthorized Use:
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds present East and South edges. High p Visit Date: 3/4/2019 Start Time: 8:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs:	<ul> <li>Fairy Shrimp Visible? Present</li> <li>ts:</li> <li>Tresspass/Unauthorized Use:</li> <li>Fire or Damage from Fire Suppression:</li> </ul>
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds present East and South edges. High p Visit Date: 3/4/2019 Start Time: 8:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing	<ul> <li>Fairy Shrimp Visible? Present</li> <li>ts:</li> <li>Tresspass/Unauthorized Use:</li> <li>Fire or Damage from Fire Suppression:</li> <li>Damage from Edge Effects:</li> </ul>
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds present East and South edges. High p isit Date: 3/4/2019 Start Time: 8:30:00 urveyors: Jason Allen <u>Site Conditions:</u> Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant <u>New and Ongoing Issues Observed During Visit:</u> Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer:	<ul> <li>Fairy Shrimp Visible? Present</li> <li>ts:</li> <li>Tresspass/Unauthorized Use:</li> <li>Fire or Damage from Fire Suppression:</li> </ul>
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds present East and South edges. High p Tisit Date: 3/4/2019 Start Time: 8:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Other issues observed:	<ul> <li>Fairy Shrimp Visible? Present</li> <li>ts:</li> <li>Tresspass/Unauthorized Use:</li> <li>Fire or Damage from Fire Suppression:</li> <li>Damage from Edge Effects:</li> </ul>
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds present East and South edges. High p isit Date: 3/4/2019 Start Time: 8:30:00 urveyors: Jason Allen <u>Site Conditions:</u> Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant <u>New and Ongoing Issues Observed During Visit:</u> Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Other issues observed: Are other issues observed is new or ongoing?	5 Fairy Shrimp Visible? Present ts: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds present East and South edges. High p Tisit Date: 3/4/2019 Start Time: 8:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Other issues observed:	5 Fairy Shrimp Visible? Present ts: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds present East and South edges. High p Tisit Date: 3/4/2019 Start Time: 8:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,Sign_install,Trask	5 Fairy Shrimp Visible? Present ts: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: h_pickup,Regularpatrolsrecommended

# VPHCP Qualitative Monitoring and Management Actions

Complex Name: City_CalTerracesSouth	
Visit Date:         5/16/2019         Start Time:         22:30:00	
Surveyors: Jason Allen, Mark Berninger, Sara Allen, I	Diana Brand, Ninfa Negrete, Sarah McCutcheon
Site Conditions:	
Ponded Water: yes Days Since Last Rain:	1-5 Fairy Shrimp Visible? Wrong_T
Listed Plants Visible? Present Listed P	lants:
New and Ongoing Issues Observed During Visit:	
Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing	
Management Needs: Weedcontrol, Trash_pickup	p,Regularpatrolsrecommended
Other Management Needs:	
Additional Management Actions Recommended	: Continue weed control. Dittrichia graveolens and crystalline ice
	plant.
Notes:	
Ianagement Actions Completed:Date: 10/2/2018Completed by: Jason AllenContractor (if applicable)Management Actions Completed: Herbicide appli	ication to invasive species.
Date: 10/2/2018 Completed by: Jason Allen Contractor (if applicable) Management Actions Completed: Herbicide appli Notes/Comments:	
Date: 10/2/2018 Completed by: Jason Allen Contractor (if applicable) Management Actions Completed: Herbicide appli Notes/Comments: Date: 12/4/2018 Completed by: Araceli Domingue	
Date: 10/2/2018 Completed by: Jason Allen Contractor (if applicable) Management Actions Completed: Herbicide appli Notes/Comments: Date: 12/4/2018 Completed by: Araceli Domingue Contractor (if applicable)	22
Date: 10/2/2018 Completed by: Jason Allen Contractor (if applicable) Management Actions Completed: Herbicide appli Notes/Comments: Date: 12/4/2018 Completed by: Araceli Domingue Contractor (if applicable) Management Actions Completed: Trash and debr	
Date: 10/2/2018 Completed by: Jason Allen Contractor (if applicable) Management Actions Completed: Herbicide appli Notes/Comments: Date: 12/4/2018 Completed by: Araceli Domingue Contractor (if applicable)	22
Date: 10/2/2018 Completed by: Jason Allen Contractor (if applicable) Management Actions Completed: Herbicide appli Notes/Comments: Date: 12/4/2018 Completed by: Araceli Domingue Contractor (if applicable) Management Actions Completed: Trash and debr Notes/Comments:	ez ris cleaned up. Reported vandalize fence and took pictures.
Date: 10/2/2018       Completed by: Jason Allen         Contractor (if applicable)       Management Actions Completed: Herbicide applie         Notes/Comments:       Notes/Comments:         Date: 12/4/2018       Completed by: Araceli Domingue         Contractor (if applicable)       Management Actions Completed: Trash and debr         Notes/Comments:       Notes/Comments:         Date: 2/11/2019       Completed by: Jason Allen, Scott	ez ris cleaned up. Reported vandalize fence and took pictures.
Date: 10/2/2018       Completed by: Jason Allen         Contractor (if applicable)       Management Actions Completed: Herbicide applie         Notes/Comments:       Notes/Comments:         Date: 12/4/2018       Completed by: Araceli Domingue         Contractor (if applicable)       Management Actions Completed: Trash and debr         Notes/Comments:       Notes/Comments:         Date: 2/11/2019       Completed by: Jason Allen, Scott         Contractor (if applicable)       Completed by: Jason Allen, Scott         Contractor (if applicable)       Completed by: Jason Allen, Scott	ez ris cleaned up. Reported vandalize fence and took pictures.
Date: 10/2/2018       Completed by: Jason Allen         Contractor (if applicable)       Management Actions Completed: Herbicide applie         Notes/Comments:       Notes/Comments:         Date: 12/4/2018       Completed by: Araceli Domingue         Contractor (if applicable)       Management Actions Completed: Trash and debr         Notes/Comments:       Notes/Comments:         Date: 2/11/2019       Completed by: Jason Allen, Scott         Contractor (if applicable)       Management Actions Completed by: Jason Allen, Scott         Date: 2/11/2019       Completed by: Jason Allen, Scott         Management Actions Completed: Herbicide applicable       Management Actions Completed: Herbicide applicable	ez ris cleaned up. Reported vandalize fence and took pictures.
Date: 10/2/2018       Completed by: Jason Allen         Contractor (if applicable)       Management Actions Completed: Herbicide applie         Notes/Comments:       Notes/Comments:         Date: 12/4/2018       Completed by: Araceli Domingue         Contractor (if applicable)       Management Actions Completed: Trash and debr         Notes/Comments:       Notes/Comments:         Date: 2/11/2019       Completed by: Jason Allen, Scott         Contractor (if applicable)       Completed by: Jason Allen, Scott         Contractor (if applicable)       Completed by: Jason Allen, Scott	ez ris cleaned up. Reported vandalize fence and took pictures.
Date: 10/2/2018       Completed by: Jason Allen         Contractor (if applicable)       Management Actions Completed: Herbicide applie         Notes/Comments:       Notes/Comments:         Date: 12/4/2018       Completed by: Araceli Domingue         Contractor (if applicable)       Management Actions Completed: Trash and debr         Notes/Comments:       Notes/Comments:         Date: 2/11/2019       Completed by: Jason Allen, Scott         Contractor (if applicable)       Management Actions Completed by: Jason Allen, Scott         Date: 2/11/2019       Completed by: Jason Allen, Scott         Management Actions Completed: Herbicide applicable       Management Actions Completed: Herbicide applicable	ez ris cleaned up. Reported vandalize fence and took pictures.
Date: 10/2/2018 Completed by: Jason Allen Contractor (if applicable) Management Actions Completed: Herbicide appli Notes/Comments: Date: 12/4/2018 Completed by: Araceli Domingue Contractor (if applicable) Management Actions Completed: Trash and debr Notes/Comments: Date: 2/11/2019 Completed by: Jason Allen, Scott Contractor (if applicable) Management Actions Completed: Herbicide appli Notes/Comments:	ez ris cleaned up. Reported vandalize fence and took pictures. s Seyfried, Moises Vasquez ication to invasive species.
Date: 10/2/2018       Completed by: Jason Allen         Contractor (if applicable)       Management Actions Completed: Herbicide appli         Notes/Comments:       Notes/Comments:         Date: 12/4/2018       Completed by: Araceli Domingue         Contractor (if applicable)       Management Actions Completed: Trash and debr         Notes/Comments:       Notes/Comments:         Date: 2/11/2019       Completed by: Jason Allen, Scott         Contractor (if applicable)       Management Actions Completed: Herbicide appli         Notes/Comments:       Notes/Comments:         Date: 2/11/2019       Completed by: Jason Allen, Scott         Contractor (if applicable)       Management Actions Completed: Herbicide appli         Notes/Comments:       Notes/Comments:         Date: 2/25/2019       Completed by: Jason Allen, Scott	ez ris cleaned up. Reported vandalize fence and took pictures. s Seyfried, Moises Vasquez ication to invasive species.
Date: 10/2/2018       Completed by: Jason Allen         Contractor (if applicable)       Management Actions Completed: Herbicide appli         Notes/Comments:       Notes/Comments:         Date: 12/4/2018       Completed by: Araceli Domingue         Contractor (if applicable)       Management Actions Completed: Trash and debr         Notes/Comments:       Notes/Comments:         Date: 2/11/2019       Completed by: Jason Allen, Scott         Contractor (if applicable)       Management Actions Completed: Herbicide appli         Nate: 2/11/2019       Completed by: Jason Allen, Scott         Contractor (if applicable)       Management Actions Completed: Herbicide appli         Notes/Comments:       Notes/Comments:         Date: 2/25/2019       Completed by: Jason Allen, Scott         Contractor (if applicable)       Management Actions Completed by: Jason Allen, Scott         Contractor (if applicable)       Notes/Comments:	P2 ris cleaned up. Reported vandalize fence and took pictures. Seyfried, Moises Vasquez ication to invasive species. Seyfried, Moises Vasquez
Date: 10/2/2018       Completed by: Jason Allen         Contractor (if applicable)       Management Actions Completed: Herbicide appli         Notes/Comments:       Notes/Comments:         Date: 12/4/2018       Completed by: Araceli Domingue         Contractor (if applicable)       Management Actions Completed: Trash and debr         Notes/Comments:       Notes/Comments:         Date: 2/11/2019       Completed by: Jason Allen, Scott         Contractor (if applicable)       Management Actions Completed: Herbicide appli         Notes/Comments:       Notes/Comments:         Date: 2/11/2019       Completed by: Jason Allen, Scott         Contractor (if applicable)       Management Actions Completed: Herbicide appli         Notes/Comments:       Notes/Comments:         Date: 2/25/2019       Completed by: Jason Allen, Scott	P2 ris cleaned up. Reported vandalize fence and took pictures. Seyfried, Moises Vasquez ication to invasive species. Seyfried, Moises Vasquez

# VPHCP Qualitative Monitoring and Management Actions

Complex Name:       City_CalTerracesSouth         Date:       4/19/2019       Completed by: Jason Allen         Contractor (if applicable)       Management Actions Completed: Pickup trash, apply herbicide to invasive plants and install 3 signs.         Notes/Comments:       Notes/Comments:         Date:       6/17/2019       Completed by: Scott Seyfried         Contractor (if applicable)       Management Actions Completed: Herbicide application to invasive species.         Notes/Comments:       Notes/Comments:         Date:       6/24/2019       Completed by: Jason Allen, Scott Seyfried, Moises Vasquez         Contractor (if applicable)       Management Actions Completed: Herbicide application to invasive species.         Notes/Comments:       Notes/Comments:         Date:       6/24/2019       Completed by: Jason Allen, Scott Seyfried, Moises Vasquez         Contractor (if applicable)       Management Actions Completed: Herbicide application to invasive species.         Management Actions Completed:       Herbicide application to invasive species.         Notes/Comments:       Notes/Comments:	Year: 2019	
Contractor (if applicable) Management Actions Completed: Pickup trash, apply herbicide to invasive plants and install 3 signs. Notes/Comments: Date: 6/17/2019 Completed by: Scott Seyfried Contractor (if applicable) Management Actions Completed: Herbicide application to invasive species. Notes/Comments:	Complex Name: City	CalTerracesSouth
Contractor (if applicable) Management Actions Completed: Pickup trash, apply herbicide to invasive plants and install 3 signs. Notes/Comments: Date: 6/17/2019 Completed by: Scott Seyfried Contractor (if applicable) Management Actions Completed: Herbicide application to invasive species. Notes/Comments:		
Management Actions Completed: Pickup trash, apply herbicide to invasive plants and install 3 signs. Notes/Comments: Date: 6/17/2019 Completed by: Scott Seyfried Contractor (if applicable) Management Actions Completed: Herbicide application to invasive species. Notes/Comments: Date: 6/24/2019 Completed by: Jason Allen, Scott Seyfried, Moises Vasquez Contractor (if applicable) Management Actions Completed: Herbicide application to invasive species.	Date: 4/19/2019 Com	pleted by: Jason Allen
Notes/Comments: Date: 6/17/2019 Completed by: Scott Seyfried Contractor (if applicable) Management Actions Completed: Herbicide application to invasive species. Notes/Comments: Date: 6/24/2019 Completed by: Jason Allen, Scott Seyfried, Moises Vasquez Contractor (if applicable) Management Actions Completed: Herbicide application to invasive species.	Contractor (if applica	ble)
Date: 6/17/2019 Completed by: Scott Seyfried Contractor (if applicable) Management Actions Completed: Herbicide application to invasive species. Notes/Comments: Date: 6/24/2019 Completed by: Jason Allen, Scott Seyfried, Moises Vasquez Contractor (if applicable) Management Actions Completed: Herbicide application to invasive species.	Management Actions	<b>Completed:</b> Pickup trash, apply herbicide to invasive plants and install 3 signs.
Contractor (if applicable) Management Actions Completed: Herbicide application to invasive species. Notes/Comments: Date: 6/24/2019 Completed by: Jason Allen, Scott Seyfried, Moises Vasquez Contractor (if applicable) Management Actions Completed: Herbicide application to invasive species.	Notes/Comments:	
Management Actions Completed: Herbicide application to invasive species. Notes/Comments: Date: 6/24/2019 Completed by: Jason Allen, Scott Seyfried, Moises Vasquez Contractor (if applicable) Management Actions Completed: Herbicide application to invasive species.		
Notes/Comments: Date: 6/24/2019 Completed by: Jason Allen, Scott Seyfried, Moises Vasquez Contractor (if applicable) Management Actions Completed: Herbicide application to invasive species.		
Contractor (if applicable) Management Actions Completed: Herbicide application to invasive species.		
Contractor (if applicable) Management Actions Completed: Herbicide application to invasive species.		
Management Actions Completed: Herbicide application to invasive species.		
Notes/Comments:		
	Notes/Comments:	

**Qualitative Management Monitoring Photos** 



- Photo taken: 9/25/2018
- Photo description: Invasive plants stinkwort (*Dittrichia graveolens*) present in vernal pool complex.



- Photo taken: 11/27/2018
- Photo description: Invasive plants stinkwort (*Dittrichia graveolens*) dead from previous herbicide application.

**Qualitative Management Monitoring Photos** 



- Photo taken: 1/7/2019
- Photo description: Fence broken.



- Photo taken: 1/7/2019
- Photo description: Trash/debris onsite.

# **Qualitative Management Monitoring Photos**



- Photo taken: 1/10/2019
- Photo description: Dead vegetation and algae bloom in vernal pool.



- Photo taken: 2/3/2019
- Photo description: After more rain algae bloom was flushed out. Dead vegetation present.

**Qualitative Management Monitoring Photos** 



- Photo taken: 4/15/2019
- Photo description: Invasive plants around vernal pool.



- Photo taken: 4/19/2019
- Photo description: Herbicide application to invasive plants in vernal pool complex.

# **Qualitative Management Monitoring Photos**



- Photo taken: 4/19/2019
- Photo description: Regulatory sign installation directed towards adjacent property that throws trash into vernal pool complex.
- Photo taken: 6/24/2019
- Photo description: Herbicide application to invasive plants in vernal pool complex watershed.

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesSou	th	VP_ID: 2022
Photopoint X: -117.00117072000	Photopoint Y: 32.56694358220	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 1.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 1.0	
2019 Quantitative Monitoring Data		
Survey Date 5/16/2019	Survey Start Time: 12:19 PM	Survey End Time: 12:47 PM
Surveyors: Sara Alen, Sarah McCutch	neon	
VPHCP Covered Species Present: ER	AR	
Cover of ERAR in Basin 25-50%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Species N	ame	Cover
Deschampsia danthonioid	es - annual hairgrass	<1%
Eleocharis macrostachya	- common spikerush	25-50%
Navarretia hamata - hool	ked pincushionplant	<1%
Psilocarphus brevissim	us - woolly marble	1-5%
Cover of Other Native Species in Bas	in 25-50% Native Species Richr	ess in Basin: 5
Nonnative Species in Pool		
Species N	ame	Cover
Bromus hordeaceu	s - soft brome	<1%
Lythrum hyssopifolia - I	nyssop loosestrife	<1%
Polypogon monspeliensis - a	nnual rabbitsfoot grass	5-10%
Cover of Nonnative Species in Basin:	5-10% Nonnative Species	Richness in Basin: 3
Bare Ground Cover in Basin 10-25%	Cover of Rocks/Cobble in Basin:	10-25% Cover of Litter in Basin: <1%
Days Since Last Rain 1-5	Ponded Water Present? no	
Dead Species Present in Pool: None		

Survey Year:	2019		
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Complex Name: City\_CalTerracesSouth

Page 2 of 2

VP\_ID: 2022

## 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Antirrhinum nuttallianum - Nuttall's snapdragon
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Deinandra conjugens - Otay tarplant
Dittrichia graveolens - stinkwort
Encelia californica - California brittlebush
Epilobium campestre - Smooth boisduvalia
Eriogonum fasciculatum - Eastern Mojave buckwheat
Eryngium aristulatum var. parishii - San Diego button celery
Euphorbia misera - Cliff spurge
Festuca myuros - rattail sixweeks grass
Glebionis coronaria - crown daisy
Helminthotheca echioides - bristly oxtongue
Juncus bufonius - toad rush
Lasthenia gracilis - needle goldfields
Logfia gallica - narrowleaf cottonrose
Lycium andersonii - Anderson thornbush
Lythrum hyssopifolia - hyssop loosestrife
Malosma laurina - laurel sumac
Matricaria discoidea - pineapple weed
Navarretia hamata - hooked pincushionplant
Phacelia cicutaria - caterpillar phacelia
Polypogon monspeliensis - annual rabbitsfoot grass
Pseudognaphalium stramineum - cottonbatting plant
Psilocarphus brevissimus - woolly marble
Rhus integrifolia - lemonade berry
Rosa minutifolia - small-leaved rose
Simmondsia chinensis - jojoba
Sisyrinchium bellum - Western blue-eyed grass
Sonchus asper - spiny sowthistle
Stipa lepida - foothill needlegrass
Urtica dioica - stinging nettle
Zeltnera venusta - charming centaury

Notes/Comments: None



Photo taken: 5/16/2019 Photo location is -117.00117072000, 32.56694358220 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesSouth		VP_ID: 2025
Photopoint X: -116.99933810400	Photopoint Y: 32.56666046540	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 3.0	Baseline Cover of NAFO: 0.5	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 5.0	
2019 Quantitative Monitoring Data	l	
Survey Date 5/16/2019	Survey Start Time: 12:25 PM	Survey End Time: 2:00 PM
Surveyors: Jason Allen		
VPHCP Covered Species Present:	PONU,ERAR	
Cover of ERAR in Basin 5-10%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin <19	%
Other Native Species in Pool:		
Species	s Name	Cover
Amaranthu	us blitoides	<1%
Amblyopap	pus pusillus	<1%
Baccharis sarothro	ides - desertbroom	<1%
Callitriche marginata - C	alifornia water starwort	5-10%
Deinandra fasciculata	a - clustered tarweed	1-5%
Deschampsia danthoni	oides - annual hairgrass	<1%
Eleocharis macrostach	ya - common spikerush	5-10%
Epilobium	campestre	<1%
Erigeron canadensis	- Canada horseweed	<1%
Frankenia salina	- alkali seaheath	<1%
Juncus bufoni	us - toad rush	1-5%
Myosurus minimu	s - little mouse tail	<1%
Navarretia hamata - he	ooked pincushionplant	<1%
Psilocarphus brevissi	mus - woolly marble	5-10%

**Cover of Other Native Species in Basin** 25-50% Native Species Richness in Basin: 15

#### **Nonnative Species in Pool**

Species Name	Cover
Brassica nigra - black mustard	<1%
Bromus madritensis - compact brome	<1%
Festuca myuros - rattail sixweeks grass	1-5%
Lythrum hyssopifolia - hyssop loosestrife	<1%
Polypogon monspeliensis - annual rabbitsfoot grass	1-5%
Rumex crispus - curly dock	<1%
Sonchus asper - spiny sowthistle	<1%

**Cover of Nonnative Species in Basin:** 5-10%

Nonnative Species Richness in Basin: 7

Bare Ground Cover in Basin 25-50% Cover of Rocks/Cobble in Basin: 10-25% Cover of Litter in Basin: 1-5%

Dead Species Present in Pool: Brassica nigra, Dittrichia graveolens, Salsola tragus

**Days Since Last Rain** 1-5

Ponded Water Present? no

Page 125

Survey Year: 2019

Complex Name: City\_CalTerracesSouth

Page 2 of 2

VP\_ID: 2025

## 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Spacia: Nama
Species Name Amaranthus blitoides - Prostrate pigweed
Ambrosia chenopodiifolia - San Diego bur ragweed
Ambrosia cheropodinolia - san Diego bur ragweed Amsinckia sp.
•
Artemisia californica - coastal sagebrush
Atriplex semibaccata - Australian saltbush
Bahiopsis laciniata - torhleaf goldeneye
Bergerocactus emoryi - Golden spined cereus
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Deschampsia danthonioides - annual hairgrass
Dittrichia graveolens - Stinkwort
Dudleya edulis - fingertips
Dudleya pulverulenta - chalk dudleya
Eleocharis macrostachya - common spikerush
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium cicutarium - redstem stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Frankenia salina - alkali seaheath
Glebionis coronaria - crown daisy
Hypochaeris glabra - smooth cat's ear
Juncus bufonius - toad rush
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Malosma laurina - laurel sumac
Marsilea vestita - Hairy waterclover
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Navarretia fossalis - Spreading navarretia
Navarretia hamata - hooked pincushionplant
Oncosiphon piluliferum - stinknet
Pogogyne nudiuscula - Otay mesa mint
Polypogon monspeliensis - annual rabbitsfoot grass
Pseudognaphalium stramineum - cottonbatting plant
Psilocarphus brevissimus - woolly marble
Rhus integrifolia - lemonade berry
Salsola tragus - prickly Russian thistle
Schismus barbatus - common Mediterranean grass
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Unknown - herb



Photo taken: 5/16/2019 Photo location is -116.99933810400, 32.56666046540 NAD83 State Plane California Zone 6 (feet)

urvey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesSou	uth	VP_ID: 2039
Photopoint X: -117.00093555400	Photopoint Y: 32.56649483220	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 15.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 1.0	
2019 Quantitative Monitoring Data		
Survey Date 5/16/2019	Survey Start Time: 1:01 PM	Survey End Time: 1:36 PM
Surveyors: Sara Allen, Sarah McCuto	cheon	
VPHCP Covered Species Present: PC	DNU,ERAR,NAFO	
Cover of ERAR in Basin 10-25%	Cover of NAFO in Basin: <1%	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin 25-50	0%
Other Native Species in Pool:		
Species N	lame	Cover
Callitriche marginata - Cal	ifornia water starwort	<1%
Deinandra fasciculata -	clustered tarweed	1-5%
Deschampsia danthonioid	des - annual hairgrass	<1%
Navarretia hamata - hoo	ked pincushionplant	<1%
Psilocarphus brevissim	us - woolly marble	5-10%
Cover of Other Native Species in Bas	sin 10-25% Native Species Richn	ess in Basin: 7
Nonnative Species in Pool		
Species N	lame	Cover
Bromus hordeaceu	ıs - soft brome	<1%
Festuca myuros - ratta	ail sixweeks grass	<1%
Lysimachia arvensis -	_	<1%
Matricaria discoidea	pineapple weed	<1%
Sonchus asper - sp		<1%

Days Since Last Rain 1-5

Ponded Water Present? no Dead Species Present in Pool: Unknown dead shrubs

Page 128

Complex Name: City\_CalTerracesSouth

Page 2 of 2

VP\_ID: 2039

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Apiastrum angustifolium - mock parsley
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Dichelostemma capitatum - bluedicks
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium cicutarium - redstem stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Euphorbia misera - Cliff spurge
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Grindelia camporum - gumweed
Logfia gallica - narrowleaf cottonrose
Lycium andersonii - Anderson thornbush
Matricaria discoidea - pineapple weed
Navarretia hamata - hooked pincushionplant
Peritoma arborea - bladderpod spiderflower
Plantago erecta - California plantain
Pseudognaphalium stramineum - cottonbatting plant
Psilocarphus brevissimus - woolly marble
Schismus barbatus - common Mediterranean grass
Selaginella cinerascens - mesa spikemoss
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Stipa lepida - foothill needlegrass
Unknown - grass

Notes/Comments: Dittrichia was 1-5% cover



Photo taken: 5/16/2019 Photo location is -117.00093555400, 32.56649483220 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesSo	uth	VP_ID: 2043
Photopoint X: -116.99984533700	Photopoint Y: 32.56626511550	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 0.5	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.5	
2019 Quantitative Monitoring Data		
Survey Date 7/10/2019	Survey Start Time: 3:31 PM	Survey End Time: 3:56 PM
Surveyors: Jason Allen, Diana Brand	d Ramirez, Jessie Lane	
VPHCP Covered Species Present: El	RAR	
Cover of ERAR in Basin 1-5%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Species	Name	Cover
Amblyopapp	us pusillus	<1%
Callitriche marginata - Ca	lifornia water starwort	5-10%
Deinandra fasciculata	- clustered tarweed	<1%
Eleocharis macrostachya	a - common spikerush	<1%
Encelia californica - Ca	llifornia brittlebush	<1%
Epilobium ca	ampestre	<1%
Eriogonum fasciculatum - Ea	stern Mojave buckwheat	<1%
Euphorbia se	erpillifolia	<1%
Heliotropium curassavi	cum - salt heliotrope	<1%
Juncus bufoniu	s - toad rush	<1%
Marsilea	vestita	<1%
Navarretia hamata - hoo	oked pincushionplant	<1%
Psilocarphus brevissin	nus - woolly marble	<1%
Verbena bi	racteata	<1%

Cover of Other Native Species in Basin 5-10% Native Species Richness in Basin: 15

#### **Nonnative Species in Pool**

Species Name	Cover
Lythrum hyssopifolia - hyssop loosestrife	<1%
Sonchus asper - spiny sowthistle	<1%

Cover of Nonnative Species in Basin: <1% Nonnative Species Richness in Basin: 2

Bare Ground Cover in Basin 50-75% Cover of Rocks/Cobble in Basin: 25-50% Cover of Litter in Basin: <1%

Days Since Last Rain >16

Ponded Water Present? no

Dead Species Present in Pool: None

Complex Name: City\_CalTerracesSouth

Page 2 of 2

VP\_ID: 2043

## 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name Ambrosia chenopodiifolia - San Diego bur ragweed Artemisia californica - coastal sagebrush Astragalus trichopodus - Santa Barbara milkvetch Bahiopsis laciniata - torhleaf goldeneye Bromus madritensis - compact brome Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Deinandra conjugens - Otay tarplant Deinandra fasciculata - clustered tarweed Dittrichia graveolens - Stinkwort Dudleya edulis - fingertips Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Heliotropium curassavicum - salt heliotrope Juncus bufonius - toad rush Lamarckia aurea - goldentop grass Logfia gallica - narrowleaf cottonrose Malosma laurina - laurel sumac Mammillaria dioica - fish hook cactus Mesembryanthemum nodiflorum - slender leaved ice plant Muhlenbergia rigens - deergrass
Artemisia californica - coastal sagebrushAstragalus trichopodus - Santa Barbara milkvetchBahiopsis laciniata - torhleaf goldeneyeBromus madritensis - compact bromeCrassula connata - sand pygmyweedCylindropuntia prolifera - coastal chollaDeinandra fasciculata - clustered tarweedDittrichia graveolens - StinkwortDudleya edulis - fingertipsEncelia californica - California brittlebushFerocactus viridescens - San Diego barrel cactusFerocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassHeliotropium curassavicum - salt heliotropeJuncus bufonius - toat yangLogfia gallica - narrowleaf cottorroseMalosma laurina - laurel sumacMammillaria dioica - fish hook cactusMesembryanthemum nodiflorum - slender leaved ice plantMuhlenbergia rigens - deergrass
Astragalus trichopodus - Santa Barbara milkvetchBahiopsis laciniata - torhleaf goldeneyeBromus madritensis - compact bromeCrassula connata - sand pygmyweedCylindropuntia prolifera - coastal chollaDeinandra conjugens - Otay tarplantDeinandra fasciculata - clustered tarweedDittrichia graveolens - StinkwortDudleya edulis - fingertipsEncelia californica - California brittlebushFerocactus viridescens - San Diego barrel cactusFerocactus viridescens - San Diego barrel cactusHeliotropium curassavicum - salt heliotropeJuncus bufonius - toad rushLamarckia aurea - goldentop grassLogfia gallica - narrowleaf cottonroseMahosma laurina - laurel sumacMammillaria dioica - fish hook cactusMesembryanthemum nodiflorum - slender leaved ice plantMuhlenbergia rigens - deergrass
Bahiopsis laciniata - torhleaf goldeneye Bromus madritensis - compact brome Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Deinandra conjugens - Otay tarplant Deinandra fasciculata - clustered tarweed Dittrichia graveolens - Stinkwort Dudleya edulis - fingertips Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Heliotropium curassavicum - salt heliotrope Juncus bufonius - toad rush Lamarckia aurea - goldentop grass Logfia gallica - narrowleaf cottonrose Malosma laurina - laurel sumac Mamillaria dioica - fish hook cactus Mesembryanthemum nodiflorum - slender leaved ice plant Muhlenbergia rigens - deergrass
Bromus madritensis - compact brome Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Deinandra conjugens - Otay tarplant Deinandra fasciculata - clustered tarweed Dittrichia graveolens - Stinkwort Dudleya edulis - fingertips Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Heliotropium curassavicum - salt heliotrope Juncus bufonius - toad rush Lamarckia aurea - goldentop grass Logfia gallica - narrowleaf cottonrose Malosma laurina - laurel sumac Mammillaria dioica - fish hook cactus Mesembryanthemum nodiflorum - slender leaved ice plant Muhlenbergia rigens - deergrass
Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Deinandra conjugens - Otay tarplant Deinandra fasciculata - clustered tarweed Dittrichia graveolens - Stinkwort Dudleya edulis - fingertips Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Heliotropium curassavicum - salt heliotrope Juncus bufonius - toad rush Lamarckia aurea - goldentop grass Logfia gallica - narrowleaf cottonrose Malosma laurina - laurel sumac Mamillaria dioica - fish hook cactus Mesembryanthemum nodiflorum - slender leaved ice plant Muhlenbergia rigens - deergrass
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Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Heliotropium curassavicum - salt heliotrope Juncus bufonius - toad rush Lamarckia aurea - goldentop grass Logfia gallica - narrowleaf cottonrose Malosma laurina - laurel sumac Mammillaria dioica - fish hook cactus Mesembryanthemum nodiflorum - slender leaved ice plant Muhlenbergia rigens - deergrass
Eriogonum fasciculatum - Eastern Mojave buckwheat Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Heliotropium curassavicum - salt heliotrope Juncus bufonius - toad rush Lamarckia aurea - goldentop grass Logfia gallica - narrowleaf cottonrose Malosma laurina - laurel sumac Mammillaria dioica - fish hook cactus Mesembryanthemum nodiflorum - slender leaved ice plant Muhlenbergia rigens - deergrass
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Festuca myuros - rattail sixweeks grassHeliotropium curassavicum - salt heliotropeJuncus bufonius - toad rushLamarckia aurea - goldentop grassLogfia gallica - narrowleaf cottonroseMalosma laurina - laurel sumacMammillaria dioica - fish hook cactusMesembryanthemum nodiflorum - slender leaved ice plantMuhlenbergia rigens - deergrass
Heliotropium curassavicum - salt heliotrope         Juncus bufonius - toad rush         Lamarckia aurea - goldentop grass         Logfia gallica - narrowleaf cottonrose         Malosma laurina - laurel sumac         Mammillaria dioica - fish hook cactus         Mesembryanthemum nodiflorum - slender leaved ice plant         Muhlenbergia rigens - deergrass
Juncus bufonius - toad rush Lamarckia aurea - goldentop grass Logfia gallica - narrowleaf cottonrose Malosma laurina - laurel sumac Mammillaria dioica - fish hook cactus Mesembryanthemum nodiflorum - slender leaved ice plant Muhlenbergia rigens - deergrass
Lamarckia aurea - goldentop grass Logfia gallica - narrowleaf cottonrose Malosma laurina - laurel sumac Mammillaria dioica - fish hook cactus Mesembryanthemum nodiflorum - slender leaved ice plant Muhlenbergia rigens - deergrass
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Mesembryanthemum nodiflorum - slender leaved ice plant Muhlenbergia rigens - deergrass
Muhlenbergia rigens - deergrass
Navarratia hamata haakad ningushianalant
Navarretia hamata - hooked pincushionplant
Opuntia littoralis - coastal pricklypear
Peritoma arborea - bladderpod spiderflower
Psilocarphus brevissimus - woolly marble
Rhus integrifolia - lemonade berry
Salsola tragus - prickly Russian thistle
Salvia apiana - white sage
Selaginella cinerascens - mesa spikemoss
Simmondsia chinensis - jojoba
Yucca schidigera - Mojave yucca

Notes/Comments: None



Photo taken: 7/10/19 Photo location is -116.99984533700, 32.56626511550 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerracesSou	uth	VP_ID: 2044
Photopoint X: -117.00053600400	Photopoint Y: 32.56626913220	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 20.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 5.0	
2019 Quantitative Monitoring Data		
Survey Date 5/16/2019	Survey Start Time: 1:53 PM	Survey End Time: 2:23 PM
Surveyors: Sara Allen, Sarah McCuto	cheon	
VPHCP Covered Species Present: PC	DNU,ERAR,NAFO	
Cover of ERAR in Basin 10-25%	Cover of NAFO in Basin: <1%	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin 1-5%	
Other Native Species in Pool:		
Species N	lame	Cover
Callitriche marginata - Cal	ifornia water starwort	1-5%
Crassula aquatica - Aq	uatic pygmy weed	<1%
Deinandra fasciculata - clustered tarweed		1-5%
Deschampsia danthonioides - annual hairgrass		<1%
Eleocharis macrostachya - common spikerush		1-5%
Myosurus minimus -		<1%
Navarretia hamata - hoo	ked pincushionplant	<1%
Psilocarphus brevissim	us - woolly marble	5-10%

Cover of Other Native Species in Basin 10-25% Native Species Richness in Basin: 10

Dead Species Present in Pool: Artemesia californica, unknown shrub

#### **Nonnative Species in Pool**

Species Name	Cover
Festuca myuros - rattail sixweeks grass	<1%

**Cover of Nonnative Species in Basin:** <1% Nonnative Species Richness in Basin: 1 Bare Ground Cover in Basin <1% **Cover of Rocks/Cobble in Basin:** 1-5% **Cover of Litter in Basin:** <1%

Days Since Last Rain 1-5

Ponded Water Present? no

Survey Year: 2019

Complex Name: City\_CalTerracesSouth

Page 2 of 2

VP\_ID: 2044

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Camissoniopsis bistorta - southern suncup
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cryptantha sp cryptantha
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Dichelostemma capitatum - bluedicks
Dittrichia graveolens - stinkwort
Encelia californica - California brittlebush
Erigeron canadensis - Canada horseweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Eryngium aristulatum var. parishii - San Diego button celery
Euphorbia misera - Cliff spurge
Logfia gallica - narrowleaf cottonrose
Lycium andersonii - Anderson thornbush
Matricaria discoidea - pineapple weed
Navarretia hamata - hooked pincushionplant
Peritoma arborea - bladderpod spiderflower
Pseudognaphalium stramineum - cottonbatting plant
Psilocarphus brevissimus - woolly marble
Selaginella cinerascens - mesa spikemoss
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Stipa lepida - foothill needlegrass
Yucca schidigera - Mojave yucca
Zeltnera venusta - charming centaury

**Notes/Comments:** Dittrichia is 1-5% cover



Photo taken: 5/16/2019 Photo location is -117.00053600400, 32.56626913220 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_CalTerrace	sSouth	VP_ID: 2185
Photopoint X: -116.99967038700	Photopoint Y: 32.56789064870	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 1.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 60.0	
2019 Quantitative Monitoring Da	ta	
Survey Date 5/16/2019	Survey Start Time: 12:23 PM	Survey End Time:
Surveyors: Mark Berninger, Diar	a Brand Ramirez	
VPHCP Covered Species Present	PONU,ERAR	
Cover of ERAR in Basin 1-5%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin 25-50	0%
Other Native Species in Pool:		
Speci	es Name	Cover
Callitriche marginata -	California water starwort	1-5%
Deinandra fascicula	ta - clustered tarweed	<1%
Deschampsia danthonioides - annual hairgrass		<1%
Eleocharis macrostachya - common spikerush		1-5%
Epilobiur	n campestre	<1%
Juncus bufo	nius - toad rush	1-5%
		1-5%
Navarretia hamata -	hooked pincushionplant	1-5%

#### **Nonnative Species in Pool**

Species Name	Cover
Centaurea melitensis - Maltese star-thistle	<1%
Erigeron sumatrensis - tropical horseweed	<1%
Lysimachia arvensis - scarlet pimpernel	<1%
Unknown mustard	<1%

Cover of Nonnative Species in Basin: <1% Nonnative Species Richness in Basin: 4

Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: 5-10%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

**Cover of Litter in Basin:** <1%

Survey	y Year:	2019
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Complex Name: City\_CalTerracesSouth

Page 2 of 2

VP\_ID: 2185

## 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Amblyopappus pusillus - Pineapple weed
Ambrosia chenopodiifolia - San Diego bur ragweed
Apiastrum angustifolium - mock parsley
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Centaurea melitensis - Maltese star-thistle
Cotula coronopifolia - common brassbuttons
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Deschampsia danthonioides - annual hairgrass
Encelia californica - California brittlebush
Erigeron sumatrensis - tropical horseweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Eryngium aristulatum var. parishii - San Diego button celery
Euphorbia misera - Cliff spurge
Festuca myuros - rattail sixweeks grass
Frankenia salina - alkali seaheath
Glebionis coronaria - crown daisy
Grindelia camporum - gumweed
Helminthotheca echioides - bristly oxtongue
Juncus bufonius - toad rush
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Lythrum hyssopifolia - hyssop loosestrife
Malacothamnus densiflorus - many-flowered bush mallow
Malosma laurina - laurel sumac
Malvella leprosa - alkali mallow
Mesembryanthemum nodiflorum - slender leaved ice plant
Navarretia hamata - hooked pincushionplant
Osmadenia tenella - false rosinweed
Peritoma arborea - bladderpod spiderflower
Phalaris minor - littleseed canarygrass
Plantago erecta - California plantain
Pogogyne nudiuscula - Otay mesa mint
Pseudognaphalium beneolens - cudweed
Psilocarphus tenellus - short woollyheads
Salvia apiana - white sage
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Yucca schidigera - Mojave yucca

Notes/Comments: None



Photo taken: 5/16/2019 Photo location is -116.99967038700, 32.56789064870 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019			Page 1 of 2
Complex Name: City_CalTerracesSo	uth		<b>VP_ID: 2189</b>
Photopoint X: -116.99998868700	Photopoint Y: 32.5674480	08210	Photopoint Established: 2018
2003 Baseline Survey Data			
Baseline Cover of ERAR: 0.5	Baseline Cover of NAFO:	0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU:	5.0	
2019 Quantitative Monitoring Data			
Survey Date 5/16/2019	Survey Start Time: 1:58	3 PM	Survey End Time: 2:48 PM
Surveyors: Mark Berninger, Diana B	rand Ramirez		
VPHCP Covered Species Present: PC	DNU,NAFO,ERAR		
Cover of ERAR in Basin <1%	Cover of NAFO in Bas	<b>in:</b> <1%	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Bas	<b>in</b> 1-5%	
Other Native Species in Pool:			
Species N	lame		Cover
Crassula aquatica - Aq	uatic pygmy weed		1-5%
Cylindropuntia prolife	era - coastal cholla		<1%
Deinandra fasciculata -	clustered tarweed		5-10%
Eleocharis macrostachya	<ul> <li>common spikerush</li> </ul>		<1%
Epilobium ca	ampestre		1-5%
Eriogonum fasciculatum - Ea	stern Mojave buckwheat		<1%
Frankenia salina - a	alkali seaheath		<1%
Juncus bufonius	s - toad rush		<1%
Navarretia hamata - hoo	ked pincushionplant		<1%
Plantago elongata - ani	nual coast plantago		<1%
Plantago erecta - Ca			<1%
Psilocarphus brevissim	us - woolly marble		10-25%

Cover of Other Native Species in Basin 25-50% Native Species Richness in Basin: 13

#### **Nonnative Species in Pool**

Species Name	Cover
Dittrichia graveolens	<1%
Unknown mustard	1-5%

Cover of Nonnative Species in Basin: 1-5% Nonnative Species Richness in Basin: 2

Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: 25-50%

Ponded Water Present? no

Cover of Litter in Basin: <1%

Days Since Last Rain 1-5

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_CalTerracesSouth

Page 2 of 2

VP\_ID: 2189

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name Amblyopappus pusillus - Pineapple weed Ambrosia chenopodiifolia - San Diego bur ragweed Brachypodium distachyon - purple false brome Bromus hordeaceus - soft brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Cotula coronopifolia - common brassbuttons Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Deinandra fasciculata - clustered tarweed Dichelostemma capitatum - bluedicks Dittrichia graveolens - Stinkwort Eleocharis macrostachya - common spikerush
Ambrosia chenopodiifolia - San Diego bur ragweedBrachypodium distachyon - purple false bromeBromus hordeaceus - soft bromeBromus madritensis - compact bromeCentaurea melitensis - Maltese star-thistleCotula coronopifolia - common brassbuttonsCrassula connata - sand pygmyweedCylindropuntia prolifera - coastal chollaDeinandra fasciculata - clustered tarweedDichelostemma capitatum - bluedicksDittrichia graveolens - Stinkwort
Brachypodium distachyon - purple false brome Bromus hordeaceus - soft brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Cotula coronopifolia - common brassbuttons Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Deinandra fasciculata - clustered tarweed Dichelostemma capitatum - bluedicks Dittrichia graveolens - Stinkwort
Bromus hordeaceus - soft brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Cotula coronopifolia - common brassbuttons Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Deinandra fasciculata - clustered tarweed Dichelostemma capitatum - bluedicks Dittrichia graveolens - Stinkwort
Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Cotula coronopifolia - common brassbuttons Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Deinandra fasciculata - clustered tarweed Dichelostemma capitatum - bluedicks Dittrichia graveolens - Stinkwort
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Cotula coronopifolia - common brassbuttons Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Deinandra fasciculata - clustered tarweed Dichelostemma capitatum - bluedicks Dittrichia graveolens - Stinkwort
Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Deinandra fasciculata - clustered tarweed Dichelostemma capitatum - bluedicks Dittrichia graveolens - Stinkwort
Cylindropuntia prolifera - coastal cholla Deinandra fasciculata - clustered tarweed Dichelostemma capitatum - bluedicks Dittrichia graveolens - Stinkwort
Deinandra fasciculata - clustered tarweed Dichelostemma capitatum - bluedicks Dittrichia graveolens - Stinkwort
Dichelostemma capitatum - bluedicks Dittrichia graveolens - Stinkwort
Dittrichia graveolens - Stinkwort
-
Eleocharis macrostachva - common spikerush
Encelia californica - California brittlebush
Epilobium campestre - Smooth boisduvalia
Erigeron sumatrensis - tropical horseweed
Eriogonum elongatum - longstem buckwheat
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Frankenia salina - alkali seaheath
Iva hayesiana - San Diego marsh elder
Juncus bufonius - toad rush
Lactuca serriola - prickly lettuce
Logfia filaginoides - California cottonrose
Matricaria discoidea - pineapple weed
Melilotus indica - annual yellow sweetclover
Mesembryanthemum nodiflorum - slender leaved ice plant
Navarretia fossalis - Spreading navarretia
Navarretia hamata - hooked pincushionplant
Plantago erecta - California plantain
Pogogyne nudiuscula - Otay mesa mint
Polypogon interruptus - ditch rabbitsfoot grass
Psilocarphus brevissimus - woolly marble
Sonchus asper - spiny sowthistle
Stephanomeria diegensis - San Diego milk aster
Stipa lepida - foothill needlegrass
Unknown - herb
Yucca schidigera - Mojave yucca

Notes/Comments: None



Photo taken: 5/16/2019 Photo location is -116.99998868700, 32.56744808210 NAD83 State Plane California Zone 6 (feet)

# **Carmel Mountain**

Planning Unit: North Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: No
nning Unit: North City or Other? City eline Management and Monitoring Level:	Managing Department: Park_Recreation VPHCP Required Management and Monitoring Level:
litative Monitoring Data:	
it Date: 1/2/2019 Start Time: 9:30:00	
rveyors: Rob Wheeler, Diana Brand	
veyors. Nob wheeler, Diana Brand	
Site Conditions:	
Ponded Water: yes Days Since Last Rain: 1-5	5 Fairy Shrimp Visible? Present
Listed Plants Visible? Present Listed Plant	ts:
New and Ongoing Issues Observed During Visit:	Treasures (Unsuch asized User, Oracian
Trash:	Tresspass/Unauthorized Use: Ongoing
Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing	Fire or Damage from Fire Suppression: Damage from Edge Effects:
Invasive Species in Pool. Ongoing	Hydrological Impacts:
Other issues observed:	nyarological inipacts.
Are other issues observed is new or ongoing?	
Management Needs:	
Other Management Needs:	
Other Management Needs: Additional Management Actions Recommended:	
Additional Management Actions Recommended:	
Additional Management Actions Recommended: Notes: Non native grasses, thistle present.	
Additional Management Actions Recommended:Notes: Non native grasses, thistle present.sit Date: 3/21/2019Start Time: 21:30:00	
Additional Management Actions Recommended:Notes: Non native grasses, thistle present.isit Date: 3/21/2019Start Time: 21:30:00	
Additional Management Actions Recommended: Notes: Non native grasses, thistle present. isit Date: 3/21/2019 Start Time: 21:30:00 urveyors: Jason Allen	
Additional Management Actions Recommended:Notes: Non native grasses, thistle present.isit Date: 3/21/2019Start Time: 21:30:00	5 <b>Fairy Shrimp Visible?</b> Absent
Additional Management Actions Recommended: Notes: Non native grasses, thistle present. isit Date: 3/21/2019 Start Time: 21:30:00 urveyors: Jason Allen Site Conditions:	
Additional Management Actions Recommended: Notes: Non native grasses, thistle present. isit Date: 3/21/2019 Start Time: 21:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit:	ts:
Additional Management Actions Recommended:         Notes:       Non native grasses, thistle present.         isit Date:       3/21/2019       Start Time:       21:30:00         urveyors:       Jason Allen         Site Conditions:       Ponded Water:       yes       Days Since Last Rain:       1-5         Listed Plants Visible?       Present       Listed Plants         New and Ongoing Issues Observed During Visit:       Trash:	ts: Tresspass/Unauthorized Use: Ongoing
Additional Management Actions Recommended: Notes: Non native grasses, thistle present. isit Date: 3/21/2019 Start Time: 21:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs:	ts: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression:
Additional Management Actions Recommended: Notes: Non native grasses, thistle present. isit Date: 3/21/2019 Start Time: 21:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing	ts: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects:
Additional Management Actions Recommended: Notes: Non native grasses, thistle present. isit Date: 3/21/2019 Start Time: 21:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing	ts: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression:
Additional Management Actions Recommended: Notes: Non native grasses, thistle present. isit Date: 3/21/2019 Start Time: 21:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed:	ts: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects:
Additional Management Actions Recommended: Notes: Non native grasses, thistle present. isit Date: 3/21/2019 Start Time: 21:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing?	ts: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Additional Management Actions Recommended: Notes: Non native grasses, thistle present. isit Date: 3/21/2019 Start Time: 21:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,RestReveg,Gradi	ts: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Additional Management Actions Recommended: Notes: Non native grasses, thistle present. isit Date: 3/21/2019 Start Time: 21:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,RestReveg,Gradi	ts: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: ing_recontouring,Regularpatrolsrecommended
Additional Management Actions Recommended: Notes: Non native grasses, thistle present. sit Date: 3/21/2019 Start Time: 21:30:00 arveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,RestReveg,Gradi	ts: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: ing_recontouring,Regularpatrolsrecommended Veed management soon.

Year: 2019	
Complex Name: City_Carmel_Mountain	
Visit Date: 5/3/2019 Start Time: 17:30:00 Surveyors: Jason Allen, Sara Allen, Mark Berninger Site Conditions: Ponded Water: no Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants: New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,Trash_pickup,Regu Other Management Needs: Additional Management Actions Recommended: Wee Notes: Management Actions Completed: Date: 5/11/2019 Completed by: Melanie Fontana Contractor (if applicable) Management Actions Completed: Hand-pulled invasive Notes/Comments:	ed whack after plants go to seed.
Date: 6/28/2019 Completed by: Melanie Fontana, Volur Contractor (if applicable) Management Actions Completed: Hand-pulled invasive Notes/Comments:	

# **Carmel Mountain**

### **Qualitative Management Monitoring Photos**



- Photo taken: 3/21/2019
- Photo description: Old off-road vehicle tracks observed in vernal pools.



- Photo taken: 3/21/2019
- Photo description: Invasive species nonnative grasses present in vernal pool and upland buffer areas.

# **Carmel Mountain**

### **Qualitative Management Monitoring Photos**



- Photo taken: 3/21/2019
- Photo description: Broken fence that restricts access to vernal pools.



- Photo taken: 3/21/2019
- Photo description: Broken fence that restricts access to vernal pools repaired.

# **Carmel Mountain**

### **Qualitative Management Monitoring Photos**



- Photo taken: 5/3/2019
- Photo description: Invasive species nonnative grasses present in vernal pool and upland buffer areas.



- Photo taken: 5/7/2019
- Photo description: Broken fence that restricts access to vernal pools.

Planning Unit: North Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: Yes

Planning Unit: North City or Other? City	Managing Department: Park_Recreation
Baseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
ualitative Monitoring Data:	
/isit Date: 1/2/2019 Start Time: 8:30:00	
Surveyors: Rob Wheeler, Diana Brand	
Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants:	Fairy Shrimp Visible? Present
New and Ongoing Issues Observed During Visit:	
Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Management Needs: Weedcontrol,Trash_pickup,Regu Other Management Needs:	
Other Management Needs: Additional Management Actions Recommended: Notes: Non native grasses, thistle present. /isit Date: 2/4/2019 Start Time: 3:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants:	Fairy Shrimp Visible? Present
Other Management Needs: Additional Management Actions Recommended: Notes: Non native grasses, thistle present. //isit Date: 2/4/2019 Start Time: 3:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5	Fairy Shrimp Visible? Present
Other Management Needs: Additional Management Actions Recommended: Notes: Non native grasses, thistle present. /isit Date: 2/4/2019 Start Time: 3:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants: New and Ongoing Issues Observed During Visit:	Fairy Shrimp Visible? Present
Other Management Needs: Additional Management Actions Recommended: Notes: Non native grasses, thistle present. /isit Date: 2/4/2019 Start Time: 3:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants: New and Ongoing Issues Observed During Visit: Trash: Ongoing	Fairy Shrimp Visible? Present Tresspass/Unauthorized Use:
Other Management Needs: Additional Management Actions Recommended: Notes: Non native grasses, thistle present. /isit Date: 2/4/2019 Start Time: 3:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants: New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs:	Fairy Shrimp Visible? Present Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression:
Other Management Needs: Additional Management Actions Recommended: Notes: Non native grasses, thistle present. /isit Date: 2/4/2019 Start Time: 3:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants: New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing	Fairy Shrimp Visible? Present Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: New
Other Management Needs: Additional Management Actions Recommended: Notes: Non native grasses, thistle present. //isit Date: 2/4/2019 Start Time: 3:30:00 //isurveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants: New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed:	Fairy Shrimp Visible? Present Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: New Hydrological Impacts: New
Other Management Needs: Additional Management Actions Recommended: Notes: Non native grasses, thistle present. /isit Date: 2/4/2019 Start Time: 3:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants: New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing?	Fairy Shrimp Visible? Present Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: New Hydrological Impacts: New
Other Management Needs: Additional Management Actions Recommended: Notes: Non native grasses, thistle present. Visit Date: 2/4/2019 Start Time: 3:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants: New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,Trash_pickup,Grad	Fairy Shrimp Visible? Present Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: New Hydrological Impacts: New

Year: 2019	and Management Actions
Complex Name: City_Carroll_Canyon	
Visit Date: 4/3/2019 Start Time: 3:30:00	
Surveyors: Jason Allen	
Site Conditions:	
Ponded Water: yes Days Since Last Rain: 1-5	Fairy Shrimp Visible? Absent
Listed Plants Visible? Present Listed Plants:	
New and Ongoing Issues Observed During Visit:	_ /
Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
	p_cleanup,Regularpatrolsrecommended,RecontouringPools
Other Management Needs:	ad control coop
Additional Management Actions Recommended: Wee	
<b>Notes:</b> Some stinkwort seedlings, minimal weeds exce fenced border.	pt border areas or pools and complex. Cistus seedlings at east
Visit Date: 5/2/2019         Start Time: 8:30:00	
Surveyors: Jason Allen, Sara Allen, Mark Berninger, Jessie	Lane, Diana Brand, Sarah McCutcheon
Site Conditions: Ponded Water: no Days Since Last Rain: 1-5	Fairy Shrimp Visible?
Listed Plants Visible? Present Listed Plants:	
New and Ongoing Issues Observed During Visit:	
Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol,RestReveg,Trash_p	bickup, Regular patrols recommended
Other Management Needs:	
Additional Management Actions Recommended: We	ed management
Notes:	

Year: 2019

Complex Name: City\_Carroll\_Canyon

Management Actions Completed:

Date: 10/9/2018 Completed by: Jason Allen, Scott Seyfried, Moises Vasquez

Contractor (if applicable)

Management Actions Completed: Herbicide application to invasive species.

Notes/Comments:

Date: 6/19/2019 Completed by: Jason Allen

Contractor (if applicable)

Management Actions Completed: Herbicide application to invasive species.

Notes/Comments:

### **Qualitative Management Monitoring Photos**



- Photo taken: 10/9/2018
- Photo description: Old brush pile onsite.



- Photo taken: 10/9/2018
- Photo description: Invasive plant Rock rose (*Cistus ladanifer*) treated with herbicide to keep it from encroaching into vernal pools.

### **Qualitative Management Monitoring Photos**



- Photo taken: 2/4/2019
- Photo description: Low spot in access path at risk of flooding into adjacent vernal pool.



- Photo taken: 4/3/2019
- Photo description: Old brush pile onsite.

**Qualitative Management Monitoring Photos** 



- Photo taken: 6/19/2019
- Photo description: Invasive plant Rock rose (*Cistus ladanifer*) treated with herbicide to keep it from encroaching into vernal pools.



- Photo taken: 6/19/2019
- Photo description: Native wildflowers carpeting the bottom of a dry vernal pool.

Survey Year: 2019		Page 1 of 2
Complex Name: City_Carroll_Canyo	n	VP_ID: 1077
Photopoint X: -117.15833015200	Photopoint Y: 32.89720344030	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 1.0	Baseline Cover of NAFO: 0.5	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 1.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/2/2019	Survey Start Time: 11:06 AN	A Survey End Time: 11:45 AM
Surveyors: Sara Allen, Sarah McCut	cheon	
VPHCP Covered Species Present: E	RAR,NAFO,POAB	
Cover of ERAR in Basin 10-25%	Cover of NAFO in Basin: <1	% Cover of ORCA in Basin
Cover of POAB in Basin 10-25%	Cover of PONU in Basin	
<b>Other Native Species in Pool:</b>		
Species	Name	Cover
Brodiaea orcuttii - C	Drcutt's brodiaea	<1%
Callitriche marginata - Ca	lifornia water starwort	<1%
Cuscuta californica -	California dodder	<1%
Deinandra fasciculata	- clustered tarweed	1-5%
Deschampsia danthonioi	des - annual hairgrass	<1%
Downingia cuspidata -	Toothed downingia	<1%
Eleocharis macrostachya	a - common spikerush	<1%
Navarretia hamata - hoo	oked pincushionplant	1-5%
Psilocarphus brevissin	nus - woolly marble	1-5%

Cover of Other Native Species in Basin 10-25% Native Species Richness in Basin: 12

#### Nonnative Species in Pool

Species Name	Cover
Polypogon monspeliensis - annual rabbitsfoot grass	1-5%

Cover of Nonnative Species in Basin: 1-5% Nonnative Species Richness in Basin: 1

Bare Ground Cover in Basin 25-50%Cover of Rocks/Cobble in Basin: 5-10%

Days Since Last Rain 1-5 Ponded Water

Ponded Water Present? no

Cover of Litter in Basin: 1-5%

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Carroll\_Canyon

Page 2 of 2

VP\_ID: 1077

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Adenostoma fasciculatum - chamise
Antirrhinum nuttallianum - Nuttall's snapdragon
Apiastrum angustifolium - mock parsley
Brodiaea orcuttii - Orcutt's brodiaea
Bromus madritensis - compact brome
Callitriche marginata - California water starwort
Calochortus splendens - splendid mariposa lily
Chlorogalum parviflorum - smallflower soap plant
Cotula coronopifolia - common brassbuttons
Crassula connata - sand pygmyweed
Cryptantha sp cryptantha
Cuscuta californica - California dodder
Deinandra fasciculata - clustered tarweed
Deschampsia danthonioides - annual hairgrass
Dichelostemma capitatum - bluedicks
Downingia cuspidata - Toothed downingia
Eriophyllum confertiflorum - golden yarrow
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Galium angustifolium - narrowleaf bedstraw
Hypochaeris glabra - smooth cat's ear
Juncus bufonius - toad rush
Lasthenia gracilis - needle goldfields
Logfia gallica - narrowleaf cottonrose
Melica imperfecta - California melic
Navarretia hamata - hooked pincushionplant
Phalaris lemmonii - Lemmon's canarygrass
Pogogyne abramsii - San Diego mesa mint
Polypogon monspeliensis - annual rabbitsfoot grass
Pseudognaphalium stramineum - cottonbatting plant
Psilocarphus brevissimus - woolly marble
Psilocarphus tenellus - short woollyheads
Selaginella cinerascens - mesa spikemoss
Stylocline gnaphaloides - everlasting nest straw
Uropappus lindleyi - silver puffs

Notes/Comments: California gnatcatcher calling near pool

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1077



Photo taken: 5/2/2019 Photo location is -117.15833015200, 32.89720344030 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019	Page 1 of 2
Complex Name: City_Carroll_Canyon	VP_ID: 1092
Photopoint X: -117.15838338100         Photopoint Y: 32.89696329340	Photopoint Established: 2018
2003 Baseline Survey Data	
Baseline Cover of ERAR:1.0Baseline Cover of NAFO:0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB:3.0Baseline Cover of PONU:0.0	
2019 Quantitative Monitoring Data	
Survey Date 5/2/2019 Survey Start Time: 9:26 AM	Survey End Time: 10:54 AM
Surveyors: Jason Allen, Sara Allen, Mark Berninger, Sarah McCutcheon	
VPHCP Covered Species Present: POAB, ERAR	
Cover of ERAR in Basin 5-10% Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin 25-50% Cover of PONU in Basin	
Other Native Species in Pool:	
Species Name	Cover
Brodiaea orcuttii - Orcutt's brodiaea	<1%
Callitriche marginata - California water starwort	25-50%
Crassula aquatica - Aquatic pygmy weed	<1%
Cuscuta californica - California dodder	<1%
Deinandra fasciculata - clustered tarweed	<1%
Deschampsia danthonioides - annual hairgrass	<1%
Downingia cuspidata - Toothed downingia	25-50%
Eleocharis macrostachya - common spikerush	<1%
Juncus bufonius - toad rush	1-5%
Microseris elegans - elegant silverpuffs	<1%
Navarretia hamata - hooked pincushionplant	1-5%
Phalaris lemmonii - Lemmon's canarygrass	<1%
Psilocarphus brevissimus - woolly marble	5-10%
Zeltnera venusta - charming centaury	<1%

Cover of Other Native Species in Basin 75-100% Native Species Richness in Basin: 16

#### **Nonnative Species in Pool**

Species Name	Cover
Festuca myuros - rattail sixweeks grass	<1%

Cover of Nonnative Species in Basin: <1%</th>Nonnative Species Richness in Basin: 1Bare Ground Cover in Basin 10-25%Cover of Rocks/Cobble in Basin: 1-5%Cover of Litter in Basin: <1%</td>

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Carroll\_Canyon

Page 2 of 2

VP\_ID: 1092

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Adenostoma fasciculatum - chamise
Antirrhinum nuttallianum - Nuttall's snapdragon
Apiastrum angustifolium - mock parsley
Brodiaea orcuttii - Orcutt's brodiaea
Bromus madritensis - compact brome
Chlorogalum parviflorum - smallflower soap plant
Chorizanthe polygonoides var. longispina - knotweed spineflower
Crassula connata - sand pygmyweed
Cuscuta californica - California dodder
Deinandra fasciculata - clustered tarweed
Deschampsia danthonioides - annual hairgrass
Dichelostemma capitatum - bluedicks
Dittrichia graveolens - Stinkwort
Downingia cuspidata - Toothed downingia
Eleocharis macrostachya - common spikerush
Eriophyllum confertiflorum - golden yarrow
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Hypochaeris glabra - smooth cat's ear
Juncus bufonius - toad rush
Lasthenia gracilis - needle goldfields
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Microseris douglasii ssp. platycarpha - Douglas' silverpuffs
Navarretia hamata - hooked pincushionplant
Phalaris lemmonii - Lemmon's canarygrass
Plantago erecta - California plantain
Pogogyne abramsii - San Diego mesa mint
Pseudognaphalium californicum - ladies' tobacco
Psilocarphus tenellus - short woollyheads
Salvia mellifera - black sage
Selaginella cinerascens - mesa spikemoss
Sonchus asper - spiny sowthistle
Stipa pulchra - purple needlegrass
Stylocline gnaphaloides - everlasting nest straw
Zeltnera venusta - charming centaury

Notes/Comments: Some broken glass in pool

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1092



Photo taken: 5/2/2019 Photo location is -117.15838338100, 32.89696329340 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Carroll_Canyor	1	VP_ID: 1096
Photopoint X: -117.15785528600	Photopoint Y: 32.89728136740	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 10.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 1.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/2/2019	Survey Start Time: 11:54 AM	Survey End Time: 12:36 AM
Surveyors: Sara Allen, Sarah McCutc	heon	
VPHCP Covered Species Present: ER	AR,POAB	
Cover of ERAR in Basin 25-50%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin 10-25%	Cover of PONU in Basin	
Other Native Species in Pool:		
Species N	ame	Cover
Brodiaea orcuttii - O	rcutt's brodiaea	<1%
Callitriche marginata - Cali	fornia water starwort	<1%
Crassula aquatica - Aqu	uatic pygmy weed	<1%
Deinandra fasciculata -	clustered tarweed	<1%
Deschampsia danthonioid	les - annual hairgrass	<1%
Downingia cuspidata - 1	oothed downingia	<1%
Eleocharis macrostachya	- common spikerush	<1%
Juncus bufonius	- toad rush	<1%
Navarretia hamata - hoo	ked pincushionplant	<1%
Psilocarphus brevissim	us - woolly marble	1-5%
Zeltnera venusta - ch	arming centaury	<1%

Cover of Other Native Species in Basin 25-50% Native Species Richness in Basin: 13

#### **Nonnative Species in Pool**

Species Name	Cover
Festuca myuros - rattail sixweeks grass	<1%
Polypogon monspeliensis - annual rabbitsfoot grass	<1%

Cover of Nonnative Species in Basin: <1% Nonnative Species Richness in Basin: 2

Bare Ground Cover in Basin 50-75% Cover of Rocks/Cobble in Basin: 5-10% Cover of Litter in Basin: 1-5%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Carroll\_Canyon

Page 2 of 2

VP\_ID: 1096

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Adenostoma fasciculatum - chamise
Antirrhinum nuttallianum - Nuttall's snapdragon
Apiastrum angustifolium - mock parsley
Brodiaea orcuttii - Orcutt's brodiaea
Bromus madritensis - compact brome
Callitriche marginata - California water starwort
Castilleja exserta - exserted Indian paintbrush
Chlorogalum parviflorum - smallflower soap plant
Cotula coronopifolia - common brassbuttons
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Deschampsia danthonioides - annual hairgrass
Diplacus aurantiacus var. Aurantiacus - sticky monkeyflower
Eriophyllum confertiflorum - golden yarrow
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Hypochaeris glabra - smooth cat's ear
Juncus bufonius - toad rush
Microseris douglasii ssp. platycarpha - Douglas' silverpuffs
Muilla maritima - sea muilla
Navarretia hamata - hooked pincushionplant
Pseudognaphalium californicum - ladies' tobacco
Pseudognaphalium stramineum - cottonbatting plant
Psilocarphus brevissimus - woolly marble
Psilocarphus tenellus - short woollyheads
Selaginella cinerascens - mesa spikemoss
Sisyrinchium bellum - Western blue-eyed grass
Stylocline gnaphaloides - everlasting nest straw
Zeltnera venusta - charming centaury
Zeithera venusta - thanning tentauly

Notes/Comments: None

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1096



Photo taken: 5/2/2019 Photo location is -117.15785528600, 32.89728136740 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Carroll_Canyon		VP_ID: 1109
Photopoint X: -117.15672575300	Photopoint Y: 32.89760125070	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 20.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 3.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/2/2019	Survey Start Time: 2:14 PM	Survey End Time: 3:02 PM
Surveyors: Jason Allen, Jessie Lane		
VPHCP Covered Species Present: PO	AB,ERAR	
Cover of ERAR in Basin 10-25%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin 5-10%	Cover of PONU in Basin	
<b>Other Native Species in Pool:</b>		
Species N	ame	Cover
Brodiaea orcuttii - Or	cutt's brodiaea	<1%
Callitriche marginata - Calif	ornia water starwort	1-5%
Crassula aquatica - Aqu	atic pygmy weed	<1%
Deinandra fasciculata -	clustered tarweed	<1%
Deschampsia danthonioid	es - annual hairgrass	<1%
Downingia cuspidata - T	oothed downingia	<1%
Eleocharis macrostachya -	common spikerush	1-5%
Juncus bufonius	- toad rush	<1%
Navarretia hamata - hook	ed pincushionplant	<1%
Psilocarphus brevissimu	is - woolly marble	1-5%
Psilocarphus tenellus - s	hort woollyheads	<1%
Selaginella cinerascens	- mesa spikemoss	<1%

**Cover of Other Native Species in Basin** 10-25% Native Species Richness in Basin: 14

#### **Nonnative Species in Pool**

Species Name	Cover
Polypogon monspeliensis - annual rabbitsfoot grass	<1%
Unknown grass	<1%

**Cover of Nonnative Species in Basin:** <1% Nonnative Species Richness in Basin: 2

**Bare Ground Cover in Basin** 5-10% **Cover of Rocks/Cobble in Basin:** 1-5%

**Cover of Litter in Basin:** <1%

Ponded Water Present? no Days Since Last Rain 1-5

Dead Species Present in Pool: None

Survey Year: 2019	Page 2 of 2
Complex Name: City_Carroll_Canyon	VP_ID: 110

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Adenostoma fasciculatum - chamise
Antirrhinum nuttallianum - Nuttall's snapdragon
Callitriche marginata - California water starwort
Chlorogalum parviflorum - smallflower soap plant
Crassula connata - sand pygmyweed
Deinandra fasciculata - clustered tarweed
Deschampsia danthonioides - annual hairgrass
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Navarretia hamata - hooked pincushionplant
Polypogon monspeliensis - annual rabbitsfoot grass
Pseudognaphalium bioletti - two-color rabbit-tobacco
Psilocarphus tenellus - short woollyheads
Selaginella cinerascens - mesa spikemoss
Unknown - grass

Notes/Comments: To navigate to pool, enter at pool 1738 to 1108

1109

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1109



Photo taken: 5/2/2019 Photo location is -117.15672575300, 32.89760125070 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Carroll_Canyo	on	VP_ID: 1740
Photopoint X: -117.15661463700	Photopoint Y: 32.89782871730	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 30.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 5.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/2/2019	Survey Start Time: 11:19 AM	Survey End Time: 12:19 PM
Surveyors: Jason Allen, Jessie Lane		
VPHCP Covered Species Present: P	OAB,ERAR	
Cover of ERAR in Basin 10-25%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin 10-25%	Cover of PONU in Basin	
<b>Other Native Species in Pool:</b>		
Species	Name	Cover
Brodiaea orcuttii - (	Drcutt's brodiaea	<1%
Crassula aquatica - Ao	quatic pygmy weed	<1%
Deinandra fasciculata		<1%
Deschampsia danthonio	-	<1%
Eleocharis macrostachya - common spikerush		1-5%
Juncus bufonius - toad rush		<1%
Myosurus minimus		<1%
Navarretia hamata - ho		<1%
Psilocarphus brevissir	-	1-5%
Selaginella cinerascer	is - mesa spikemoss	<1%

Cover of Other Native Species in Basin 10-25% Native Species Richness in Basin: 12

#### **Nonnative Species in Pool**

Species Name	Cover
Lythrum hyssopifolia - hyssop loosestrife	<1%
Polypogon monspeliensis - annual rabbitsfoot grass	5-10%

Cover of Nonnative Species in Basin: 5-10% Nonnative Species Richness in Basin: 2

Bare Ground Cover in Basin 1-5% Cover of Rocks/Cobble in Basin: 1-5%

Days Since Last Rain 1-5

Ponded Water Present? no

**Cover of Litter in Basin:** <1%

Dead Species Present in Pool: None

Complex Name: City\_Carroll\_Canyon

Page 2 of 2

VP\_ID: 1740

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Adenostoma fasciculatum - chamise
Antirrhinum nuttallianum - Nuttall's snapdragon
Brodiaea orcuttii - Orcutt's brodiaea
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Chorizanthe polygonoides - knotweed spineflower
Crassula connata - sand pygmyweed
Deinandra fasciculata - clustered tarweed
Deschampsia danthonioides - annual hairgrass
Dichelostemma capitatum - bluedicks
Diplacus aurantiacus var. Aurantiacus - sticky monkeyflower
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Hypochaeris glabra - smooth cat's ear
Juncus bufonius - toad rush
Navarretia hamata - hooked pincushionplant
Pogogyne abramsii - San Diego mesa mint
Polypogon monspeliensis - annual rabbitsfoot grass
Salvia mellifera - black sage
Selaginella cinerascens - mesa spikemoss
Sonchus asper - spiny sowthistle

Notes/Comments: pool does not include southeastern protrusion

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1740



Photo taken: 5/2/2019 Photo location is -117.15661463700, 32.89782871730 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Carroll_Canyor	1	VP_ID: 1743
Photopoint X: -117.15628560300	Photopoint Y: 32.89799605060	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 20.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/2/2019	Survey Start Time: 11:14 AM	Survey End Time: 12:24 PM
Surveyors: Mark Berninger, Diana B	rand-Ramirez	
VPHCP Covered Species Present: ER	AR	
Cover of ERAR in Basin 10-25%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Species N	ame	Cover
Brodiaea orcuttii - O	rcutt's brodiaea	<1%
Crassula aquatica - Aqu	uatic pygmy weed	1-5%
Cuscuta californica - C	California dodder	<1%
Deinandra fasciculata -	clustered tarweed	1-5%
Deschampsia danthonioid	les - annual hairgrass	<1%
Eleocharis macrostachya	- common spikerush	<1%
Juncus bufonius	- toad rush	1-5%
Myosurus minimus -	little mouse tail	<1%
Navarretia hamata - hoo	ked pincushionplant	1-5%
Phalaris lemmonii - Lem	imon's canarygrass	1-5%
Psilocarphus brevissim	us - woolly marble	1-5%
Sisyrinchium bellum - We	torn blue aved grace	<1%

Cover of Other Native Species in Basin 10-25% Native Species Richness in Basin: 13

#### **Nonnative Species in Pool**

Species Name	Cover
Festuca myuros - rattail sixweeks grass	<1%
Lythrum hyssopifolia - hyssop loosestrife	<1%
Polypogon monspeliensis - annual rabbitsfoot grass	<1%
Sonchus asper - spiny sowthistle	<1%
Unknown grass	<1%

**Cover of Nonnative Species in Basin:** 1-5%

Nonnative Species Richness in Basin: 5

Bare Ground Cover in Basin 50-75% Cover of Rocks/Cobble in Basin: 5-10%

Ponded Water Present? no

**Cover of Litter in Basin:** <1%

Days Since Last Rain 1-5

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Carroll\_Canyon

Page 2 of 2

VP\_ID: 1743

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon glaber - deerweed
Adenostoma fasciculatum - chamise
Antirrhinum nuttallianum - Nuttall's snapdragon
Brassica nigra - black mustard
Brodiaea orcuttii - Orcutt's brodiaea
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Chlorogalum parviflorum - smallflower soap plant
Cuscuta californica - California dodder
Daucus pusillus - American wild carrot
Deschampsia danthonioides - annual hairgrass
Dichelostemma capitatum - bluedicks
Eryngium aristulatum var. parishii - San Diego button celery
Hypochaeris glabra - smooth cat's ear
Juncus bufonius - toad rush
Lythrum hyssopifolia - hyssop loosestrife
Marah macrocarpus - Cucamonga manroot
Navarretia hamata - hooked pincushionplant
Polypogon monspeliensis - annual rabbitsfoot grass
Pseudognaphalium beneolens - cudweed
Sisyrinchium bellum - Western blue-eyed grass
Sonchus asper - spiny sowthistle

Notes/Comments: None

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1743



Photo taken: 5/2/2019 Photo location is -117.15628560300, 32.89799605060 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Carroll_Canyon		VP_ID: 1746
Photopoint X: -117.15783980300	Photopoint Y: 32.89772240070	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 10.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 1.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/2/2019Survey Start Time: 2:09 PM		Survey End Time: 2:59 PM
Surveyors: Mark Berninger, Diana Br	and-Ramirez	
VPHCP Covered Species Present: PO	AB,ERAR	
<b>Cover of ERAR in Basin</b> 10-25% <b>Cover of NAFO in Basin:</b>		Cover of ORCA in Basin
Cover of POAB in Basin <1%	Cover of PONU in Basin	
<b>Other Native Species in Pool:</b>		
Species Name		Cover
Brodiaea orcuttii - Orcutt's brodiaea		<1%
Callitriche marginata - California water starwort		1-5%
Crassula aquatica - Aquatic pygmy weed		1-5%
Deinandra fasciculata - clustered tarweed		<1%
Deschampsia danthonioides - annual hairgrass		<1%
Downingia cuspidata - Toothed downingia		<1%
Juncus bufonius - toad rush		5-10%
Navarretia hamata - hooked pincushionplant		<1%
Psilocarphus brevissimus - woolly marble		5-10%
Zeltnera venusta - charming centaury		<1%

**Cover of Other Native Species in Basin** 25-50% Native Species Richness in Basin: 11

#### **Nonnative Species in Pool**

Species Name	Cover
Polypogon monspeliensis - annual rabbitsfoot grass	<1%

**Cover of Nonnative Species in Basin:** <1% Nonnative Species Richness in Basin: 1 **Cover of Litter in Basin:** <1%

Bare Ground Cover in Basin 25-50% Cover of Rocks/Cobble in Basin: 1-5%

Days Since Last Rain 1-5 Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Carroll\_Canyon

Page 2 of 2

VP\_ID: 1746

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon glaber - deerweed
Adenostoma fasciculatum - chamise
Antirrhinum nuttallianum - Nuttall's snapdragon
Brodiaea orcuttii - Orcutt's brodiaea
Bromus madritensis - compact brome
Chlorogalum parviflorum - smallflower soap plant
Deschampsia danthonioides - annual hairgrass
Diplacus aurantiacus var. Aurantiacus - sticky monkeyflower
Downingia cuspidata - Toothed downingia
Eleocharis macrostachya - common spikerush
Festuca myuros - rattail sixweeks grass
Gastridium phleoides - nit grass
Juncus bufonius - toad rush
Juncus sp.
Lamarckia aurea - goldentop grass
Navarretia hamata - hooked pincushionplant
Phalaris lemmonii - Lemmon's canarygrass
Pseudognaphalium bioletti - two-color rabbit-tobacco
Pseudognaphalium californicum - ladies' tobacco
Selaginella cinerascens - mesa spikemoss
Sisyrinchium bellum - Western blue-eyed grass
Solanum sp nightshade
Sonchus asper - spiny sowthistle
Stipa pulchra - purple needlegrass

Notes/Comments: None

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1746



Photo taken: 5/2/2019 Photo location is -117.15783980300, 32.89772240070 NAD83 State Plane California Zone 6 (feet)

# **Clayton Parcel**

Planning Unit: South Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: Yes

Complex Name: City_Clayton_Parcel Planning Unit: South City or Other? City Baseline Management and Monitoring Level:	Managing Department: Park_Recreation
	Managing Department: Park Recreation
Baseline Management and Monitoring Level	
satement and monitoring reven	VPHCP Required Management and Monitoring Level:
Qualitative Monitoring Data:	
Visit Date: 1/31/2019 Start Time: 21:30:00	
Surveyors: Jason Allen, Jessie Lane	
Site Conditions: Ponded Water: no Days Since Last Rain: 6-15	5 Fairy Shrimp Visible?
Listed Plants Visible? Present Listed Plants	
New and Ongoing Issues Observed During Visit:	-
Trash: Ongoing	Tresspass/Unauthorized Use: Ongoing
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
	Reveg,Add_replace_lock,Add_replace_chain,Fence_install,Sig _pickup,Grading_recontouring,Regularpatrolsrecommended
Other Management Needs:	
-	ant project to restore by Chap Lands Institute in progress on 3 of site.
Notes: Grass is prime for spraying now. Check with D	). Hogan. Fencing needs to be done.
Visit Date: 3/12/2019 Start Time: 16:30:00	
Surveyors: Jason Allen	
Site Conditions:	
Ponded Water: yes Days Since Last Rain: 1-5	Fairy Shrimp Visible? Present
Listed Plants Visible? Present Listed Plants	
New and Ongoing Issues Observed During Visit:	
Trash: Ongoing	Tresspass/Unauthorized Use: Ongoing
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
-	Reveg,Add_replace_lock,Add_replace_chain,Fence_install,Sig _pickup,Grading_recontouring,Regularpatrolsrecommended
Other Management Needs:	
Additional Management Actions Recommended: We	eed maintenance and trash removalupcoming
-	

	oning and Management Actions
Year: 2019	
Complex Name: City_Clayton_Parcel	
Visit Date:         5/17/2019         Start Time:         23:30:00           Summary large         Aller         Start Time:         23:30:00	
Surveyors: Jason Allen	
Site Conditions:	
Ponded Water: no Days Since Last Rain: 1-5	Fairy Shrimp Visible?
Listed Plants Visible? Present Listed Plants	::
New and Ongoing Issues Observed During Visit:	
Trash: Ongoing	Tresspass/Unauthorized Use: Ongoing
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	Power Fonce install Sign install Dump cleanup Trach sidure
Grading_recontouring,Regularp	Reveg,Fence_install,Sign_install,Dump_cleanup,Trash_pickup, patrolsrecommended
Other Management Needs:	
Additional Management Actions Recommended: Gat	te and fence installed today on East side.
Notes: CLC project to start grading at some point on V	Nest 1/3 of parcel.
Ianagement Actions Completed:	
Date: 3/25/2019 Completed by: Jason Allen	
Contractor (if applicable)	
Management Actions Completed: Weed whack invasiv	ve species.
Notes/Comments:	
Date: 4/2/2019 Completed by: Jason Allen	
Contractor (if applicable)	
Management Actions Completed: Herbicide applicatio	on to invasive species and weed whack
	sh to invusive species and weed whatk.
Notes/Comments:	
Date: 4/5/2019 Completed by: Jason Allen	
Date: 4/5/2019 Completed by: Jason Allen Contractor (if applicable)	
	on to invasive species, trash pickup and weed whack.
Contractor (if applicable) Management Actions Completed: Herbicide application	on to invasive species, trash pickup and weed whack.
Contractor (if applicable)	on to invasive species, trash pickup and weed whack.
Contractor (if applicable) Management Actions Completed: Herbicide application	on to invasive species, trash pickup and weed whack.
Contractor (if applicable) Management Actions Completed: Herbicide application	on to invasive species, trash pickup and weed whack.
Contractor (if applicable) Management Actions Completed: Herbicide application Notes/Comments:	on to invasive species, trash pickup and weed whack.
Contractor (if applicable) Management Actions Completed: Herbicide application Notes/Comments: Date: 4/15/2019 Completed by: Jason Allen	
Year: 2019 Complex Name: City_Clayton_Parcel Date: 4/15/2019 Completed by: Jason Allen, Moises Vasquez Contractor (if applicable) Management Actions Completed: Mowed, weed whacked and applied herbicide to invasive species and picked up	
--	
Contractor (if applicable) Management Actions Completed: Mowed, weed whacked and applied herbicide to invasive species and picked up	
trash.	
Notes/Comments:	
<ul> <li>Date: 4/17/2019 Completed by: Jason Allen, Moises Vasquez</li> <li>Contractor (if applicable)</li> <li>Management Actions Completed: Mowed and applied herbicide to invasive species. Installed regulations sign and temporary fence.</li> <li>Notes/Comments:</li> </ul>	
<ul> <li>Date: 4/19/2019 Completed by: Jason Allen, Ninfa Nigrete</li> <li>Contractor (if applicable)</li> <li>Management Actions Completed: Install regulations sign and temporary fence/gate.</li> <li>Notes/Comments:</li> </ul>	
<ul> <li>Date: 5/6/2019 Completed by: Jason Allen</li> <li>Contractor (if applicable)</li> <li>Management Actions Completed: Install 3 regulations signs and temporary fence/gate. Weed whack invasive specie</li> <li>Notes/Comments:</li> </ul>	
<ul> <li>Date: 5/16/2019 Completed by: Jason Allen</li> <li>Contractor (if applicable) South Bay Fence</li> <li>Management Actions Completed: Contractor installed t-post and wire fence and swing gate.</li> <li>Notes/Comments:</li> </ul>	
<ul> <li>Date: 5/17/2019 Completed by: Jason Allen</li> <li>Contractor (if applicable) South Bay Fence</li> <li>Management Actions Completed: Contractor installed t-post and wire fence and swing gate.</li> <li>Notes/Comments:</li> </ul>	

## **Qualitative Management Monitoring Photos**



- Photo taken: 12/11/2018
- Photo description: Illegal off-road vehicles driving through vernal pools.



- Photo taken: 1/31/2019
- Photo description: Trash/debris onsite.

## **Qualitative Management Monitoring Photos**



- Photo taken: 3/12/2019
- Photo description: Trash/debris onsite.



- Photo taken: 3/25/2019
- Photo description: Illegal off-road vehicles driving through vernal pools.

### **Qualitative Management Monitoring Photos**



- Photo taken: 3/25/2019
- Photo description: Invasive weeds and grasses creating thick thatch layer smothering vernal pool complex.



- Photo taken: 3/25/2019
- Photo description: Invasive weeds and grasses weed whacked for removal.

## **Qualitative Management Monitoring Photos**



- Photo taken: 4/15/2019
- Photo description: Tractor mower dethatching vernal pool complex buffer areas.



- Photo taken: 4/15/2019
- Photo description: Tractor mower dethatching vernal pool buffer areas. Trash/debris onsite.

#### **Qualitative Management Monitoring Photos**



- Photo taken: 4/15/2019
- Photo description: Contracted crew removing trash/debris.



- Photo taken: 4/15/2019
- Photo description: Contracted crew removing trash/debris.

#### **Qualitative Management Monitoring Photos**



- Photo taken: 4/15/2019
- Photo description: Herbicide application to invasive plants in vernal pool complex.



- Photo taken: 4/15/2019
- Photo description: Trash/debris previously covered by thick thatch layer.

### **Qualitative Management Monitoring Photos**



- Photo taken: 5/6/2019
- Photo description: Temporary fencing and signs installed to restrict illegal off-road access.



- Photo taken: 5/17/2019
- Photo description: Permanent fencing and gate installed to restrict illegal off-road access.

## **Qualitative Management Monitoring Photos**



- Photo taken: 5/30/2019
- Photo description: Adjacent property allowing access onto their property and Clayton parcel.



- Photo taken: 6/18/2019
- Photo description: Worked with property manager to install barricades to restrict illegal off-road access.

#### **Annual VPHCP Covered Plant Monitoring**

Survey Year: 2019		Page 1 of 2
Complex Name: City_Clayton_Parce	I	VP_ID: 876
Photopoint X: -117.01827034700	Photopoint Y: 32.57163438250	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 1.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/14/2019	Survey Start Time: 1:51 PM	Survey End Time: 2:08 PM
Surveyors: Jason Allen, Jessie Lane,	Mark Berninger, Diana Brand Ramir	ez
VPHCP Covered Species Present: ER	AR	
Cover of ERAR in Basin <1%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
<b>Other Native Species in Pool:</b>		
Species N	lame	Cover
Cryptantha sp	cryptantha	<1%

#### Cover of Other Native Species in Basin <1% Native Species Richness in Basin: 1

#### **Nonnative Species in Pool**

Species Name	Cover
Erodium botrys - longbeak stork's bill	1-5%
Erodium cicutarium - redstem stork's bill	<1%
Festuca perennis - Italian rye grass	10-25%
Hordeum marinum - seaside barley	1-5%
Hypochaeris glabra - smooth cat's ear	<1%
Logfia gallica - narrowleaf cottonrose	<1%
Lythrum hyssopifolia - hyssop loosestrife	1-5%
Medicago polymorpha - burclover	<1%

Cover of Nonnative Species in Basin: 25-50% Nonnative Species Richness in Basin: 8

Bare Ground Cover in Basin 50-75% Cover of Rocks/Cobble in Basin: 1-5%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

**Cover of Litter in Basin:** <1%

#### **Annual VPHCP Covered Plant Monitoring**

Survey Year: 2019

Complex Name: City\_Clayton\_Parcel

Page 2 of 2

VP\_ID: 876

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name         Acmispon glaber - deerweed         Atriplex semibaccata - Australian saltbush         Avena barbata - slender oat         Baccharis sarothroides - desertbroom         Bromus diandrus - ripgut brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Deinandra fasciculata - clustered tarweed         Eriogonum fasciculatum - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Festuca myuros - rattail sixweeks grass         Festuca perennis - Italian rye grass         Hypochaeris glabra - smooth cat's ear         Isocoma menziesii - Menzies' goldenbush         Logfia gallica - narrowleaf cottonrose         Lysimachia arvensis - scarlet pimpernel         Medicago polymorpha - burclover         Mesembryanthemum nodiflorum - slender leaved ice plant         Rhus integrifolia - lemonade berry         Salsola tragus - prickly Russian thistle         Sonchus asper - spiny sowthistle	
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	Rhus integrifolia - lemonade berry
Sonchus asper - spiny sowthistle	Salsola tragus - prickly Russian thistle
	Sonchus asper - spiny sowthistle
Stipa lepida - foothill needlegrass	Stipa lepida - foothill needlegrass

Notes/Comments: None

Annual Covered Plant Monitoring Photo Vernal Pool ID: 876



Photo taken: 5/14/2019 Photo location is -117.01827034700, 32.57163438250 NAD83 State Plane California Zone 6 (feet)

Planning Unit: North Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: No

Planning Unit: North City or Other? City	Managing Department: Park_Recreation
Baseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
ualitative Monitoring Data:	
/isit Date: 2/4/2019         Start Time: 1:30:00	
Surveyors: Jason Allen	
Site Conditions:	
Ponded Water: yes Days Since Last Rain: 1	
Listed Plants Visible? Absent Listed Pla	ints:
New and Ongoing Issues Observed During Visit: Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects: Ongoing
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Are other issues observed is new or ongoing.	
Management Needs: Fencerenair Weedcontrol Tr	ash nickup Grading, recontouring Regularnatrolsrecommended
-	ash_pickup,Grading_recontouring,Regularpatrolsrecommended
Other Management Needs:	ash_pickup,Grading_recontouring,Regularpatrolsrecommended
Other Management Needs: Additional Management Actions Recommended:	
Other Management Needs:	
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds erodium, grasses. pics of lopez ridge	
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds erodium, grasses. pics of lopez ridge	
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds erodium, grasses. pics of lopez ridge /isit Date: 4/3/2019 Start Time: 4:30:00 Surveyors: Jason Allen	
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds erodium, grasses. pics of lopez ridge /isit Date: 4/3/2019 Start Time: 4:30:00 Surveyors: Jason Allen Site Conditions:	e also.
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds erodium, grasses. pics of lopez ridge /isit Date: 4/3/2019 Start Time: 4:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1	e also. 5 Fairy Shrimp Visible?
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds erodium, grasses. pics of lopez ridge /isit Date: 4/3/2019 Start Time: 4:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1 Listed Plants Visible? Absent Listed Plants	e also. 5 Fairy Shrimp Visible?
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds erodium, grasses. pics of lopez ridge Visit Date: 4/3/2019 Start Time: 4:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1 Listed Plants Visible? Absent Listed Pla New and Ongoing Issues Observed During Visit:	e also. -5 Fairy Shrimp Visible? ints:
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds erodium, grasses. pics of lopez ridge /isit Date: 4/3/2019 Start Time: 4:30:00 surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1 Listed Plants Visible? Absent Listed Pla New and Ongoing Issues Observed During Visit: Trash: Ongoing	e also. 5 Fairy Shrimp Visible? Ints: Tresspass/Unauthorized Use: Ongoing
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds erodium, grasses. pics of lopez ridge Visit Date: 4/3/2019 Start Time: 4:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1 Listed Plants Visible? Absent Listed Pla New and Ongoing Issues Observed During Visit:	e also. -5 Fairy Shrimp Visible? Ints: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression:
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds erodium, grasses. pics of lopez ridge /isit Date: 4/3/2019 Start Time: 4:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1 Listed Plants Visible? Absent Listed Pla New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing	e also. -5 Fairy Shrimp Visible? Ints: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects:
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds erodium, grasses. pics of lopez ridge /isit Date: 4/3/2019 Start Time: 4:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1 Listed Plants Visible? Absent Listed Pla New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs:	e also. -5 Fairy Shrimp Visible? Ints: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression:
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds erodium, grasses. pics of lopez ridge /isit Date: 4/3/2019 Start Time: 4:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1 Listed Plants Visible? Absent Listed Pla New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing	e also. -5 Fairy Shrimp Visible? Ints: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds erodium, grasses. pics of lopez ridge /isit Date: 4/3/2019 Start Time: 4:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1 Listed Plants Visible? Absent Listed Pla New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,RestReveg,Sign	e also. -5 Fairy Shrimp Visible? Ints: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds erodium, grasses. pics of lopez ridge Visit Date: 4/3/2019 Start Time: 4:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1 Listed Plants Visible? Absent Listed Pla New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,RestReveg,Sign rpatrolsrecommended	e also. -5 Fairy Shrimp Visible? ints: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Other Management Needs: Additional Management Actions Recommended: Notes: Weeds erodium, grasses. pics of lopez ridge /isit Date: 4/3/2019 Start Time: 4:30:00 surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: 1 Listed Plants Visible? Absent Listed Pla New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,RestReveg,Sign	e also. -5 Fairy Shrimp Visible? Ints: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: n_install,Trash_pickup,Fencerepair,Grading_recontouring,Regula

ear: 2019		
	<b>a b b b b b b b b b b</b>	
omplex Name: City_	_Crescent_Heights	
isit Date: 6/28/2019	Start Time: 17:30:00	
urveyors: Jason Allen		
Site Conditions:		
Ponded Water: n	<b>Days Since Last Rain:</b> >16	Fairy Shrimp Visible?
Listed Plants Visi	ible? Absent Listed Plants	:
New and Ongoing Iss	ues Observed During Visit:	
Trash: Ongoing		Tresspass/Unauthorized Use:
Damage to Fence	es and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species	in Pool: Ongoing	Damage from Edge Effects:
Invasive Species	in Buffer: Ongoing	Hydrological Impacts:
Other issues obs	erved:	
Are other issues	observed is new or ongoing?	
Management Needs:	RestReveg,Weedcontrol,Gradin	g_recontouring,Regularpatrolsrecommended
Other Management N		
Additional Managem	ent Actions Recommended: Par	dee still hasnt fully turned over pools.
Notes: Pulled stinkwo entrance and	-	st side had stinkwort also needs to be sprayed. Mel rep near gat

Management Actions Completed:

## **Qualitative Management Monitoring Photos**



- Photo taken: 4/24/2018
- Photo description: Fence section missing.



- Photo taken: 2/4/2019
- Photo description: Fence repaired to deter illegal trespass.

## **Qualitative Management Monitoring Photos**



- Photo taken: 2/4/2019
- Photo description: Inundated vernal pool in old road rut.



- Photo taken: 2/4/2019
- Photo description: Trash/debris onsite.

## **Qualitative Management Monitoring Photos**



- Photo taken: 4/3/2019
- Photo description: Invasive species nonnative grasses present in vernal pool and upland buffer areas.



- Photo taken: 4/3/2019
- Photo description: Trash/debris onsite.

## **Qualitative Management Monitoring Photos**



- Photo taken: 6/28/2019
- Photo description: Invasive species nonnative grasses present in vernal pool and upland buffer areas.



- Photo taken: 6/28/2019
- Photo description: Invasive plant Stinkwort (*Dittrichia graveolens*) found onsite and hand pulled.

# Del Mar Mesa

Planning Unit: North Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: Yes

Managing Department: Park_Recreation & Public Uti
VPHCP Required Management and Monitoring Level:
s:
Tresspass/Unauthorized Use: Ongoing
Fire or Damage from Fire Suppression:
Damage from Edge Effects:
Hydrological Impacts:
ommended
5 Fairy Shrimp Visible? Present
s:
Tresspass/Unauthorized Use: Ongoing
Fire or Damage from Fire Suppression:
Damage from Edge Effects:
Hydrological Impacts:
in bike tracks observed in pools.

Year: 2019	Shing and Management Actions
Complex Name: City_Del_Mar_Mesa_City	
Visit Date: 3/14/2019 Start Time: 10:00:00	
Surveyors: Cheryl Jenkins	
Site Conditions:	Faire Chairen Maikle 2 Abaant
Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plants:	Fairy Shrimp Visible? Absent
New and Ongoing Issues Observed During Visit:	
Trash:	Tresspass/Unauthorized Use: Ongoing
Damage to Fences and/or Signs: Ongoing	Fire or Damage from Fire Suppression:
Invasive Species in Pool:	Damage from Edge Effects:
Invasive Species in Buffer:	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Fencerepair,Sign_install	
Other Management Needs:	
Additional Management Actions Recommended:	
Notes: Mountain bike trails through pool.	
Visit Date: 3/21/2019 Start Time: 22:30:00	
Surveyors: Jason Allen	
Site Conditions:	
Ponded Water: yes Days Since Last Rain: 1-5	Fairy Shrimp Visible? Absent
Listed Plants Visible? Present Listed Plants	:
New and Ongoing Issues Observed During Visit: Trash: Ongoing	Tresspass/Unauthorized Use: Ongoing
Damage to Fences and/or Signs: Ongoing	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
	epair,Sign_replacement,Trash_pickup,Grading_recontouring,
Regularpatrolsrecommended	
Other Management Needs:	
Additional Management Actions Recommended: Fen	ce repair, weed control.
Notes: Unmapped road pools.	

Year: 2019	mig and management Actions
Complex Name: City_Del_Mar_Mesa_City	
Visit Date: 5/31/2019 Start Time: 10:15:00	
Surveyors: Cheryl Jenkins	
Site Conditions:	
Ponded Water: no Days Since Last Rain: 6-15	Fairy Shrimp Visible?
Listed Plants Visible? Absent Listed Plants:	
New and Ongoing Issues Observed During Visit: Trash:	Tresspass/Unauthorized Use: Ongoing
Damage to Fences and/or Signs: Ongoing	Fire or Damage from Fire Suppression:
Invasive Species in Pool:	Damage from Edge Effects:
Invasive Species in Buffer:	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Fencerepair,Sign_replacement,G	rading recontouring
Other Management Needs:	<u> </u>
Additional Management Actions Recommended:	
Notes:	
Visit Date:         5/31/2019         Start Time:         6:30:00	
Surveyors: Jason Allen, Mark Berninger, Diana Brand, Jess	sie Lane
Site Conditions:	
Ponded Water: yes Days Since Last Rain: 1-5	Fairy Shrimp Visible? Absent
Listed Plants Visible? Present Listed Plants:	
New and Ongoing Issues Observed During Visit:	
Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol,Regularpatrolsrecc ement,RestReveg	mmended,Trash_pickup,Fencerepair,Gaterepair,Sign_replac
Other Management Needs:	
Additional Management Actions Recommended: Tras	h pickup, weed maintenance.
Notes: Fence/sign maintenance needed.	

Year: 2019 Complex Name: City_Del_Mar_Mesa_City	
Management Actions Completed: Date: 1/23/2019 Completed by: Melanie Fontana, Volunteers Contractor (if applicable) Management Actions Completed: Repair fence. Notes/Comments:	
Date: 3/21/2019 Completed by: Melanie Fontana Contractor (if applicable) Management Actions Completed: Hand-pulled invasive plants Notes/Comments:	
<ul> <li>Date: 4/5/2019 Completed by: Melanie Fontana, Gina Washington, Volunteers</li> <li>Contractor (if applicable)</li> <li>Management Actions Completed: Install fencing and brush to block access.</li> <li>Notes/Comments:</li> </ul>	
<ul> <li>Date: 4/19/2019 Completed by: Melanie Fontana, Volunteers</li> <li>Contractor (if applicable)</li> <li>Management Actions Completed: Repair fencing and brush blocking access.</li> <li>Notes/Comments:</li> </ul>	
<ul> <li>Date: 4/24/2019 Completed by: Melanie Fontana, Volunteers</li> <li>Contractor (if applicable)</li> <li>Management Actions Completed: Repair fencing and brush blocking access.</li> <li>Notes/Comments:</li> </ul>	
<ul> <li>Date: 5/8/2019 Completed by: Melanie Fontana, Volunteers</li> <li>Contractor (if applicable)</li> <li>Management Actions Completed: Repair and extend fencing and brush blocking access.</li> <li>Notes/Comments:</li> </ul>	
<ul> <li>Date: 5/14/2019 Completed by: Lisa Wood, Mike Kelly, Brian Swanson</li> <li>Contractor (if applicable)</li> <li>Management Actions Completed: Hand-pulled invasive plants</li> <li>Notes/Comments: Very minor - site in good shape.</li> </ul>	

Year: 2019 Complex Name: City_Del_Mar_Mesa_City
<ul> <li>Date: 5/17/2019 Completed by: Melanie Fontana, Volunteers</li> <li>Contractor (if applicable)</li> <li>Management Actions Completed: Repair and extend fencing and brush blocking access.</li> <li>Notes/Comments:</li> </ul>
<ul> <li>Date: 5/25/2019 Completed by: Melanie Fontana, Volunteers</li> <li>Contractor (if applicable)</li> <li>Management Actions Completed: Repair and extend fencing and brush blocking access.</li> <li>Notes/Comments:</li> </ul>
<ul> <li>Date: 5/29/2019 Completed by: Melanie Fontana, Volunteers</li> <li>Contractor (if applicable)</li> <li>Management Actions Completed: Install or replace closure signs. Repair and extend fencing and brush blocking access. Repair rock barrier.</li> <li>Notes/Comments:</li> </ul>
<ul> <li>Date: 6/3/2019 Completed by: Melanie Fontana, Volunteers</li> <li>Contractor (if applicable)</li> <li>Management Actions Completed: Repair and extend fencing and brush blocking access. Educate and enforce closure</li> <li>Notes/Comments:</li> </ul>
Date: 6/8/2019 Completed by: Melanie Fontana, Volunteers Contractor (if applicable) Management Actions Completed: Repair and extend fencing and brush blocking access. Educate and enforce closure Notes/Comments:

# Del Mar Mesa (PUD)

Management Monitoring Photos



- Photo taken: March 14, 2019
- Photo description: View of vernal pool with bike tracks within it. View west



- Photo taken: January 25, 2019
- Photo description: View of fence with missing planks allowing for unauthorized bike and pedestrian access. View northeast

# Del Mar Mesa

**Qualitative Management Monitoring Photos** 



- Photo taken: 3/21/2019
- Photo description: Fence and branches used to block old access road that has vernal pools.



- Photo taken: 3/21/2019
- Photo description: Fence preventing illegal access broken.

## **Del Mar Mesa** Qualitative Management Monitoring Photos



- Photo taken: 3/21/2019
- Photo description: Illegal off-road tracks through trail vernal pool.



- Photo taken: 3/21/2019
- Photo description: Fence preventing illegal access broken.

## **Del Mar Mesa** Qualitative Management Monitoring Photos



- Photo taken: 3/21/2019
- Photo description: Trash/debris onsite.



- Photo taken: 5/31/2019
- Photo description: Broken fence temporarily barricaded to prevent illegal access.

#### **Annual VPHCP Covered Plant Monitoring**

Survey Year: 2019		Page 1 of 2
Complex Name: City_Del_Mar_Mesa	a_City	VP_ID: 1255
Photopoint X: -117.16229935200	Photopoint Y: 32.94828019670	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 25.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/31/2019	Survey Start Time: 12:39 PM	Survey End Time: 1:13 PM
Surveyors: Jason Allen, Jessie Lane		
VPHCP Covered Species Present: ER	AR	
Cover of ERAR in Basin 25-50%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
<b>Other Native Species in Pool:</b>		
Species N	lame	Cover
Bloomeria sp goldenstar		<1%
Crassula connata - sand pygmyweed		<1%
Deinandra fasciculata - clustered tarweed		25-50%
Deschampsia danthonioides - annual hairgrass		<1%
Navarretia hamata - hooked pincushionplant		1-5%
Plantago elongata - annual coast plantago		<1%
Psilocarphus brevissimus - woolly marble		1-5%
Selaginella cinerascens - mesa spikemoss		1-5%
Sisyrinchium bellum - Western blue-eyed grass		<1%
Stipa lepida - footh	ill needlegrass	<1%
Zeltnera venusta - ch	arming centaury	25-50%

Cover of Other Native Species in Basin 75-100% Native Species Richness in Basin: 12

#### **Nonnative Species in Pool**

Species Name	Cover
Festuca myuros - rattail sixweeks grass	<1%
Gastridium phleoides - nit grass	<1%

**Cover of Nonnative Species in Basin:** <1% Nonnative Species Richness in Basin: 2

Bare Ground Cover in Basin 5-10% **Cover of Rocks/Cobble in Basin:** 5-10% **Cover of Litter in Basin:** <1%

**Days Since Last Rain** 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

#### **Annual VPHCP Covered Plant Monitoring**

Survey Year: 2019

Complex Name: City\_Del\_Mar\_Mesa\_City

Page 2 of 2

VP\_ID: 1255

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon glaber - deerweed
Adenostoma fasciculatum - chamise
Bloomeria sp goldenstar
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Chlorogalum parviflorum - smallflower soap plant
Deinandra fasciculata - clustered tarweed
Deschampsia danthonioides - annual hairgrass
Eriogonum elongatum - longstem buckwheat
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Gastridium phleoides - nit grass
Geranium carolinianum - Carolina geranium
Myosurus minimus - little mouse tail
Navarretia hamata - hooked pincushionplant
Polypogon monspeliensis - annual rabbitsfoot grass
Psilocarphus brevissimus - woolly marble
Quercus dumosa - Nuttall's scrub oak
Rhus integrifolia - lemonade berry
Selaginella cinerascens - mesa spikemoss
Stipa lepida - foothill needlegrass
Uropappus lindleyi - silver puffs
Zeltnera venusta - charming centaury

Notes/Comments: None

# Del Mar Mesa

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1255



Photo taken: 5/31/2019 Photo location is -117.16229935200, 32.94828019670 NAD83 State Plane California Zone 6 (feet)

#### **Annual VPHCP Covered Plant Monitoring**

Survey Year: 2019		Page 1 of 2
Complex Name: City_Del_Mar_Me	sa_City	VP_ID: 1260
Photopoint X: -117.16253411000	Photopoint Y: 32.94855410090	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 30.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/31/2019	Survey Start Time: 12:42 PM	Survey End Time: 1:08 PM
Surveyors: Mark Berninger, Diana	Brand-Ramirez	
VPHCP Covered Species Present: E	RAR,POAB	
Cover of ERAR in Basin 5-10%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin $< 1\%$	Cover of PONU in Basin	
Other Native Species in Pool:		
Species	Name	Cover
Deinandra fasciculata	- clustered tarweed	10-25%
Deschampsia danthonio	ides - annual hairgrass	1-5%
Eleocharis macrostachy	a - common spikerush	1-5%
Juncus bufoniu	is - toad rush	<1%
Navarretia hamata - ho	oked pincushionplant	<1%
Psilocarphus brevissir	nus - woolly marble	1-5%
Zeltnera venusta - c	harming centaury	1-5%

#### **Nonnative Species in Pool**

Species Name	Cover
Gastridium phleoides - nit grass	<1%
Phalaris minor - littleseed canarygrass	<1%

Cover of Nonnative Species in Basin:	<1% Nonnative Species Richness	s in Basin: 2
Bare Ground Cover in Basin 10-25%	Cover of Rocks/Cobble in Basin: 5-10%	Cover of Litter in Basin: <1%
Days Since Last Rain 1-5	Ponded Water Present? no	

Dead Species Present in Pool: None

#### **Annual VPHCP Covered Plant Monitoring**

Survey Year: 2019

Complex Name: City\_Del\_Mar\_Mesa\_City

Page 2 of 2

VP\_ID: 1260

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Adenostoma fasciculatum - chamise
Apiastrum angustifolium - mock parsley
Artemisia californica - coastal sagebrush
Bloomeria sp goldenstar
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Calochortus splendens - splendid mariposa lily
Chlorogalum parviflorum - smallflower soap plant
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Deschampsia danthonioides - annual hairgrass
Eriogonum fasciculatum - Eastern Mojave buckwheat
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Gastridium phleoides - nit grass
Heteromeles arbutifolia - toyon
Juncus bufonius - toad rush
Navarretia hamata - hooked pincushionplant
Opuntia littoralis - coastal pricklypear
Pseudognaphalium sp cudweed
Psilocarphus tenellus - short woollyheads
Quercus dumosa - Nuttall's scrub oak
Rhus integrifolia - lemonade berry
Salvia mellifera - black sage
Sisyrinchium bellum - Western blue-eyed grass
Stipa lepida - foothill needlegrass
Stipa pulchra - purple needlegrass
Zeltnera venusta - charming centaury

Notes/Comments: None

# Del Mar Mesa

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1260



Photo taken: 5/31/2019 Photo location is -117.16253411000, 32.94855410090 NAD83 State Plane California Zone 6 (feet)

#### **Annual VPHCP Covered Plant Monitoring**

Survey Year: 2019		Page 1 of 2
Complex Name: City_Del_Mar_Mesa	a_City	VP_ID: 1264
Photopoint X: -117.16678602000	Photopoint Y: 32.95107186890	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 15.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/31/2019	Survey Start Time: 9:46 AM	Survey End Time: 10:22 AM
Surveyors: Jason Allen, Jessie Lane		
VPHCP Covered Species Present: ER	AR	
Cover of ERAR in Basin 10-25%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
<b>Other Native Species in Pool:</b>		
Species N	ame	Cover
Crassula aquatica - Aqu	uatic pygmy weed	1-5%
Crassula connata - sa	and pygmyweed	<1%
Deinandra fasciculata -	clustered tarweed	5-10%
Deschampsia danthonioid	les - annual hairgrass	<1%
Eleocharis macrostachya	- common spikerush	1-5%
Juncus bufonius	- toad rush	<1%
Myosurus minimus -	little mouse tail	<1%
Navarretia hamata - hoo	ked pincushionplant	1-5%
Plantago elongata - anr	ual coast plantago	<1%
Psilocarphus brevissim	us - woolly marble	1-5%
Selaginella cinerascens	- mesa spikemoss	<1%
Zeltnera venusta - ch	arming centaury	<1%

Cover of Other Native Species in Basin 25-50% Native Species Richness in Basin: 13

#### **Nonnative Species in Pool**

Species Name	Cover
Festuca myuros - rattail sixweeks grass	1-5%
Gastridium phleoides - nit grass	<1%

Cover of Nonnative Species in Basin: 1-5% Nonnative Species Richness in Basin: 2

Bare Ground Cover in Basin5-10%Cover of Rocks/Cobble in Basin:25-50%

Ponded Water Present? no

Cover of Litter in Basin: 1-5%

Days Since Last Rain 1-5

Dead Species Present in Pool: None

onded Water Present. No
Survey Year: 2019

Complex Name: City\_Del\_Mar\_Mesa\_City

Page 2 of 2

VP\_ID: 1264

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Adenostoma fasciculatum - chamise
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Crassula connata - sand pygmyweed
Deinandra fasciculata - clustered tarweed
Eleocharis macrostachya - common spikerush
Erigeron canadensis - Canada horseweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Hypochaeris glabra - smooth cat's ear
Isocoma menziesii - Menzies' goldenbush
Juncus bufonius - toad rush
Lythrum hyssopifolia - hyssop loosestrife
Navarretia hamata - hooked pincushionplant
Psilocarphus tenellus - short woollyheads
Quercus dumosa - Nuttall's scrub oak
Rhus integrifolia - lemonade berry
Selaginella cinerascens - mesa spikemoss
Sonchus asper - spiny sowthistle
Stipa lepida - foothill needlegrass
Zeltnera venusta - charming centaury

Notes/Comments: None

## Del Mar Mesa

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1264



Photo taken: 5/31/2019 Photo location is -117.16678602000, 32.95107186890 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019			Page 1 of 2	
Complex Name: City_Del_Mar_Mesa	a_City		VP_ID: 1272	
Photopoint X: -117.16735599900	Photopoint Y: 32.95125943	050 Photopoint Es	stablished: 2018	
2003 Baseline Survey Data				
Baseline Cover of ERAR: 10.0	Baseline Cover of NAFO:	0.0 Baseline Co	over of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU:	0.0		
2019 Quantitative Monitoring Data				
Survey Date 5/31/2019	Survey Start Time: 10:32	AM Survey End Tip	<b>me:</b> 11:17 AM	
Surveyors: Jason Allen, Mark Bernin	ger, Jessie Lane, Diana Brand F	amirez		
VPHCP Covered Species Present: ER	AR			
Cover of ERAR in Basin 25-50%	Cover of NAFO in Bas	in: Cover	of ORCA in Basin	
Cover of POAB in Basin	Cover of PONU in Basi	l		
Other Native Species in Pool:				
Species N	lame		Cover	
Adenostoma fascicu	latum - chamise		<1%	
Callitriche marginata - Cal	ifornia water starwort		<1%	
Crassula aquatica - Aq	uatic pygmy weed		<1%	
Crassula connata - sa	and pygmyweed		<1%	
Deinandra fasciculata -	clustered tarweed		10-25%	
Deschampsia danthonioid	des - annual hairgrass		<1%	
Juncus bufonius	- toad rush		<1%	
Juncus effusus	- bog rush		1-5%	
Navarretia hamata - hoo	Navarretia hamata - hooked pincushionplant		1-5%	
Plantago elongata - anr	Plantago elongata - annual coast plantago <1%		<1%	
Psilocarphus brevissim	us - woolly marble		1-5%	
Selaginella cinerascens	s - mesa spikemoss		<1%	
Stipa lepida - footh	ill needlegrass		<1%	
Zeltnera venusta - ch	arming centaury		<1%	

**Cover of Other Native Species in Basin** 25-50% **Native Species Richness in Basin:** 15

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Bromus madritensis - compact brome	<1%
Festuca myuros - rattail sixweeks grass	<1%
Gastridium phleoides - nit grass	<1%
Logfia gallica - narrowleaf cottonrose	<1%

**Cover of Nonnative Species in Basin:** 1-5%

Nonnative Species Richness in Basin: 5

**Cover of Litter in Basin:** <1%

Bare Ground Cover in Basin10-25%Cover of Rocks/Cobble in Basin:25-50%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Del\_Mar\_Mesa\_City

Page 2 of 2

VP\_ID: 1272

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon glaber - deerweed
Acmispon micranthus - small flowered lotus
Adenostoma fasciculatum - chamise
Antirrhinum nuttallianum - Nuttall's snapdragon
Avena sp oat
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Calochortus splendens - splendid mariposa lily
Centaurea melitensis - Maltese star-thistle
Chlorogalum parviflorum - smallflower soap plant
Chorizanthe polygonoides - knotweed spineflower
Crassula connata - sand pygmyweed
Deinandra fasciculata - clustered tarweed
Eriogonum elongatum - longstem buckwheat
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Gastridium phleoides - nit grass
Hedypnois cretica - Cretanweed
Hypochaeris glabra - smooth cat's ear
Juncus bufonius - toad rush
Juncus effusus - bog rush
Logfia gallica - narrowleaf cottonrose
Myosurus minimus - little mouse tail
Navarretia hamata - hooked pincushionplant
Psilocarphus brevissimus - woolly marble
Quercus dumosa - Nuttall's scrub oak
Rhus integrifolia - lemonade berry
Stephanomeria exigua - small wirelettuce
Stipa lepida - foothill needlegrass
Stipa pulchra - purple needlegrass
Uropappus lindleyi - silver puffs
Xylococcus bicolor - mission manzanita
Yucca schidigera - Mojave yucca
Zeltnera venusta - charming centaury

Notes/Comments: None

## Del Mar Mesa

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1272



Photo taken: 5/31/2019 Photo location is -117.16735599900, 32.95125943050 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Del_Mar_Mesa	a_City	VP_ID: 1275
Photopoint X: 0.00000000000	Photopoint Y: 0.00000000000	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 15.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/14/2019	Survey Start Time: 9:36 AM	Survey End Time:
Surveyors: Lisa Wood, Mike Kelly, B	rian Swanson	
VPHCP Covered Species Present: ER	AR	
Cover of ERAR in Basin 25-50%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
<b>Other Native Species in Pool:</b>		
Species N	lame	Cover
Deinandra fasciculata -	clustered tarweed	1-5%
Navarretia hamata - hoo	ked pincushionplant	<1%
Selaginella cinerascens	- mesa spikemoss	<1%

 Cover of Nonnative Species in Basin: 0
 Nonnative Species Richness in Basin: 0

 Bare Ground Cover in Basin 5-10%
 Cover of Rocks/Cobble in Basin: 25-50%
 Cover of Litter in Basin: <1%</td>

 Days Since Last Rain 1-5
 Ponded Water Present? no
 Cover of Litter in Basin: <1%</td>

 Dead Species Present in Pool: None
 Vertice of the second s

Survey Year: 2019	Page 2 of 2
Complex Name: City_Del_Mar_Mesa_City	VP_ID: 1275
2019 Quantitative Monitoring Data continued	
Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)	
Species Name	
Adenostoma fasciculatum - chamise	
Calochortus splendens - splendid mariposa lily	
Deinandra fasciculata - clustered tarweed	
Eryngium aristulatum var. parishii - San Diego button celery	
Quercus berberidifolia - scrub oak	
Rhus integrifolia - lemonade berry	
Selaginella cinerascens - mesa spikemoss	
Zeltnera venusta - charming centaury	

Notes/Comments: First pool after krail

## Del Mar Mesa

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1275



Photo taken: 5/31/2019 Photo location is not available

<u> </u>		<u> </u>
Survey Year: 2019		Page 1 of 2
Complex Name: City_Del_Mar_Me	sa_City	VP_ID: 1842
Photopoint X: -117.16633286200	Photopoint Y: 32.94482095	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 0.0	Baseline Cover of NAFO:	0.0 Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 15.0	Baseline Cover of PONU:	0.0
2019 Quantitative Monitoring Data		
Survey Date 5/31/2019	Survey Start Time: 1:48	PM Survey End Time: 2:12 PM
Surveyors: Jason Allen, Jessie Lane	, Mark Berninger, Diana Brand F	łamirez
VPHCP Covered Species Present: P	OAB,ERAR	
Cover of ERAR in Basin <1%	Cover of NAFO in Basir	: Cover of ORCA in Basin
Cover of POAB in Basin 1-5%	Cover of PONU in Basi	n
Other Native Species in Pool:		
Species	Name	Cover
Callitriche marginata - Ca	llifornia water starwort	<1%
Cuscuta occidentalis	- chaparral dodder	<1%
Deinandra fasciculata	- clustered tarweed	<1%
Deschampsia danthonio	ides - annual hairgrass	<1%
Juncus bufoniu	ıs - toad rush	<1%
Lasthenia coronaria	i - royal goldfields	<1%
Myosurus minimus	- little mouse tail	<1%
Navarretia hamata - ho	oked pincushionplant	<1%
Plantago elongata - ar	nnual coast plantago	<1%
Psilocarphus brevissir	nus - woolly marble	<1%
Psilocarphus tenellus	<ul> <li>short woollyheads</li> </ul>	<1%
Selaginella cinerascer	•	<1%
Zeltnera venusta - c	harming centaury	<1%
Cover of Other Native Species in B	asin 1-5% Native Species	s Richness in Basin: 14
Nonnative Species in Pool		
Species	Name	Cover
Bromus madritensis	- compact brome	<1%
Festuca myuros - rat	tail sixweeks grass	<1%

Bromus madritensis - compact brome	<1%
Festuca myuros - rattail sixweeks grass	<1%
Gastridium phleoides - nit grass	<1%
Logfia gallica - narrowleaf cottonrose	<1%

Cover of Nonnative Species in Basin: <1%

Nonnative Species Richness in Basin: 4

Bare Ground Cover in Basin 50-75% Cover of Rocks/Cobble in Basin: 25-50%

Ponded Water Present? no

**Cover of Litter in Basin:** <1%

Days Since Last Rain 1-5

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Del\_Mar\_Mesa\_City

Page 2 of 2

VP\_ID: 1842

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon glaber - deerweed
Adenostoma fasciculatum - chamise
Adolphia californica - California adolphia
Antirrhinum nuttallianum - Nuttall's snapdragon
Avena sp oat
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Camissoniopsis sp suncups
Centaurea melitensis - Maltese star-thistle
Chlorogalum parviflorum - smallflower soap plant
Cneoridium dumosum - bush rue
Crassula connata - sand pygmyweed
Cryptantha sp cryptantha
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Deschampsia danthonioides - annual hairgrass
Dichelostemma capitatum - bluedicks
Eriophyllum confertiflorum - golden yarrow
Heteromeles arbutifolia - toyon
Hypochaeris glabra - smooth cat's ear
Juncus bufonius - toad rush
Lasthenia coronaria - royal goldfields
Logfia gallica - narrowleaf cottonrose
Lysimachia arvensis - scarlet pimpernel
Lythrum hyssopifolia - hyssop loosestrife
Malosma laurina - laurel sumac
Marah macrocarpus - Cucamonga manroot
Navarretia hamata - hooked pincushionplant
Osmadenia tenella - false rosinweed
Pentagramma triangularis - goldbeck fern
Pseudognaphalium beneolens - cudweed
Pseudognaphalium sp cudweed
Salvia mellifera - black sage
Selaginella cinerascens - mesa spikemoss
Toxicoscordion fremontii - Fremont's star lily
Uropappus lindleyi - silver puffs
Xylococcus bicolor - mission manzanita
Zeltnera venusta - charming centaury

Notes/Comments: None

## Del Mar Mesa

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1842



Photo taken: 5/31/2019 Photo location is -117.16633286200, 32.94482095060 NAD83 State Plane California Zone 6 (feet)

Photopoint X: -117.16940824700       Photopoint Y: 32.95191682820       Photopoint Established:         2003 Baseline Survey Data       Baseline Cover of ERAR:       0.5       Baseline Cover of NAFO:       0.0       Baseline Cover of ORC         Baseline Cover of POAB:       0.0       Baseline Cover of PONU:       0.0       0.0         2019 Quantitative Monitoring Data       Survey Date 5/31/2019       Survey Start Time:       9:44 AM       Survey End Time:       10:12 /         Surveyors:       Mark Berninger, Diana Brand-Ramirez       VPHCP Covered Species Present:       ERAR       Cover of NAFO in Basin:       Cover of ORCA in         Cover of POAB in Basin       Cover of PONU in Basin       Cover of ORCA in       Cover         Other Native Species in Pool:       Species Name       Cover         Adenostoma fasciculatum - chamise       <1%          Deinandra fasciculata - clustered tarweed       <1%	vey Year: 2019		Page 1 of 2
2003 Baseline Survey Data         Baseline Cover of ERAR:       0.5       Baseline Cover of NAFO:       0.0       Baseline Cover of ORC         Baseline Cover of POAB:       0.0       Baseline Cover of PONU:       0.0       0.0         2019 Quantitative Monitoring Data       0.0       Survey Date 5/31/2019       Survey Start Time:       9:44 AM       Survey End Time:       10:12 /         Surveyors:       Mark Berninger, Diana Brand-Ramirez       VPHCP Covered Species Present:       ERAR         Cover of ERAR in Basin       1-5%       Cover of NAFO in Basin:       Cover of ORCA in Cover of ORCA in Cover of POAB in Basin         Other Native Species in Pool:       Species Name       Cover         Adenostoma fasciculatum - chamise       <1%         Deinandra fasciculata - clustered tarweed       <1%	plex Name: City_Del_Mar_Me	sa_City	VP_ID: 2468
Baseline Cover of ERAR:       0.5       Baseline Cover of NAFO:       0.0       Baseline Cover of ORC         Baseline Cover of POAB:       0.0       Baseline Cover of PONU:       0.0       0.0         2019 Quantitative Monitoring Data       2019 Quantitative Monitoring Data       Survey Date 5/31/2019       Survey Start Time:       9:44 AM       Survey End Time:       10:12 /         Surveyors:       Mark Berninger, Diana Brand-Ramirez       VPHCP Covered Species Present:       ERAR       Cover of NAFO in Basin:       Cover of ORCA in         Cover of POAB in Basin       1-5%       Cover of PONU in Basin       Cover of ORCA in         Other Native Species in Pool:       Species Name       Cover         Adenostoma fasciculatum - chamise       <1%         Deinandra fasciculata - clustered tarweed       <1%	opoint X: -117.16940824700	Photopoint Y: 32.95191682820	Photopoint Established: 2018
Baseline Cover of POAB:       0.0       Baseline Cover of PONU:       0.0         2019 Quantitative Monitoring Data       Survey Start Time:       9:44 AM       Survey End Time:       10:12 A         Survey Date       5/31/2019       Survey Start Time:       9:44 AM       Survey End Time:       10:12 A         Survey Ore 5/31/2019       Survey Start Time:       9:44 AM       Survey End Time:       10:12 A         Surveyors:       Mark Berninger, Diana Brand-Ramirez       VPHCP Covered Species Present:       ERAR         VPHCP Covered Species Present:       ERAR       Cover of NAFO in Basin:       Cover of ORCA in         Cover of POAB in Basin       Cover of PONU in Basin       Cover of ORCA in         Other Native Species in Pool:       Cover       Adenostoma fasciculatum - chamise       <1%         Deinandra fasciculata - clustered tarweed       <1%        <1%	Baseline Survey Data		
2019 Quantitative Monitoring Data         Survey Date 5/31/2019       Survey Start Time: 9:44 AM       Survey End Time: 10:12 /         Surveyors: Mark Berninger, Diana Brand-Ramirez       VPHCP Covered Species Present: ERAR       Cover of NAFO in Basin:       Cover of ORCA in         Cover of POAB in Basin       Cover of PONU in Basin       Cover of ORCA in         Other Native Species in Pool:       Cover       Cover         Species Name       Cover         Adenostoma fasciculatum - chamise       <1%         Deinandra fasciculata - clustered tarweed       <1%	eline Cover of ERAR: 0.5	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Survey Date 5/31/2019       Survey Start Time: 9:44 AM       Survey End Time: 10:12 /         Surveyors: Mark Berninger, Diana Brand-Ramirez       VPHCP Covered Species Present: ERAR       Cover of NAFO in Basin:       Cover of ORCA in         Cover of ERAR in Basin 1-5%       Cover of NAFO in Basin:       Cover of ORCA in         Cover of POAB in Basin       Cover of PONU in Basin       Cover of ORCA in         Other Native Species in Pool:       Cover       Cover         Species Name       Cover       Cover         Adenostoma fasciculatum - chamise       <1%         Deinandra fasciculata - clustered tarweed       <1%	eline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
Surveyors: Mark Berninger, Diana Brand-Ramirez         VPHCP Covered Species Present: ERAR         Cover of ERAR in Basin 1-5%       Cover of NAFO in Basin:         Cover of POAB in Basin       Cover of PONU in Basin         Other Native Species in Pool:       Cover         Species Name       Cover         Adenostoma fasciculatum - chamise       <1%	Quantitative Monitoring Data		
VPHCP Covered Species Present: ERAR         Cover of ERAR in Basin 1-5%       Cover of NAFO in Basin:         Cover of POAB in Basin       Cover of PONU in Basin         Other Native Species in Pool:       Cover         Species Name       Cover         Adenostoma fasciculatum - chamise       <1%	rvey Date 5/31/2019	Survey Start Time: 9:44 AM	Survey End Time: 10:12 AM
Cover of ERAR in Basin 1-5%       Cover of NAFO in Basin:       Cover of ORCA in         Cover of POAB in Basin       Cover of PONU in Basin       Cover of ORCA in         Other Native Species in Pool:       Cover of PONU in Basin       Cover         Adenostoma fasciculatum - chamise       <1%	rveyors: Mark Berninger, Diana	Brand-Ramirez	
Cover of POAB in BasinCover of PONU in BasinOther Native Species in Pool:CoverSpecies NameCoverAdenostoma fasciculatum - chamise<1%	HCP Covered Species Present: E	RAR	
Other Native Species in Pool:Species NameCoverAdenostoma fasciculatum - chamise<1%	Cover of ERAR in Basin 1-5%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Species NameCoverAdenostoma fasciculatum - chamise<1%	Cover of POAB in Basin	Cover of PONU in Basin	
Adenostoma fasciculatum - chamise<1%Deinandra fasciculata - clustered tarweed<1%	ner Native Species in Pool:		
Deinandra fasciculata - clustered tarweed <1%	Species	Name	Cover
	Adenostoma fascic	ulatum - chamise	<1%
	Deinandra fasciculata	- clustered tarweed	<1%
Navarretia hamata - hooked pincushionplant <1%	Navarretia hamata - ho	oked pincushionplant	<1%
Selaginella cinerascens - mesa spikemoss <1%	Selaginella cinerascer	ns - mesa spikemoss	<1%
Cover of Other Native Species in Basin 1-5% Native Species Richness in Basin: 5	ver of Other Native Species in R	asin 1-5% Native Species Rich	ness in Basin: 5

Cover of Nonnative Species in Basin:	n: 0 Nonnative Species Richness in Basin: 0	
Bare Ground Cover in Basin 25-50%	Cover of Rocks/Cobble in Basin: 25-50%	Cover of Litter in Basin: <1%
Days Since Last Rain 1-5	Ponded Water Present? no	
Dead Species Present in Pool: None		

Survey Year: 2019

Complex Name: City\_Del\_Mar\_Mesa\_City

Page 2 of 2

VP\_ID: 2468

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Adenostoma fasciculatum - chamise
Artemisia californica - coastal sagebrush
Chlorogalum parviflorum - smallflower soap plant
Cneoridium dumosum - bush rue
Crassula connata - sand pygmyweed
Deinandra fasciculata - clustered tarweed
Navarretia hamata - hooked pincushionplant
Nuttallanthus texanus - Texas toadflax
Pseudognaphalium sp cudweed
Quercus dumosa - Nuttall's scrub oak
Rhus integrifolia - lemonade berry
Selaginella cinerascens - mesa spikemoss
Unknown - grass
Zeltnera venusta - charming centaury

Notes/Comments: None

## Del Mar Mesa

Annual Covered Plant Monitoring Photo Vernal Pool ID: 2468



Photo taken: 5/31/2019 Photo location is -117.16940824700, 32.95191682820 NAD83 State Plane California Zone 6 (feet)

## Goat Mesa

Planning Unit: South Land Owner: City of San Diego Managing Department: Public Utilities VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: Yes

Year: 2019	
Complex Name: City_Goat_Mesa	
Planning Unit: South City or Other? City	Managing Department: Pubic_Utilities
Baseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
Qualitative Monitoring Data:	
Visit Date: 2/7/2019 Start Time: 7:30:00	
Surveyors: Cheryl Jenkins, Jason Allen	
Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5	Fairy Shrimp Visible? Present
Listed Plants Visible? Present Listed Plants	
New and Ongoing Issues Observed During Visit:	5.
Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol, Dethatching, Rest	Reveg, Regular patrols recommended
Other Management Needs:	
Additional Management Actions Recommended: Up	coming weed management.
Notes:	
Visit Date: 4/2/2019 Start Time: 13:32:00	
Surveyors: Cheryl Jenkins, Jason Allen	
Site Conditions:	
Ponded Water: yes Days Since Last Rain: >16	Fairy Shrimp Visible? Absent
Listed Plants Visible? Present Listed Plants	s:
New and Ongoing Issues Observed During Visit:	- 4
Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
And other issues absented is new or enacing?	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol, Dethatching	
Management Needs: Weedcontrol, Dethatching Other Management Needs:	
Management Needs: Weedcontrol, Dethatching Other Management Needs:	bitat restoration occurring in Park and Rec lands adjacent to e.
Management Needs: Weedcontrol,Dethatching Other Management Needs: Additional Management Actions Recommended: Ha site	e. er pool area has a lot of erodium mixed with natives in the uplanc

Year: 2019	
Complex Name: City_Goat_Mesa	
Visit Date: 4/29/2019 Start Time: 8:30:00	
Surveyors: Cheryl Jenkins	
Site Conditions: Ponded Water: no Days Since Last Rain: >16 Listed Plants Visible? Present Listed Plants:	Fairy Shrimp Visible?
New and Ongoing Issues Observed During Visit:	
Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol, Dethatching	
Other Management Needs:	
Additional Management Actions Recommended: Som	ne weed control being done by park and rec.
Notes: Road coming in could use maintenance (veg tri	mming and fill of eroded ruts).
Vanagement Actions Completed:	

Management Actions Completed:

## **Goat Mesa** Management Monitoring Photos



- Photo taken: April 2, 2019
- Photo description: View of vernal pool with weeds along the perimeter. View north



- Photo taken: April 29, 2019
- Photo description: View of upper Goat Mesa vernal pool area with carpet of erodium and ice plant. View east

Survey Year: 2019		Page 1 of 2
Complex Name: City_Goat_Mesa		VP_ID: 2642
Photopoint X: -116.99989000000	Photopoint Y: 32.551957000	000 Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 5.0	Baseline Cover of NAFO:	<b>Baseline Cover of ORCA:</b> 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0	0.0
2019 Quantitative Monitoring Data		
Survey Date 4/29/2019	Survey Start Time: 8:30 A	M Survey End Time: 8:57 AM
Surveyors: Kayo Valenti and JR Sun	dberg, RECON: Cheryl Jenkins, Ci	ity
VPHCP Covered Species Present: E	RAR	
Cover of ERAR in Basin 10-25%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Species	Name	Cover
Deinandra fasciculata	<ul> <li>clustered tarweed</li> </ul>	10-25%
Lepidium nitidum - sl	nining pepperweed	<1%
Cover of Other Native Species in Ba	asin 10-25% Native Species	Richness in Basin: 3
Nonnative Species in Pool		
Species	Name	Cover
Centaurea melitensis -	Maltese star-thistle	<1%

Species Name	Cover
Centaurea melitensis - Maltese star-thistle	<1%
Erodium botrys - longbeak stork's bill	10-25%
Lysimachia arvensis - scarlet pimpernel	<1%

Cover of Nonnative Species in Basin: 10-25% Nonnative Species Richness in Basin: 3

Bare Ground Cover in Basin 25-50% Cover of Rocks/Cobble in Basin: 25-50% Cover of Litter in Basin: 1-5%

Days Since Last Rain >16 Ponded Water Present? no

Dead Species Present in Pool: Erodium is dying but counted as this season cover

Survey Year: 2019	Page 2 of 2
Complex Name: City_Goat_Mesa	VP_ID: 2642
2019 Quantitative Monitoring Data continued	
Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)	
Species Name	
Bromus madritensis - compact brome	
Centaurea melitensis - Maltese star-thistle	
Deinandra fasciculata - clustered tarweed	
Erodium botrys - longbeak stork's bill	
Eryngium aristulatum var. parishii - San Diego button celery	
Lysimachia arvensis - scarlet pimpernel	
Plantago erecta - California plantain	
Psilocarphus brevissimus - woolly marble	
Salsola tragus - prickly Russian thistle	
Selaginella cinerascens - mesa spikemoss	
Simmondsia chinensis - jojoba	

Notes/Comments: Did not likely pond for a substantial amount of time

## Greystone Torrey Highlands

Planning Unit: North Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: Yes

Planning Unit: North City or Other? City Baseline Management and Monitoring Level:	Managing Department: Park_Recreation VPHCP Required Management and Monitoring Level:
ualitative Monitoring Data:	
/isit Date: 1/4/2019 Start Time: 6:30:00	
urveyors: Rob Wheeler, Diana Brand, Jessie Lane	
Site Conditions:	
Ponded Water: yes Days Since Last Rain: 1-5	Fairy Shrimp Visible? Absent
Listed Plants Visible? Wrong_Tim Listed Plants:	
New and Ongoing Issues Observed During Visit: Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol	
Other Management Needs:	
Additional Management Actions Recommended:	
Notes: Non native grasses, thistle, erodium	
/isit Date: 2/12/2019 Start Time: 4:30:00	
Surveyors: Jason Allen	
Site Conditions:	
Ponded Water: yes Days Since Last Rain: 1-5	Fairy Shrimp Visible? Present
Listed Blancks Misthele 2 Descent Listed Blancks	
Listed Plants Visible? Present Listed Plants:	
New and Ongoing Issues Observed During Visit:	
New and Ongoing Issues Observed During Visit: Trash:	Tresspass/Unauthorized Use:
New and Ongoing Issues Observed During Visit:	
<u>New and Ongoing Issues Observed During Visit:</u> Trash: Damage to Fences and/or Signs:	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression:
New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed:	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing?	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,Regularpatrolsrecce	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:

Year: 2019	and Management Actions
Complex Name: City_Greystone_Torrey_Highlands	
Visit Date: 3/28/2019 Start Time: 1:30:00	
Surveyors: Jason Allen	
Site Conditions: Ponded Water: yes Days Since Last Rain: 6-15	Fairy Shrimp Visible? Absent
Listed Plants Visible? Present Listed Plants:	
New and Ongoing Issues Observed During Visit:	
Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol, Trash_pickup, Regu	larpatrolsrecommended
Other Management Needs:	
Additional Management Actions Recommended: We	ed control visit occurred 3/28/19.
Notes: Small stinkwort, sonchus, tocolote, erodium.	
Visit Date: 5/3/2019 Start Time: 16:30:00	
Surveyors: Jason Allen, Sara Allen, Mark Berninger	
Site Conditions:	
Ponded Water: yes Days Since Last Rain: 1-5	Fairy Shrimp Visible? Absent
Listed Plants Visible? Present Listed Plants:	
New and Ongoing Issues Observed During Visit: Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol,Regularpatrolsrecc	ommended
Other Management Needs:	
Additional Management Actions Recommended: We	ed control soon.
Notes: Dit Gra seedlings present.	

Year: 2019	
Complex Name: City_Greystone_Torrey_Highlands	
Management Actions Completed:	
Date: 10/9/2018 Completed by: Jason Allen, Scott Seyfried Contractor (if applicable) Management Actions Completed: Herbicide application to Notes/Comments:	
Date: 3/28/2019 Completed by: Jason Allen Contractor (if applicable) Management Actions Completed: Herbicide application to Notes/Comments:	invasive species.
Date: 6/28/2019 Completed by: Jason Allen Contractor (if applicable) Management Actions Completed: Herbicide application to Notes/Comments:	invasive species.

## **Greystone Torrey Highlands**

**Qualitative Management Monitoring Photos** 



- Photo taken: 2/12/2019
- Photo description: Inundated vernal pool with non-native grasses in buffer zone.



- Photo taken: 5/31/2019
- Photo description: Invasive plant Stinkwort (*Dittrichia graveolens*) present in vernal pool complex.

## **Greystone Torrey Highlands**

**Qualitative Management Monitoring Photos** 



- Photo taken: 5/31/2019
- Photo description: Large dead plant material in vernal pool.



- Photo taken: 6/28/2019
- Photo description: Invasive plant Stinkwort (*Dittrichia graveolens*) present in vernal pool complex.

Survey Year: 2019			Page 1 of 2
Complex Name: City_Gre	ystone_To	rrey_Highlands	VP_ID: 1177
Photopoint X: -117.152222	222000	Photopoint Y: 32.96055556000	Photopoint Established: 2019
2003 Baseline Survey Data			
Baseline Cover of ERAR:	1.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB:	3.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monito	ring Data		
Survey Date 5/3/2019		Survey Start Time: 9:55 AM	Survey End Time: 11:02 AM
Surveyors: Jason Allen, N	/lark Bernir	nger, Sara Allen	
VPHCP Covered Species F	Present: PC	DNU,ERAR	
Cover of ERAR in Basi	i <b>n</b> 5-10%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Bas	in	Cover of PONU in Basin 25	-50%
Other Native Species in P	<u>ool:</u>		
	Species N	Vame	Cover
Brodiaea	orcuttii - C	Orcutt's brodiaea	<1%
Callitriche mar	ginata - Cal	ifornia water starwort	1-5%
Deinandra f	asciculata -	clustered tarweed	1-5%
Deschampsia d	danthonioi	des - annual hairgrass	<1%
Eleocharis ma	crostachya	- common spikerush	1-5%
Isocoma me	enziesii - M	enzies' goldenbush	<1%
1000011101110		s - toad rush	1-5%
	us butonius		
Junc		bastal pricklypear	<1%

#### Nonnative Species in Pool

Species Name	Cover
Dittrichia graveolens	<1%
Erodium botrys - longbeak stork's bill	<1%
Festuca myuros - rattail sixweeks grass	<1%
Lythrum hyssopifolia - hyssop loosestrife	1-5%
Polypogon monspeliensis - annual rabbitsfoot grass	<1%
Sonchus asper - spiny sowthistle	<1%

Cover of Nonnative Species in Basin: 1-5% Nonnative Species Richness in Basin: 6

Bare Ground Cover in Basin 5-10%

Cover of Rocks/Cobble in Basin: 5-10%

Cover of Litter in Basin: <1%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Greystone\_Torrey\_Highlands

Page 2 of 2

VP\_ID: 1177

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon glaber - deerweed
Acmispon micranthus - small flowered lotus
Amsinckia intermedia - common fiddleneck
Artemisia californica - coastal sagebrush
Baccharis pilularis - coyotebrush
Baccharis sarothroides - desertbroom
Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Deinandra fasciculata - clustered tarweed
Deschampsia danthonioides - annual hairgrass
Dittrichia graveolens - Stinkwort
Eleocharis macrostachya - common spikerush
Encelia californica - California brittlebush
Erigeron canadensis - Canada horseweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Eriophyllum confertiflorum - golden yarrow
Erodium botrys - longbeak stork's bill
Festuca myuros - rattail sixweeks grass
Geranium californicum - California geranium
Heteromeles arbutifolia - toyon
Hypochaeris glabra - smooth cat's ear
Juncus bufonius - toad rush
Lactuca serriola - prickly lettuce
Logfia gallica - narrowleaf cottonrose
Lysimachia arvensis - scarlet pimpernel
Lythrum hyssopifolia - hyssop loosestrife
Navarretia hamata - hooked pincushionplant
Opuntia littoralis - coastal pricklypear
Plagiobothrys sp popcornflower
Pogogyne abramsii - San Diego mesa mint
Polypogon monspeliensis - annual rabbitsfoot grass
Pseudognaphalium stramineum - cottonbatting plant
Psilocarphus brevissimus - woolly marble
Quercus sp oak
Sonchus asper - spiny sowthistle
Stephanomeria diegensis - San Diego milk aster
Stipa pulchra - purple needlegrass
Unknown - grass
Yucca schidigera - Mojave yucca
Zeltnera venusta - charming centaury

Notes/Comments: Changed survey pool to a pool that contained both covered species in 2003

## **Greystone Torrey Highlands**

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1177



Photo taken: 5/3/2019 Photo location is -117.15222222, 32.96055556 NAD83 State Plane California Zone 6 (feet) Photos

Planning Unit: South Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: No

Planning Unit: South City or Other? City	
aseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
alitative Monitoring Data:	
isit Date: 1/31/2019 Start Time: 20:30:00	
urveyors: Jason Allen, Jessie Lane	
Site Conditions:	
Ponded Water: yes Days Since Last Rain:	
Listed Plants Visible? Present Listed P	Plants:
New and Ongoing Issues Observed During Visit: Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing	g?
Management Needs: Weedcontrol,Add_replace	lock,Trash pickup,Regularpatrolsrecommended
Other Management Needs:	
Other Management Needs:	: Weed management scheduled for Feb
Other Management Needs: Additional Management Actions Recommended Notes: Branchinecta sp. and tadpoles found in pr	: Weed management scheduled for Feb
Other Management Needs: Additional Management Actions Recommended Notes: Branchinecta sp. and tadpoles found in pr isit Date: 3/28/2019 Start Time: 0:30:00	I: Weed management scheduled for Feb ools 2590, 2594, 2593
Other Management Needs: Additional Management Actions Recommended Notes: Branchinecta sp. and tadpoles found in pr Visit Date: 3/28/2019 Start Time: 0:30:00	I: Weed management scheduled for Feb ools 2590, 2594, 2593
Other Management Needs: Additional Management Actions Recommended Notes: Branchinecta sp. and tadpoles found in pr Visit Date: 3/28/2019 Start Time: 0:30:00	I: Weed management scheduled for Feb ools 2590, 2594, 2593
Other Management Needs: Additional Management Actions Recommended Notes: Branchinecta sp. and tadpoles found in pr isit Date: 3/28/2019 Start Time: 0:30:00 urveyors: Sara Allen, Jessie Lane, Diana Brand Ram Site Conditions: Ponded Water: yes Days Since Last Rains	I: Weed management scheduled for Feb ools 2590, 2594, 2593 hirez : 6-15 Fairy Shrimp Visible? Absent
Other Management Needs: Additional Management Actions Recommended Notes: Branchinecta sp. and tadpoles found in pre- visit Date: 3/28/2019 Start Time: 0:30:00 urveyors: Sara Allen, Jessie Lane, Diana Brand Ram Site Conditions: Ponded Water: yes Days Since Last Rain: Listed Plants Visible? Present Listed P	I: Weed management scheduled for Feb ools 2590, 2594, 2593 hirez : 6-15 Fairy Shrimp Visible? Absent
Other Management Needs: Additional Management Actions Recommended Notes: Branchinecta sp. and tadpoles found in previous found in previous and tadpoles found in previous and tadpoles found in previous and tadpoles found in previous for the sp. and tadpoles for the sp. and tadpole for	I: Weed management scheduled for Feb ools 2590, 2594, 2593 hirez : 6-15 Fairy Shrimp Visible? Absent Plants:
Other Management Needs: Additional Management Actions Recommended Notes: Branchinecta sp. and tadpoles found in pr Visit Date: 3/28/2019 Start Time: 0:30:00 Surveyors: Sara Allen, Jessie Lane, Diana Brand Ram Site Conditions: Ponded Water: yes Days Since Last Rain: Listed Plants Visible? Present Listed P New and Ongoing Issues Observed During Visit: Trash:	I: Weed management scheduled for Feb ools 2590, 2594, 2593 hirez : 6-15 Fairy Shrimp Visible? Absent Plants: Tresspass/Unauthorized Use:
Other Management Needs: Additional Management Actions Recommended Notes: Branchinecta sp. and tadpoles found in pre- visit Date: 3/28/2019 Start Time: 0:30:00 urveyors: Sara Allen, Jessie Lane, Diana Brand Ram Site Conditions: Ponded Water: yes Days Since Last Rain: Listed Plants Visible? Present Listed P New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs:	I: Weed management scheduled for Feb ools 2590, 2594, 2593 hirez : 6-15 Fairy Shrimp Visible? Absent Plants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression:
Other Management Needs: Additional Management Actions Recommended Notes: Branchinecta sp. and tadpoles found in pre- visit Date: 3/28/2019 Start Time: 0:30:00 urveyors: Sara Allen, Jessie Lane, Diana Brand Ram Site Conditions: Ponded Water: yes Days Since Last Rains Listed Plants Visible? Present Listed P New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing	I: Weed management scheduled for Feb ools 2590, 2594, 2593 hirez : 6-15 Fairy Shrimp Visible? Absent Plants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
Other Management Needs: Additional Management Actions Recommended Notes: Branchinecta sp. and tadpoles found in pre- /isit Date: 3/28/2019 Start Time: 0:30:00 Surveyors: Sara Allen, Jessie Lane, Diana Brand Ram Site Conditions: Ponded Water: yes Days Since Last Rain: Listed Plants Visible? Present Listed P New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing	I: Weed management scheduled for Feb ools 2590, 2594, 2593 hirez : 6-15 Fairy Shrimp Visible? Absent Plants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression:
Other Management Needs: Additional Management Actions Recommended Notes: Branchinecta sp. and tadpoles found in pre- visit Date: 3/28/2019 Start Time: 0:30:00 urveyors: Sara Allen, Jessie Lane, Diana Brand Ram Site Conditions: Ponded Water: yes Days Since Last Rains Listed Plants Visible? Present Listed P New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed:	I: Weed management scheduled for Feb ools 2590, 2594, 2593 hirez : 6-15 Fairy Shrimp Visible? Absent Plants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Other Management Needs: Additional Management Actions Recommended Notes: Branchinecta sp. and tadpoles found in print isit Date: 3/28/2019 Start Time: 0:30:00 urveyors: Sara Allen, Jessie Lane, Diana Brand Ram Site Conditions: Ponded Water: yes Days Since Last Rain: Listed Plants Visible? Present Listed P New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing	I: Weed management scheduled for Feb ools 2590, 2594, 2593 hirez : 6-15 Fairy Shrimp Visible? Absent Plants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Other Management Needs: Additional Management Actions Recommended Notes: Branchinecta sp. and tadpoles found in pr isit Date: 3/28/2019 Start Time: 0:30:00 urveyors: Sara Allen, Jessie Lane, Diana Brand Ram Site Conditions: Ponded Water: yes Days Since Last Rain: Listed Plants Visible? Present Listed P New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing	I: Weed management scheduled for Feb ools 2590, 2594, 2593 hirez : 6-15 Fairy Shrimp Visible? Absent Plants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Other Management Needs: Additional Management Actions Recommended Notes: Branchinecta sp. and tadpoles found in pre- isit Date: 3/28/2019 Start Time: 0:30:00 urveyors: Sara Allen, Jessie Lane, Diana Brand Ram Site Conditions: Ponded Water: yes Days Since Last Rains Listed Plants Visible? Present Listed P New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing Management Needs: Weedcontrol	I: Weed management scheduled for Feb ools 2590, 2594, 2593 hirez : 6-15 Fairy Shrimp Visible? Absent Plants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:

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Year: 2019	
Complex Name: City_Hidden_Trails	
Visit Date: 5/30/2019 Start Time: 5:30:00	
Surveyors: Jason Allen	
Site Conditions:	
Ponded Water: no Days Since Last Rain: 1-5	Fairy Shrimp Visible?
Listed Plants Visible? Present Listed Plants:	
New and Ongoing Issues Observed During Visit:	_ //
0 0	Tresspass/Unauthorized Use:
	Fire or Damage from Fire Suppression:
	Damage from Edge Effects:
	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol, Trash_pickup, Regular patrols recommended	
Other Management Needs:	
Additional Management Actions Recommended: Weed control for ice plant.	
Notes: Ice plant on mima mounds.	
Management Actions Completed:	
Date: 4/17/2019 Completed by: Jason Allen, Scott Seyfried	
Contractor (if applicable)	
Management Actions Completed: Herbicide application to invasive species.	
Notes/Comments:	
Date: 6/18/2019 Completed by: Jason Allen, Scott Seyfried	
Contractor (if applicable)	
Management Actions Completed: Herbicide application to invasive species.	
Notes/Comments:	
Notes/Comments:	
Notes/Comments:	

#### **Qualitative Management Monitoring Photos**



- Photo taken: 4/8/2019
- Photo description: Invasive species crown daisy (*Glebionis coronaria*) present in vernal pool and upland buffer areas.



- Photo taken: 4/8/2019
- Photo description: Crown daisy (*Glebionis coronaria*) weed whacked down in vernal pool and upland buffer areas.

**Qualitative Management Monitoring Photos** 



- Photo taken: 4/17/2019
- Photo description: Invasive plant Crystalline ice plant (*Mesembryanthemum sp.*) in upland buffer areas around vernal pools.
- Photo taken: 5/30/2019
- Photo description: Herbicide application to invasive crystalline ice plant (*Mesembryanthemum sp.*) present in vernal pool and upland buffer areas during a previous visit.

#### **Qualitative Management Monitoring Photos**



- Photo taken: 1/31/2019
- Photo description: Trash/debris found onsite and removed.



- Photo taken: 4/17/2019
- Photo description: Herbicide application to invasive plants in vernal pool complex.

# Kelton

Planning Unit: North Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: No
Year: 2019	
Complex Name: City_Kelton	
Planning Unit: North City or Other? City	Managing Department: Park_Recreation
Baseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
Qualitative Monitoring Data:	
Visit Date: 2/28/2019 Start Time: 7:30:00	
Surveyors: Jason Allen	
Site Conditions: Ponded Water: no Days Since Last Rain: 6-15	5 Fairy Shrimp Visible?
Listed Plants Visible? Absent Listed Plants	
New and Ongoing Issues Observed During Visit:	
Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
	g_recontouring, Regular patrols recommended, Trash_pickup, D
ump_cleanup Other Management Needs:	
Additional Management Actions Recommended: We	ed management
Notes: No mgmt level listed.	
Visit Date: 6/25/2019 Start Time: 9:30:00	
Surveyors: Jason Allen	
Site Conditions:	
Ponded Water: no Days Since Last Rain: 6-15	5 Fairy Shrimp Visible?
Listed Plants Visible? Absent Listed Plants	5:
New and Ongoing Issues Observed During Visit:	
Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool:	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Monogoment Needer W/contention DestDess City	atall Tuach mislum Deculometrolana a survey a dad
Management Needs: Weedcontrol,RestReveg,Sign_ir	nstall, Trash_pickup, Regular patrols recommended
Other Management Needs:	
Other Management Needs:	kup trash and weed whack if time allows. Install signs.

# Kelton

### **Qualitative Management Monitoring Photos**



- Photo taken: 2/28/2019
- Photo description: Invasive plants in upland vernal pool buffer.
- Photo taken: 2/28/2019
- Photo description: Invasive plants in upland vernal pool buffer. Pools did not inundate.

# Kelton

### **Qualitative Management Monitoring Photos**



- Photo taken: 6/25/2019
- Photo description: Native plants surrounding vernal pools. Pools did not inundate.



- Photo taken: 6/25/2019
- Photo description: Fence protecting vernal pools.

# Kelton

### **Qualitative Management Monitoring Photos**



- Photo taken: 6/25/2019
- Photo description: Sign vandalized.

# Lopez Ridge

Planning Unit: North Land Owner: City of San Diego Managing Department: Environmental Services VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: Yes

Ianning Unit:NorthCity or Other?Citycaseline Management and Monitoring Level:	Managing Department: Environmental_Services VPHCP Required Management and Monitoring Level:
ualitative Monitoring Data:	vence required Management and Monitoring Level.
<b>'isit Date:</b> 1/9/2019 <b>Start Time:</b> 1:30:00	
urveyors: Jane Fajardo, Jason Allen	
Site Conditions:	
Ponded Water: yes Days Since Last Rain:	1-5 Fairy Shrimp Visible? Present
Listed Plants Visible? Wrong_Tim Listed Pl	ants:
New and Ongoing Issues Observed During Visit:	
Trash: Ongoing	Tresspass/Unauthorized Use: Ongoing
Damage to Fences and/or Signs: New	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing	?
Management Needs: Add_replace_lock,Regularp	atrolsrecommended, Weedcontrol, Fencerepair, Trash_pickup
Other Management Needs:	
Other Management Needs: Additional Management Actions Recommended:	
-	
Additional Management Actions Recommended: Notes: Large canine foot prints in some pools. Lo	
Additional Management Actions Recommended: Notes: Large canine foot prints in some pools. Lo Visit Date: 1/30/2019 Start Time: 2:30:00	
Additional Management Actions Recommended: Notes: Large canine foot prints in some pools. Lo	
Additional Management Actions Recommended: Notes: Large canine foot prints in some pools. Lo risit Date: 1/30/2019 Start Time: 2:30:00	
Additional Management Actions Recommended: Notes: Large canine foot prints in some pools. Lo isit Date: 1/30/2019 Start Time: 2:30:00 urveyors: Jane-Marie Fajardo Site Conditions: Ponded Water: no Days Since Last Rain:	ock was cut again at gate off Calle Cristobal.
Additional Management Actions Recommended: Notes: Large canine foot prints in some pools. Lo isit Date: 1/30/2019 Start Time: 2:30:00 urveyors: Jane-Marie Fajardo Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Present Listed Pl	6-15 Fairy Shrimp Visible?
Additional Management Actions Recommended: Notes: Large canine foot prints in some pools. Lo isit Date: 1/30/2019 Start Time: 2:30:00 urveyors: Jane-Marie Fajardo Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Present Listed Pl New and Ongoing Issues Observed During Visit:	6-15 Fairy Shrimp Visible? ants:
Additional Management Actions Recommended: Notes: Large canine foot prints in some pools. Lo isit Date: 1/30/2019 Start Time: 2:30:00 urveyors: Jane-Marie Fajardo Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Present Listed Pl New and Ongoing Issues Observed During Visit: Trash:	6-15 Fairy Shrimp Visible? lants: Tresspass/Unauthorized Use:
Additional Management Actions Recommended: Notes: Large canine foot prints in some pools. Lo isit Date: 1/30/2019 Start Time: 2:30:00 urveyors: Jane-Marie Fajardo Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Present Listed Pl New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs:	6-15 Fairy Shrimp Visible? ants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression:
Additional Management Actions Recommended: Notes: Large canine foot prints in some pools. Lo isit Date: 1/30/2019 Start Time: 2:30:00 urveyors: Jane-Marie Fajardo Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Present Listed Pl New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool:	6-15 Fairy Shrimp Visible? lants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
Additional Management Actions Recommended: Notes: Large canine foot prints in some pools. Lo isit Date: 1/30/2019 Start Time: 2:30:00 urveyors: Jane-Marie Fajardo Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Present Listed Pl New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Invasive Species in Buffer:	6-15 Fairy Shrimp Visible? ants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression:
Additional Management Actions Recommended: Notes: Large canine foot prints in some pools. Lo isit Date: 1/30/2019 Start Time: 2:30:00 urveyors: Jane-Marie Fajardo Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Present Listed Pl New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Invasive Species in Buffer: Other issues observed:	6-15 Fairy Shrimp Visible? lants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Additional Management Actions Recommended: Notes: Large canine foot prints in some pools. Lo isit Date: 1/30/2019 Start Time: 2:30:00 urveyors: Jane-Marie Fajardo Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Present Listed Pl New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Invasive Species in Buffer: Other issues observed: Are other issues observed is new or ongoing	6-15 Fairy Shrimp Visible? lants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Additional Management Actions Recommended: Notes: Large canine foot prints in some pools. Lo visit Date: 1/30/2019 Start Time: 2:30:00 urveyors: Jane-Marie Fajardo Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Present Listed Pl New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Buffer: Other issues observed: Are other issues observed is new or ongoing Management Needs:	6-15 Fairy Shrimp Visible? lants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Additional Management Actions Recommended: Notes: Large canine foot prints in some pools. Lo Visit Date: 1/30/2019 Start Time: 2:30:00 urveyors: Jane-Marie Fajardo Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Present Listed Pl New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Invasive Species in Buffer: Other issues observed: Are other issues observed is new or ongoing Management Needs: Other Management Needs:	6-15 Fairy Shrimp Visible? ants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Additional Management Actions Recommended: Notes: Large canine foot prints in some pools. Lo Visit Date: 1/30/2019 Start Time: 2:30:00 urveyors: Jane-Marie Fajardo Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Present Listed Pl New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Buffer: Other issues observed: Are other issues observed is new or ongoing Management Needs:	6-15 Fairy Shrimp Visible? ants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:

/ear: 2019		
Complex Name: City	_Lopez_Ridge	
/isit Date: 4/22/2019	Start Time: 3:30:00	
Surveyors: Jason Allen	& Jane Fajardo	
Site Conditions:		
Ponded Water:	no Days Since Last Rain: 6-15	Fairy Shrimp Visible?
Listed Plants Vis	ible? PresentListed Plants:	
New and Ongoing Is	sues Observed During Visit:	
Trash: Ongoing		Tresspass/Unauthorized Use: New
Damage to Fenc	es and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing		Damage from Edge Effects:
		Hydrological Impacts:
Other issues obs	served:	
Are other issues	observed is new or ongoing?	
Management Needs	: Weedcontrol	
Other Management	Needs:	
Additional Managen	nent Actions Recommended:	
Notes:		

Survey Year: 2019					Page 1	. of 2
Complex Name: City_Lope	ez_Ridge				VP_ID	: 706
Photopoint X: -117.173333	33333 Ph	otopoint Y:	32.9191666	6667	Photopoint Established: 2019	
2003 Baseline Survey Data						
Baseline Cover of ERAR:	0.5 Ba	seline Cover	of NAFO:	0.0	Baseline Cover of ORCA:	0.0
Baseline Cover of POAB:	2.0 Ba	seline Cover	of PONU:	0.0		
2019 Quantitative Monitori	ing Data					
Survey Date 4/22/2019		Survey Star	t Time: 9:44	AM	Survey End Time: 9:49 AM	
Surveyors: Jason Allen, Sa	ara Allen, Ninfa	Negrete & Ja	ane-Marie Fa	ijardo		
VPHCP Covered Species Pi	resent: POAB					
Cover of ERAR in Basin	า	Cover of I	NAFO in Bas	in:	Cover of ORCA in Basir	า
Cover of POAB in Basir	n	Cover of I	PONU in Bas	in		
Other Native Species in Po	ool:					
	Species Name				Cover	
Allium hae	matochiton - re	edskin onion			1-5%	
Bloomeria clev	velandii - San D	iego goldens	star		<1%	
Brodiaea d	orcuttii - Orcutt	's brodiaea			5-10%	
Callitriche marg	inata - Californi	ia water star	wort		5-10%	
Castilleja exser	rta - exserted In	dian paintbr	ush		<1%	
Crassula aqu	uatica - Aquatic	pygmy wee	d		5-10%	
Deinandra fa	asciculata - clust	tered tarwee	ed		1-5%	
Deschampsia d	anthonioides -	annual hairg	grass		<1%	
Downingia cu	owningia cuspidata - Toothed downingia 1-5%					
Juncus bufonius - toad rush				1-5%		
Lasthenia	Lasthenia gracilis - needle goldfields		<1%			
Muilla maritima - sea muilla		aritima - sea muilla <1%				
Navarretia hamata - hooked pincushionplant			1-5%			
-	icola - chaparra				<1%	
	oramsii - San Die	-			5-10%	
	s brevissimus - v	-			25-50%	
-	inerascens - me	-			<1%	
Zeltnera ve	enusta - charmi	ng centaury			<1%	

Cover of Other Native Species in Basin 75-100% Native Species Richness in Basin: 18

### **Nonnative Species in Pool**

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Festuca myuros - rattail sixweeks grass	<1%
Gastridium phleoides - nit grass	<1%
Hordeum marinum - seaside barley	1-5%
Hypochaeris glabra - smooth cat's ear	<1%
Lythrum hyssopifolia - hyssop loosestrife	<1%
Unknown grass	<1%

**Cover of Nonnative Species in Basin:** 1-5% Nonnative Species Richness in Basin: 7

Ponded Water Present? no

Bare Ground Cover in Basin 25-50% Cover of Rocks/Cobble in Basin: 10-25% Cover of Litter in Basin: <1%

Days Since Last Rain 6-15

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Lopez\_Ridge

Page 2 of 2

VP\_ID: 706

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon glaber - deerweed
Adenostoma fasciculatum - chamise
Allium haematochiton - redskin onion
Antirrhinum nuttallianum - Nuttall's snapdragon
Apiastrum angustifolium - mock parsley
Avena barbata - slender oat
Bloomeria clevelandii - San Diego goldenstar
Brodiaea orcuttii - Orcutt's brodiaea
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Callitriche marginata - California water starwort
Castilleja exserta - exserted Indian paintbrush
Centaurea melitensis - Maltese star-thistle
Chlorogalum pomeridianum - soap plant
Clarkia purpurea - winecup clarkia
Crassula connata - sand pygmyweed
Cryptantha sp cryptantha
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Deschampsia danthonioides - annual hairgrass
Dichelostemma capitatum - bluedicks
Dodecatheon clevelandii - padre's shootingstar
Downingia cuspidata - Toothed downingia
Erodium botrys - longbeak stork's bill
Festuca myuros - rattail sixweeks grass
Galium angustifolium - narrowleaf bedstraw
Hedypnois cretica - Cretanweed
Helianthemum scoparium - Bisbee peak rushrose
Hypochaeris glabra - smooth cat's ear
Lasthenia gracilis - needle goldfields
Logfia gallica - narrowleaf cottonrose
Lupinus bicolor - annual lupine
Lysimachia arvensis - scarlet pimpernel
Lythrum hyssopifolia - hyssop loosestrife
Malosma laurina - laurel sumac
Marah macrocarpus - Cucamonga manroot
Muilla maritima - sea muilla
Navarretia hamata - hooked pincushionplant
Opuntia oricola - chaparral pricklypear
Osmadenia tenella - false rosinweed
Pentachaeta aurea - golden
Pogogyne abramsii - San Diego mesa mint
Pseudognaphalium californicum - ladies' tobacco
Psilocarphus tenellus - short woollyheads
Selaginella cinerascens - mesa spikemoss
Silene gallica - common catchfly
Stephanomeria sp

# Lopez Ridge

Annual Covered Plant Monitoring Photo Vernal Pool ID: 706



Photo taken: Photo location is 32.9191667, -117.1733333 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2	
Complex Name: City_Lopez_Ridge		VP_ID: 712	
Photopoint X: -117.17306963889	Photopoint Y: 32.91993094444	Photopoint Established: 2019	
2003 Baseline Survey Data			
Baseline Cover of ERAR: 0.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 1.0	Baseline Cover of PONU: 0.0		
2019 Quantitative Monitoring Data			
Survey Date 4/22/2019	Survey Start Time: 11:39 AM	Survey End Time: 2:12 PM	
Surveyors: Jason Allen, Sara Allen &	Jane-Marie Fajardo		
VPHCP Covered Species Present: PC	DAB		
Cover of ERAR in Basin	Cover of NAFO in Basin:	Cover of ORCA in Basin	
<b>Cover of POAB in Basin</b> 1-5%	Cover of PONU in Basin		
Other Native Species in Pool:			
Species	Jame	Cover	
Brodiaea orcuttii - C	rcutt's brodiaea	<1%	
Callitriche marginata - Cal	ifornia water starwort	1-5%	
Castilleja exserta - exsert	ed Indian paintbrush	<1%	
Chlorogalum sp.	- soap plant	<1%	
Crassula aquatica - Aq	uatic pygmy weed	<1%	
Crassula connata - s	and pygmyweed	1-5%	
Deinandra fasciculata	clustered tarweed	1-5%	
Deschampsia danthonioi	des - annual hairgrass	<1%	
Juncus bufonius	s - toad rush	1-5%	
Muilla maritima	a - sea muilla <1%		
Navarretia hamata - hooked pincushionplant		5-10%	
Osmadenia tenella - false rosinweed		<1%	
Pentachaeta au	rea - golden	<1%	
Psilocarphus brevissim	us - woolly marble	1-5%	
Psilocarphus tenellus -	short woollyheads	<1%	
Selaginella bigelovii - B	igelow's spike moss	<1%	
Zeltnera venusta - cł	narming centaury	<1%	

Cover of Other Native Species in Basin 25-50% Native Species Richness in Basin: 18

### **Nonnative Species in Pool**

Species Name	Cover
Bromus madritensis - compact brome	<1%
Festuca myuros - rattail sixweeks grass	<1%
Hypochaeris glabra - smooth cat's ear	<1%
Lythrum hyssopifolia - hyssop loosestrife	<1%

**Cover of Nonnative Species in Basin:** <1%

Nonnative Species Richness in Basin: 4

Bare Ground Cover in Basin25-50%Cover of Rocks/Cobble in Basin:10-25%Cover of Litter in Basin:1-5%

Days Since Last Rain 6-15

Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Lopez\_Ridge

Page 2 of 2

VP\_ID: 712

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon glaber - deerweed
Acmispon micranthus - small flowered lotus
Adenostoma fasciculatum - chamise
Avena barbata - slender oat
Bromus madritensis - compact brome
Castilleja exserta - exserted Indian paintbrush
Ceanothus tomentosus - woolyleaf ceanothus
Centaurea melitensis - Maltese star-thistle
Chlorogalum parviflorum - smallflower soap plant
Clarkia purpurea - winecup clarkia
Crassula connata - sand pygmyweed
Cryptantha sp cryptantha
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Dichelostemma capitatum - bluedicks
Erodium botrys - longbeak stork's bill
Euphorbia peplus - petty spurge
Festuca myuros - rattail sixweeks grass
Galium angustifolium - narrowleaf bedstraw
Helianthemum scoparium - Bisbee peak rushrose
Hypochaeris glabra - smooth cat's ear
Logfia filaginoides - California cottonrose
Malosma laurina - laurel sumac
Muilla maritima - sea muilla
Navarretia hamata - hooked pincushionplant
Nuttallanthus texanus - Texas toadflax
Osmadenia tenella - false rosinweed
Pentachaeta aurea - golden
Selaginella bigelovii - Bigelow's spike moss
Silene gallica - common catchfly
Sisyrinchium bellum - Western blue-eyed grass
Sonchus sp sow thistle
Stipa lepida - foothill needlegrass
Uropappus lindleyi - silver puffs
Xylococcus bicolor - mission manzanita
Zeltnera venusta - charming centaury

Notes/Comments:

# Lopez Ridge

Annual Covered Plant Monitoring Photo Vernal Pool ID: 712



Photo taken: Photo location is 32.91993094, -117.1730696389 NAD83 State Plane California Zone 6 (feet)

# Marron Valley

Planning Unit: South Land Owner: City of San Diego Managing Department: Public Utilities VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: No

Complex Name: City_Marron_Valley	
Planning Unit: South City or Other? City	Managing Department: Pubic_Utilities
Baseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
Qualitative Monitoring Data:	
Visit Date: 3/20/2019 Start Time: 11:05:00	
Surveyors: Cheryl Jenkins, Cindy Dunn	
Site Conditions:	
Ponded Water: yes Days Since Last Rain: 6-15	
Listed Plants Visible? Absent Listed Plants	5:
New and Ongoing Issues Observed During Visit: Trash:	Tresspass/Unauthorized Use: Ongoing
Damage to Fences and/or Signs: Ongoing	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol, Dethatching, Fenc	erepair,Fence_install,Sign_install,Regularpatrolsrecommende
d	
rar	ns to install/repair fences around pools discussed with long nge planning.
Notes Water in encold oncesting high high also and 4	
Notes: Water in creek crossing high, high clearance 4	wd vehicle needed to cross to vp area.
Notes:Water in creek crossing high, high clearance 4Visit Date:6/10/2019Start Time:Surveyors:Cheryl Jenkins, Cindy Dunn	wd vehicle needed to cross to vp area.
Visit Date: 6/10/2019 Start Time: 12:05:00 Surveyors: Cheryl Jenkins, Cindy Dunn <u>Site Conditions:</u>	
Visit Date: 6/10/2019 Start Time: 12:05:00 Surveyors: Cheryl Jenkins, Cindy Dunn <u>Site Conditions:</u> Ponded Water: no Days Since Last Rain: 6-15	5 Fairy Shrimp Visible?
Visit Date: 6/10/2019 Start Time: 12:05:00 Surveyors: Cheryl Jenkins, Cindy Dunn <u>Site Conditions:</u> Ponded Water: no Days Since Last Rain: 6-15 Listed Plants Visible? Absent Listed Plants	5 Fairy Shrimp Visible?
Visit Date: 6/10/2019 Start Time: 12:05:00 Surveyors: Cheryl Jenkins, Cindy Dunn <u>Site Conditions:</u> Ponded Water: no Days Since Last Rain: 6-15	5 Fairy Shrimp Visible? s:
Visit Date: 6/10/2019 Start Time: 12:05:00 Surveyors: Cheryl Jenkins, Cindy Dunn Site Conditions: Ponded Water: no Days Since Last Rain: 6-15 Listed Plants Visible? Absent Listed Plants New and Ongoing Issues Observed During Visit: Trash:	5 Fairy Shrimp Visible? 5: Tresspass/Unauthorized Use: Ongoing
Visit Date: 6/10/2019 Start Time: 12:05:00 Surveyors: Cheryl Jenkins, Cindy Dunn <u>Site Conditions:</u> Ponded Water: no Days Since Last Rain: 6-15 Listed Plants Visible? Absent Listed Plants <u>New and Ongoing Issues Observed During Visit:</u>	5 Fairy Shrimp Visible? s:
Visit Date: 6/10/2019 Start Time: 12:05:00 Surveyors: Cheryl Jenkins, Cindy Dunn Site Conditions: Ponded Water: no Days Since Last Rain: 6-15 Listed Plants Visible? Absent Listed Plants New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Ongoing	<ul> <li>Fairy Shrimp Visible?</li> <li>Tresspass/Unauthorized Use: Ongoing</li> <li>Fire or Damage from Fire Suppression:</li> </ul>
Visit Date: 6/10/2019 Start Time: 12:05:00 Surveyors: Cheryl Jenkins, Cindy Dunn Site Conditions: Ponded Water: no Days Since Last Rain: 6-15 Listed Plants Visible? Absent Listed Plants New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Ongoing Invasive Species in Pool: Ongoing	5 Fairy Shrimp Visible? 5: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects:
Visit Date: 6/10/2019 Start Time: 12:05:00 Surveyors: Cheryl Jenkins, Cindy Dunn Site Conditions: Ponded Water: no Days Since Last Rain: 6-19 Listed Plants Visible? Absent Listed Plants New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Ongoing Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing	5 Fairy Shrimp Visible? 5: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects:
Visit Date: 6/10/2019 Start Time: 12:05:00 Surveyors: Cheryl Jenkins, Cindy Dunn Site Conditions: Ponded Water: no Days Since Last Rain: 6-15 Listed Plants Visible? Absent Listed Plants New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Ongoing Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed:	5 Fairy Shrimp Visible? 5: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Visit Date: 6/10/2019 Start Time: 12:05:00 Surveyors: Cheryl Jenkins, Cindy Dunn Site Conditions: Ponded Water: no Days Since Last Rain: 6-19 Listed Plants Visible? Absent Listed Plants New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Ongoing Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing?	5 Fairy Shrimp Visible? 5: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Visit Date: 6/10/2019 Start Time: 12:05:00 Surveyors: Cheryl Jenkins, Cindy Dunn Site Conditions: Ponded Water: no Days Since Last Rain: 6-15 Listed Plants Visible? Absent Listed Plants New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Ongoing Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,Dethatching,Fence	5 Fairy Shrimp Visible? 5: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: terepair,Sign_replacement,Fence_install,Sign_install

isit Date: 12/14/2019 Start Time: 9:50:00		
urveyors: Cheryl Jenkins, Mark Berninger		
Site Conditions:		
Ponded Water: yes Days Since Last Rain: 6-1	5 Fairy Shrimp Visible? Present	
Listed Plants Visible? Wrong_Tim Listed Plants	S:	
New and Ongoing Issues Observed During Visit:		
Trash:	Tresspass/Unauthorized Use: Ongoing	
Damage to Fences and/or Signs: Ongoing	Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:	
Invasive Species in Pool: Ongoing		
Invasive Species in Buffer: Ongoing		
Other issues observed:		
Are other issues observed is new or ongoing?		
Management Needs: Weedcontrol,Dethatching,Fend d	cerepair,Fence_install,Sign_install,Regularpatrolsrecommende	
Other Management Needs: Fences around pools need	ed to be repaired to keep cattle and vehicles out	
_	nces around pools need to be repaired to keep cattle and hicles out	
Notes:		

## *Marron Valley* Management Monitoring Photos



- Photo taken: December 14, 2019
- Photo description: View of fairy shrimp-occupied road-rut vernal pool with tire tracks and cow hoof prints within it due to unauthorized vehicle and grazing cattle access. View southwest



- Photo taken: December 14, 2019
- Photo description: View of damaged fence surrounding vernal pool allowing for access of grazing cattle. View south

# Mission Trails Regional Park

Planning Unit: Central Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: No

Year: 2019	
Complex Name: City_Mission_Trails_Regional_Park	
Planning Unit: Central City or Other? City	Managing Department: Park_Recreation
Baseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
Qualitative Monitoring Data:	
Visit Date: 1/9/2019 Start Time: 3:30:00	
Surveyors: Rob Wheeler, Jessie Lane	
Site Conditions:	
Ponded Water: yes Days Since Last Rain: 1-5	Fairy Shrimp Visible? Present
Listed Plants Visible? Present Listed Plants	:
New and Ongoing Issues Observed During Visit: Trash: Ongoing	Tresspass/Unauthorized Use: Ongoing
Damage to Fences and/or Signs: Ongoing	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol,RestReveg,Trash_	pickup, Regular patrols recommended
Other Management Needs:	
Additional Management Actions Recommended:	
<b>Notes:</b> non native grasses, erodium, thistle, mustard p	present. Algae blooms in some pools.
	с .
Visit Date: 3/29/2019         Start Time: 7:30:00	
Surveyors: Jason Allen, Sara Allen	
Site Conditions:	
Ponded Water: yes Days Since Last Rain: 1-5	Fairy Shrimp Visible? Absent
Listed Plants Visible? Present Listed Plants	:
New and Ongoing Issues Observed During Visit:	
Trash:	Tresspass/Unauthorized Use: Ongoing
Damage to Fences and/or Signs: Ongoing	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol,RestReveg,Fencero mended	epair,Sign_install,Grading_recontouring,Regularpatrolsrecom
Other Management Needs:	
Additional Management Actions Recommended: We	ed maintenance soon.
Notes: Grasses around pools should be trimmed.	

Year: 2019 Complex Name: City\_Mission\_Tr

Complex Name: City\_Mission\_Trails\_Regional\_Park

Management Actions Completed:

Date: 9/15/2018 Completed by: Andrew Miller

Contractor (if applicable)

Management Actions Completed: Repair fence.

Notes/Comments:

# **Mission Trails Regional Park**

**Qualitative Management Monitoring Photos** 



- Photo taken: 3/27/2019
- Photo description: High water line of vernal pool extends beyond fence boundary.



- Photo taken: 3/29/2019
- Photo description: Old fence posts and rocks within vernal pool buffer.

# **Mission Trails Regional Park**

**Qualitative Management Monitoring Photos** 



- Photo taken: 7/12/2019
- Photo description: Invasive species nonnative grasses present in vernal pool basin and upland buffer areas.



- Photo taken: 7/12/2019
- Photo description: Invasive species weed whacked and removed from vernal pool basin.

# **Montgomery Field**

Planning Unit: Central Land Owner: City of San Diego Managing Department: READ - Airports VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: Yes

Complex Name: City_Montgomery_Field	
Planning Unit: Central City or Other? City	Managing Department: READ_Airports
	VPHCP Required Management and Monitoring Level:
Qualitative Monitoring Data:	
Visit Date:         1/28/2019         Start Time:         20:30:00           Comparison of the Decement         Start Time:         20:30:00         Start Time:         20:30:00	
Surveyors: Cindy Dunn	
Site Conditions:	
Ponded Water: yes Days Since Last Rain: 6-15	
Listed Plants Visible? Absent Listed Plants:	
<u>New and Ongoing Issues Observed During Visit:</u> Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	······································
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol	
Other Management Needs:	
Additional Management Actions Recommended:	
Notes:	
Visit Deter 2/11/2010 Chart Times 21.20.00	
Visit Date: 3/14/2019         Start Time: 21:30:00           Surveyer: Cindy Dupp         Start Time: 21:30:00	
Visit Date: 3/14/2019 Start Time: 21:30:00 Surveyors: Cindy Dunn	
Surveyors: Cindy Dunn	Fairy Shrimp Visible? Absent
Surveyors: Cindy Dunn Site Conditions:	
Surveyors: Cindy Dunn <u>Site Conditions:</u> Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plants: <u>New and Ongoing Issues Observed During Visit:</u>	
Surveyors: Cindy Dunn           Site Conditions:           Ponded Water: yes         Days Since Last Rain: 1-5           Listed Plants Visible? Absent         Listed Plants:           New and Ongoing Issues Observed During Visit:         Trash:	Tresspass/Unauthorized Use:
Surveyors: Cindy Dunn           Site Conditions:           Ponded Water: yes         Days Since Last Rain: 1-5           Listed Plants Visible? Absent         Listed Plants:           New and Ongoing Issues Observed During Visit:         Trash:           Damage to Fences and/or Signs:         Damage to Fences and/or Signs:	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression:
Surveyors: Cindy Dunn           Site Conditions:           Ponded Water: yes         Days Since Last Rain: 1-5           Listed Plants Visible? Absent         Listed Plants:           New and Ongoing Issues Observed During Visit:         Trash:           Damage to Fences and/or Signs:         Invasive Species in Pool: Ongoing	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
Surveyors: Cindy Dunn Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plants: New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression:
Surveyors: Cindy Dunn          Site Conditions:         Ponded Water: yes       Days Since Last Rain: 1-5         Listed Plants Visible? Absent       Listed Plants:         New and Ongoing Issues Observed During Visit:       Trash:         Damage to Fences and/or Signs:       Invasive Species in Pool: Ongoing         Invasive Species in Buffer: Ongoing       Other issues observed:	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
Surveyors: Cindy Dunn          Site Conditions:         Ponded Water: yes       Days Since Last Rain: 1-5         Listed Plants Visible? Absent       Listed Plants:         New and Ongoing Issues Observed During Visit:       Trash:         Damage to Fences and/or Signs:       Invasive Species in Pool: Ongoing         Invasive Species in Buffer: Ongoing       Other issues observed:         Are other issues observed is new or ongoing?	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
Surveyors: Cindy Dunn          Site Conditions:         Ponded Water: yes       Days Since Last Rain: 1-5         Listed Plants Visible? Absent       Listed Plants:         New and Ongoing Issues Observed During Visit:       Trash:         Damage to Fences and/or Signs:       Invasive Species in Pool: Ongoing         Invasive Species in Buffer: Ongoing       Other issues observed:         Are other issues observed is new or ongoing?         Management Needs:       Weedcontrol	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
Surveyors: Cindy Dunn          Site Conditions:         Ponded Water: yes       Days Since Last Rain: 1-5         Listed Plants Visible? Absent       Listed Plants:         New and Ongoing Issues Observed During Visit:       Trash:         Damage to Fences and/or Signs:       Invasive Species in Pool: Ongoing         Invasive Species in Buffer: Ongoing       Other issues observed:         Are other issues observed is new or ongoing?	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:

ear: 2019		
omplex Name:	City_Montgomery_Field	
<b>isit Date:</b> 6/7/202	19 Start Time: 0:30:00	
<b>urveyors:</b> Cindy D	Junn	
Site Conditions:		
Ponded Wa	•	Fairy Shrimp Visible?
Listed Plant	s Visible? Present Listed Plants:	
	ng Issues Observed During Visit:	
Trash:		Tresspass/Unauthorized Use:
Damage to	Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Spo	ecies in Pool: Ongoing	Damage from Edge Effects:
Invasive Spo	ecies in Buffer: Ongoing	Hydrological Impacts:
Other issue	s observed:	
Are other is	sues observed is new or ongoing?	
Management N	eeds: Weedcontrol	
Other Managem	nent Needs:	
Additional Mana	agement Actions Recommended:	
Notes:		

Survey Year: 2019		Page 1 of 2
Complex Name: City_Montgomery_Field		VP_ID: 4256
Photopoint X: -117.12734100000	Photopoint Y: 32.81122600000	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 0.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 1.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 4/10/2019Survey Start Time: 9:30 AM		Survey End Time: 11:28 AM
Surveyors: Cindy Dunn, Cheryl Jenk	ins, Maya Mazon, Rebecca Alvidrez	
VPHCP Covered Species Present: PC	DAB	
Cover of ERAR in Basin	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin <1%	Cover of PONU in Basin	
<b>Other Native Species in Pool:</b>		
Species	Name	Cover
Brodiaea orcuttii - C	Drcutt's brodiaea	1-5%
Callitriche marginata - Cal	ifornia water starwort	1-5%
Crassula aquatica - Aq	uatic pygmy weed	25-50%
Cuscuta	a sp.	5-10%
Downingia cuspidata - Toothed downingia		25-50%
Elatine brack	nysprema	1-5%
Eleocharis macrostachya	- common spikerush	10-25%
Juncus bufonius - toad rush		1-5%
Myosurus minimus - little mouse tail		10-25%
Phalaris paradoxa - I	nood canarygrass	<1%
Pilularia americana - American pillwort		25-50%
Plagiobothrys acanthocarpus - adobe popcornflower		1-5%
Plantago elongata - an	nual coast plantago	1-5%
Psilocarphus brevissim	nus - woolly marble	5-10%
Trifolium deperatum	n var. amplectens	<1%

Cover of Other Native Species in Basin 75-100% Native Species Richness in Basin: 15

### **Nonnative Species in Pool**

Species Name	Cover
Cotula coronopifolia - common brassbuttons	<1%
Erodium botrys - longbeak stork's bill	<1%
Lythrum hyssopifolia - hyssop loosestrife	1-5%

**Cover of Nonnative Species in Basin:** 1-5% Nonnative Species Richness in Basin: 3

**Cover of Litter in Basin:** <1% Bare Ground Cover in Basin 1-5% **Cover of Rocks/Cobble in Basin:** <1% Ponded Water Present? yes

Days Since Last Rain 6-15

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Montgomery\_Field

Page 2 of 2

VP\_ID: 4256

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon glaber - deerweed
Adenostoma fasciculatum - chamise
Artemisia californica - coastal sagebrush
Bloomeria clevelandii - San Diego goldenstar
Brodiaea orcuttii - Orcutt's brodiaea
Bromus madritensis - compact brome
Castilleja densiflora ssp. gracilis - Graceful owl's clover
Chamaesyce maculata - spotted spurge
Chlorogalum parviflorum - smallflower soap plant
Crassula aquatica - Aquatic pygmy weed
Crassula connata - sand pygmyweed
Croton setigerus - dove weed
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Distichlis spicata - saltgrass
Downingia cuspidata - Toothed downingia
Eleocharis macrostachya - common spikerush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Erodium cicutarium - redstem stork's bill
Eschscholzia californica - California poppy
Festuca myuros - rattail sixweeks grass
Galium aparine - common bedstraw
Gastridium phleoides - nit grass
Hedypnois cretica - Cretanweed
Holocarpha virgata ssp. elongata - Graceful tarplant
Hypochaeris glabra - smooth cat's ear
Juncus bufonius - toad rush
Lupinus bicolor - annual lupine
Lythrum hyssopifolia - hyssop loosestrife
Navarretia hamata - hooked pincushionplant
Nuttallanthus texanus - Texas toadflax
Psilocarphus brevissimus - woolly marble
Silene gallica - common catchfly
Spergularia bocconi - sand spurry
Trifolium depauperatum var. amplectens - Pale sack clover

Notes/Comments:

# Montgomery-Gibbs Executive Airport

Annual Covered Plant Monitoring Photo Vernal Pool ID: 4256



Photo taken: Photo location is 32.811226, -117.127341 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2	
Complex Name: City_Montgomery_Field		VP_ID: 4596	
Photopoint X: -117.12830600000	Photopoint Y: 32.81119900000	Photopoint Established: 2019	
2003 Baseline Survey Data			
Baseline Cover of ERAR: 0.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.5	Baseline Cover of PONU: 0.0		
2019 Quantitative Monitoring Data			
Survey Date 4/22/2019	Survey Start Time: 11:05 AM	Survey End Time: 11:41 AM	
Surveyors: Rebecca Alvidrez, Cind	y Dunn, Maya Mazon		
VPHCP Covered Species Present:	POAB		
Cover of ERAR in Basin	Cover of NAFO in Basin:	Cover of ORCA in Basin	
Cover of POAB in Basin 5-10%	Cover of PONU in Basin		
Other Native Species in Pool:			
Species	Name	Cover	
Brodiaea orcuttii - Orcutt's brodiaea		1-5%	
Crassula aquatica - A	quatic pygmy weed	10-25%	
Deinandra fasciculata	- clustered tarweed	1-5%	
Deschampsia danthonioides - annual hairgrass		1-5%	
Downingia cuspidata - Toothed downingia		50-75%	
Eleocharis macrostachy	va - common spikerush	25-50%	
Juncus bufoni	us - toad rush	10-25%	
Myosurus minimus - little mouse tail		10-25%	
Navarretia hamata - hooked pincushionplant		1-5%	
Pilularia americana - American pillwort		10-25%	
Psilocarphus brevissi	mus - woolly marble	25-50%	
Psilocarphus tenellus	- short woollyheads	1-5%	
Trifolium deperatum var. amplectens		1-5%	

Cover of Other Native Species in Basin 75-100% Native Species Richness in Basin: 14

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus hordeaceus - soft brome	1-5%
Erodium botrys - longbeak stork's bill	5-10%
Gastridium phleoides - nit grass	1-5%
Lythrum hyssopifolia - hyssop loosestrife	1-5%
Silene gallica - common catchfly	<1%

Cover of Nonnative Species in Basin: 10-25% Nonnative Species Richness in Basin: 5

Bare Ground Cover in Basin 1-5%Cover of Rocks/Cobble in Basin: 10-25%Cover of Litter in Basin: 1-5%Days Since Last Rain >16Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Montgomery\_Field

Page 2 of 2

VP\_ID: 4596

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Species Name
Acmispon glaber - deerweed Artemisia californica - coastal sagebrush
Avena barbata - slender oat
Bloomeria clevelandii - San Diego goldenstar
Brassica nigra - black mustard
Brodiaea orcuttii - Orcutt's brodiaea
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Calochortus splendens - splendid mariposa lily
Ceanothus tomentosus - woolyleaf ceanothus
Cerastium glomeratum - sticky mouseear chickweed
Cotula coronopifolia - common brassbuttons
Crassula connata - sand pygmyweed
Croton setigerus - dove weed
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Dichelostemma capitatum - bluedicks
Downingia cuspidata - Toothed downingia
Eleocharis macrostachya - common spikerush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Erodium cicutarium - redstem stork's bill
Festuca myuros - rattail sixweeks grass
Galium nuttallii - Climbing bedstraw
Gastridium phleoides - nit grass
Hedypnois cretica - Cretanweed
Juncus bufonius - toad rush
Logfia gallica - narrowleaf cottonrose
Lupinus bicolor - annual lupine
Lythrum hyssopifolia - hyssop loosestrife
Navarretia hamata - hooked pincushionplant
Nuttallanthus texanus - Texas toadflax
Pilularia americana - American pillwort
Pogogyne abramsii - San Diego mesa mint
Psilocarphus brevissimus - woolly marble
Silene gallica - common catchfly
Sonchus asper - spiny sowthistle
Uropappus lindleyi - silver puffs

Notes/Comments:

# Montgomery-Gibbs Executive Airport

Annual Covered Plant Monitoring Photo Vernal Pool ID: 4596



Photo taken: Photo location is 32.811199, -117.128306 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019			Page 1 of 2
Complex Name: City_Montgomery_Fi	eld		VP_ID: 5352
Photopoint X: -117.12685500000	Photopoint Y: 32.8116600	0000	Photopoint Established: 2019
2003 Baseline Survey Data			
Baseline Cover of ERAR: 0.0	Baseline Cover of NAFO:	0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.5	Baseline Cover of PONU:	0.0	
2019 Quantitative Monitoring Data			
Survey Date 4/10/2019	Survey Start Time: 9:30	AM	Survey End Time: 12:29 PM
Surveyors: Cindy Dunn, Cheryl Jenkins	s, Maya Mazon, Rebecca Alv	idrez	
VPHCP Covered Species Present: POA	B		
Cover of ERAR in Basin	Cover of NAFO in Basi	n:	Cover of ORCA in Basin
Cover of POAB in Basin 10-25%	Cover of PONU in Basi	n	
<b>Other Native Species in Pool:</b>			
Species Na	me		Cover
Brodiaea orcuttii - Orc	cutt's brodiaea		1-5%
Crassula aquatica - Aqua	atic pygmy weed		25-50%
Downingia cuspidata - To	othed downingia		10-25%
Elatine brachysprema			25-50%
Eleocharis macrostachya - common spikerush			5-10%
Juncus bufonius - toad rush		1-5%	
Myosurus minimus - little mouse tail			
Myosurus minimus - li			10-25%
Myosurus minimus - li Pilularia americana - Ar	ttle mouse tail		10-25% 25-50%
	ttle mouse tail nerican pillwort		

### Cover of Other Native Species in Basin 75-100% Native Species Richness in Basin: 11

#### Nonnative Species in Pool

Species Name	Cover
Erodium botrys - longbeak stork's bill	1-5%
Hypochaeris glabra - smooth cat's ear	<1%
Lythrum hyssopifolia - hyssop loosestrife	5-10%

Cover of Nonnative Species in Basin: 10-25% Nonnative Species Richness in Basin: 3

Bare Ground Cover in Basin 1-5% Cover of Ro

% Cover of Rocks/Cobble in Basin: 1-5%

Ponded Water Present? no

Cover of Litter in Basin: <1%

Days Since Last Rain 6-15

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Montgomery\_Field

Page 2 of 2

VP\_ID: 5352

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Acmispon glaber - deerweedAdenostoma fasciculatum - chamiseArtemisia californica - coastal sagebrushBaccharis sarothroides - desertbroomBloomeria clevelandii - San Diego goldenstarBromus hordeaceus - soft bromeBromus madritensis - compact bromeCalochortus splendein dimariposa lilyCastilleja densiflora ssp. gracilis - Graceful owl's cloverChamaesyce maculata - spotted spurgeChlorogalum parviflorum - smallflower soap plantCrassula aquatica - Aquatic pygmy weedDaucus quaitica - Loustered tarweedDowningia cuspidata - Toothed downingiaEleocharis macrostachya - common spikerushEriogonum fasciculatum - redstem stork's billErodium cicutarium - redstem stork's billFestuca myuros - rattali sixweeks grassGalium aparine - common bedstrawHypochaeris glabra - smooth cat's earJuncus bufonius - toad rushHypochaeris glabra - sonooth cat's earJuncus bufonius - toad rushMuital maritima - sea muilaNavarretia hamata - hooked pincushionplantNuttallanthus texanus - Texas toadflaxPsilocarphus brevisinus - wooly marbleSelaginella cinerascen - meas apikengosSalium aparine - common bedstraw	
Adenostoma fasciculatum - chamise         Artemisia californica - coastal sagebrush         Baccharis sarothroides - desertbroom         Bloomeria clevelandii - San Diego goldenstar         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Calochortus splendens - splendid mariposa lily         Castilleja densifiora ssp. gracilis - Graceful owl's clover         Chamaesyce maculata - spotted spurge         Chlorogalum parviflorum - smallflower soap plant         Crassula aquatica - Aquatic pygmy weed         Daucus pusillus - American wild carrot         Deinandra fasciculata - clustered tarweed         Downingia cuspidata - Toothed downingia         Eleocharis macrostachya - common spikerush         Eriogonum fasciculatum - teastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Erodium botrys - longbeak stork's bill         Brodium aparine - common bedstraw         Hypochaeris glabra - smooth cat's ear         Juncus bufonius - toad rush         Lythrum hyssopifolia - hyssop loosestrife         Mulla maritima - sea muilla         Navarretia hamata - hooked pincushionplant         Nuttallanthus texanus - Texas toadflax         Psilocarphus brevisimus - woolly marble         Selaginella cinerascens - mesa spikemoss         Silene gallica	Species Name
Artemisia californica - coastal sagebrush         Baccharis sarothroides - desertbroom         Bloomeria clevelandii - San Diego goldenstar         Bromus hordeaceus - soft brome         Calochortus splendens - splendid mariposa lily         Castilleja densiflora ssp. gracilis - Graceful owl's clover         Chamaesyce maculata - spotted spurge         Chlorogalum parviflorum - smallflower soap plant         Crassula aquatica - Aquatic pygmy weed         Daucus pusillus - American wild carrot         Deinandra fasciculata - Lotstered tarweed         Downingia cuspidata - Cothed downingia         Eleocharis macrostachya - common spikerush         Erodium botrys - longbeak stork's bill         Festuca myuros - rattail sixweeks grass         Galium aparine - common bedstraw         Hypochaeris glabra - smooth cat's ear         Juncus bufonius - toad rush         Muilla maritima - sea muilla         Navarretia hamata - hooked pincushionplant         Nuttallanthus texanus - Texas toadflax         Pislocarphus brevissimus - woolly marble         Selaginella cinerascens - mesa spikemoss         Silene galica - common catchfly	
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Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Calochortus splendens - splendid mariposa lily         Castilleja densifiora ssp. gracilis - Graceful owl's clover         Chamaesyce maculata - spotted spurge         Chlorogalum parviflorum - smallflower soap plant         Crassula aquatica - Aquatic pygmy weed         Daucus pusillus - American wild carrot         Deinandra fasciculata - clustered tarweed         Downingia cuspidata - Toothed downingia         Eleocharis macrostachya - common spikerush         Eriogonum fasciculatum - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Festuca myuros - rattail sixweeks grass         Galium aparine - common bedstraw         Hypochaeris glabra - smooth cat's ear         Juncus bufonius - toad rush         Lythrum hyssopifolia - hyssop loosestrife         Muilla maritima - sea muilla         Navarretia hamata - hooked pincushionplant         Nuttallanthus texanus - Texas toafflax         Psilocarphus brevisismus - woolly marble         Selaginella cinerascens - mesa spikemoss         Silene gallica - common catchfly         Spergularia bocconi - sand spurry	Baccharis sarothroides - desertbroom
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Hypochaeris glabra - smooth cat's earJuncus bufonius - toad rushLythrum hyssopifolia - hyssop loosestrifeMuilla maritima - sea muillaNavarretia hamata - hooked pincushionplantNuttallanthus texanus - Texas toadflaxPsilocarphus brevissimus - woolly marbleSelaginella cinerascens - mesa spikemossSilene gallica - common catchflySpergularia bocconi - sand spurry	Festuca myuros - rattail sixweeks grass
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Psilocarphus brevissimus - woolly marble Selaginella cinerascens - mesa spikemoss Silene gallica - common catchfly Spergularia bocconi - sand spurry	Navarretia hamata - hooked pincushionplant
Selaginella cinerascens - mesa spikemoss Silene gallica - common catchfly Spergularia bocconi - sand spurry	Nuttallanthus texanus - Texas toadflax
Silene gallica - common catchfly Spergularia bocconi - sand spurry	Psilocarphus brevissimus - woolly marble
Spergularia bocconi - sand spurry	Selaginella cinerascens - mesa spikemoss
	Silene gallica - common catchfly
Trifolium depauperatum var. amplectens - Pale sack clover	Spergularia bocconi - sand spurry
	Trifolium depauperatum var. amplectens - Pale sack clover

Notes/Comments:

## Montgomery-Gibbs Executive Airport

Annual Covered Plant Monitoring Photo Vernal Pool ID: 5352



Photo taken: Photo location is 32.81166, -117.126855 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2	
Complex Name: City_Montgomery_Field		VP_ID: 5355	
Photopoint X: -117.12603200000	Photopoint Y: 32.81247900000	Photopoint Established: 2019	
2003 Baseline Survey Data			
Baseline Cover of ERAR: 0.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 1.0	Baseline Cover of PONU: 0.0		
2019 Quantitative Monitoring Data			
Survey Date 4/22/2019	Survey Start Time: 2:40 PM	Survey End Time: 3:13 PM	
Surveyors: Maya Mazon, Rebecca A	Alvidrez, Cindy Dunn		
VPHCP Covered Species Present: PC	DAB		
Cover of ERAR in Basin	Cover of NAFO in Basin:	Cover of ORCA in Basin	
Cover of POAB in Basin 1-5%	Cover of PONU in Basin		
Other Native Species in Pool:			
Species I	Name	Cover	
Brodiaea orcuttii - C	Drcutt's brodiaea	10-25%	
Crassula aquatica - Ac	luatic pygmy weed	1-5%	
Crassula connata - s	and pygmyweed	1-5%	
Deinandra fasciculata	- clustered tarweed	25-50%	
Deschampsia danthonioi	des - annual hairgrass	5-10%	
Juncus bufonius	s - toad rush	10-25%	
Navarretia hamata - hooked pincushionplant		1-5%	
Pilularia americana - American pillwort		25-50%	
Plantago erecta - California plantain		1-5%	
Psilocarphus brevissimus - woolly marble		25-50%	
Psilocarphus tenellus -	short woollyheads	1-5%	
Selaginella cinerascen	s - mesa spikemoss	1-5%	
Zeltnera venusta - charming centaury		1-5%	

Cover of Other Native Species in Basin 75-100% Native Species Richness in Basin: 13

### **Nonnative Species in Pool**

Species Name	Cover
Erodium botrys - longbeak stork's bill	1-5%
Festuca myuros - rattail sixweeks grass	5-10%
Gastridium phleoides - nit grass	5-10%
Lythrum hyssopifolia - hyssop loosestrife	<1%
Spergularia bocconi - sand spurry	<1%

Cover of Nonnative Species in Basin: 10-25% Nonnative Species Richness in Basin: 5

Bare Ground Cover in Basin 10-25%Cover of Rocks/Cobble in Basin: 5-10%Cover of Litter in Basin: 1-5%Days Since Last Rain >16Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Montgomery\_Field

Page 2 of 2

VP\_ID: 5355

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name	
Acmispon glaber - deerweed	
Acmispon micranthus - small flowered lotus	
Brodiaea orcuttii - Orcutt's brodiaea	
Calochortus splendens - splendid mariposa lily	
Cotula coronopifolia - common brassbuttons	
Crassula connata - sand pygmyweed	
Daucus pusillus - American wild carrot	
Deinandra fasciculata - clustered tarweed	
Eriogonum fasciculatum - Eastern Mojave buckwheat	
Juncus bufonius - toad rush	
Muilla maritima - sea muilla	
Navarretia hamata - hooked pincushionplant	
Nuttallanthus texanus - Texas toadflax	
Plantago elongata - annual coast plantago	
Plantago erecta - California plantain	
Psilocarphus brevissimus - woolly marble	
Selaginella cinerascens - mesa spikemoss	

Notes/Comments:


Photo taken: Photo location is 32.812479, -117.126032 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Montgomery_Field		VP_ID: 5356
Photopoint X: -117.132756000	00 <b>Photopoint Y:</b> 32.81915300000	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 0.0	<b>Baseline Cover of NAFO:</b> 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 1.0	<b>Baseline Cover of PONU:</b> 0.0	
2019 Quantitative Monitoring	Data	
Survey Date 5/2/2019	Survey Start Time: 9:30 AM	Survey End Time: 9:50 AM
Surveyors: Rebecca Alvidrez,	Cindy Dunn, Paula Birdwell	
VPHCP Covered Species Prese	ent: POAB	
Cover of ERAR in Basin	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin $1$	0-25% Cover of PONU in Basin	
Other Native Species in Pool:		
Sp	ecies Name	Cover
Brodiaea orcu	ittii - Orcutt's brodiaea	1-5%
Crassula aquati	ca - Aquatic pygmy weed	25-50%
Deinandra fascio	culata - clustered tarweed	1-5%
Deschampsia danthonioides - annual hairgrass		1-5%
Downingia cuspidata - Toothed downingia		<1%
Juncus bu	ufonius - toad rush	5-10%
Pilularia americana - American pillwort		25-50%
Psilocarphus bre	evissimus - woolly marble	25-50%
Psilocarphus tenellus - short woollyheads		<1%

Cover of Other Native Species in Basin 75-100% Native Species Richness in Basin: 10

#### **Nonnative Species in Pool**

Species Name	Cover
Erodium botrys - longbeak stork's bill	5-10%
Lythrum hyssopifolia - hyssop loosestrife	25-50%
Phalaris paradoxa	10-25%
Polypogon monspeliensis - annual rabbitsfoot grass	1-5%

Cover of Nonnative Species in Basin: 50-75% Nonnative Species Richness in Basin: 4

Bare Ground Cover in Basin 1-5% Cover of Rocks/Cobble in Basin: 1-5% Cove

Days Since Last Rain 1-5

Dead Species Present in Pool: None

Ponded Water Present? no

Cover of Litter in Basin: <1%

Survey Year: 2019

Complex Name: City\_Montgomery\_Field

Page 2 of 2

VP\_ID: 5356

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon americanus - American bird's-foot trefoil
Acmispon glaber - deerweed
Avena barbata - slender oat
Baccharis sarothroides - desertbroom
Brodiaea orcuttii - Orcutt's brodiaea
Brodiaea terrestris - dwarf brodiaea
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Croton californicus - California croton
Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Festuca myuros - rattail sixweeks grass
Galium aparine - common bedstraw
Hirschfeldia incana - shortpod mustard
Holocarpha virgata ssp. elongata - Graceful tarplant
Hypochaeris glabra - smooth cat's ear
Juncus bufonius - toad rush
Logfia gallica - narrowleaf cottonrose
Lythrum hyssopifolia - hyssop loosestrife
Nuttallanthus texanus - Texas toadflax
Pogogyne abramsii - San Diego mesa mint
Pseudognaphalium canescens - Wright's cudweed
Psilocarphus brevissimus - woolly marble
Rumex sp.
Selaginella cinerascens - mesa spikemoss
Silene gallica - common catchfly
Sonchus asper - spiny sowthistle
Zeltnera venusta - charming centaury



Photo taken: Photo location is 32.819153, -117.132756 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Montgomery	/_Field	VP_ID: 5358
Photopoint X: -117.13314600000	Photopoint Y: 32.81909800000	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 0.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 30.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/2/2019	Survey Start Time: 9:49 AM	Survey End Time: 10:14 AM
Surveyors: Rebecca Alvidrez, Cindy	y Dunn, Paula Birdwell	
VPHCP Covered Species Present:	POAB	
Cover of ERAR in Basin	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin 10-259	<b>Cover of PONU in Basin</b>	
Other Native Species in Pool:		
Species	Name	Cover
Brodiaea orcuttii -	Orcutt's brodiaea	1-5%
Crassula aquatica - A	quatic pygmy weed	<1%
Deschampsia danthonic	pides - annual hairgrass	1-5%
Downingia cuspidata - Toothed downingia		10-25%
Eleocharis macrostachya - common spikerush		5-10%
Holocarpha virgata ssp. elongata - Graceful tarplant		<1%
Juncus bufoniu	us - toad rush	5-10%
Navarretia hamata - hooked pincushionplant		5-10%
Pilularia americana	- American pillwort	25-50%
Psilocarphus brevissimus - woolly marble		25-50%

### Cover of Other Native Species in Basin 75-100% Native Species Richness in Basin: 11

#### Nonnative Species in Pool

Species Name	Cover
Erodium botrys - longbeak stork's bill	5-10%
Lythrum hyssopifolia - hyssop loosestrife	10-25%
Phalaris paradoxa	1-5%
Polypogon monspeliensis - annual rabbitsfoot grass	5-10%

Cover of Nonnative Species in Basin: 25-50% Nonnative Species Richness in Basin: 4

Bare Ground Cover in Basin 1-5%Cover of Rocks/Cobble in Basin: 5-10%Cover of Litter in Basin: <1%</th>

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: Stinkwort from last year.

Survey Year: 2019

Complex Name: City\_Montgomery\_Field

Page 2 of 2

VP\_ID: 5358

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon americanus - American bird's-foot trefoil
Acmispon glaber - deerweed
Baccharis sarothroides - desertbroom
Brodiaea orcuttii - Orcutt's brodiaea
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Castilleja densiflora ssp. gracilis - Graceful owl's clover
Centaurea melitensis - Maltese star-thistle
Cotula coronopifolia - common brassbuttons
Croton californicus - California croton
Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Festuca myuros - rattail sixweeks grass
Galium aparine - common bedstraw
Hirschfeldia incana - shortpod mustard
Holocarpha virgata ssp. elongata - Graceful tarplant
Hypochaeris glabra - smooth cat's ear
Juncus bufonius - toad rush
Logfia gallica - narrowleaf cottonrose
Lythrum hyssopifolia - hyssop loosestrife
Melilotus indica - annual yellow sweetclover
Navarretia hamata - hooked pincushionplant
Nuttallanthus texanus - Texas toadflax
Phalaris paradoxa - hood canarygrass
Pogogyne abramsii - San Diego mesa mint
Polypogon monspeliensis - annual rabbitsfoot grass
Psilocarphus brevissimus - woolly marble
Selaginella cinerascens - mesa spikemoss
Silene gallica - common catchfly
Sonchus oleraceus - common sowthistle



Photo taken: Photo location is 32.819098, -117.133146 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019 Complex Name: City_Montgomery_Field		Page 1 of 2	
		VP_ID: 5363	
Photopoint X: -117.13287100000 Photopo	nt Y: 32.82012100000	Photopoint Established: 2019	
2003 Baseline Survey Data			
Baseline Cover of ERAR: 0.0 Baseline	Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 30.0 Baseline	Cover of PONU: 0.0		
2019 Quantitative Monitoring Data			
Survey Date 4/24/2019 Surve	Start Time: 10:50 AM	Survey End Time: 11:07 AM	
Surveyors: Maya Mazon, Rebecca Alvidrez, Cin	ly Dunn		
VPHCP Covered Species Present: POAB			
Cover of ERAR in Basin Cov	er of NAFO in Basin:	Cover of ORCA in Basin	
Cover of POAB in Basin 10-25% Cov	er of PONU in Basin		
Other Native Species in Pool:			
Species Name		Cover	
Brodiaea orcuttii - Orcutt's bro	iaea	1-5%	
Crassula aquatica - Aquatic pygm	weed	1-5%	
Deinandra fasciculata - clustered	arweed	1-5%	
Deschampsia danthonioides - annua	hairgrass	1-5%	
Downingia cuspidata - Toothed do	wningia	1-5%	
Eleocharis macrostachya - common	pikerush	1-5%	
Holocarpha virgata ssp. elongata - Grad	eful tarplant	1-5%	
Juncus bufonius - toad rus		5-10%	
Navarretia hamata - hooked pincus	ionplant	1-5%	
Pilularia americana - American p	llwort	10-25%	
Plagiobothrys acanthocarpus - adobe p	pcornflower	1-5%	
Psilocarphus brevissimus - woolly	marble	25-50%	

Cover of Other Native Species in Basin 75-100% Native Species Richness in Basin: 13

#### **Nonnative Species in Pool**

Species Name	Cover
Cotula coronopifolia - common brassbuttons	1-5%
Erodium botrys - longbeak stork's bill	1-5%
Festuca myuros - rattail sixweeks grass	1-5%
Lythrum hyssopifolia - hyssop loosestrife	10-25%
Polypogon monspeliensis - annual rabbitsfoot grass	1-5%

Cover of Nonnative Species in Basin: 25-50%

Nonnative Species Richness in Basin: 5

Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: 5-10%

Ponded Water Present? no

**Cover of Litter in Basin:** <1%

Days Since Last Rain >16

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Montgomery\_Field

Page 2 of 2

VP\_ID: 5363

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name	
Baccharis sarothroides - desertbroom	
Brodiaea orcuttii - Orcutt's brodiaea	
Bromus hordeaceus - soft brome	
Bromus madritensis - compact brome	
Castilleja densiflora ssp. gracilis - Graceful owl's clover	
Centaurea melitensis - Maltese star-thistle	
Cotula coronopifolia - common brassbuttons	
Crassula connata - sand pygmyweed	
Croton setigerus - dove weed	
Daucus pusillus - American wild carrot	
Deinandra fasciculata - clustered tarweed	
Downingia cuspidata - Toothed downingia	
Eriogonum fasciculatum - Eastern Mojave buckwheat	
Erodium botrys - longbeak stork's bill	
Erodium cicutarium - redstem stork's bill	
Festuca myuros - rattail sixweeks grass	
Galium aparine - common bedstraw	
Hirschfeldia incana - shortpod mustard	
Holocarpha virgata ssp. elongata - Graceful tarplant	
Hypochaeris glabra - smooth cat's ear	
Juncus bufonius - toad rush	
Lupinus bicolor - annual lupine	
Lythrum hyssopifolia - hyssop loosestrife	
Navarretia hamata - hooked pincushionplant	
Nuttallanthus texanus - Texas toadflax	
Pilularia americana - American pillwort	
Plantago elongata - annual coast plantago	
Plantago erecta - California plantain	
Pogogyne abramsii - San Diego mesa mint	
Polypogon monspeliensis - annual rabbitsfoot grass	
Pseudognaphalium canescens - Wright's cudweed	
Psilocarphus brevissimus - woolly marble	
Psilocarphus tenellus - short woollyheads	
Selaginella cinerascens - mesa spikemoss	
Silene gallica - common catchfly	
Uropappus lindleyi - silver puffs	



Photo taken: Photo location is 32.820121, -117.132871 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019 Complex Name: City_Montgomery_Field		Page 1 of 2
		VP_ID: 5369
Photopoint X: -117.13433000000	Photopoint Y: 32.81811300000	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 0.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 30.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 4/24/2019	Survey Start Time: 9:36 AM	Survey End Time: 10:00 AM
Surveyors: Maya Mazon, Rebecca	Alvidrez, Cindy Dunn	
VPHCP Covered Species Present: P	OAB	
Cover of ERAR in Basin	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin 5-10%	Cover of PONU in Basin	
<b>Other Native Species in Pool:</b>		
Species	Name	Cover
Brodiaea orcuttii - (	Drcutt's brodiaea	5-10%
Crassula aquatica - Ao	quatic pygmy weed	10-25%
Deinandra fasciculata	- clustered tarweed	1-5%
Deschampsia danthonio	ides - annual hairgrass	1-5%
Downingia cuspidata - Toothed downingia		50-75%
Eleocharis macrostachya - common spikerush		10-25%
Holocarpha virgata ssp. elongata - Graceful tarplant		1-5%
Juncus bufoniu	s - toad rush	10-25%
Myosurus minimus	- little mouse tail	5-10%
Pilularia americana -	American pillwort	25-50%
Psilocarphus brevissimus - woolly marble		25-50%

Cover of Other Native Species in Basin 75-100% Native Species Richness in Basin: 12

#### **Nonnative Species in Pool**

Species Name	Cover
Cotula coronopifolia - common brassbuttons	1-5%
Erodium botrys - longbeak stork's bill	1-5%
Gastridium phleoides - nit grass	1-5%
Hypochaeris glabra - smooth cat's ear	1-5%
Lythrum hyssopifolia - hyssop loosestrife	10-25%
Phalaris aquatica - harding Grass	1-5%

**Cover of Nonnative Species in Basin:** 25-50%

Nonnative Species Richness in Basin: 6

**Bare Ground Cover in Basin** 1-5%

Cover of Rocks/Cobble in Basin: 1-5% Ponded Water Present? no **Cover of Litter in Basin:** <1%

Days Since Last Rain >16

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Montgomery\_Field

Page 2 of 2

VP\_ID: 5369

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon americanus - American bird's-foot trefoil
Acmispon glaber - deerweed
Acmispon micranthus - small flowered lotus
Avena barbata - slender oat
Baccharis sarothroides - desertbroom
Brodiaea orcuttii - Orcutt's brodiaea
Bromus diandrus - ripgut brome
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Castilleja densiflora ssp. gracilis - Graceful owl's clover
Centaurea melitensis - Maltese star-thistle
Cerastium glomeratum - sticky mouseear chickweed
Cotula coronopifolia - common brassbuttons
Crassula aquatica - Aquatic pygmy weed
Crassula connata - sand pygmyweed
Croton setigerus - dove weed
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Erodium cicutarium - redstem stork's bill
Festuca myuros - rattail sixweeks grass
Glebionis coronaria - crown daisy
Hirschfeldia incana - shortpod mustard
Hordeum murinum - mouse barley
Hypochaeris glabra - smooth cat's ear
Juncus bufonius - toad rush
Logfia gallica - narrowleaf cottonrose
Lupinus bicolor - annual lupine
Lythrum hyssopifolia - hyssop loosestrife
Malosma laurina - laurel sumac
Nuttallanthus texanus - Texas toadflax
Phalaris aquatica - harding Grass
Rumex crispus - curly dock
Silene gallica - common catchfly
Sonchus asper - spiny sowthistle
Uropappus lindleyi - silver puffs

Notes/Comments: Dry algae



Photo taken: Photo location is 32.818113, -117.13433 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019 Complex Name: City_Montgomery_Field Photopoint X: -117.13432000000 Photopoint Y: 32.81766100000		Page 1 of 2 VP_ID: 5371
		2003 Baseline Survey Data
Baseline Cover of ERAR: 0.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 15.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 4/24/2019	Survey Start Time: 10:11 AM	Survey End Time: 10:37 AM
Surveyors: Maya Mazon, Cindy Du	unn, Rebecca Alvidrez	
VPHCP Covered Species Present:	РОАВ	
Cover of ERAR in Basin	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin 5-10%	Cover of PONU in Basin	
Other Native Species in Pool:		
Species	s Name	Cover
Acmispon americanus - American bird's-foot trefoil		1-5%
Brodiaea orcuttii - Orcutt's brodiaea		1-5%
Castilleja densiflora ssp. gracilis - Graceful owl's clover		1-5%
Crassula aquatica - Aquatic pygmy weed		25-50%
Deinandra fasciculata	a - clustered tarweed	10-25%
Downingia cuspidata	- Toothed downingia	1-5%
Holocarpha virgata ssp. el	ongata - Graceful tarplant	1-5%
Juncus bufoni	us - toad rush	10-25%
Pilularia americana - American pillwort		10-25%
Plantago elongata - a	nnual coast plantago	1-5%
Plantago erecta -	California plantain	5-10%
Psilocarphus brevissimus - woolly marble		25-50%

Cover of Other Native Species in Basin 75-100% Native Species Richness in Basin: 13

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus hordeaceus - soft brome	1-5%
Cotula coronopifolia - common brassbuttons	1-5%
Erodium botrys - longbeak stork's bill	1-5%
Festuca myuros - rattail sixweeks grass	1-5%
Gastridium phleoides - nit grass	1-5%
Hypochaeris glabra - smooth cat's ear	1-5%
Lythrum hyssopifolia - hyssop loosestrife	25-50%
Phalaris aquatica - harding Grass	10-25%
Polypogon monspeliensis - annual rabbitsfoot grass	1-5%

Cover of Nonnative Species in Basin: 75-100% Nonnative Species Richness in Basin: 9

Bare Ground Cover in Basin 1-5% Cover of Rocks/Cobble in Basin: 1-5%

Days Since Last Rain >16

Ponded Water Present? no

Dead Species Present in Pool: None

**Cover of Litter in Basin:** <1%

Survey Year: 2019

Complex Name: City\_Montgomery\_Field

Page 2 of 2

VP\_ID: 5371

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon americanus - American bird's-foot trefoil
Avena barbata - slender oat
Baccharis sarothroides - desertbroom
Bloomeria clevelandii - San Diego goldenstar
Brodiaea orcuttii - Orcutt's brodiaea
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Cotula coronopifolia - common brassbuttons
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Erodium cicutarium - redstem stork's bill
Glebionis coronaria - crown daisy
Hordeum murinum - mouse barley
Hypochaeris glabra - smooth cat's ear
Juncus bufonius - toad rush
Lysimachia arvensis - scarlet pimpernel
Pennisetum setaceum - crimson fountaingrass
Phalaris aquatica - harding Grass
Sonchus asper - spiny sowthistle
Uropappus lindleyi - silver puffs
Zeltnera venusta - charming centaury



Photo taken: Photo location is 32.817661, -117.13432 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019			Page 1 of 2
Complex Name: City_Montgomery_Field		VP_ID: 5388	
Photopoint X: -117.128042	200000	Photopoint Y: 32.810588000	00 Photopoint Established: 2019
2003 Baseline Survey Data			
Baseline Cover of ERAR:	0.0	Baseline Cover of NAFO: 0	.0 Baseline Cover of ORCA: 0.0
Baseline Cover of POAB:	5.0	Baseline Cover of PONU: 0.	.0
2019 Quantitative Monitor	ring Data		
Survey Date 4/22/2019		Survey Start Time: 12:41 P	M Survey End Time: 1:29 PM
Surveyors: Rebecca Alvid	lrez, Cindy [	Dunn, Maya Mazon	
VPHCP Covered Species F	Present: PO	AB	
Cover of ERAR in Basi	in	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Bas	<b>in</b> 5-10%	Cover of PONU in Basin	
Other Native Species in P	ool:		
	Species N	ame	Cover
Acmis	spon glaber	- deerweed	1-5%
Bloomeria clevelandii - San Diego goldenstar		1-5%	
Brodiaea	orcuttii - O	rcutt's brodiaea	5-10%
Brodiaea	terrestris -	dwarf brodiaea	1-5%
Chlorogalum pa	rviflorum - :	smallflower soap plant	1-5%
Crassula aq	uatica - Aqu	uatic pygmy weed	5-10%
Deinandra f	asciculata -	clustered tarweed	<1%
Deschampsia d	danthonioid	les - annual hairgrass	1-5%
Downingia c	uspidata - 1	oothed downingia	<1%
Holocarpha virga	ta ssp. elon	gata - Graceful tarplant	5-10%
Junci	us bufonius	- toad rush	5-10%
Muill	a maritima	- sea muilla	1-5%
Myosurus	s minimus -	little mouse tail	1-5%
Navarretia ha	mata - hoo	ked pincushionplant	5-10%
Pilularia ar	mericana - A	merican pillwort	1-5%
Plantago	erecta - Cal	ifornia plantain	1-5%
Psilocarphu	s brevissim	us - woolly marble	25-50%
Selaginella	cinerascens	- mesa spikemoss	10-25%

Cover of Other Native Species in Basin 75-100% Native Species Richness in Basin: 19

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus madritensis - compact brome	<1%
Erodium botrys - longbeak stork's bill	5-10%
Festuca myuros - rattail sixweeks grass	1-5%
Gastridium phleoides - nit grass	10-25%
Lythrum hyssopifolia - hyssop loosestrife	<1%
Polypogon monspeliensis - annual rabbitsfoot grass	1-5%

**Cover of Nonnative Species in Basin:** 25-50% Nonnative Species Richness in Basin: 6

Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: 5-10%

**Days Since Last Rain** >16

Ponded Water Present? no

**Cover of Litter in Basin:** 1-5%

Survey Year: 2019

Complex Name: City\_Montgomery\_Field

Page 2 of 2

VP\_ID: 5388

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Species Name
Acmispon glaber - deerweed Adenostoma fasciculatum - chamise
Adenostoma fasciculatum - chamise Artemisia californica - coastal sagebrush
Avena barbata - slender oat
Bloomeria clevelandii - San Diego goldenstar
Brodiaea orcuttii - Orcutt's brodiaea Brodiaea terrestris - dwarf brodiaea
Brodiaea terrestris - dwari brodiaea Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Calochortus splendens - splendid mariposa lily
Chlorogalum parviflorum - smallflower soap plant
Crassula connata - sand pygmyweed
Croton setigerus - dove weed
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Dichelostemma capitatum - bluedicks
Downingia cuspidata - Toothed downingia
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Erodium cicutarium - redstem stork's bill
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Gastridium phleoides - nit grass
Gnaphalium palustre - Lowland cudweed
Holocarpha virgata ssp. elongata - Graceful tarplant
Hypochaeris glabra - smooth cat's ear
Juncus bufonius - toad rush
Logfia gallica - narrowleaf cottonrose
Lythrum hyssopifolia - hyssop loosestrife
Malosma laurina - laurel sumac
Navarretia hamata - hooked pincushionplant
Nuttallanthus texanus - Texas toadflax
Osmadenia tenella - false rosinweed
Plantago elongata - annual coast plantago
Plantago erecta - California plantain
Pogogyne abramsii - San Diego mesa mint
Polypogon monspeliensis - annual rabbitsfoot grass
Psilocarphus brevissimus - woolly marble
Selaginella cinerascens - mesa spikemoss
Silene gallica - common catchfly
Stylocline gnaphaloides - everlasting nest straw
Uropappus lindleyi - silver puffs



Photo taken: Photo location is 32.810588, -117.128042 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Montgomery_Field Photopoint X: -117.12803000000 Photopoint Y: 32.81076400000		VP_ID: 5423
		Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 0.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.5	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data	3	
Survey Date 4/22/2019	Survey Start Time: 12:14 PM	Survey End Time: 12:33 PM
Surveyors: Rebecca Alvidrez, Cinc	dy Dunn, Maya Mazon	
VPHCP Covered Species Present:	РОАВ	
Cover of ERAR in Basin	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin 1-5%	Cover of PONU in Basin	
Other Native Species in Pool:		
Specie	s Name	Cover
Bloomeria clevelandii	- San Diego goldenstar	1-5%
Brodiaea orcuttii	- Orcutt's brodiaea	5-10%
Crassula aquatica -	Aquatic pygmy weed	1-5%
Deinandra fasciculat	a - clustered tarweed	5-10%
Deschampsia danthoni	ioides - annual hairgrass	1-5%
Downingia cuspidata	a - Toothed downingia	1-5%
Juncus bufon	ius - toad rush	10-25%
Myosurus minimu	ıs - little mouse tail	10-25%
Navarretia hamata - h	ooked pincushionplant	25-50%
Osmadenia tenell	a - false rosinweed	1-5%
Pilularia americana	- American pillwort	5-10%
Psilocarphus breviss	imus - woolly marble	10-25%
Psilocarphus tenellu	s - short woollyheads	5-10%
Selaginella cinerasce	ens - mesa spikemoss	25-50%

Cover of Other Native Species in Basin 75-100% Native Species Richness in Basin: 15

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus hordeaceus - soft brome	1-5%
Bromus madritensis - compact brome	1-5%
Erodium botrys - longbeak stork's bill	5-10%
Festuca myuros - rattail sixweeks grass	10-25%
Gastridium phleoides - nit grass	5-10%
Hypochaeris glabra - smooth cat's ear	1-5%
Lythrum hyssopifolia - hyssop loosestrife	1-5%

Cover of Nonnative Species in Basin: 25-50%

Nonnative Species Richness in Basin: 7

Cover of Litter in Basin: 1-5%

Days Since Last Rain >16

Ponded Water Present? no

**Cover of Rocks/Cobble in Basin:** 1-5%

Dead Species Present in Pool: None

Bare Ground Cover in Basin 1-5%

Survey Year: 2019

Complex Name: City\_Montgomery\_Field

Page 2 of 2

VP\_ID: 5423

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name Acmispon glaber - deerweed Adenostoma fasciculatum - chamise Artemisia californica - coastal sagebrush Avena barbata - slender oat Bloomeria clevelandii - San Diego goldenstar Brodiaea orcuttii - Orcutt's brodiaea Bromus hordeaceus - soft brome Bromus madritensis - compact brome Calochortus splendens - splendid mariposa lily Chlorogalum parviflorum - smallflower soap plant Crassula connata - sand pygmyweed Croton setigerus - dove weed Deinandra fasciculata - clustered tarweed Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Ferodium cicutarium - redstem stork's bill Ferocatus viridescens - San Diego barrel cactus Festuca myuros - rattali sixweeks grass Gastridium phleoides - nit grass Hypochaeris glabra - smooth cat's ear Juncus bufonius - toad rush Logfia gallica - narrowleaf cottonrose Navarretia hamata - hooked pincushionplant Nuttallanthus texanus - Texas toadflax Plantago elongata - annual coast plantago Pogogyne abramsi - San Diego mas mint Psilocarphus brevissimus - woolly marble Selaginella cinerascens - mesa spikemoss Silene gallica - common catchfly Sonchus asper - spiny sowthistle Uropappus lindleyi - silver puffs	
Adenostoma fasciculatum - chamise         Artemisia californica - coastal sagebrush         Avena barbata - slender oat         Bloomeria clevelandii - San Diego goldenstar         Brodiaea orcuttii - Orcutt's brodiaea         Bromus hordeaceus - soft brome         Calochortus splendens - splendid mariposa lily         Chlorogalum parviflorum - smallflower soap plant         Crassula connata - sand pygmyweed         Croton setigerus - dove weed         Deinandra fasciculata - clustered tarweed         Eroidium botrys - longbeak stork's bill         Ferocatus viridescens - San Diego barrel cactus         Festuca myuros - rattail sixweeks grass         Gastridium phleoides - nit grass         Hypochaeris glabra - smooth cat's ear         Juncus bufonius - toad rush         Logfia gallica - narrowleaf cottonrose         Navarretia hamata - hooked pincushionplant         Nuttalianthus texanus - Texas toadflax         Plantago elongata - annual coast plantago         Pogogyne abramsii - San Diego mesa mint         Psilocarphus brevissimus - woolly marble         Selaginella cinerascens - mesa spikemoss         Selaginella cinerascen	Species Name
Artemisia californica - coastal sagebrush         Avena barbata - slender oat         Bloomeria clevelandii - San Diego goldenstar         Brodiaea orcuttii - Orcutt's brodiaea         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Calochortus splendens - splendid mariposa lily         Chlorogalum parviflorum - smallflower soap plant         Crassula connata - sand pygmyweed         Croton setigerus - dove weed         Deinandra fasciculata - clustered tarweed         Eriogonum fasciculatum - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Feroactus viridescens - San Diego barrel cactus         Festuca myuros - rattail sixweeks grass         Gastridium pheoides - nit grass         Hypochaeris glabra - smooth cat's ear         Juncus bufonius - toak undin         Logfia gallica - narrowleaf cottonrose         Navarretia hamata - hooked pincushionplant         Nuttallanthus texanus - Texas toadflax         Plantago elongata - annual coast plantago         Pogogyne abramsii - San Diego mesa mint         Psilocarphus brevissimus - woolly marble         Selaginella cinerascens - mesa spikemoss         Selaginella cinerascens - mesa spikemoss         Selaginella cinerascens - mesa spikemoss	Acmispon glaber - deerweed
Avena barbata - slender oatBloomeria clevelandii - San Diego goldenstarBrodiaea orcuttii - Orcutt's brodiaeaBromus hordeaceus - soft bromeCalochortus splendens - soplendid mariposa lilyChlorogalum parviflorum - smallflower soap plantCrassula connata - sand pygmyweedCroton setigerus - dove weedDeinandra fasciculata - clustered tarweedErodium botrys - longbeak stork's billFerogonum fasciculatum - Eastern Mojave buckwheatErodium botrys - longbeak stork's billFerocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassGastridium pheoides - nit grassHypochaeris glabra - smooth cat's earJuncus bufonius - toad rushLogfia gallica - narrowleaf cottonroseNavarretia hamata - hooked pincushionplantNuttallanthus texanus - Texas toadflaxPlantago elongata - annual coast plantagoPogogyne abramsii - San Diego mesa mintPelantago elongata - annual coast plantagoSelaginella cinerascens - mesa spikemossSilene gallica - common catchflySonchus asper - spiny sowthistle	Adenostoma fasciculatum - chamise
Bloomeria clevelandii - San Diego goldenstar         Brodiaea orcuttii - Orcutt's brodiaea         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Calochortus splendens - splendid mariposa lily         Chlorogalum parviflorum - smallflower soap plant         Crassula connata - sand pygmyweed         Croton setigerus - dove weed         Deinandra fasciculata - clustered tarweed         Eriogonum fasciculatum - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Erodium cicutarium - redstem stork's bill         Ferocactus viridescens - San Diego barrel cactus         Festuca myuros - rattail sixweeks grass         Gastridium phleoides - nit grass         Hypochaeris glabra - smooth cat's ear         Juncus bufonius - toad rush         Logfia gallica - narrowleaf cottonrose         Navarretia hamata - hooked pincushionplant         Nuttallanthus texanus - Texas toadflax         Plantago elongata - annual coast plantago         Pogogyne abramisi - San Diego meas mint         Polacep abramisi - San Diego meas mint         Selaginella cinerascens - meas apikemoss         Silene gallica - common catchfly         Sonchus asper - spiny sowthistle	Artemisia californica - coastal sagebrush
Brodiaea orcuttii - Orcutt's brodiaea         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Calochortus splendens - splendid mariposa lily         Chlorogalum parviflorum - smallflower soap plant         Crassula connata - sand pygmyweed         Croton setigerus - dow weed         Deinandra fasciculata - clustered tarweed         Eriogonum fasciculatum - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Ferocactus viridescens - San Diego barrel cactus         Festuca myuros - rattail sixweeks grass         Gastridium phleoides - nit grass         Hypochaeris glabra - smooth cat's ear         Juncus bufonius - toad rush         Logfia gallica - narrowleaf cottonrose         Navarretia hamata - hooked pincushionplant         Nuttallanthus texanus - Texas toadflax         Plantago elongata - annual coast plantago         Pogogyne abramsii - San Diego mesa mint         Psilocarphus brevissimus - woolly marble         Selaginella cinerascens - mesa spikemoss         Silene gallica - common catchfly         Sonchus asper - spiny sowthistle	Avena barbata - slender oat
Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Calochortus splendens - splendid mariposa lily         Chlorogalum parviflorum - smallflower soap plant         Crassula connata - sand pygmywed         Croton setigerus - dove weed         Deinandra fasciculata - clustered tarweed         Eriogonum fasciculatum - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Ferocactus viridescens - San Diego barrel cactus         Ferocactus viridescens - San Diego barrel cactus         Gastridium phleoides - nit grass         Gastridium s todorinus - todar ush         Logfia gallica - narrowleaf cottonrose         Navarretia hamata - hooked pincushionplant         Nuttallanthus texanus - Texas toadflax         Plantago elongata - annual coast plantago         Pogogyne abransii - San Diego mesa mint         Psilocarphus brevissimus - woolly marble         Selaginella cinerascens - mesa spikemoss         Silene gallica - common catchfly         Sonchus asper - spiny sowthistle	Bloomeria clevelandii - San Diego goldenstar
Bromus madritensis - compact brome         Calochortus splendens - splendid mariposa lily         Chlorogalum parviflorum - smallflower soap plant         Crassula connata - sand pygmyweed         Croton setigerus - dove weed         Deinandra fasciculata - clustered tarweed         Eriogonum fasciculatur - Eastern Mojave buckwheat         Erodium cicutarium - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Erodium cicutarium - redstem stork's bill         Ferocactus viridescens - San Diego barrel cactus         Festuca myuros - rattail sixweeks grass         Gastridium phleoides - nit grass         Hypochaeris glabra - smooth cat's ear         Juncus bufonius - toad rush         Logfia gallica - narrowleaf cottonrose         Navarretia hamata - hooked pincushionplant         Nuttallanthus texanus - Texas toadflax         Plantago elongata - annual coast plantago         Pogogyne abramsii - San Diego mesa mint         Psilocarphus brevissimus - woolly marble         Selaginella cinerascens - mesa spikemoss         Silene gallica - common catchfly         Sonchus asper - spiny sowthistle	Brodiaea orcuttii - Orcutt's brodiaea
Calochortus splendens - splendid mariposa lily Chlorogalum parviflorum - smallflower soap plant Crassula connata - sand pygmyweed Croton setigerus - dove weed Deinandra fasciculata - clustered tarweed Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Erodium cicutarium - redstem stork's bill Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Gastridium phleoides - nit grass Hypochaeris glabra - smooth cat's ear Juncus bufonius - toad rush Logfia gallica - narrowleaf cottonrose Navarretia hamata - hooked pincushionplant Nuttallanthus texanus - Texas toadflax Plantago elongata - annual coast plantago Pogogyne abramsii - San Diego mesa mint Psilocarphus brevissimus - woolly marble Selaginella cinerascens - mesa spikemoss Silene gallica - common catchfly Sonchus asper - spiny sowthistle	Bromus hordeaceus - soft brome
Chlorogalum parviflorum - smallflower soap plant Crassula connata - sand pygmyweed Croton setigerus - dove weed Deinandra fasciculata - clustered tarweed Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Erodium cicutarium - redstem stork's bill Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Gastridium phleoides - nit grass Hypochaeris glabra - smooth cat's ear Juncus bufonius - toad rush Cogfia gallica - narrowleaf cottonrose Navarretia hamata - hooked pincushionplant Nuttallanthus texanus - Texas toadflax Plantago elongata - annual coast plantago Pogogyne abramsii - San Diego mesa mint Psilocarphus brevissimus - woolly marble Selaginella cinerascens - mesa spikemoss Silene gallica - common catchfly Sonchus asper - spiny sowthistle	Bromus madritensis - compact brome
Crassula connata - sand pygmyweed Croton setigerus - dove weed Deinandra fasciculata - clustered tarweed Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Erodium cicutarium - redstem stork's bill Ferocactus viridescens - San Diego barrel cactus Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Gastridium phleoides - nit grass Hypochaeris glabra - smooth cat's ear Juncus bufonius - toad rush Logfia gallica - narrowleaf cottonrose Navarretia hamata - hooked pincushionplant Nuttallanthus texanus - Texas toadflax Plantago elongata - annual coast plantago Pogogyne abramsii - San Diego mesa mint Psilocarphus brevissimus - woolly marble Selaginella cinerascens - mesa spikemoss Silene gallica - common catchfly Sonchus asper - spiny sowthistle	Calochortus splendens - splendid mariposa lily
Croton setigerus - dove weed Deinandra fasciculata - clustered tarweed Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Erodium cicutarium - redstem stork's bill Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Gastridium phleoides - nit grass Hypochaeris glabra - smooth cat's ear Juncus bufonius - toad rush Logfia gallica - narrowleaf cottonrose Navarretia hamata - hooked pincushionplant Nuttallanthus texanus - Texas toadflax Plantago elongata - annual coast plantago Pogogyne abramsii - San Diego mesa mint Psilocarphus brevissimus - woolly marble Selaginella cinerascens - mesa spikemoss Silene gallica - common catchfly Sonchus asper - spiny sowthistle	Chlorogalum parviflorum - smallflower soap plant
Deinandra fasciculata - clustered tarweedEriogonum fasciculatum - Eastern Mojave buckwheatErodium botrys - longbeak stork's billErodium cicutarium - redstem stork's billFerocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassGastridium phleoides - nit grassHypochaeris glabra - smooth cat's earJuncus bufonius - toad rushLogfia gallica - narrowleaf cottonroseNavarretia hamata - hooked pincushionplantNuttallanthus texanus - Texas toadflaxPlantago elongata - annual coast plantagoPogogyne abramsii - San Diego mesa mintPsilocarphus brevissimus - woolly marbleSelaginella cinerascens - mesa spikemossSilene gallica - common catchflySonchus asper - spiny sowthistle	Crassula connata - sand pygmyweed
Eriogonum fasciculatum - Eastern Mojave buckwheatErodium botrys - longbeak stork's billErodium cicutarium - redstem stork's billFerocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassGastridium phleoides - nit grassHypochaeris glabra - smooth cat's earJuncus bufonius - toad rushLogfia gallica - narrowleaf cottonroseNavarretia hamata - hooked pincushionplantNuttallanthus texanus - Texas toadflaxPlantago elongata - annual coast plantagoPogogyne abramsii - San Diego mesa mintPsilocarphus brevissimus - woolly marbleSelaginella cinerascens - mesa spikemossSilene gallica - common catchflySonchus asper - spiny sowthistle	Croton setigerus - dove weed
Erodium botrys - longbeak stork's billErodium cicutarium - redstem stork's billFerocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassGastridium phleoides - nit grassHypochaeris glabra - smooth cat's earJuncus bufonius - toad rushLogfia gallica - narrowleaf cottonroseNavarretia hamata - hooked pincushionplantNuttallanthus texanus - Texas toadflaxPlantago elongata - annual coast plantagoPogogyne abramsii - San Diego mesa mintPsilocarphus brevissimus - woolly marbleSelaginella cinerascens - mesa spikemossSilene gallica - common catchflySonchus asper - spiny sowthistle	Deinandra fasciculata - clustered tarweed
Erodium cicutarium - redstem stork's bill Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Gastridium phleoides - nit grass Hypochaeris glabra - smooth cat's ear Juncus bufonius - toad rush Logfia gallica - narrowleaf cottonrose Navarretia hamata - hooked pincushionplant Nuttallanthus texanus - Texas toadflax Plantago elongata - annual coast plantago Pogogyne abramsii - San Diego mesa mint Psilocarphus brevissimus - woolly marble Selaginella cinerascens - mesa spikemoss Silene gallica - common catchfly Sonchus asper - spiny sowthistle	Eriogonum fasciculatum - Eastern Mojave buckwheat
Ferocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassGastridium phleoides - nit grassHypochaeris glabra - smooth cat's earJuncus bufonius - toad rushLogfia gallica - narrowleaf cottonroseNavarretia hamata - hooked pincushionplantNuttallanthus texanus - Texas toadflaxPlantago elongata - annual coast plantagoPogogyne abramsii - San Diego mesa mintPsilocarphus brevissimus - woolly marbleSelaginella cinerascens - mesa spikemossSilene gallica - common catchflySonchus asper - spiny sowthistle	Erodium botrys - longbeak stork's bill
Festuca myuros - rattail sixweeks grassGastridium phleoides - nit grassHypochaeris glabra - smooth cat's earJuncus bufonius - toad rushLogfia gallica - narrowleaf cottonroseNavarretia hamata - hooked pincushionplantNuttallanthus texanus - Texas toadflaxPlantago elongata - annual coast plantagoPogogyne abramsii - San Diego mesa mintPsilocarphus brevissimus - woolly marbleSelaginella cinerascens - mesa spikemossSilene gallica - common catchflySonchus asper - spiny sowthistle	Erodium cicutarium - redstem stork's bill
Gastridium phleoides - nit grassHypochaeris glabra - smooth cat's earJuncus bufonius - toad rushLogfia gallica - narrowleaf cottonroseNavarretia hamata - hooked pincushionplantNuttallanthus texanus - Texas toadflaxPlantago elongata - annual coast plantagoPogogyne abramsii - San Diego mesa mintPsilocarphus brevissimus - woolly marbleSelaginella cinerascens - mesa spikemossSilene gallica - common catchflySonchus asper - spiny sowthistle	Ferocactus viridescens - San Diego barrel cactus
Hypochaeris glabra - smooth cat's earJuncus bufonius - toad rushLogfia gallica - narrowleaf cottonroseNavarretia hamata - hooked pincushionplantNuttallanthus texanus - Texas toadflaxPlantago elongata - annual coast plantagoPogogyne abramsii - San Diego mesa mintPsilocarphus brevissimus - woolly marbleSelaginella cinerascens - mesa spikemossSilene gallica - common catchflySonchus asper - spiny sowthistle	Festuca myuros - rattail sixweeks grass
Juncus bufonius - toad rushLogfia gallica - narrowleaf cottonroseNavarretia hamata - hooked pincushionplantNuttallanthus texanus - Texas toadflaxPlantago elongata - annual coast plantagoPogogyne abramsii - San Diego mesa mintPsilocarphus brevissimus - woolly marbleSelaginella cinerascens - mesa spikemossSilene gallica - common catchflySonchus asper - spiny sowthistle	Gastridium phleoides - nit grass
Logfia gallica - narrowleaf cottonrose Navarretia hamata - hooked pincushionplant Nuttallanthus texanus - Texas toadflax Plantago elongata - annual coast plantago Pogogyne abramsii - San Diego mesa mint Psilocarphus brevissimus - woolly marble Selaginella cinerascens - mesa spikemoss Silene gallica - common catchfly Sonchus asper - spiny sowthistle	Hypochaeris glabra - smooth cat's ear
Navarretia hamata - hooked pincushionplantNuttallanthus texanus - Texas toadflaxPlantago elongata - annual coast plantagoPogogyne abramsii - San Diego mesa mintPsilocarphus brevissimus - woolly marbleSelaginella cinerascens - mesa spikemossSilene gallica - common catchflySonchus asper - spiny sowthistle	Juncus bufonius - toad rush
Nuttallanthus texanus - Texas toadflax Plantago elongata - annual coast plantago Pogogyne abramsii - San Diego mesa mint Psilocarphus brevissimus - woolly marble Selaginella cinerascens - mesa spikemoss Silene gallica - common catchfly Sonchus asper - spiny sowthistle	Logfia gallica - narrowleaf cottonrose
Plantago elongata - annual coast plantago Pogogyne abramsii - San Diego mesa mint Psilocarphus brevissimus - woolly marble Selaginella cinerascens - mesa spikemoss Silene gallica - common catchfly Sonchus asper - spiny sowthistle	Navarretia hamata - hooked pincushionplant
Pogogyne abramsii - San Diego mesa mint Psilocarphus brevissimus - woolly marble Selaginella cinerascens - mesa spikemoss Silene gallica - common catchfly Sonchus asper - spiny sowthistle	Nuttallanthus texanus - Texas toadflax
Psilocarphus brevissimus - woolly marble Selaginella cinerascens - mesa spikemoss Silene gallica - common catchfly Sonchus asper - spiny sowthistle	Plantago elongata - annual coast plantago
Selaginella cinerascens - mesa spikemoss Silene gallica - common catchfly Sonchus asper - spiny sowthistle	Pogogyne abramsii - San Diego mesa mint
Silene gallica - common catchfly Sonchus asper - spiny sowthistle	Psilocarphus brevissimus - woolly marble
Sonchus asper - spiny sowthistle	Selaginella cinerascens - mesa spikemoss
	Silene gallica - common catchfly
Uropappus lindleyi - silver puffs	Sonchus asper - spiny sowthistle
	Uropappus lindleyi - silver puffs

Annual Covered Plant Monitoring Photo Vernal Pool ID: 5423



Photo taken: Photo location is 32.810764, -117.12803 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

Survey Year: 2019		Page 1 of 2
Complex Name: City_Montgomery_Field		VP_ID: 6351
Photopoint X: -117.13026800000	Photopoint Y: 32.81434500000	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 0.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.5	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data	1	
Survey Date 5/2/2019	Survey Start Time: 10:35 AM	Survey End Time: 10:47 AM
Surveyors: Rebecca Alvidrez, Cinc	ly Dunn, Paul Birdwell	
VPHCP Covered Species Present:	POAB	
Cover of ERAR in Basin	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin 5-10%	6 Cover of PONU in Basin	
Other Native Species in Pool:		
Specie	s Name	Cover
Brodiaea orcuttii	- Orcutt's brodiaea	5-10%
Crassula aquatica - /	Aquatic pygmy weed	1-5%
Deinandra fasciculata - clustered tarweed		1-5%
Deschampsia danthonioides - annual hairgrass		1-5%
Holocarpha virgata ssp. elongata - Graceful tarplant		1-5%
Juncus bufonius - toad rush		1-5%
Pilularia americana - American pillwort		10-25%
Plantago elongata - annual coast plantago		1-5%
Psilocarphus breviss	imus - woolly marble	25-50%
Psilocarphus tenellu	s - short woollyheads	1-5%

#### Cover of Other Native Species in Basin 75-100% Native Species Richness in Basin: 11

#### **Nonnative Species in Pool**

Species Name	Cover
Gastridium phleoides - nit grass	1-5%
Hypochaeris glabra - smooth cat's ear	<1%
Lythrum hyssopifolia - hyssop loosestrife	1-5%
Polypogon monspeliensis - annual rabbitsfoot grass	1-5%

Cover of Nonnative Species in Basin: 5-10% Nonnative Species Richness in Basin: 4

Bare Ground Cover in Basin 1-5% Cover of Rocks/Cobble in Basin: 10-25% Cover of Litter in Basin: <1%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Montgomery\_Field

Page 2 of 2

VP\_ID: 6351

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Avena barbata - slender oat
Baccharis sarothroides - desertbroom
Bloomeria clevelandii - San Diego goldenstar
Brodiaea orcuttii - Orcutt's brodiaea
Bromus diandrus - ripgut brome
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Calochortus splendens - splendid mariposa lily
Crassula connata - sand pygmyweed
Croton californicus - California croton
Croton setigerus - dove weed
Datura stramonium - Jimson weed
Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Festuca myuros - rattail sixweeks grass
Holocarpha virgata ssp. elongata - Graceful tarplant
Hypochaeris glabra - smooth cat's ear
Juncus bufonius - toad rush
Lythrum hyssopifolia - hyssop loosestrife
Quercus berberidifolia - scrub oak

Annual Covered Plant Monitoring Photo Vernal Pool ID: 6351



Photo taken: Photo location is 32.814345, -117.130268 NAD83 State Plane California Zone 6 (feet) Photos merged using ArcSoft Panorama Maker 4.

Survey Year: 2019		Page 1 of 2
Complex Name: City_Montgomery	_Field	VP_ID: 6384
Photopoint X: -117.13308900000	Photopoint Y: 32.81976500000	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 0.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 20.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 4/24/2019	Survey Start Time: 11:04 AM	Survey End Time: 11:40 AM
Surveyors: Maya Mazon, Rebecca	Alvidrez, Cindy Dunn	
VPHCP Covered Species Present: P	OAB	
Cover of ERAR in Basin	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin 10-25%	6 Cover of PONU in Basin	
<b>Other Native Species in Pool:</b>		
Species	Name	Cover
Acmispon americanus - An	nerican bird's-foot trefoil	1-5%
Brodiaea orcuttii -	Orcutt's brodiaea	1-5%
Crassula aquatica - A	quatic pygmy weed	5-10%
Deinandra fasciculata	- clustered tarweed	1-5%
Deschampsia danthonio	ides - annual hairgrass	1-5%
Downingia cuspidata -	Toothed downingia	25-50%
Eleocharis macrostachy	a - common spikerush	1-5%
Holocarpha virgata ssp. elc	ongata - Graceful tarplant	1-5%
Juncus bufoniu	ıs - toad rush	10-25%
Navarretia hamata - ho	oked pincushionplant	10-25%
Pilularia americana -	American pillwort	25-50%
Psilocarphus brevissir	nus - woolly marble	25-50%
Psilocarphus tenellus	- short woollyheads	1-5%
Zeltnera venusta - c	harming centaury	1-5%

Cover of Other Native Species in Basin 75-100% Native Species Richness in Basin: 14

#### **Nonnative Species in Pool**

Species Name	Cover
Erodium botrys - longbeak stork's bill	5-10%
Festuca myuros - rattail sixweeks grass	1-5%
Lythrum hyssopifolia - hyssop loosestrife	10-25%
Phalaris aquatica - harding Grass	1-5%
Polypogon monspeliensis - annual rabbitsfoot grass	5-10%

**Cover of Nonnative Species in Basin:** 25-50% Bare Ground Cover in Basin 5-10% **Cover of Rocks/Cobble in Basin:** 10-25%

Nonnative Species Richness in Basin: 5

**Cover of Litter in Basin:** <1%

**Days Since Last Rain** >16

Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Montgomery\_Field

Page 2 of 2

VP\_ID: 6384

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name         Acmispon americanus - American bird's-foot trefoil         Acmispon glaber - deerweed         Avena barbata - slender oat         Baccharis sarothroides - desertbroom         Brodiaea orcuttii - Orcutt's brodiaea         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Castilleja densiflora ssp. gracilis - Graceful owl's clover         Centaurea melitensis - Maltese star-thistle         Cotula coronopifolia - common brassbuttons         Crassula connata - sand pygmyweed         Daucus pusillus - American wild carrot         Deinandra fasciculata - clustered tarweed         Deschampsia danthonioides - annual hairgrass         Downingia cuspidata - Toothed downingia         Eriogonum fasciculatum - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Festuca myuros - rattail sixweeks grass         Hirschfeldia incana - shortpod mustard         Holocarpha virgata ssp. elongata - Graceful tarplant         Hypochaeris glabra - smooth cat's ear
Acmispon glaber - deerweedAvena barbata - slender oatBaccharis sarothroides - desertbroomBrodiaea orcuttii - Orcutt's brodiaeaBromus hordeaceus - soft bromeBromus madritensis - compact bromeCastilleja densiflora ssp. gracilis - Graceful owl's cloverCentaurea melitensis - Maltese star-thistleCotula coronopifolia - common brassbuttonsCrassula connata - sand pygmyweedDaucus pusillus - American wild carrotDeinandra fasciculata - clustered tarweedDeschampsia danthonioides - annual hairgrassDowningia cuspidata - Toothed downingiaEriogonum fasciculatum - Eastern Mojave buckwheatErodium botrys - longbeak stork's billFridum cicutarium - redstem stork's billFestuca myuros - rattail sixweeks grassHirschfeldia incana - shortpod mustardHolocarpha virgata ssp. elongata - Graceful tarplant
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Brodiaea orcuttii - Orcutt's brodiaea Bromus hordeaceus - soft brome Bromus madritensis - compact brome Castilleja densiflora ssp. gracilis - Graceful owl's clover Centaurea melitensis - Maltese star-thistle Cotula coronopifolia - common brassbuttons Crassula connata - sand pygmyweed Daucus pusillus - American wild carrot Deinandra fasciculata - clustered tarweed Deschampsia danthonioides - annual hairgrass Downingia cuspidata - Toothed downingia Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Frodium cicutarium - redstem stork's bill Festuca myuros - rattail sixweeks grass Hirschfeldia incana - shortpod mustard Holocarpha virgata ssp. elongata - Graceful tarplant
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Cotula coronopifolia - common brassbuttons Crassula connata - sand pygmyweed Daucus pusillus - American wild carrot Deinandra fasciculata - clustered tarweed Deschampsia danthonioides - annual hairgrass Downingia cuspidata - Toothed downingia Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Erodium cicutarium - redstem stork's bill Festuca myuros - rattail sixweeks grass Hirschfeldia incana - shortpod mustard Holocarpha virgata ssp. elongata - Graceful tarplant
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Hirschfeldia incana - shortpod mustard Holocarpha virgata ssp. elongata - Graceful tarplant
Holocarpha virgata ssp. elongata - Graceful tarplant
Hypochaeris glabra - smooth cat's ear
riypochachis Blabra - shiboth cat s cai
Isocoma menziesii - Menzies' goldenbush
Juncus bufonius - toad rush
Lythrum hyssopifolia - hyssop loosestrife
Melilotus indica - annual yellow sweetclover
Navarretia hamata - hooked pincushionplant
Nuttallanthus texanus - Texas toadflax
Phalaris aquatica - harding Grass
Pilularia americana - American pillwort
Plagiobothrys acanthocarpus - adobe popcornflower
Polypogon monspeliensis - annual rabbitsfoot grass
Pseudognaphalium canescens - Wright's cudweed
Psilocarphus brevissimus - woolly marble
Psilocarphus tenellus - short woollyheads
Selaginella cinerascens - mesa spikemoss
Silene gallica - common catchfly
Sonchus asper - spiny sowthistle
Zeltnera venusta - charming centaury



Photo taken: Photo location is 32.819765, -117.133089 NAD83 State Plane California Zone 6 (feet)

# **Nobel Drive**

Planning Unit: North Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: Yes

# VPHCP Qualitative Monitoring and Management Actions

Complex Name: City_Nobel_Drive	
Complex Mame. City_MODEL_DIME	
Planning Unit: North City or Other? City	Managing Department: Park_Recreation
Baseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
Qualitative Monitoring Data:	
Visit Date: 5/2/2019 Start Time: 9:30:00	
Surveyors: Jason Allen, Mark Berninger, Jessie Lane, Diar	na Brand
Site Conditions:	
Ponded Water: no Days Since Last Rain: 1-5	Fairy Shrimp Visible?
Listed Plants Visible? Present Listed Plants	S:
New and Ongoing Issues Observed During Visit:	
Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol, Dethatching, Regu	larpatrolsrecommended
Other Management Needs:	
Additional Management Actions Recommended: We	eed control performed by Caltrans.
Notes:	
<b>Visit Date:</b> 6/4/2019 <b>Start Time:</b> 7:30:00	
Surveyors: Jason Allen	
Surveyors: Jason Allen <u>Site Conditions:</u> Ponded Water: no Days Since Last Rain: 1-5	Fairy Shrimp Visible?
Site Conditions:	<i>,</i> .
Site Conditions: Ponded Water: no Days Since Last Rain: 1-5	<i>,</i> .
Site Conditions: Ponded Water: no Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants	Tresspass/Unauthorized Use:
Site Conditions: Ponded Water: no Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants New and Ongoing Issues Observed During Visit:	S:
Site Conditions: Ponded Water: no Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants New and Ongoing Issues Observed During Visit: Trash:	Tresspass/Unauthorized Use:
Site Conditions: Ponded Water: no Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs:	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression:
Site Conditions:Ponded Water: noDays Since Last Rain: 1-5Listed Plants Visible? PresentListed PlantsNew and Ongoing Issues Observed During Visit:Trash:Damage to Fences and/or Signs:Invasive Species in Pool: Ongoing	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
Site Conditions:         Ponded Water: no       Days Since Last Rain: 1-5         Listed Plants Visible?       Present       Listed Plants         New and Ongoing Issues Observed During Visit:       Trash:         Damage to Fences and/or Signs:       Invasive Species in Pool: Ongoing         Invasive Species in Buffer: Ongoing	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
Site Conditions:         Ponded Water: no       Days Since Last Rain: 1-5         Listed Plants Visible? Present       Listed Plants         New and Ongoing Issues Observed During Visit:       Trash:         Damage to Fences and/or Signs:       Invasive Species in Pool: Ongoing         Invasive Species in Buffer: Ongoing       Other issues observed:	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Site Conditions:         Ponded Water: no       Days Since Last Rain: 1-5         Listed Plants Visible? Present       Listed Plants         New and Ongoing Issues Observed During Visit:       Trash:         Damage to Fences and/or Signs:       Invasive Species in Pool: Ongoing         Invasive Species in Buffer: Ongoing       Other issues observed:         Are other issues observed is new or ongoing?	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Site Conditions:         Ponded Water: no       Days Since Last Rain: 1-5         Listed Plants Visible? Present       Listed Plants         New and Ongoing Issues Observed During Visit:       Trash:         Damage to Fences and/or Signs:       Invasive Species in Pool: Ongoing         Invasive Species in Buffer: Ongoing       Other issues observed:         Are other issues observed is new or ongoing?         Management Needs:       Weedcontrol,RestReveg,Sign_ir         Other Management Actions Recommended: Weedcontrol	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:

# **Nobel Drive** Qualitative Management Monitoring Photos

These photos represent issues noted during qualitative management monitoring surveys. These issues are currently being addressed by City staff.



- Photo taken: 5/2/2019
- Photo description: Invasive and native plants encroaching into vernal pools.



- Photo taken: 6/4/2019
- Photo description: Invasive plants Stinkwort (*Dittrichia graveolens*) present in vernal pools and surrounding buffer.

	Page 1 of 2
	VP_ID: 666
Photopoint Y: 32.86648267310	Photopoint Established: 2018
Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of PONU: 0.0	
Survey Start Time: 3:59 PM	Survey End Time: 4:31 PM
len, Diana Brand Ramirez, Jessie La	ane
\FO	
Cover of NAFO in Basin: <1	% Cover of ORCA in Basin
Cover of PONU in Basin	
lame	Cover
rcutt's brodiaea	<1%
fornia water starwort	5-10%
cryptantha	1-5%
clustered tarweed	<1%
les - annual hairgrass	<1%
Foothed downingia	<1%
- common spikerush	<1%
	<1%
ked pincushionplant	<1%
	Baseline Cover of PONU:       0.0         Survey Start Time:       3:59 PM         Ien, Diana Brand Ramirez, Jessie La         AFO         Cover of NAFO in Basin:         Cover of PONU in Basin         Iame         rcutt's brodiaea         fornia water starwort         cryptantha         clustered tarweed         des - annual hairgrass         Foothed downingia

#### **Nonnative Species in Pool**

Species Name	Cover
Cotula coronopifolia - common brassbuttons	<1%
Erodium botrys - longbeak stork's bill	<1%
Lythrum hyssopifolia - hyssop loosestrife	1-5%
Phalaris minor - littleseed canarygrass	<1%
Polypogon monspeliensis - annual rabbitsfoot grass	<1%
Spergularia villosa - hairy sand spurry	<1%

Cover of Nonnative Species in Basin: 1-5% Nonnative Species Richness in Basin: 6

Bare Ground Cover in Basin 25-50%Cover of Rocks/Cobble in Basin: 5-10%

Ponded Water Present? no

Cover of Litter in Basin: <1%

Days Since Last Rain 1-5

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Nobel\_Drive

Page 2 of 2

VP\_ID: 666

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Bromus diandrus - ripgut brome
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Castilleja exserta - exserted Indian paintbrush
Crassula aquatica - Aquatic pygmy weed
Crassula connata - sand pygmyweed
Croton setigerus - dove weed
Deinandra fasciculata - clustered tarweed
Dittrichia graveolens - Stinkwort
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Festuca myuros - rattail sixweeks grass
Galium angustifolium - narrowleaf bedstraw
Hypochaeris glabra - smooth cat's ear
Juncus bufonius - toad rush
Lactuca serriola - prickly lettuce
Lythrum hyssopifolia - hyssop loosestrife
Navarretia fossalis - Spreading navarretia
Nuttallanthus texanus - Texas toadflax
Pseudognaphalium californicum - ladies' tobacco
Silene gallica - common catchfly
Sonchus asper - spiny sowthistle
Stephanomeria diegensis - San Diego milk aster

Notes/Comments: None

# Nobel Drive



Photo taken: 5/2/2019 Photo location is -117.19627174900, 32.86648267310 NAD83 State Plane California Zone 6 (feet)

# **Otay Lakes**

Planning Unit: South Land Owner: City of San Diego Managing Department: Public Utilities VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: Yes

# VPHCP Qualitative Monitoring and Management Actions

Ianning Unit:     South     City or Other?     City       aseline Management and Monitoring Level:	Managing Department: Pubic_Utilities VPHCP Required Management and Monitoring Level:	
	vence Required Management and Monitoring Level.	
ualitative Monitoring Data:		
isit Date: 2/13/2019 Start Time: 9:30:00		
urveyors: Cheryl Jenkins, Mark Berninger		
Site Conditions:		
Ponded Water: yes Days Since Last Rain: 1-5	Fairy Shrimp Visible? Present	
Listed Plants Visible? Present Listed Plants:		
<u>New and Ongoing Issues Observed During Visit:</u> Trash:	Tresspass/Unauthorized Use:	
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:	
Invasive Species in Pool: Ongoing	Damage from Edge Effects:	
Invasive Species in Buffer: Ongoing	Hydrological Impacts:	
Other issues observed:		
Are other issues observed is new or ongoing?		
Management Needs: Weedcontrol		
Other Management Needs:		
Additional Management Actions Recommended:		
Notes:		
<b>Start Time:</b> 10:54:00		
<b>Surveyors:</b> Cheryl Jenkins		
Site Conditions:		
Ponded Water: no Days Since Last Rain: >16 Listed Plants Visible? Present Listed Plants:	Fairy Shrimp Visible?	
New and Ongoing Issues Observed During Visit:		
Trash:	Tresspass/Unauthorized Use:	
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:	
Invasive Species in Pool: Ongoing	Damage from Edge Effects:	
Invasive Species in Buffer: Ongoing	Hydrological Impacts:	
Other issues observed:		
Are other issues observed is new or ongoing?		
Management Needs: Weedcontrol, Dethatching		
Other Management Needs:		
Additional Management Actions Recommended: Acco	ess road needs to be graded.	
ear: 2019		
----------------------------	--	---------------------------------------
omplex Name:	City_Otay_Lakes_Reservoir	
' <b>isit Date:</b> 6/10/2	019 Start Time: 13:45:00	
urveyors: Cheryl	Jenkins, Cindy Dunn	
Site Conditions:	<u>:</u>	
Ponded Wa	ater: no Days Since Last Rain: 6-15	Fairy Shrimp Visible?
Listed Plant	ts Visible? Present Listed Plants:	
New and Ongoi	ing Issues Observed During Visit:	
Trash:		Tresspass/Unauthorized Use:
Damage to	Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Sp	ecies in Pool: Ongoing	Damage from Edge Effects:
Invasive Sp	ecies in Buffer: Ongoing	Hydrological Impacts:
Other issue	es observed:	
Are other is	ssues observed is new or ongoing?	
Management N	leeds: Weedcontrol, Dethatching, Other	
	nent Needs: Access road needs to be g	
_	agement Actions Recommended:	
Notes:		

# **Otay Lakes** Management Monitoring Photos



- Photo taken: April 29, 2019
- Photo description: View of vernal pool with weeds along the perimeter. View north
- Photo taken: June 10, 2019
- Photo description: View of upper Otay Lakes vernal pool with weeds within it. View north

Survey Year: 2019		Page 1 of 2	
Complex Name: City_Otay_Lakes_Reservoir		VP_ID: 208	
Photopoint X: -116.91438500000	Photopoint Y: 32.62331100000	Photopoint Established: 2019	
2003 Baseline Survey Data			
Baseline Cover of ERAR: 1.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0		
2019 Quantitative Monitoring Data			
Survey Date 4/29/2019	Survey Start Time: 1:08 PM	Survey End Time: 1:32 PM	
Surveyors: Kayo Valenti and JR Su	ndberg, RECON: Cheryl Jenkins, City		
VPHCP Covered Species Present:	ERAR		
Cover of ERAR in Basin 1-5%	Cover of NAFO in Basin:	Cover of ORCA in Basin	
Cover of POAB in Basin	Cover of PONU in Basin		
Other Native Species in Pool:			
-	s Name	Cover	
Bloomeria clevelandii	- San Diego goldenstar	<1%	
Callitriche marginata - C	alifornia water starwort	<1%	
Castilleja exserta - exse	erted Indian paintbrush	1-5%	
Cressa truxillensis - s	spreading alkaliweed	<1%	
Deinandra fasciculat	a - clustered tarweed	10-25%	
Deschampsia danthoni	oides - annual hairgrass	<1%	
Downingia cuspidata	- Toothed downingia	<1%	
Eleocharis macrostach	ya - common spikerush	<1%	
Hordeum	depressum	<1%	
Isocoma menziesii - Menzies' goldenbush		<1%	
Juncus bufonius - toad rush		<1%	
Phalaris lemmonii - Lemmon's canarygrass		<1%	
Pilularia americana	- American pillwort	<1%	
Plagiobothrys acanthocar	ous - adobe popcornflower	<1%	
Psilocarphus breviss	mus - woolly marble	<1%	
Zeltnera venusta -	charming centaury	<1%	

Cover of Other Native Species in Basin 10-25% Native Species Richness in Basin: 17

#### **Nonnative Species in Pool**

Species Name	Cover
Avena barbata - slender oat	<1%
Bromus hordeaceus - soft brome	<1%
Bromus madritensis - compact brome	<1%
Erodium botrys - longbeak stork's bill	10-25%
Lythrum hyssopifolia - hyssop loosestrife	<1%
Medicago polymorpha - burclover	<1%

Cover of Nonnative Species in Basin: 10-25% Nonnative Species Richness in Basin: 6

Bare Ground Cover in Basin 5-10%

Cover of Rocks/Cobble in Basin: 10-25% Ponded Water Present? no **Cover of Litter in Basin:** <1%

Days Since Last Rain >16

**Dead Species Present in Pool:** Listed all desiccated species from this season

Survey Year: 2019

Complex Name: City\_Otay\_Lakes\_Reservoir

Page 2 of 2

VP\_ID: 208

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Bloomeria clevelandii - San Diego goldenstar
Bromus madritensis - compact brome
Calochortus splendens - splendid mariposa lily
Castilleja exserta - exserted Indian paintbrush
Convolvulus simulans - field bindweed
Cressa truxillensis - spreading alkaliweed
Deinandra fasciculata - clustered tarweed
Erodium botrys - longbeak stork's bill
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Hypochaeris glabra - smooth cat's ear
Isocoma menziesii - Menzies' goldenbush
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Melilotus indica - annual yellow sweetclover
Salvia munzii - Munz's sage
Selaginella cinerascens - mesa spikemoss
Sonchus oleraceus - common sowthistle
Zeltnera venusta - charming centaury

Notes/Comments: Lichen cover less than 1%

# Otay Lakes

Annual Covered Plant Monitoring Photo Vernal Pool ID: 208



Photo taken: April 29, 2019 facing north-northwest Photo location is 32.623311, -116.914385 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019				Page 1 of 2
Complex Name: City_Otay_Lakes_Reservoir			VP_ID: 656	
Photopoint X: -116.916441	00000	Photopoint Y: 32.6241340	00000	Photopoint Established: 2019
2003 Baseline Survey Data				
Baseline Cover of ERAR:	5.0	Baseline Cover of NAFO:	0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB:	0.0	Baseline Cover of PONU:	0.0	
2019 Quantitative Monitor	ing Data			
Survey Date 4/29/2019		Survey Start Time: 12:2	29 PM	Survey End Time: 12:58 PM
Surveyors: Kayo Valenti a	nd JR Sundl	perg, RECON: Cheryl Jenkins,	City	
VPHCP Covered Species P	resent: ERA	٨R		
Cover of ERAR in Basir	า 1-5%	Cover of NAFO in Bas	in:	Cover of ORCA in Basin
Cover of POAB in Basi	n	Cover of PONU in Bas	in	
Other Native Species in Po	ool:			
	Species Na	ame		Cover
l l	Allium sp			<1%
	-	n Diego goldenstar		5-10%
		dwarf brodiaea		<1%
Calochortus sp	lendens - sp	lendid mariposa lily		<1%
Castilleja exser	ta - exserte	d Indian paintbrush		<1%
Chlorogalum par	viflorum - s	mallflower soap plant		<1%
		atic pygmy weed		<1%
Cressa truxil	lensis - spre	ading alkaliweed		<1%
	Cuscuta	•		1-5%
		clustered tarweed		10-25%
		es - annual hairgrass		<1%
	ordeum dep			<1%
		nzies' goldenbush		<1%
Juncus bufonius - toad rush			<1%	
Microseris douglasii ssp. platycarpha - Douglas' silverpuffs			<1%	
Phalaris lemmonii - Lemmon's canarygrass			<1%	
Pilularia americana - American pillwort			<1%	
Plagiobothrys acanthocarpus - adobe popcornflower			<1%	
Psilocarphus brevissimus - woolly marble Psilocarphus tenellus - short woollyheads			<1%	
		-		<1%
		tern blue-eyed grass		<1%
		e needlegrass		<1%
Zeltnera ve	enusta - cha	rming centaury		<1%

Cover of Other Native Species in Basin 25-50% Native Species Richness in Basin: 24

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus hordeaceus - soft brome	1-5%
Bromus madritensis - compact brome	<1%
Erodium botrys - longbeak stork's bill	10-25%
Hypochaeris glabra - smooth cat's ear	<1%
Lysimachia arvensis - scarlet pimpernel	<1%
Lythrum hyssopifolia - hyssop loosestrife	<1%

**Cover of Nonnative Species in Basin:** 10-25%

Nonnative Species Richness in Basin: 6

Bare Ground Cover in Basin 5-10% Cover of Rocks/Cobble in Basin: 1-5% Cover of Litter in Basin: <1%

**Days Since Last Rain** >16

Ponded Water Present? no

Dead Species Present in Pool: Listed any dying or desiccated species from this season

Survey Year: 2019

Complex Name: City\_Otay\_Lakes\_Reservoir

Page 2 of 2

VP\_ID: 656

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon glaber - deerweed
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Calochortus splendens - splendid mariposa lily
Castilleja exserta - exserted Indian paintbrush
Crassula connata - sand pygmyweed
Cressa truxillensis - spreading alkaliweed
Cuscuta sp.
Deinandra fasciculata - clustered tarweed
Dichelostemma capitatum - bluedicks
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Hordeum depressum - Alkali barley
Hypochaeris glabra - smooth cat's ear
Isocoma menziesii - Menzies' goldenbush
Lepidium nitidum - shining pepperweed
Logfia filaginoides - California cottonrose
Logfia gallica - narrowleaf cottonrose
Microseris douglasii ssp. platycarpha - Douglas' silverpuffs
Plantago erecta - California plantain
Sisyrinchium bellum - Western blue-eyed grass
Stipa pulchra - purple needlegrass

Notes/Comments: Lichen/moss present is less than 1%

# **Otay Lakes**

Annual Covered Plant Monitoring Photo Vernal Pool ID: 656



Photo taken: April 29, 2019 facing south-southeast Photo location is 32.624134, -116.916441 NAD83 State Plane California Zone 6 (feet)

urvey Year: 2019			Page 1 of 2
Complex Name: City_Otay_Lakes_Reservoir		<b>VP_ID</b> : 891	
hotopoint X: -116.91983000000	Photopoint Y: 32.6228140	0000	Photopoint Established: 2019
003 Baseline Survey Data			
Baseline Cover of ERAR: 20.0	Baseline Cover of NAFO:	0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU:	0.0	
019 Quantitative Monitoring Data			
Survey Date 4/29/2019	Survey Start Time: 10:5	4 AM	Survey End Time: 11:33 AM
Surveyors: Kayo Valenti and JR Su	ndberg, RECON: Cheryl Jenkins,	City	
VPHCP Covered Species Present:	ERAR		
Cover of ERAR in Basin 5-10%	Cover of NAFO in Ba	sin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basi	n	
Other Native Species in Pool:			
-	Name		Cover
Allium st			1-5%
	ides - desertbroom		<1%
Bloomeria clevelandii	- San Diego goldenstar		<1%
	s - dwarf brodiaea		<1%
Castilleja exserta - exse	rted Indian paintbrush		<1%
Chlorogalum parviflorum	- smallflower soap plant		<1%
Crassula connata	sand pygmyweed		<1%
Deinandra fasciculat	a - clustered tarweed		5-10%
Deschampsia danthoni	oides - annual hairgrass		<1%
Eleocharis macrostach	ya - common spikerush		<1%
Eriogonum fasciculatum -	astern Mojave buckwheat		<1%
Juncus bufoni	us - toad rush		<1%
Lasthenia gracilis	needle goldfields		5-10%
Lysimachia minima - chaffweed			<1%
Muilla maritima - sea muilla			<1%
Phalaris lemmonii - Lemmon's canarygrass			<1%
Pilularia americana - American pillwort			<1%
Plantago erecta - California plantain			1-5%
Psilocarphus breviss	mus - woolly marble		<1%
Psilocarphus tenellu	s - short woollyheads		<1%
Stipa pulchra - pi	Irple needlegrass		<1%
Trichostema lanceo	atum - vinegarweed		<1%
Zeltnera venusta -	charming centaury		<1%

Cover of Other Native Species in Basin 10-25% Native Species Richness in Basin: 24

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Erodium botrys - longbeak stork's bill	1-5%
Festuca myuros - rattail sixweeks grass	<1%
Hypochaeris glabra - smooth cat's ear	<1%
Lythrum hyssopifolia - hyssop loosestrife	<1%

Cover of Nonnative Species in Basin: 1-5% Non

Nonnative Species Richness in Basin: 5

Bare Ground Cover in Basin 1-5%Cover of Rocks/Cobble in Basin: 10-25%

**Days Since Last Rain** >16

Ponded Water Present? no

**Cover of Litter in Basin:** <1%

Page 332

Dead Species Present in Pool: Listed all species observed even if dying or desiccated

Survey Year: 2019

Complex Name: City\_Otay\_Lakes\_Reservoir

Page 2 of 2

VP\_ID: 891

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon glaber - deerweed
Baccharis sarothroides - desertbroom
Bloomeria clevelandii - San Diego goldenstar
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Calochortus splendens - splendid mariposa lily
Castilleja exserta - exserted Indian paintbrush
Crassula connata - sand pygmyweed
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Deschampsia danthonioides - annual hairgrass
Dichelostemma capitatum - bluedicks
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Gastridium phleoides - nit grass
Hypochaeris glabra - smooth cat's ear
Isocoma menziesii - Menzies' goldenbush
Lasthenia gracilis - needle goldfields
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Plagiobothrys collinus - popcorn flower
Stipa pulchra - purple needlegrass
Zeltnera venusta - charming centaury

**Notes/Comments:** Lichen & moss cover = 50%. Did not put toward bare ground cover

# Otay Lakes

Annual Covered Plant Monitoring Photo Vernal Pool ID: 891



Photo taken: April 29, 2019 facing west Photo location is 32.622814, -116.919830 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Otay_Lakes_F	Reservoir	VP_ID: 892
Photopoint X: -116.91968500000	Photopoint Y: 32.62292600000	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 1.0	Baseline Cover of NAFO: 1.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 4/29/2019	Survey Start Time: 11:41 AM	Survey End Time: 12:17 PM
Surveyors: Kayo Valenti and JR Sun	dberg, RECON: Cheryl Jenkins, City	
VPHCP Covered Species Present: N	AFO,ERAR	
Cover of ERAR in Basin 5-10%	Cover of NAFO in Basin: <1%	6 Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Species	Name	Cover
Allium sp.		1-5%
Brodiaea terrestris		<1%
Callitriche marginata - Ca	lifornia water starwort	<1%
Castilleja exserta - exser		1-5%
Deinandra fasciculata	- clustered tarweed	10-25%
Deschampsia danthonio	ides - annual hairgrass	1-5%
Elatine brac	hysprema	<1%
Eleocharis macrostachy	a - common spikerush	1-5%
Hordeum d	epressum	<1%
Juncus bufonius - toad rush		1-5%
Lasthenia gracilis - needle goldfields		<1%
Lepidium nitidum - shining pepperweed		<1%
Lysimachia minir		<1%
Phalaris lemmonii - Le		<1%
Pilularia americana -	American pillwort	1-5%
Psilocarphus brevissir	-	5-10%
Zeltnera venusta - c	harming centaury	<1%

Cover of Other Native Species in Basin 25-50% Native Species Richness in Basin: 18

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Festuca myuros - rattail sixweeks grass	<1%
Gastridium phleoides - nit grass	<1%
Lythrum hyssopifolia - hyssop loosestrife	<1%

Cover of Nonnative Species in Basin: <1% Nonnative Species Richness in Basin: 4

Dead Species Present in Pool: Listed all desiccated or dying species from this season

Bare Ground Cover in Basin 1-5%	Cover of Rocks/Cobble in Basin: 1-5%
---------------------------------	--------------------------------------

Days Since Last Rain >16

Ponded Water Present? no

Cover of Litter in Basin: <1%

Survey Year: 2019

Complex Name: City\_Otay\_Lakes\_Reservoir

Page 2 of 2

VP\_ID: 892

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon glaber - deerweed
Artemisia californica - coastal sagebrush
Baccharis sarothroides - desertbroom
Bloomeria clevelandii - San Diego goldenstar
Brodiaea terrestris - dwarf brodiaea
Bromus madritensis - compact brome
Calochortus splendens - splendid mariposa lily
Castilleja exserta - exserted Indian paintbrush
Chlorogalum parviflorum - smallflower soap plant
Crassula connata - sand pygmyweed
Deinandra fasciculata - clustered tarweed
Dichelostemma capitatum - bluedicks
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Hordeum depressum - Alkali barley
Hypochaeris glabra - smooth cat's ear
Isocoma menziesii - Menzies' goldenbush
Lamarckia aurea - goldentop grass
Lasthenia gracilis - needle goldfields
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Selaginella cinerascens - mesa spikemoss
Sonchus oleraceus - common sowthistle
Trichostema lanatum - woolly bluecurls
Zeltnera venusta - charming centaury

Notes/Comments:

# Otay Lakes

Annual Covered Plant Monitoring Photo Vernal Pool ID: 892



Photo taken: April 29, 2019 facing north-northwest Photo location is 32.622926, -116.919685 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2	
Complex Name: City_Otay_Lakes_Reservoir		VP_ID: 1801	
Photopoint X: -116.91165700000	Photopoint Y: 32.62422700000	Photopoint Established: 2019	
2003 Baseline Survey Data			
Baseline Cover of ERAR: 0.5	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0		
2019 Quantitative Monitoring Data	a		
Survey Date 4/29/2019	Survey Start Time: 1:42 PM	Survey End Time: 1:59 PM	
Surveyors: Kayo Valenti and JR Su	undberg, RECON: Cheryl Jenkins, City		
VPHCP Covered Species Present:	ERAR		
Cover of ERAR in Basin <1%	Cover of NAFO in Basin:	Cover of ORCA in Basin	
Cover of POAB in Basin Cover of PONU in Basin			
Other Native Species in Pool:			
Specie	s Name	Cover	
Baccharis sarothro	oides - desertbroom	<1%	
Brodiaea terrestris - dwarf brodiaea		<1%	
Deinandra fasciculata - clustered tarweed		10-25%	
Deschampsia danthon	ioides - annual hairgrass	<1%	
Eriogonum fasciculatum - Eastern Mojave buckwheat		<1%	
Juncus bufon	ius - toad rush	5-10%	
Lysimachia min	ima - chaffweed	<1%	
Pilularia americana	- American pillwort	<1%	
Psilocarphus breviss	imus - woolly marble	<1%	
Sisyrinchium bellum - \	Western blue-eyed grass	1-5%	

#### **Cover of Other Native Species in Basin** 25-50% Native Species Richness in Basin: 10

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Bromus madritensis - compact brome	<1%
Erodium botrys - longbeak stork's bill	10-25%
Festuca myuros - rattail sixweeks grass	<1%
Hypochaeris glabra - smooth cat's ear	<1%
Lythrum hyssopifolia - hyssop loosestrife	<1%
Polypogon monspeliensis - annual rabbitsfoot grass	<1%
Silene gallica - common catchfly	<1%

**Cover of Nonnative Species in Basin:** 10-25% Nonnative Species Richness in Basin: 8

**Bare Ground Cover in Basin** 1-5% **Cover of Rocks/Cobble in Basin:** 1-5%

**Days Since Last Rain** >16

Ponded Water Present? no

**Cover of Litter in Basin:** 1-5%

Dead Species Present in Pool: Listed all desiccated species from this season

Survey Year: 2019

Complex Name: City\_Otay\_Lakes\_Reservoir

Page 2 of 2

VP\_ID: 1801

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon glaber - deerweed
Adenostoma fasciculatum - chamise
Antirrhinum nuttallianum - Nuttall's snapdragon
Avena barbata - slender oat
Baccharis sarothroides - desertbroom
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Crassula connata - sand pygmyweed
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Festuca myuros - rattail sixweeks grass
Galium aparine - common bedstraw
Hypochaeris glabra - smooth cat's ear
Isocoma menziesii - Menzies' goldenbush
Juncus bufonius - toad rush
Logfia gallica - narrowleaf cottonrose
Lythrum hyssopifolia - hyssop loosestrife
Navarretia hamata - hooked pincushionplant
Polypogon monspeliensis - annual rabbitsfoot grass
Psilocarphus brevissimus - woolly marble
Silene gallica - common catchfly
Zeltnera venusta - charming centaury

Notes/Comments:

# **Otay Lakes**

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1801



Photo taken: April 29, 2019 facing south-southeast Photo location is 32.624227, -116.911657 NAD83 State Plane California Zone 6 (feet)

Planning Unit: Central Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: No

anning Unit: Central City or Other? City	Managing Department: Park_Recreation
aseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
ualitative Monitoring Data:	
/isit Date: 2/4/2019   Start Time: 23:30:00	
Surveyors: Jason Allen	
Site Conditions: Ponded Water: yes Days Since Last Rain:	1-5 Fairy Shrimp Visible? Absent
Listed Plants Visible? Absent Listed Pl	lants:
New and Ongoing Issues Observed During Visit:	- 6
Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing	
ularpatrolsrecommended	ld_replace_lock,Add_replace_chain,Sign_install,Trash_pickup,Reg
Other Management Needs:	
Additional Management Actions Recommended:	
Additional Management Actions Recommended: Notes: Cactus in pools, glebionsis, toc thistle, fem	
Notes: Cactus in pools, glebionsis, toc thistle, fen Visit Date: 3/27/2019 Start Time: 23:30:00	
Notes: Cactus in pools, glebionsis, toc thistle, fem Visit Date: 3/27/2019 Start Time: 23:30:00 Surveyors: Jason Allen	
Notes: Cactus in pools, glebionsis, toc thistle, fem Visit Date: 3/27/2019 Start Time: 23:30:00 Surveyors: Jason Allen Site Conditions:	nel, fountain grass present
Notes: Cactus in pools, glebionsis, toc thistle, fem   Visit Date: 3/27/2019 Start Time: 23:30:00   Surveyors: Jason Allen   Site Conditions: Ponded Water: no Days Since Last Rain:	nel, fountain grass present 6-15 Fairy Shrimp Visible?
Notes: Cactus in pools, glebionsis, toc thistle, fem   Visit Date: 3/27/2019 Start Time: 23:30:00   Surveyors: Jason Allen   Site Conditions:   Ponded Water: no Days Since Last Rain:   Listed Plants Visible? Absent Listed Plants	nel, fountain grass present 6-15 Fairy Shrimp Visible?
Notes: Cactus in pools, glebionsis, toc thistle, fem   /isit Date: 3/27/2019 Start Time: 23:30:00   Surveyors: Jason Allen   Site Conditions: Ponded Water: no Days Since Last Rain:	nel, fountain grass present 6-15 Fairy Shrimp Visible?
Notes: Cactus in pools, glebionsis, toc thistle, fem   Visit Date: 3/27/2019 Start Time: 23:30:00   Surveyors: Jason Allen   Site Conditions:   Ponded Water: no Days Since Last Rain:   Listed Plants Visible? Absent Listed Pl   New and Ongoing Issues Observed During Visit:	nel, fountain grass present 6-15 Fairy Shrimp Visible? lants:
Notes: Cactus in pools, glebionsis, toc thistle, fem Visit Date: 3/27/2019 Start Time: 23:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Absent Listed Pl New and Ongoing Issues Observed During Visit: Trash: Ongoing	nel, fountain grass present 6-15 Fairy Shrimp Visible? lants: Tresspass/Unauthorized Use: Ongoing
Notes: Cactus in pools, glebionsis, toc thistle, fem Visit Date: 3/27/2019 Start Time: 23:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Absent Listed Pl New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs:	nel, fountain grass present 6-15 Fairy Shrimp Visible? lants: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression:
Notes: Cactus in pools, glebionsis, toc thistle, fem /isit Date: 3/27/2019 Start Time: 23:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Absent Listed Pl New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing	6-15 Fairy Shrimp Visible?   lants: Tresspass/Unauthorized Use: Ongoing   Fire or Damage from Fire Suppression: Damage from Edge Effects:
Notes: Cactus in pools, glebionsis, toc thistle, fem Visit Date: 3/27/2019 Start Time: 23:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Absent Listed Pl New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing	6-15 Fairy Shrimp Visible? lants: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Notes: Cactus in pools, glebionsis, toc thistle, fem Visit Date: 3/27/2019 Start Time: 23:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Absent Listed Pl New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing	6-15 Fairy Shrimp Visible? lants: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Notes: Cactus in pools, glebionsis, toc thistle, fem Visit Date: 3/27/2019 Start Time: 23:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Absent Listed Pl New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing Management Needs: Weedcontrol,RestReveg,Fe	6-15 Fairy Shrimp Visible? lants: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Notes: Cactus in pools, glebionsis, toc thistle, fem Visit Date: 3/27/2019 Start Time: 23:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Absent Listed Pl New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing Management Needs: Weedcontrol,RestReveg,Fen Isrecommended	nel, fountain grass present 6-15 Fairy Shrimp Visible? lants: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: ? nce_install,Sign_install,Dump_cleanup,Trash_pickup,Regularpatro

Year: 2019	
Complex Name: City_Pasatiempo	
Visit Date: 5/20/2019 Start Time: 1:30:00	
Surveyors: Jason Allen	
Site Conditions	
Site Conditions: Ponded Water: no Days Since Last Rain: 1-1	5 Fairy Shrimp Visible?
Listed Plants Visible? Absent Listed Plan	
New and Ongoing Issues Observed During Visit:	
Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol,RestReveg,Sign_ mmended	_install,Fence_install,Grading_recontouring,Regularpatrolsreco
Other Management Needs:	
Additional Management Actions Recommended: C	Continue weed control.
Notes: Dit gra seedlings popping up. Foe vul ready	to treat.
Management Actions Completed:	
Date: 4/10/2019 Completed by: Jason Allen	
Contractor (if applicable)	
Management Actions Completed: Weed whack inva	sive species
Notes/Comments:	
Date: 4/12/2019 Completed by: Jason Allen	
Contractor (if applicable)	
Management Actions Completed: Herbicide application	tion to invasive species and weed whack.
Notes/Comments:	
Date: 6/4/2019 Completed by: Scott Seyfried	
Contractor (if applicable)	
Management Actions Completed: Herbicide applica	tion to invasive species.
Notes/Comments:	
Notes, comments.	
Date: 6/5/2019 Completed by: Jason Allen	
Contractor (if applicable) Aztec Landscaping	
Contractor (if applicable) Aztec Landscaping	k invasive species. Herbicide application to invasive species.
Contractor (if applicable) Aztec Landscaping	k invasive species. Herbicide application to invasive species.

#### **Qualitative Management Monitoring Photos**



- Photo taken: 2/4/2019
- Photo description: Dead native plants in vernal pool.



- Photo taken: 5/20/2019
- Photo description: Dead native plants in vernal pool weed whacked and removed.

#### **Qualitative Management Monitoring Photos**



- Photo taken: 4/10/2019
- Photo description: Invasive plant Crown daisy (*Glebionis coronaria*) encroaching on vernal pool edge.



- Photo taken: 4/10/2019
- Photo description: Invasive plant Crown daisy (*Glebionis coronaria*) weed whacked to extend vernal pool buffer.

#### **Qualitative Management Monitoring Photos**



- Photo taken: 4/26/2019
- Photo description: Invasive plant Crown daisy (*Glebionis coronaria*) taking over vernal pool complex.
- Photo taken: 6/5/2019
- Photo description: Invasive plant Crown daisy (*Glebionis coronaria*) weed whacked and removed.

# **Proctor Valley Planning Unit: South** Land Owner: City of San Diego **Managing Department: Public Utilities VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: No**

Planning Unit: South City or Other? City	Managing Department: Pubic_Utilities
Baseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
ualitative Monitoring Data:	
<b>Visit Date:</b> 1/28/2019 <b>Start Time:</b> 6:30:00	
Surveyors: Cheryl Jenkins	
Site Conditions: Ponded Water: yes Days Since Last Rain: 6-15	<b>Fairy Shrimp Visible?</b> Present
Listed Plants Visible? Wrong_Tim Listed Plants	:
New and Ongoing Issues Observed During Visit:	Transmost / Unoutboxized Lize
Trash: Damage to Fences and/or Signs: Ongoing	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression:
Invasive Species in Pool:	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	,
Are other issues observed is new or ongoing? Management Needs:	
Other Management Needs:	
Other Management Needs: Additional Management Actions Recommended: Res	storation projects proposed for pools east of road; ongoing
Additional Management Actions Recommended: Res	storation projects proposed for pools east of road; ongoing st of road. David Hogan
Additional Management Actions Recommended: Res we	
Additional Management Actions Recommended: Res we Notes: Spade foot tadpoles obs in multiple pools; net	st of road. David Hogan
Additional Management Actions Recommended: Res we	st of road. David Hogan
Additional Management Actions Recommended:ResNotes:Spade foot tadpoles obs in multiple pools; netVisit Date:4/2/2019Start Time:15:45:00	st of road. David Hogan
Additional Management Actions Recommended: Res we Notes: Spade foot tadpoles obs in multiple pools; net Visit Date: 4/2/2019 Start Time: 15:45:00 Surveyors: Cheryl Jenkins Site Conditions:	st of road. David Hogan algae observed in one pool; B. Lindahli present in some pools
Additional Management Actions Recommended: Res wei Notes: Spade foot tadpoles obs in multiple pools; net Visit Date: 4/2/2019 Start Time: 15:45:00 Surveyors: Cheryl Jenkins Site Conditions: Ponded Water: yes Days Since Last Rain: >16	st of road. David Hogan algae observed in one pool; B. Lindahli present in some pools <b>Fairy Shrimp Visible?</b> Absent
Additional Management Actions Recommended: Res we Notes: Spade foot tadpoles obs in multiple pools; net /isit Date: 4/2/2019 Start Time: 15:45:00 Surveyors: Cheryl Jenkins Site Conditions: Ponded Water: yes Days Since Last Rain: >16 Listed Plants Visible? Present Listed Plants	st of road. David Hogan algae observed in one pool; B. Lindahli present in some pools <b>Fairy Shrimp Visible?</b> Absent
Additional Management Actions Recommended: Res wei Notes: Spade foot tadpoles obs in multiple pools; net /isit Date: 4/2/2019 Start Time: 15:45:00 Surveyors: Cheryl Jenkins Site Conditions: Ponded Water: yes Days Since Last Rain: >16	st of road. David Hogan algae observed in one pool; B. Lindahli present in some pools <b>Fairy Shrimp Visible?</b> Absent
Additional Management Actions Recommended: Res we Notes: Spade foot tadpoles obs in multiple pools; net Visit Date: 4/2/2019 Start Time: 15:45:00 Surveyors: Cheryl Jenkins Site Conditions: Ponded Water: yes Days Since Last Rain: >16 Listed Plants Visible? Present Listed Plants New and Ongoing Issues Observed During Visit:	st of road. David Hogan algae observed in one pool; B. Lindahli present in some pools <b>Fairy Shrimp Visible?</b> Absent
Additional Management Actions Recommended: Res wei Notes: Spade foot tadpoles obs in multiple pools; net Visit Date: 4/2/2019 Start Time: 15:45:00 Surveyors: Cheryl Jenkins Site Conditions: Ponded Water: yes Days Since Last Rain: >16 Listed Plants Visible? Present Listed Plants New and Ongoing Issues Observed During Visit: Trash:	st of road. David Hogan algae observed in one pool; B. Lindahli present in some pools Fairy Shrimp Visible? Absent Tresspass/Unauthorized Use:
Additional Management Actions Recommended: Res we Notes: Spade foot tadpoles obs in multiple pools; net /isit Date: 4/2/2019 Start Time: 15:45:00 Surveyors: Cheryl Jenkins <u>Site Conditions:</u> Ponded Water: yes Days Since Last Rain: >16 Listed Plants Visible? Present Listed Plants <u>New and Ongoing Issues Observed During Visit:</u> Trash: Damage to Fences and/or Signs:	st of road. David Hogan algae observed in one pool; B. Lindahli present in some pools Fairy Shrimp Visible? Absent Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression:
Additional Management Actions Recommended: Res wer Notes: Spade foot tadpoles obs in multiple pools; net /isit Date: 4/2/2019 Start Time: 15:45:00 Surveyors: Cheryl Jenkins Site Conditions: Ponded Water: yes Days Since Last Rain: >16 Listed Plants Visible? Present Listed Plants New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing	st of road. David Hogan algae observed in one pool; B. Lindahli present in some pools Fairy Shrimp Visible? Absent Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
Additional Management Actions Recommended: Res we Notes: Spade foot tadpoles obs in multiple pools; net /isit Date: 4/2/2019 Start Time: 15:45:00 Surveyors: Cheryl Jenkins Site Conditions: Ponded Water: yes Days Since Last Rain: >16 Listed Plants Visible? Present Listed Plants New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing	st of road. David Hogan algae observed in one pool; B. Lindahli present in some pools Fairy Shrimp Visible? Absent Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
Additional Management Actions Recommended: Res we Notes: Spade foot tadpoles obs in multiple pools; net /isit Date: 4/2/2019 Start Time: 15:45:00 Surveyors: Cheryl Jenkins <u>Site Conditions:</u> Ponded Water: yes Days Since Last Rain: >16 Listed Plants Visible? Present Listed Plants <u>New and Ongoing Issues Observed During Visit:</u> Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed:	st of road. David Hogan algae observed in one pool; B. Lindahli present in some pool: Fairy Shrimp Visible? Absent Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
Additional Management Actions Recommended: Res we Notes: Spade foot tadpoles obs in multiple pools; net Visit Date: 4/2/2019 Start Time: 15:45:00 Surveyors: Cheryl Jenkins Site Conditions: Ponded Water: yes Days Since Last Rain: >16 Listed Plants Visible? Present Listed Plants New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing?	st of road. David Hogan algae observed in one pool; B. Lindahli present in some pool: Fairy Shrimp Visible? Absent Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
Additional Management Actions Recommended: Res we Notes: Spade foot tadpoles obs in multiple pools; net Visit Date: 4/2/2019 Start Time: 15:45:00 Surveyors: Cheryl Jenkins <u>Site Conditions:</u> Ponded Water: yes Days Since Last Rain: >16 Listed Plants Visible? Present Listed Plants <u>New and Ongoing Issues Observed During Visit:</u> Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,Dethatching Other Management Needs: Additional Management Actions Recommended: Por	st of road. David Hogan algae observed in one pool; B. Lindahli present in some pools Fairy Shrimp Visible? Absent Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:

<b>Start Time:</b> 7:30:00	
Surveyors: Cheryl Jenkins	
Site Conditions: Ponded Water: no Days Since Last Rain: 1-5	, ,
Listed Plants Visible? Present Listed Plants	S:
New and Ongoing Issues Observed During Visit: Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs: Ongoing	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol, Dethatching, Sign	_replacement
Other Management Needs:	
-	storation efforts scheduled for pools east of the road. Button lery observed in restored pools west of the road.
Notes:	

# **Proctor Valley** Management Monitoring Photos



- Photo taken: January 28, 2019
- Photo description: Non-native net algae growing in one of the vernal pools at Proctor Valley.



- Photo taken: April 2, 2019
- Photo description: View of road-rut pool with weeds surrounding it. View west.

# **Pueblo Lands**

Planning Unit: North Land Owner: City of San Diego Managing Department: Public Utilities VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: No

Year: 2019	
Complex Name: City_Pueblo_Lands_N_and_S	
Planning Unit: North City or Other? City	Managing Department: Pubic_Utilities
Baseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
Qualitative Monitoring Data:	
Visit Date: 1/25/2018 Start Time: 5:30:00	
Surveyors: Cheryl Jenkins	
Site Conditions:Ponded Water: noDays Since Last Rain: 6-15Listed Plants Visible? AbsentListed Plants:New and Ongoing Issues Observed During Visit:Trash:Damage to Fences and/or Signs:Invasive Species in Pool: OngoingInvasive Species in Buffer: OngoingOther issues observed:Are other issues observed is new or ongoing?Management Needs:Management Needs:Additional Management Actions Recommended:Notes:Carpet of erodium starting to grow through out	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Visit Date: 4/17/2019 Start Time: 9:30:00 Surveyors: Cheryl Jenkins	
Site Conditions:   Ponded Water: no Days Since Last Rain: >16   Listed Plants Visible? Absent Listed Plants:   New and Ongoing Issues Observed During Visit: Trash:   Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing   Invasive Species in Buffer: Ongoing Other issues observed:   Are other issues observed is new or ongoing?   Management Needs: Weedcontrol   Other Management Actions Recommended:   Notes: Psilocarphus brevissimus, Navarretia hamata, C bicolor, Stylocline gnaphaloides, Cardionema rate	Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: astilleja exserta, Muilla maritima, Crassula aquatica, Lupinus

'ear: 2019		
Complex Name:	City_Pueblo_Lands_N_and_S	
/isit Date: 5/31/2	019 Start Time: 13:00:00	
urveyors: Cheryl	Jenkins	
Site Conditions:	1	
Ponded Wa	<b>Days Since Last Rain:</b> 6-15	Fairy Shrimp Visible?
Listed Plant	ts Visible? Absent Listed Plants:	
	ng Issues Observed During Visit:	
Trash:		Tresspass/Unauthorized Use:
Damage to	Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Sp	ecies in Pool: Ongoing	Damage from Edge Effects:
Invasive Sp	ecies in Buffer: Ongoing	Hydrological Impacts:
Other issue	es observed:	
Are other is	ssues observed is new or ongoing?	
Management N	eeds: Weedcontrol, Dethatching	
Other Managen	nent Needs:	
Additional Man	agement Actions Recommended:	
Notes:		

# **Pueblo South** Management Monitoring Photos



- Photo taken: January 25, 2019
- Photo description: Carpet of erodium surrounding vernal pools. View east.



- Photo taken: April 17, 2019
- Photo description: non-native grasses and erodium in and around vernal pool. View west.

# **Robinhood Ridge**

Planning Unit: South Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: Yes

Complex Name: City_Robinhood_Ridge	
Planning Unit: South City or Other? City	Managing Department: Park_Recreation
Baseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
ualitative Monitoring Data:	
/isit Date:   1/17/2019   Start Time:   17:30:00	
Surveyors: Jason Allen, Jessie Lane, Doug Allen	
Site Conditions: Ponded Water: no Days Since Last Rain: 1-5	Fairy Shrimp Visible?
Listed Plants Visible? Present Listed Plants:	
New and Ongoing Issues Observed During Visit:	
Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol,Sign_install,Trash_ replace_chain,Sign_replacement	pickup,Regularpatrolsrecommended,Add_replace_lock,Add_ :
Other Management Needs:	
Additional Management Actions Recommended:	
Notes: Ice plant, mustard, erodium.	
Visit Date: 3/4/2019   Start Time: 9:30:00	
Surveyors: Jason Allen	
Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5	Fairy Shrimp Visible? Present
Listed Plants Visible? Present Listed Plants:	
New and Ongoing Issues Observed During Visit:	
Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol,Regularpatrolsrecc replace_chain	ommended,Trash_pickup,Sign_install,Add_replace_lock,Add_
Other Management Needs:	
Additional Management Actions Recommended: Mon	re weed control soon.
Notes: Add signs to swing gates and locks and chains.	

	mig and Management Actions
Year: 2019	
Complex Name: City_Robinhood_Ridge	
Visit Date: 5/30/2019 Start Time: 4:30:00	
Surveyors: Jason Allen	
Site Conditions: Ponded Water: no Days Since Last Rain: 1-5	Fairs Chrimen Visible?
Ponded Water: no Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants:	Fairy Shrimp Visible?
New and Ongoing Issues Observed During Visit: Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	,
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol,Regularpatrolsrecc	mmended
Other Management Needs:	
Additional Management Actions Recommended: Spra	yed weeds today ice plant, daisy, toc thistle.
<b>Notes:</b> More invasive plants to be sprayed.	
Visit Date: 7/10/2019 Start Time: 18:30:00	
Surveyors: Jason Allen, Diana Brand Ramirez, Jessie Lane	
Site Conditions: Ponded Water: no Days Since Last Rain: >16	Fairy Shrimp Visible?
Listed Plants Visible? Present Listed Plants:	
New and Ongoing Issues Observed During Visit:	
Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol, Dethatching, RestR	eveg,Trash_pickup,Regularpatrolsrecommended,Sign_install
Other Management Needs:	
Additional Management Actions Recommended: Wee	ed control, ice plant.
Notes: West pools no maintenance done yet. Needs weed whacking.	

VFICE Qualitative Monitoring and Management Actions
Year: 2019
Complex Name: City_Robinhood_Ridge
Management Actions Completed:
Date: 10/2/2018 Completed by: Jason Allen
Contractor (if applicable)
Management Actions Completed: Trash and debris cleaned up.
Notes/Comments:
Date: 11/16/2018 Completed by: Jason Allen, Diana Brand Ramirez, Jessie Lane
Contractor (if applicable)
Management Actions Completed: Trash and debris cleaned up.
Notes/Comments:
Date: 12/4/2018 Completed by: Araceli Dominguez
Contractor (if applicable) Management Actions Completed: Trash and debris cleaned up.
Notes/Comments:
Date: 2/8/2019 Completed by: Jason Allen, Scott Seyfried
Contractor (if applicable) Management Actions Completed: Herbicide application to invasive species.
Notes/Comments:
Date: 2/19/2019 Completed by: Jason Allen, Scott Seyfried, Moises Vasquez Contractor (if applicable)
Management Actions Completed: Herbicide application to invasive species.
Notes/Comments:
Notes, comments.
Date: 3/1/2019 Completed by: Scott Seyfried
Contractor (if applicable) Management Actions Completed: Herbicide application to invasive species.
Notes/Comments:
Date: 4/22/2019 Completed by: Scott Seyfried
Contractor (if applicable)
Management Actions Completed: Herbicide application to invasive species.
Notes/Comments:

# Robinhood Ridge

#### **Qualitative Management Monitoring Photos**



- Photo taken: 9/21/2018
- Photo description: Trash/debris onsite.



- Photo taken: 9/21/2018
- Photo description: Section of fence missing.
**Qualitative Management Monitoring Photos** 

These photos represent issues noted during qualitative management monitoring surveys. These issues are currently being addressed by City staff.



- Photo taken: 11/16/2018
- Photo description: Trash/debris onsite.



- Photo taken: 2/3/2019
- Photo description: Missing fence repaired and replaced.

## **Qualitative Management Monitoring Photos**

These photos represent issues noted during qualitative management monitoring surveys. These issues are currently being addressed by City staff.



- Photo taken: 2/19/2019
- Photo description: Invasive plants Ward's Weed (*Carrichtera annua*) present in vernal pools and surrounding buffer.



- Photo taken: 2/19/2019
- Photo description: Trash/debris onsite. Invasive plants present in vernal pools and surrounding buffer.

## **Qualitative Management Monitoring Photos**

These photos represent issues noted during qualitative management monitoring surveys. These issues are currently being addressed by City staff.



- Photo taken: 5/30/2019
- Photo description: Herbicide application to invasive plants in vernal pool complex.



- Photo taken: 5/30/2019
- Photo description: Invasive plants Ward's Weed (*Carrichtera annua*) present in vernal pools and surrounding buffer after herbicide application.

urvey Year: 2019		Page 1 of 2
omplex Name: City_Robinhood_	Ridge	VP_ID: 1577
hotopoint X: -117.01028594019	Photopoint Y: 32.58136973009	Photopoint Established: 2019
003 Baseline Survey Data		
Baseline Cover of ERAR: 20.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
019 Quantitative Monitoring Data	a	
Survey Date 7/10/2019	Survey Start Time: 2:17 PM	Survey End Time: 2:38 PM
Surveyors: Jason Allen, Diana Bra	nd Ramirez, Jessie Lane	
VPHCP Covered Species Present:		
Cover of ERAR in Basin	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Specie	s Name	Cover
Deinandra fasciculata - clustered tarweed		10-25%
	Menzies' goldenbush	<1%
Isocoma menziesii - Cover of Other Native Species in I <u>Nonnative Species in Pool</u>	Basin 10-25% Native Species Richn	
Isocoma menziesii - Cover of Other Native Species in I <u>Nonnative Species in Pool</u> Species		ness in Basin: 2
Isocoma menziesii - Cover of Other Native Species in I <u>Nonnative Species in Pool</u> Species Brassica nigra -	Basin 10-25% Native Species Richn	ess in Basin: 2 Cover
Isocoma menziesii - Cover of Other Native Species in I <u>Nonnative Species in Pool</u> Species Brassica nigra - Centaurea melitensis	Basin 10-25% Native Species Richn s Name - black mustard	Cover 5-10%
Isocoma menziesii - Cover of Other Native Species in I <u>Nonnative Species in Pool</u> Species Brassica nigra - Centaurea melitensis Glebionis corona Helminthotheca echio	Basin 10-25% Native Species Richness s Name - black mustard s - Maltese star-thistle aria - crown daisy oides - bristly oxtongue	Cover 5-10% 1-5%
Isocoma menziesii - Cover of Other Native Species in I <u>Nonnative Species in Pool</u> Species Brassica nigra - Centaurea melitensis Glebionis corona Helminthotheca echio Matricaria discoide	Basin 10-25% Native Species Richness s Name - black mustard s - Maltese star-thistle aria - crown daisy	Cover 5-10% 1-5% 1-5%

Days Since Last Rain >16

Ponded Water Present? no

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1577

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Brassica nigra - black mustard
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Croton setigerus - dove weed
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Eleocharis macrostachya - common spikerush
Epilobium campestre - Smooth boisduvalia
Erodium sp stork's bill
Glebionis coronaria - crown daisy
Helminthotheca echioides - bristly oxtongue
Hesperoyucca whipplei - chaparral yucca
Isocoma menziesii - Menzies' goldenbush
Logfia gallica - narrowleaf cottonrose
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Psilocarphus brevissimus - woolly marble
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle

Notes/Comments: Weed infestation and italian snails. Photopoint is point 234 in "My GPS" Collector App



Photo taken: 7/10/2019 Photo location is -117.0102859, 32.58136973 NAD83 State Plane California Zone 6 (feet)

urvey Year: 2019		Page 1 of 2
Complex Name: City_Robinhood_Ridge		<b>VP_ID</b> : 1580
hotopoint X: -117.01017251978	Photopoint Y: 32.58120695015	Photopoint Established: 2019
003 Baseline Survey Data		
Baseline Cover of ERAR: 0.5	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
019 Quantitative Monitoring Data		
Survey Date 7/10/2019	Survey Start Time: 1:40 PM	Survey End Time: 1:40 PM
Surveyors: Jason Allen, Diana Brand	Ramirez, Jessie Lane	
VPHCP Covered Species Present: ER	AR	
Cover of ERAR in Basin <1%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin Cover of PONU in Basin		
Other Native Species in Pool:		
Species N	lame	Cover
Crassula connata - sa		1-5%
Deinandra fasciculata - clustered tarweed		10-25%
Psilocarphus brevissimus - woolly marble		10-25%
Cover of Other Native Species in Bas	sin 25-50% Native Species Richn	ess in Basin: 3
Nonnative Species in Pool		
Species N	lame	Cover
Brassica nigra - black mustard		10-25%
Bromus madritensis - compact brome		<1%
Centaurea melitensis - Maltese star-thistle		1-5%
Erodium sp stork's bill		<1%
Helminthotheca echioides - bristly oxtongue		<1%
Logfia gallica - narrowleaf cottonrose		<1%
Lysimachia arvensis - scarlet pimpernel		<1%
Lysimachia arvensis - : Matricaria discoidea -	· ·	<1%

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1580

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Brassica nigra - black mustard
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium sp stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Glebionis coronaria - crown daisy
Hesperoyucca whipplei - chaparral yucca
Isocoma menziesii - Menzies' goldenbush
Opuntia littoralis - coastal pricklypear
Rhus integrifolia - lemonade berry
Salsola tragus - prickly Russian thistle
Selaginella cinerascens - mesa spikemoss
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle

**Notes/Comments:** Brassica jungle and italian white snails in pool.



Photo taken: 7/10/2019 Photo location is -117.0101725, 32.58120695 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019 Complex Name: City_Robinhood_Ridge		Page 1 of 2	
		VP_ID: 1595	
Photopoint X: 117.00471897400	Photopoint Y: 32.57842591100	Photopoint Established: 2019	
2003 Baseline Survey Data			
Baseline Cover of ERAR: 50.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0		
2019 Quantitative Monitoring Data			
Survey Date 5/9/2019	Survey Start Time: 11:31 AM	Survey End Time: 12:03 PM	
Surveyors: Cheryl Jenkins, Mark Ber	ninger		
VPHCP Covered Species Present: ER	AR		
Cover of ERAR in Basin 10-25%	Cover of NAFO in Basin:	Cover of ORCA in Basin	
Cover of POAB in Basin	Cover of POAB in Basin Cover of PONU in Basin		
Other Native Species in Pool:			
Species N	Jame	Cover	
Artemisia californica - coastal sagebrush		<1%	
Crassula aquatica - Aquatic pygmy weed		<1%	
Deinandra fasciculata - clustered tarweed		10-25%	
Psilocarphus brevissimus - woolly marble		1-5%	
Cover of Other Native Species in Ba	sin 10-25% Native Species Richn	ess in Basin: 5	
Nonnative Species in Pool			
Species Name		Cover	
Centaurea melitensis - Maltese star-thistle		<1%	
Erodium botrys - longbeak stork's bill		<1%	
Festuca myuros - rattail sixweeks grass		1-5%	
Logfia gallica - narrov	wleaf cottonrose	<1%	
Lythrum hyssopifolia -	hyssop loosestrife	<1%	
Mesembryanthemum nodifloru	m - slender leaved ice plant	<1%	

Days Since Last Rain 1-5

Ponded Water Present? no

Survey Year:	2019	
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Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1595

### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Calochortus splendens - splendid mariposa lily
Centaurea melitensis - Maltese star-thistle
Cotula coronopifolia - common brassbuttons
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Gastridium phleoides - nit grass
Hypochaeris glabra - smooth cat's ear
Mesembryanthemum crystallinum - common iceplant
Mesembryanthemum nodiflorum - slender leaved ice plant
Psilocarphus brevissimus - woolly marble
Simmondsia chinensis - jojoba
Sisyrinchium bellum - Western blue-eyed grass
Sonchus asper - spiny sowthistle
Zeltnera venusta - charming centaury



Photo taken: 5/9/2019 Photo location is 117.004719, 32.57842591 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2	
Complex Name: City_Robinhood_R	idge	VP_ID: 1596	
Photopoint X: -117.00477371700	Photopoint Y: 32.57821281700	Photopoint Established: 2019	
2003 Baseline Survey Data			
Baseline Cover of ERAR: 75.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0		
2019 Quantitative Monitoring Data			
Survey Date 5/9/2019	Survey Start Time: 10:59 AM	Survey End Time: 11:30 AM	
Surveyors: Cheryl Jenkins, Mark Be	rninger		
VPHCP Covered Species Present: E	RAR		
Cover of ERAR in Basin 25-50	% Cover of NAFO in Basin:	Cover of ORCA in Basin	
Cover of POAB in Basin	Cover of PONU in Basin		
<b>Other Native Species in Pool:</b>			
Species	Name	Cover	
Crassula aquatica - Ac	quatic pygmy weed	<1%	
Deinandra fasciculata - clustered tarweed		1-5%	
Psilocarphus brevissimus - woolly marble		5-10%	
Cover of Other Native Species in Ba	sin 25-50% Native Species Richn	ess in Basin: 4	
Nonnative Species in Pool			
Species I	Name	Cover	
Festuca myuros - rattail sixweeks grass		1-5%	
i estuca myulos - lati	Lysimachia arvensis - scarlet pimpernel		
	scarlet pimpernel	<1%	

Bare Ground Cover in Basin 25-50% Cover of Rocks/Cobble in Basin: 10-25% Cover of Litter in Basin: <1%

Days Since Last Rain 1-5

Ponded Water Present? no

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1596

### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Creation Name
Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bromus diandrus - ripgut brome
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Cotula coronopifolia - common brassbuttons
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Gastridium phleoides - nit grass
Lomatium dasycarpum - woollyfruit desertparsley
Mesembryanthemum crystallinum - common iceplant
Mesembryanthemum nodiflorum - slender leaved ice plant
Mirabilis laevis - desert wishbone bush
Psilocarphus brevissimus - woolly marble
Simmondsia chinensis - jojoba
Sisyrinchium bellum - Western blue-eyed grass
Sonchus asper - spiny sowthistle
Stipa lepida - foothill needlegrass
Zeltnera venusta - charming centaury



Photo taken: 5/9/2019 Photo location is -117.0047737, 32.57821282 NAD83 State Plane California Zone 6 (feet)

urvey Year: 2019	Page 1 of 2
omplex Name: City_Robinhood_Ridge	<b>VP_ID:</b> 1598
hotopoint X: -117.00472261600 Photopoint Y: 32.5782059	8020 Photopoint Established: 2018
003 Baseline Survey Data	
Baseline Cover of ERAR:40.0Baseline Cover of NAFO:	0.0 Baseline Cover of ORCA: 0.0
Baseline Cover of POAB:0.0Baseline Cover of PONU:	0.0
019 Quantitative Monitoring Data	
Survey Date 5/9/2019 Survey Start Time: 10:2	7 AM Survey End Time: 10:57 AM
Surveyors: Cheryl Jenkins, Mark Berninger	
VPHCP Covered Species Present: ERAR	
Cover of ERAR in Basin 10-25% Cover of NAFO in Basi	n: Cover of ORCA in Basin
Cover of POAB in Basin Cover of PONU in Basi	in
Other Native Species in Pool:	
Species Name	Cover
Deinandra fasciculata - clustered tarweed	<1%
Psilocarphus brevissimus - woolly marble	5-10%
Sisyrinchium bellum - Western blue-eyed grass	<1%
Cover of Other Native Species in Basin 10-25% Native Specie	es Richness in Basin: 4
Nonnative Species in Pool	
Species Name	Cover
Bromus madritensis - compact brome	<1%
Erodium botrys - longbeak stork's bill	<1%
Festuca myuros - rattail sixweeks grass	<1%
Gastridium phleoides - nit grass	<1%
Hypochaeris glabra - smooth cat's ear	<1%
Logfia gallica - narrowleaf cottonrose	<1%
Lythrum hyssopifolia - hyssop loosestrife	<1%
	<1%
Polypogon monspeliensis - annual rabbitsfoot grass	

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1598

### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Brassica nigra - black mustard
Bromus diandrus - ripgut brome
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Cotula coronopifolia - common brassbuttons
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Festuca perennis - Italian rye grass
Hypochaeris glabra - smooth cat's ear
Logfia gallica - narrowleaf cottonrose
Lomatium dasycarpum - woollyfruit desertparsley
Mesembryanthemum crystallinum - common iceplant
Mesembryanthemum nodiflorum - slender leaved ice plant
Mirabilis laevis - desert wishbone bush
Phalaris minor - littleseed canarygrass
Psilocarphus brevissimus - woolly marble
Rhus integrifolia - lemonade berry
Simmondsia chinensis - jojoba
Sisyrinchium bellum - Western blue-eyed grass
Sonchus asper - spiny sowthistle



Photo taken: 5/9/2019 Photo location is -117.00472261600, 32.57820598020 NAD83 State Plane California Zone 6 (feet)

omplex Name: City_Robinhood_Ridge	Page 1 of 2
	VP_ID: 1599
<b>Photopoint X:</b> -117.00465529200 <b>Photopoint Y:</b> 32.57826936400	Photopoint Established: 2019
003 Baseline Survey Data	
aseline Cover of ERAR: 1.0 Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
aseline Cover of POAB: 0.0 Baseline Cover of PONU: 0.0	
019 Quantitative Monitoring Data	
Survey Date 5/9/2019Survey Start Time: 1:50 PM	Survey End Time: 2:17 PM
Surveyors: Mark Berninger, Diana Brand Ramirez	
VPHCP Covered Species Present: ERAR	
Cover of ERAR in Basin 25-50% Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin Cover of PONU in Basin	
Other Native Species in Pool:	
Species Name	Cover
Deinandra fasciculata - clustered tarweed	10-25%
Myosurus minimus - little mouse tail	<1%
Psilocarphus brevissimus - woolly marble	10-25%
Cover of Other Native Species in Basin 25-50% Native Species Ric	chness in Basin: 4
Nonnative Species in Pool	
Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Erodium botrys - longbeak stork's bill	<1%
Festuca myuros - rattail sixweeks grass	<1%
Hypochaeris glabra - smooth cat's ear	<1%
Lamarckia aurea - goldentop grass	<1%
Logfia gallica - narrowleaf cottonrose	<1%
Lysimachia arvensis - scarlet pimpernel	<1%
Polypogon monspeliensis - annual rabbitsfoot grass	<1%

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1599

### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon glaber - deerweed
Artemisia californica - coastal sagebrush
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Dichelostemma capitatum - bluedicks
Eriogonum fasciculatum - Eastern Mojave buckwheat
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Hainardia cylindrica - Thin tail
Hypochaeris glabra - smooth cat's ear
Linanthus dianthiflorus - ground pink
Logfia gallica - narrowleaf cottonrose
Lomatium dasycarpum - woollyfruit desertparsley
Mesembryanthemum nodiflorum - slender leaved ice plant
Mirabilis laevis - desert wishbone bush
Psilocarphus tenellus - short woollyheads
Rhus integrifolia - lemonade berry
Sisyrinchium bellum - Western blue-eyed grass
Sonchus asper - spiny sowthistle
Stipa lepida - foothill needlegrass
Uropappus lindleyi - silver puffs
Zeltnera venusta - charming centaury



Photo taken: 5/9/2019 Photo location is -117.0046553, 32.57826936 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Robinhood_Ri	dge	VP_ID: 1600
Photopoint X: -117.00456447700	Photopoint Y: 32.57827345500	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 55.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/9/2019	Survey Start Time: 2:32 PM	Survey End Time: 2:54 PM
Surveyors: Diana Brand Ramirez, Ma	ark Berninger	
VPHCP Covered Species Present: ER	AR	
Cover of ERAR in Basin 50-75%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Species N	lame	Cover
Deinandra fasciculata - clustered tarweed		1-5%
Juncus bufonius - toad rush		<1%
Myosurus minimus - little mouse tail		<1%
Psilocarphus brevissimus - woolly marble		1-5%
Cover of Other Native Species in Ba	sin 50-75% Native Species Richn	ness in Basin: 5
Nonnative Species in Pool		
Species N	lame	Cover
Bromus hordeaceus - soft brome		<1%
Erodium botrys - longbeak stork's bill		<1%
Festuca myuros - rattail sixweeks grass		1-5%
Lysimachia arvensis - scarlet pimpernel		<1%
Cover of Nonnative Species in Basin	: 1-5% Nonnative Species	Richness in Basin: 4
Bare Ground Cover in Basin 10-25%	Cover of Rocks/Cobble in Basin: 1	10-25% <b>Cover of Litter in Basin:</b> <1%
Days Since Last Rain 1-5	Ponded Water Present? no	
Dead Species Present in Pool: None		

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1600

### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon micranthus - small flowered lotus
Amsinckia intermedia - common fiddleneck
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Chenopodium murale - nettleleaf goosefoot
Crassula connata - sand pygmyweed
Cylindropuntia californica - California cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Dichelostemma capitatum - bluedicks
Dudleya pulverulenta - chalk dudleya
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Erodium cicutarium - redstem stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca perennis - Italian rye grass
Hainardia cylindrica - Thin tail
Hypochaeris glabra - smooth cat's ear
Logfia gallica - narrowleaf cottonrose
Lomatium dasycarpum - woollyfruit desertparsley
Mesembryanthemum crystallinum - common iceplant
Mirabilis laevis - desert wishbone bush
Pseudognaphalium beneolens - cudweed
Psilocarphus brevissimus - woolly marble
Rhus integrifolia - lemonade berry
Sisyrinchium bellum - Western blue-eyed grass
Stephanomeria diegensis - San Diego milk aster
Stipa lepida - foothill needlegrass
Zeltnera venusta - charming centaury



Photo taken: 5/9/2019 Photo location is -117.0045645, 32.57827346 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Robinhood_Rie	dge	VP_ID: 1601
Photopoint X: -117.00432730800	Photopoint Y: 32.57837879000	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 70.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/9/2019	Survey Start Time: 3:06 PM	Survey End Time: 3:33 PM
Surveyors: Mark Berninger, Diana B	rand Ramirez	
VPHCP Covered Species Present: ER	AR	
Cover of ERAR in Basin 25-50%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Species N	lame	Cover
Artemisia californica - coastal sagebrush		<1%
Deinandra fasciculata - clustered tarweed		5-10%
Psilocarphus brevissimus - woolly marble		<1%
Cover of Other Native Species in Bas	sin 25-50% Native Species Richr	ness in Basin: 4
Nonnative Species in Pool		
Species N	lame	Cover
Bromus hordeaceu	ıs - soft brome	<1%
Bromus madritensis - compact brome		<1%
Festuca myuros - rattail sixweeks grass		<1%
Logfia gallica - narrowleaf cottonrose		<1%
Lysimachia arvensis - scarlet pimpernel		<1%
Phalaris minor - littles	Phalaris minor - littleseed canarygrass	
Cover of Nonnative Species in Basin	: 1-5% Nonnative Species	Richness in Basin: 6
Bare Ground Cover in Basin 25-50%	Cover of Rocks/Cobble in Basin: 5	5-10% <b>Cover of Litter in Basin:</b> <1%
Days Since Last Rain 1-5	Ponded Water Present? no	
Dead Energies Present in Deals None		

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1601

### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Calochortus splendens - splendid mariposa lily
Chenopodium murale - nettleleaf goosefoot
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Dittrichia graveolens - Stinkwort
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Gastridium phleoides - nit grass
Hainardia cylindrica - Thin tail
Logfia gallica - narrowleaf cottonrose
Lysimachia arvensis - scarlet pimpernel
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Mirabilis laevis - desert wishbone bush
Phalaris minor - littleseed canarygrass
Polypogon monspeliensis - annual rabbitsfoot grass
Psilocarphus tenellus - short woollyheads
Rhus integrifolia - lemonade berry
Sonchus asper - spiny sowthistle
Stipa lepida - foothill needlegrass
Zeltnera venusta - charming centaury



Photo taken: 5/9/2019 Photo location is -117.0043273, 32.57837879 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Robinhood_	Ridge	VP_ID: 1602
Photopoint X: -117.00429570900	Photopoint Y: 32.57831965600	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 90.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.5	
2019 Quantitative Monitoring Data	1	
Survey Date 5/9/2019	Survey Start Time: 3:36 PM	Survey End Time:
Surveyors: Mark Berninger, Diana	a Brand Ramirez	
VPHCP Covered Species Present:	ERAR	
Cover of ERAR in Basin 50-75	<b>Cover of NAFO in Basin:</b>	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Specie	s Name	Cover
Deinandra fasciculata - clustered tarweed		1-5%
Eleocharis macrostachya - common spikerush		<1%
Juncus bufonius - toad rush		<1%
Myosurus minimus - little mouse tail		<1%
Psilocarphus brevissimus - woolly marble		1-5%
		<1%

#### Nonnative Species in Pool

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Bromus madritensis - compact brome	<1%
Centaurea melitensis - Maltese star-thistle	<1%
Erodium botrys - longbeak stork's bill	1-5%
Festuca myuros - rattail sixweeks grass	<1%
Festuca perennis - Italian rye grass	<1%
Logfia gallica - narrowleaf cottonrose	<1%
Mesembryanthemum nodiflorum - slender leaved ice plant	<1%
Phalaris minor - littleseed canarygrass	<1%

Cover of Nonnative Species in Basin: 1-5% Nonnative Species Richness in Basin: 9

Bare Ground Cover in Basin 5-10%

Cover of Rocks/Cobble in Basin: 5-10%

Cover of Litter in Basin: <1%

Days Since Last Rain 1-5

Ponded Water Present? no

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1602

### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Chenopodium murale - nettleleaf goosefoot
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Erodium moschatum - Musky stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Helminthotheca echioides - bristly oxtongue
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Phalaris minor - littleseed canarygrass
Psilocarphus brevissimus - woolly marble
Rhus integrifolia - lemonade berry
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Stipa lepida - foothill needlegrass
Zeltnera venusta - charming centaury



Photo taken: 5/9/2019 Photo location is -117.0042957, 32.57831966 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Robinhood_Ri	dge	VP_ID: 1603
Photopoint X: -117.00408482000	Photopoint Y: 32.57832870800	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 0.5	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/14/2019	Survey Start Time: 9:15 AM	Survey End Time: 9:38 AM
Surveyors: Mark Berninger, Diana B	rand Ramirez	
VPHCP Covered Species Present: EF	RAR	
Cover of ERAR in Basin 10-25%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Species N	lame	Cover
Callitriche marginata - Cal	ifornia water starwort	<1%
Deinandra sp.	- tarplant	<1%
Psilocarphus brevissim	us - woolly marble	5-10%
Cover of Other Native Species in Ba	sin 10-25% Native Species Richr	ness in Basin: 4
Nonnative Species in Pool		
Species N	Jame	Cover
Helminthotheca echioid	es - bristly oxtongue	<1%
Lythrum hyssopifolia -	hyssop loosestrife	<1%
Polypogon monspeliensis - annual rabbitsfoot grass		<1%
Polypogon monspellensis - a		
Spergularia boccor	_	<1%
	ni - sand spurry	<1% Richness in Basin: 4
Spergularia boccor Cover of Nonnative Species in Basir	ni - sand spurry	Richness in Basin: 4

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1603

### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Deinandra sp tarplant
Eriogonum fasciculatum - Eastern Mojave buckwheat
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Hainardia cylindrica - Thin tail
Helminthotheca echioides - bristly oxtongue
Mesembryanthemum crystallinum - common iceplant
Mesembryanthemum nodiflorum - slender leaved ice plant
Opuntia littoralis - coastal pricklypear
Polypogon monspeliensis - annual rabbitsfoot grass
Rhus integrifolia - lemonade berry
Sonchus asper - spiny sowthistle
Stipa pulchra - purple needlegrass
Zeltnera venusta - charming centaury



Photo taken: 5/14/2019 Photo location is -117.0040848, 32.57832871 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Robinhood	_Ridge	VP_ID: 1604
Photopoint X: -117.00502043000	Photopoint Y: 32.57806301640	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 20.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Dat	a	
Survey Date 5/9/2019	Survey Start Time: 10:30 AM	Survey End Time: 11:56 AM
Surveyors: Diana Brand-Ramirez,	Ninfa Negrete	
VPHCP Covered Species Present:	ERAR	
Cover of ERAR in Basin 25-50	% Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
<b>Other Native Species in Pool:</b>		
Specie	es Name	Cover
Cylindropuntia pro	lifera - coastal cholla	<1%
Deinandra fascicula	ta - clustered tarweed	<1%
Eleocharis macrostach	nya - common spikerush	<1%
Juncus bufor	iius - toad rush	<1%
Psilocarphus brevis	simus - woolly marble	10-25%
Cover of Other Native Species in	Basin 25-50% Native Species Richn	ness in Basin: 6
Nonnative Species in Pool		
	s Name	Cover
Bromus hordeaceus - soft brome		<1%
Bromus madritens	sis - compact brome	<1%
Centaurea melitensis - Maltese star-thistle		<1%

Bromus madritensis - compact brome	<1%
Centaurea melitensis - Maltese star-thistle	<1%
Festuca myuros - rattail sixweeks grass	<1%
Festuca perennis - Italian rye grass	<1%
Hedypnois cretica - Cretanweed	<1%
Hypochaeris glabra - smooth cat's ear	<1%
Lamarckia aurea - goldentop grass	<1%
Logfia gallica - narrowleaf cottonrose	<1%
Lysimachia arvensis - scarlet pimpernel	<1%
Matricaria discoidea - pineapple weed	<1%
Phalaris minor - littleseed canarygrass	<1%
Sonchus asper - spiny sowthistle	<1%

Cover of Nonnative Species in Basin: 1-5% Nonnative Species Richness in Basin: 13

Bare Ground Cover in Basin50-75%Cover of Rocks/Cobble in Basin:25-50%Cover of Litter in Basin:1-5%

Days Since Last Rain 1-5

Ponded Water Present? no

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1604

### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name   Artemisia californica - coastal sagebrush   Baccharis sarothroides - desertbroom   Bahiopsis laciniata - torhleaf goldeneye   Beta vulgaris - beet   Bromus madritensis - compact brome   Carrichtera annua - Ward's weed   Centaurea melitensis - compact brome   Carlidropuntia prolifera - coastal cholla   Daucus pusillus - American wild carrot   Deinandra fasciculata - clustered tarweed   Encelia californica - California brittlebush   Errigeron canadensis - Canada horseweed   Errigonum fasciculatum - Eastern Mojave buckwheat   Errodium botrys - longbeak stork's bill   Festuca perennis - Italian rye grass   Hedypnois cretica - Cretanweed   Logfia gallica - narrowleaf cottonrose   Lysimachia arvensis - scarlet pimpernel   Lythrum hysopifolia - hysop loosestrife   Matricaria discoidea - pineapple weed   Mesembryanthemum nodiflorum - slender leaved ice plant   Opuntia oricola - chaparral pricklypear   Pseudognaphalium beneolens - cudweed   Pseudognaphalium beneolens - cudweed   Russ integrifolia - lemonade berry   Salsola tragus - prickly Russian thistle   Simmondsia chinensis - jojoba   Stephan		
Baccharis sarothroides - desertbroom Bahiopsis laciniata - torhleaf goldeneye Beta vulgaris - beet Bromus hordeaceus - soft brome Bromus hordeaceus - soft brome Carrichtera annua - Ward's weed Centaurea melitensis - Maltese star-thistle Cylindropuntia prolifera - coastal cholla Daucus pusillus - American wild carrot Deinandra fasciculata - clustered tarweed Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Festuca myuros - rattail sixweeks grass Hedypnois cretica - Cretanweed Logfia gallica - narrowleaf cottonrose Lysimachia arvensis - scarlet pimpernel Lythrum hyssopifolia - hyssop loosestrife Matricaria discoidea - pineapple weed Mesembryanthemum nodiflorum - slender lieplant Opuntia oricola - chaparal pricklypear Pseudognaphalium beneolens - cudweed Pseudognaphalium beneolens - cudweed Pseudognaphalium sp cudweed Rhus integrifolia - lemonade berry Salsola tragus - pickly Russian thisle Simondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster		
Bahiopsis laciniata - torhleaf goldeneye   Beta vulgaris - beet   Bromus hordeaceus - soft brome   Bromus madritensis - compact brome   Carrichtera annua - Ward's weed   Centaurea melitensis - Maltese star-thistle   Cylindropuntia prolifera - coastal cholla   Daucus pusillus - American wild carrot   Deinandra fasciculata - clustered tarweed   Encelia californica - California brittlebush   Eriogonum fasciculatur - Eastern Mojave buckwheat   Erodium botrys - longbeak stork's bill   Festuca myuros - rattali sixweeks grass   Hedypnois cretica - Cretanweed   Lysimachia arvensis - scarlet pimpernel   Lysimachia arvensis - scarlet pimpernel   Lysimachia arvensis - scarlet pimpernel   Lysimachia arvensis - scarlet pienente   Mesembryanthemum nodiflorum - slender leaved ice plant   Opuntia oricola - chaparral pricklypear   Opuntia oricola - chaparral pricklypear   Pseudognaphalium sp cudweed   Pseudognaphalium sp cudweed   Rhus integrifolia - lensoade berry   Salsola tragus - prickly Russian thistle   Simondsia chinensis - jojoba		
Beta vulgaris - beet   Bromus hordeaceus - soft brome   Bromus madritensis - compact brome   Carrichtera annua - Ward's weed   Centaurea melitensis - Maltese star-thistle   Cylindropuntia prolifera - coastal cholla   Daucus pusillus - American wild carrot   Deinandra fasciculata - clustered tarweed   Encelia californica - California brittlebush   Erigeron canadensis - Canada horseweed   Eriogonum fasciculatum - Eastern Mojave buckwheat   Erodium botrys - longbeak stork's bill   Festuca myuros - rattail sixweeks grass   Festuca perennis - Italian rye grass   Hedypnois cretica - Cretanweed   Logfia gallica - narrowleaf cottonrose   Lysimachia arvensis - scarlet pimpernel   Lythrum hyssopifolia - hyssop loosestrife   Matricaria discoida - pineapple weed   Mesembryanthemum roystallinum - common iceplant   Mesembryanthemum nodiflorum - slender leaved ice plant   Opuntia oricola - chaparral pricklypear   Pseudognaphalium beneolens - cudweed   Rhus integrifolia - lemonade berry   Salsola tragus - prickly Russian thistle   Salsola tragus - prickly Russian thistle		
Bromus hordeaceus - soft brome   Bromus madritensis - compact brome   Carrichtera annua - Ward's wed   Centaurea melitensis - Maltese star-thistle   Cylindropuntia prolifera - coastal cholla   Daucus pusillus - American wild carrot   Deinandra fasciculata - clustered tarweed   Ericelia californica - California brittlebush   Erigeron canadensis - Canada horseweed   Eriogonum fasciculatum - Eastern Mojave buckwheat   Erodium botrys - longbeak stork's bill   Festuca myuros - rattail sixweeks grass   Festuca perennis - Italian rye grass   Hedypnois cretica - Cretanweed   Logfia gallica - narrowleaf cottonrose   Lysimachia arvensis - scalet pimpernel   Lysimachia arvensis - scalet pimpernel   Matricaria discoida - pineapple weed   Mesembryanthemum rystallinum - common iceplant   Mesembryanthemum nodiflorum - slender leaved ice plant   Opuntia oricola - chaparral pricklypear   Pseudognaphalium beneolens - cudweed   Rhus integrifolia - lemonade berry   Salsola tragus - prickly Russian thistle   Silsephanomeria diegensis - San Diego milk aster		
Bromus madritensis - compact brome Carrichtera annua - Ward's weed Centaurea melitensis - Maltese star-thistle Cylindropuntia prolifera - coastal cholla Daucus pusillus - American wild carrot Deinandra fasciculata - clustered tarweed Encelia californica - California brittlebush Erigeron canadensis - Canada horseweed Eriogonum fasciculatum - Eastern Mojave buckwheat Eriogonum fasciculatum - Eastern Mojave buckwheat Eriogonum fasciculatum - Eastern Mojave buckwheat Eriogonum fasciculatur - Eastern Mojave buckwheat Eriogionum botrys - longbeak stork's bill Festuca perunis - Italian rye grass Festuca perunis - Italian rye grass Hedypnois cretica - Cretanweed Logfia gallica - narrowleaf cottonrose Lysimachia arvensis - scarlet pimpernel Lythrum hyssopifolia - hyssop loosestrife Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Opuntia oricola - chaparral pricklypear Pseudognaphalium beneolens - cudweed Rhus integrifolia - lemonade berry Salsola tragus - prickly Russian thistle Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster		
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Centaurea melitensis - Maltese star-thistle Cylindropuntia prolifera - coastal cholla Daucus pusillus - American wild carrot Deinandra fasciculata - clustered tarweed Encelia californica - California brittebush Erigeron canadensis - Canada horseweed Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Festuca myuros - rattail sixweeks grass Festuca perennis - Italian rye grass Hedypnois cretica - Cretanweed Logfia gallica - narrowleaf cottornose Lysimachia arvensis - scarlet pimpernel Lythrum hyssopifolia - hyssop loosestrife Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Opuntia oricola - chaparral pricklypear Pseudognaphalium beneolens - cudweed Rhus integrifolia - lemonade berry Salsola tragus - prickly Russian thistle Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster	Bromus madritensis - compact brome	
Cylindropuntia prolifera - coastal cholla Daucus pusillus - American wild carrot Deinandra fasciculata - clustered tarweed Encelia californica - California brittlebush Erigeron canadensis - Canada horseweed Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Festuca myuros - rattail sixweeks grass Festuca perennis - Italian rye grass Hedypnois cretica - Cretanweed Logfia gallica - narrowleaf cottonrose Lysimachia arvensis - scarlet pimpernel Lythrum hyssopifolia - hyssop loosestrife Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Opuntia oricola - chaparral pricklypear Pseudognaphalium beneolens - cudweed Rhus integrifolia - lemonade berry Salsola tragus - prickly Russian thistle Simmondsia chinensis - jojoba	Carrichtera annua - Ward's weed	
Daucus pusillus - American wild carrot Deinandra fasciculata - clustered tarweed Encelia californica - California brittlebush Erigeron canadensis - Canada horseweed Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Festuca myuros - rattail sixweeks grass Festuca perennis - Italian rye grass Hedypnois cretica - Cretanweed Logfia gallica - narrowleaf cottonrose Lysimachia arvensis - scarlet pimpernel Lythrum hyssopifolia - hyssop loosestrife Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Opuntia oricola - chaparral pricklypear Pseudognaphalium beneolens - cudweed Rhus integrifolia - lemonade berry Salsola tragus - prickly Russian thistle Simmondsia chinensis - jojoba	Centaurea melitensis - Maltese star-thistle	
Deinandra fasciculata - clustered tarweedEncelia californica - California brittlebushErigeron canadensis - Canada horseweedEriogonum fasciculatum - Eastern Mojave buckwheatErodium botrys - longbeak stork's billFestuca myuros - rattail sixweeks grassFestuca perennis - Italian rye grassHedypnois cretica - CretanweedLogfia gallica - narrowleaf cottonroseLysimachia arvensis - scarlet pimpernelLythrum hyssopifolia - hyssop loosestrifeMatricaria discoidea - pineapple weedMesembryanthemum nodiflorum - slender leaved ice plantOpuntia oricola - chaparral pricklypearPseudognaphalium beneolens - cudweedRhus integrifolia - lemonade berrySalsola tragus - prickly Russian thistleSimmondsia chinensis - jojobaStephanomeria diegensis - San Diego milk aster	Cylindropuntia prolifera - coastal cholla	
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Erodium botrys - longbeak stork's bill Festuca myuros - rattail sixweeks grass Festuca perennis - Italian rye grass Hedypnois cretica - Cretanweed Logfia gallica - narrowleaf cottonrose Lysimachia arvensis - scarlet pimpernel Lythrum hyssopifolia - hyssop loosestrife Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Opuntia oricola - chaparral pricklypear Pseudognaphalium beneolens - cudweed Rhus integrifolia - lemonade berry Salsola tragus - prickly Russian thistle Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster	Erigeron canadensis - Canada horseweed	
Festuca myuros - rattail sixweeks grassFestuca perennis - Italian rye grassHedypnois cretica - CretanweedLogfia gallica - narrowleaf cottonroseLysimachia arvensis - scarlet pimpernelLythrum hyssopifolia - hyssop loosestrifeMatricaria discoidea - pineapple weedMesembryanthemum crystallinum - common iceplantMesembryanthemum nodiflorum - slender leaved ice plantOpuntia oricola - chaparral pricklypearPseudognaphalium beneolens - cudweedRhus integrifolia - lemonade berrySalsola tragus - prickly Russian thistleSimmondsia chinensis - jojobaStephanomeria diegensis - San Diego milk aster	Eriogonum fasciculatum - Eastern Mojave buckwheat	
Festuca perennis - Italian rye grassHedypnois cretica - CretanweedLogfia gallica - narrowleaf cottonroseLysimachia arvensis - scarlet pimpernelLythrum hyssopifolia - hyssop loosestrifeMatricaria discoidea - pineapple weedMesembryanthemum crystallinum - common iceplantMesembryanthemum nodiflorum - slender leaved ice plantOpuntia oricola - chaparral pricklypearPseudognaphalium beneolens - cudweedRhus integrifolia - lemonade berrySalsola tragus - prickly Russian thistleSimmondsia chinensis - jojobaStephanomeria diegensis - San Diego milk aster	Erodium botrys - longbeak stork's bill	
Hedypnois cretica - CretanweedLogfia gallica - narrowleaf cottonroseLysimachia arvensis - scarlet pimpernelLythrum hyssopifolia - hyssop loosestrifeMatricaria discoidea - pineapple weedMesembryanthemum crystallinum - common iceplantMesembryanthemum nodiflorum - slender leaved ice plantOpuntia oricola - chaparral pricklypearPseudognaphalium beneolens - cudweedPseudognaphalium sp cudweedRhus integrifolia - lemonade berrySalsola tragus - prickly Russian thistleSimmondsia chinensis - jojobaStephanomeria diegensis - San Diego milk aster	Festuca myuros - rattail sixweeks grass	
Logfia gallica - narrowleaf cottonrose Lysimachia arvensis - scarlet pimpernel Lythrum hyssopifolia - hyssop loosestrife Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Opuntia oricola - chaparral pricklypear Pseudognaphalium beneolens - cudweed Pseudognaphalium sp cudweed Rhus integrifolia - lemonade berry Salsola tragus - prickly Russian thistle Simmondsia chinensis - jojoba	Festuca perennis - Italian rye grass	
Lysimachia arvensis - scarlet pimpernel Lythrum hyssopifolia - hyssop loosestrife Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Opuntia oricola - chaparral pricklypear Pseudognaphalium beneolens - cudweed Pseudognaphalium sp cudweed Rhus integrifolia - lemonade berry Salsola tragus - prickly Russian thistle Simmondsia chinensis - jojoba	Hedypnois cretica - Cretanweed	
Lythrum hyssopifolia - hyssop loosestrife Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Opuntia oricola - chaparral pricklypear Pseudognaphalium beneolens - cudweed Pseudognaphalium sp cudweed Rhus integrifolia - lemonade berry Salsola tragus - prickly Russian thistle Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster	Logfia gallica - narrowleaf cottonrose	
Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Opuntia oricola - chaparral pricklypear Pseudognaphalium beneolens - cudweed Pseudognaphalium sp cudweed Rhus integrifolia - lemonade berry Salsola tragus - prickly Russian thistle Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster	Lysimachia arvensis - scarlet pimpernel	
Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Opuntia oricola - chaparral pricklypear Pseudognaphalium beneolens - cudweed Pseudognaphalium sp cudweed Rhus integrifolia - lemonade berry Salsola tragus - prickly Russian thistle Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster	Lythrum hyssopifolia - hyssop loosestrife	
Mesembryanthemum nodiflorum - slender leaved ice plant Opuntia oricola - chaparral pricklypear Pseudognaphalium beneolens - cudweed Pseudognaphalium sp cudweed Rhus integrifolia - lemonade berry Salsola tragus - prickly Russian thistle Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster	Matricaria discoidea - pineapple weed	
Opuntia oricola - chaparral pricklypear Pseudognaphalium beneolens - cudweed Pseudognaphalium sp cudweed Rhus integrifolia - lemonade berry Salsola tragus - prickly Russian thistle Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster	Mesembryanthemum crystallinum - common iceplant	
Pseudognaphalium beneolens - cudweed Pseudognaphalium sp cudweed Rhus integrifolia - lemonade berry Salsola tragus - prickly Russian thistle Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster	Mesembryanthemum nodiflorum - slender leaved ice plant	
Pseudognaphalium sp cudweed Rhus integrifolia - lemonade berry Salsola tragus - prickly Russian thistle Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster	Opuntia oricola - chaparral pricklypear	
Rhus integrifolia - lemonade berry Salsola tragus - prickly Russian thistle Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster	Pseudognaphalium beneolens - cudweed	
Salsola tragus - prickly Russian thistle Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster	Pseudognaphalium sp cudweed	
Simmondsia chinensis - jojoba Stephanomeria diegensis - San Diego milk aster	Rhus integrifolia - lemonade berry	
Stephanomeria diegensis - San Diego milk aster	Salsola tragus - prickly Russian thistle	
·	Simmondsia chinensis - jojoba	
Stipa lepida - foothill needlegrass	Stephanomeria diegensis - San Diego milk aster	
	Stipa lepida - foothill needlegrass	



Photo taken: 5/14/2019 Photo location is -117.00502043000, 32.57806301640 NAD83 State Plane California Zone 6 (feet)
Survey Year: 2019				Page 1 of 2
Complex Name: City_Robir	nhood_Ridge			VP_ID: 1606
Photopoint X: -117.0045867	Photopoint	<b>Y:</b> 32.5781880	01800	Photopoint Established: 2019
2003 Baseline Survey Data				
Baseline Cover of ERAR:	0.5 Baseline Cov	ver of NAFO:	0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB:	0.0 Baseline Cov	ver of PONU:	0.0	
2019 Quantitative Monitorii	ng Data			
Survey Date 5/14/2019	Survey St	art Time: 9:4	4 AM	Survey End Time: 10:02 AM
Surveyors: Mark Berninger	r, Diana Brand Ramirez			
VPHCP Covered Species Pre	esent: ERAR			
Cover of ERAR in Basin	25-50% <b>Cover c</b>	of NAFO in Bas	in:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover c	of PONU in Bas	sin	
Other Native Species in Po	<u>ol:</u>			
	Species Name			Cover
Callitriche margi	nata - California water si	arwort		1-5%
Deinandra fasciculata - clustered tarweed			<1%	
Psilocarphus brevissimus - woolly marble			1-5%	
Cover of Other Native Spec	cies in Basin 25-50%	Native Speci	es Richne	ess in Basin: 4
Nonnative Species in Pool				
	Species Name			Cover
	eliensis - annual rabbitsf	oot grass		<1%

Bare Ground Cover in Basin50-75%Cover of Rocks/Cobble in Basin:1-5%Cover of Litter in Basin:<1%</th>

Days Since Last Rain 1-5 Ponded Water Present? no

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1606

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name         Artemisia californica - coastal sagebrush         Bahiopsis laciniata - torhleaf goldeneye         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Crassula connata - sand pygmyweed         Cylindropuntia prolifera - coastal cholla         Daucus pusillus - American wild carrot         Deinandra fasciculata - clustered tarweed         Dichelostemma capitatum - bluedicks         Eriogonum fasciculatum - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Eryngium aristulatum var. parishii - San Diego button celery         Festuca myuros - rattail sixweeks grass         Festuca perennis - Italian rye grass         Hypochaeris glabra - smooth cat's ear         Liofa gallica - narrowleaf cottonrose         Matricaria discoidea - pineapple weed         Mesembryanthemum nodiflorum - slender leaved ice plant         Mirabilis laevis - desert wishbone bush         Polypogon monspeliensis - annual rabbitsfoot grass         Pseudognaphalium beneolens - cudweed         Psilocarphus brevissimus - woolly marble         Rus integrifolia - lemonade berry         Stephanomeria diegensis - San Diego milk aster         Stipa lepida - foothill needlegrass         Stipa lepida - f	
Bahiopsis laciniata - torhleaf goldeneye Bromus modritensis - compact brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygnyweed Cylindropuntia prolifera - coastal cholla Daucus pusillus - American wild carrot Deinandra fasciculata - clustered tarweed Dichelostemma capitatum - bluedicks Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego button celery Ferocactus viridescens - San Diego button celery Ferotactus viridescens - San Diego barrel cactus Festuca myuros - rattali sixweeks grass Festuca perennis - Italian rye grass Hypochaeris glabra - smooth cat's ear Linanthus dianthifforus - ground pink Logfia gallica - narrowleaf cottonrose Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodifforum - slender leaved ice plant Mirabilis laevis - desert wishbone bush Polypogon monspeliensis - annual rabbitsfoot grass Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Rhus integrifolia - lemonade berry Stephanomeria digegnsis - San Diego pilk aster Stipa pulchra - purple needlegrass	Species Name
Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Crassula connata - sand pygmyweed         Cylindropuntia prolifera - coastal cholla         Daucus pusillus - American wild carrot         Deinandra fasciculata - clustered tarweed         Dichelostemma capitatum - bluedicks         Eriogonum fasciculatum - Eastern Mojave buckwheat         Eroigum aristulatum var. parishii - San Diego button celery         Ferocactus viridescens - San Diego barrel cactus         Festuca myuros - rattal isixweeks grass         Festuca myuros - rattal isixweeks grass         Linanthus dianthiforus - ground pink         Logfia gallica - narrowleaf cottonrose         Matricaria discoidea - pineapple weed         Mesembryanthemum nodiflorum - slender leaved ice plant         Mirabilis laevis - desert wishbone bush         Polypogon monspeliensis - annual rabbitsfoot grass         Pseudognaphalium beneolens - cudweed         Psilocarphus brevissimus - woolly marble         Rhus integrifolia - lenonade berry         Stephanomeria diegensis - San Diego milk aster	Artemisia californica - coastal sagebrush
Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Daucus pusillus - American wild carrot Deinandra fasciculata - clustered tarweed Dichelostemma capitatum - bluedicks Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Festuca perennis - Italian rye grass Hypochaeris glabra - smooth cat's ear Linanthus dianthiforus - ground pink Logfia gallica - narrowleaf cottonrose Matricaria discoidea - pineapple weed Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mirabilis laevis - desert wishbone bush Polypogon monspeliensis - anual rabbitsfoot grass Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Rhus integrifolia - lemonade berry Stephanomeria diegensis - San Diego mik aster Stipa lepida - footbill needlegrass	Bahiopsis laciniata - torhleaf goldeneye
Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Daucus pusillus - American wild carrot Deinandra fasciculata - clustered tarweed Dichelostemma capitatum - bluedicks Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Festuca perennis - Italian rye grass Hypochaeris glabra - smooth cat's ear Linanthus dianthiflorus - ground pink Logfia gallica - narrowleaf cottonrose Matricaria discoidea - pineapple weed Mesembryanthemum nodiflorum - common iceplant Mirabills lævis - desert wishbone bush Polypogon monspeliensis - annual rabbitsfoot grass Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - wolly marble Rhus integrifolia - lemonade berry Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothil needlegrass	Bromus hordeaceus - soft brome
Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Daucus pusillus - American wild carrot Deinandra fasciculata - clustered tarweed Dichelostemma capitatum - bluedicks Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Festuca perennis - Italian rye grass Hypochaeris glabra - smooth cat's ear Linanthus dianthiflorus - ground pink Logfia gallica - narrowleaf cottonrose Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Mirabilis laevis - desert wishbone bush Polypogon monspeliensis - annual rabbitsfoot grass Pseudognaphalium beneolers - cudweed Psilocarphus brevissimus - woolly marble Rhus integrifolia - lemonade berry Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass	Bromus madritensis - compact brome
Cylindropuntia prolifera - coastal cholla Daucus pusillus - American wild carrot Deinandra fasciculata - clustered tarweed Dichelostemma capitatum - biuedicks Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Festuca perennis - Italian rye grass Hypochaeris glabra - smooth cat's ear Linanthus dianthiflorus - ground pink Logfia gallica - narrowleaf cottonrose Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mirabilis laevis - desert wishbone bush Polypogon monspeliensis - annual rabbitsfoot grass Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Rhus integrifolia - lemonade berry Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass	Centaurea melitensis - Maltese star-thistle
Daucus pusillus - American wild carrot Deinandra fasciculata - clustered tarweed Dichelostemma capitatum - bluedicks Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Festuca perennis - Italian rye grass Hypochaeris glabra - smooth cat's ear Linanthus dianthiflorus - ground pink Logfia gallica - narrowleaf cottonrose Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Mirabilis laevis - desert wishbone bush Polypogon monspeliensis - annual rabbitsfoot grass Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Rhus integrifolia - lemonade berry Stephanomeria diegensis - San Diego milk aster	Crassula connata - sand pygmyweed
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Dichelostemma capitatum - bluedicksEriogonum fasciculatum - Eastern Mojave buckwheatErodium botrys - longbeak stork's billEryngium aristulatum var. parishii - San Diego button celeryFerocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassFestuca perennis - Italian rye grassHypochaeris glabra - smooth cat's earLinanthus dianthiflorus - ground pinkLogfia gallica - narrowleaf cottonroseMatricaria discoidea - pineapple weedMesembryanthemum nodiflorum - slender leaved ice plantMirabilis laevis - desert wishbone bushPolypogon monspeliensis - annual rabbitsfoot grassPseudognaphalium beneolens - cudweedPsilocarphus brevissimus - woolly marbleRhus integrifolia - lemonade berryStephanomeria diegensis - San Diego milk asterStipa lepida - foothill needlegrassStipa pulchra - purple needlegrass	Daucus pusillus - American wild carrot
Eriogonum fasciculatum - Eastern Mojave buckwheatErodium botrys - longbeak stork's billEryngium aristulatum var. parishii - San Diego button celeryFerocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassFestuca perennis - Italian rye grassHypochaeris glabra - smooth cat's earLinanthus dianthiflorus - ground pinkLogfia gallica - narrowleaf cottonroseMatricaria discoidea - pineapple weedMesembryanthemum crystallinum - common iceplantMesembryanthemum nodiflorum - slender leaved ice plantMirabilis laevis - desert wishbone bushPolypogon monspeliensis - annual rabbitsfoot grassPseudognaphalium beneolens - cudweedPsilocarphus brevissimus - woolly marbleRhus integrifolia - lemonade berryStephanomeria diegensis - San Diego milk asterStipa lepida - foothill needlegrassStipa pulchra - purple needlegrass	Deinandra fasciculata - clustered tarweed
Erodium botrys - longbeak stork's bill Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Festuca perennis - Italian rye grass Hypochaeris glabra - smooth cat's ear Linanthus dianthiflorus - ground pink Logfia gallica - narrowleaf cottonrose Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Mirabilis laevis - desert wishbone bush Polypogon monspeliensis - annual rabbitsfoot grass Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Rhus integrifolia - lemonade berry Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass	Dichelostemma capitatum - bluedicks
Eryngium aristulatum var. parishii - San Diego button celeryFerocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassFestuca perennis - Italian rye grassHypochaeris glabra - smooth cat's earLinanthus dianthiflorus - ground pinkLogfia gallica - narrowleaf cottonroseMatricaria discoidea - pineapple weedMesembryanthemum crystallinum - common iceplantMirabilis laevis - desert wishbone bushPolypogon monspeliensis - annual rabbitsfoot grassPseudognaphalium beneolens - cudweedPsilocarphus brevissimus - woolly marbleRhus integrifolia - lemonade berryStephanomeria diegensis - San Diego milk asterStipa lepida - foothill needlegrassStipa pulchra - purple needlegrass	Eriogonum fasciculatum - Eastern Mojave buckwheat
Ferocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassFestuca perennis - Italian rye grassHypochaeris glabra - smooth cat's earLinanthus dianthiflorus - ground pinkLogfia gallica - narrowleaf cottonroseMatricaria discoidea - pineapple weedMesembryanthemum crystallinum - common iceplantMirabilis laevis - desert wishbone bushPolypogon monspeliensis - annual rabbitsfoot grassPseudognaphalium beneolens - cudweedPsilocarphus brevissimus - woolly marbleRhus integrifolia - lemonade berryStipa lepida - foothill needlegrassStipa pulchra - purple needlegrass	Erodium botrys - longbeak stork's bill
Festuca myuros - rattail sixweeks grassFestuca perennis - Italian rye grassHypochaeris glabra - smooth cat's earLinanthus dianthiflorus - ground pinkLogfia gallica - narrowleaf cottonroseMatricaria discoidea - pineapple weedMesembryanthemum crystallinum - common iceplantMesembryanthemum nodiflorum - slender leaved ice plantMirabilis laevis - desert wishbone bushPolypogon monspeliensis - annual rabbitsfoot grassPseudognaphalium beneolens - cudweedPsilocarphus brevissimus - woolly marbleRhus integrifolia - lemonade berryStephanomeria diegensis - San Diego milk asterStipa lepida - foothill needlegrassStipa pulchra - purple needlegrass	Eryngium aristulatum var. parishii - San Diego button celery
Festuca perennis - Italian rye grassHypochaeris glabra - smooth cat's earLinanthus dianthiflorus - ground pinkLogfia gallica - narrowleaf cottonroseMatricaria discoidea - pineapple weedMesembryanthemum crystallinum - common iceplantMesembryanthemum nodiflorum - slender leaved ice plantMirabilis laevis - desert wishbone bushPolypogon monspeliensis - annual rabbitsfoot grassPseudognaphalium beneolens - cudweedPsilocarphus brevissimus - woolly marbleRhus integrifolia - lemonade berryStephanomeria diegensis - San Diego milk asterStipa lepida - foothill needlegrassStipa pulchra - purple needlegrass	Ferocactus viridescens - San Diego barrel cactus
Hypochaeris glabra - smooth cat's earLinanthus dianthiflorus - ground pinkLogfia gallica - narrowleaf cottonroseMatricaria discoidea - pineapple weedMesembryanthemum crystallinum - common iceplantMesembryanthemum nodiflorum - slender leaved ice plantMirabilis laevis - desert wishbone bushPolypogon monspeliensis - annual rabbitsfoot grassPseudognaphalium beneolens - cudweedPsilocarphus brevissimus - woolly marbleRhus integrifolia - lemonade berryStephanomeria diegensis - San Diego milk asterStipa lepida - foothill needlegrassStipa pulchra - purple needlegrass	Festuca myuros - rattail sixweeks grass
Linanthus dianthiflorus - ground pink Logfia gallica - narrowleaf cottonrose Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Mirabilis laevis - desert wishbone bush Polypogon monspeliensis - annual rabbitsfoot grass Polypogon monspeliensis - annual rabbitsfoot grass Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Rhus integrifolia - lemonade berry Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass Stipa pulchra - purple needlegrass	Festuca perennis - Italian rye grass
Logfia gallica - narrowleaf cottonrose Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Mirabilis laevis - desert wishbone bush Polypogon monspeliensis - annual rabbitsfoot grass Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Rhus integrifolia - lemonade berry Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass Stipa pulchra - purple needlegrass	Hypochaeris glabra - smooth cat's ear
Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Mirabilis laevis - desert wishbone bush Polypogon monspeliensis - annual rabbitsfoot grass Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Rhus integrifolia - lemonade berry Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass Stipa pulchra - purple needlegrass	Linanthus dianthiflorus - ground pink
Mesembryanthemum crystallinum - common iceplant Mesembryanthemum nodiflorum - slender leaved ice plant Mirabilis laevis - desert wishbone bush Polypogon monspeliensis - annual rabbitsfoot grass Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Rhus integrifolia - lemonade berry Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass Stipa pulchra - purple needlegrass	Logfia gallica - narrowleaf cottonrose
Mesembryanthemum nodiflorum - slender leaved ice plant Mirabilis laevis - desert wishbone bush Polypogon monspeliensis - annual rabbitsfoot grass Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Rhus integrifolia - lemonade berry Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass Stipa pulchra - purple needlegrass	Matricaria discoidea - pineapple weed
Mirabilis laevis - desert wishbone bush Polypogon monspeliensis - annual rabbitsfoot grass Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Rhus integrifolia - lemonade berry Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass Stipa pulchra - purple needlegrass	Mesembryanthemum crystallinum - common iceplant
Polypogon monspeliensis - annual rabbitsfoot grass Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Rhus integrifolia - lemonade berry Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass Stipa pulchra - purple needlegrass	Mesembryanthemum nodiflorum - slender leaved ice plant
Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Rhus integrifolia - lemonade berry Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass Stipa pulchra - purple needlegrass	Mirabilis laevis - desert wishbone bush
Psilocarphus brevissimus - woolly marble Rhus integrifolia - lemonade berry Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass Stipa pulchra - purple needlegrass	Polypogon monspeliensis - annual rabbitsfoot grass
Rhus integrifolia - lemonade berry Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass Stipa pulchra - purple needlegrass	Pseudognaphalium beneolens - cudweed
Stephanomeria diegensis - San Diego milk aster Stipa lepida - foothill needlegrass Stipa pulchra - purple needlegrass	Psilocarphus brevissimus - woolly marble
Stipa lepida - foothill needlegrass Stipa pulchra - purple needlegrass	Rhus integrifolia - lemonade berry
Stipa pulchra - purple needlegrass	Stephanomeria diegensis - San Diego milk aster
	Stipa lepida - foothill needlegrass
Zeltnera venusta - charming centaury	Stipa pulchra - purple needlegrass
	Zeltnera venusta - charming centaury

Notes/Comments: None



Photo taken: 5/14/2019 Photo location is -117.0045867, 32.57818802 NAD83 State Plane California Zone 6 (feet)

urvey Year: 2019		Page 1 of 2
omplex Name: City_Robinhood_Ri hotopoint X: -117.00438405400	dge Photopoint Y: 32.57817016500	VP_ID: 1607 Photopoint Established: 2019
003 Baseline Survey Data		
Baseline Cover of ERAR: 0.5	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 1.0	
2019 Quantitative Monitoring Data		
Survey Date 5/10/2019	Survey Start Time: 11:43 AM	Survey End Time: 12:07 PM
Surveyors: Maya Mazon, Sean Pave	r	
VPHCP Covered Species Present: PC	DNU,ERAR	
Cover of ERAR in Basin 10-25%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin 1-5%	
Other Native Species in Pool:		
Species N	lame	Cover
Deinandra fasciculata -	clustered tarweed	1-5%
Psilocarphus brevissim	us - woolly marble	50-75%
Cover of Other Native Species in Ba Nonnative Species in Pool	sin 50-75% Native Species Richn	ess in Basin: 4
Species Name		Cover
Bromus hordeaceus - soft brome		<1%
Festuca myuros - rattail sixweeks grass		<1%
Phalaris minor - littleseed canarygrass		10/
Phalaris minor - little Polypogon interruptus - d		<1%

Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: 5-10%

Ponded Water Present? no

**Cover of Litter in Basin:** <1%

Days Since Last Rain 1-5

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1607

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Cotula coronopifolia - common brassbuttons
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Dichelostemma capitatum - bluedicks
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium cicutarium - redstem stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Hedypnois cretica - Cretanweed
Hypochaeris glabra - smooth cat's ear
Logfia gallica - narrowleaf cottonrose
Lomatium dasycarpum - Lace parsnip
Lysimachia arvensis - scarlet pimpernel
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Opuntia littoralis - coastal pricklypear
Phalaris minor - littleseed canarygrass
Pseudognaphalium canescens - Wright's cudweed
Psilocarphus brevissimus - woolly marble
Sonchus oleraceus - common sowthistle
Spergularia sp Sand spurrey
Stipa lepida - foothill needlegrass
Zeltnera venusta - charming centaury

Notes/Comments: None



Photo taken: 5/14/2019 Photo location is -117.0043841, 32.57817017 NAD83 State Plane California Zone 6 (feet)

urvey Year: 2019		Page 1 of 2
Complex Name: City_Robinhood_R	<b>VP_ID:</b> 1608	
Photopoint X: -117.00430015100	Photopoint Y: 32.57815746600	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 20.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 1.0	
019 Quantitative Monitoring Data		
Survey Date 5/10/2019	Survey Start Time: 10:58 AM	Survey End Time: 11:40 AM
Surveyors: Maya Mazon, Sean Pave	er	
VPHCP Covered Species Present: E	RAR	
Cover of ERAR in Basin 50-75%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Species	Name	Cover
Crassula aquatica - Ao	quatic pygmy weed	<1%
Deinandra fasciculata	- clustered tarweed	5-10%
Psilocarphus brevissir	nus - woolly marble	1-5%
Zeltnera venusta - c	harming centaury	<1%
Cover of Other Native Species in Ba	asin 50-75% Native Species Richr	ness in Basin: 5
Nonnative Species in Pool		
Species	Name	Cover
Bromus hordeace	us - soft brome	<1%
Bromus madritensis	- compact brome	<1%
Festuca myuros - rattail sixweeks grass		1-5%
Festuca perennis - Italian rye grass		<1%
Hainardia cylindrica		<1%
Hypochaeris glabra - smooth cat's ear		<1%
Logfia gallica - narrowleaf cottonrose		<1%
Lysimachia arvensis - scarlet pimpernel		<1%
Phalaris minor - littleseed canarygrass		<1%
Spergularia sp.		<1%

Days Since Last Rain 1-5

Ponded Water Present? no

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1608

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Cotula coronopifolia - common brassbuttons
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Erigeron canadensis - Canada horseweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium cicutarium - redstem stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Gastridium phleoides - nit grass
Hypochaeris glabra - smooth cat's ear
Linanthus dianthiflorus - ground pink
Logfia gallica - narrowleaf cottonrose
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Opuntia littoralis - coastal pricklypear
Phalaris minor - littleseed canarygrass
Pogogyne nudiuscula - Otay mesa mint
Polypogon monspeliensis - annual rabbitsfoot grass
Pseudognaphalium canescens - Wright's cudweed
Psilocarphus brevissimus - woolly marble
Rhus integrifolia - lemonade berry
Salsola tragus - prickly Russian thistle
Sonchus oleraceus - common sowthistle
Stipa lepida - foothill needlegrass
Zeltnera venusta - charming centaury

Notes/Comments: None



Photo taken: 5/14/2019 Photo location is -117.0043002, 32.57815747 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Robinhood_R	idge	VP_ID: 1609
Photopoint X: -117.00369189600	Photopoint Y: 32.57723260770	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 40.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/9/2019	Survey Start Time: 11:19 AN	A Survey End Time: 11:49 AM
Surveyors: Sara Allen , Lisa Wood		
VPHCP Covered Species Present:EF	RAR	
Cover of ERAR in Basin 50-75%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
<b>Other Native Species in Pool:</b>		
Species	Name	Cover
Deinandra fasciculata - clustered tarweed		1-5%
Psilocarphus brevissimus - woolly marble		25-50%
Cover of Other Native Species in Ba	asin 50-75% Native Species Rid	chness in Basin: 3
Nonnative Species in Pool		
Species	Name	Cover

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Erodium botrys - longbeak stork's bill	<1%
Festuca myuros - rattail sixweeks grass	<1%
Festuca perennis - Italian rye grass	<1%
Lysimachia arvensis - scarlet pimpernel	<1%
Lythrum hyssopifolia - hyssop loosestrife	<1%
Matricaria discoidea - pineapple weed	<1%

**Cover of Nonnative Species in Basin:** 1-5% Nonnative Species Richness in Basin: 7

Bare Ground Cover in Basin 5-10% **Cover of Rocks/Cobble in Basin:** 5-10% **Cover of Litter in Basin:** 1-5% Ponded Water Present? no

Days Since Last Rain 1-5

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1609

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name Artemisia californica - coastal sagebrush Bahiopsis laciniata - torhleaf goldeneye Brassica nigra - black mustard Bromus hordeaceus - soft brome
Bahiopsis laciniata - torhleaf goldeneye Brassica nigra - black mustard
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Calochortus dunnii - Dunn's mariposa lily
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Dittrichia graveolens - Stinkwort
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Logfia gallica - narrowleaf cottonrose
Mesembryanthemum nodiflorum - slender leaved ice plant
Opuntia littoralis - coastal pricklypear
Phalaris aquatica - harding Grass
Psilocarphus brevissimus - woolly marble
Rhus integrifolia - lemonade berry
Salsola tragus - prickly Russian thistle
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Stipa lepida - foothill needlegrass

Notes/Comments: Photopoint is point 189 in "My GPS" Collector App



Photo taken: 5/9/2019 Photo location is -117.0036919, 32.57723261 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Robinhood_Rid	lge	VP_ID: 1666
Photopoint X: -117.00472712500	Photopoint Y: 32.57792558100	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 60.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/14/2019	Survey Start Time: 11:07 AM	Survey End Time: 11:31 AM
Surveyors: Mark Berninger, Diana B	and Ramirez	
VPHCP Covered Species Present: ER	AR	
Cover of ERAR in Basin 25-50%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Species N	ame	Cover
Callitriche marginata - Cali	fornia water starwort	1-5%
Cylindropuntia prolife		<1%
Deinandra fasciculata -	clustered tarweed	<1%
Juncus bufonius		<1%
Psilocarphus brevissim	us - woolly marble	1-5%
Cover of Other Native Species in Bas	in 25-50% Native Species Richr	ess in Basin: 6
Nonnative Species in Pool		
Species N	Species Name	
Bromus hordeaceus - soft brome		<1%
Festuca myuros - rattail sixweeks grass		<1%
Gastridium phleoides - nit grass		<1%
Hainardia cylindrica		<1%
Matricaria discoidea - pineapple weed		<1%
Polypogon monspeliensis - a	Polypogon monspeliensis - annual rabbitsfoot grass	
Cover of Nonnative Species in Basin	1-5% Nonnative Species	Richness in Basin: 6
Bare Ground Cover in Basin 25-50%	Cover of Rocks/Cobble in Basin:	10-25% <b>Cover of Litter in Basin:</b> <1%
Days Since Last Rain 1-5	Ponded Water Present? yes	

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1666

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Beta vulgaris - beet
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Hainardia cylindrica - Thin tail
Lamarckia aurea - goldentop grass
Logfia gallica - narrowleaf cottonrose
Matricaria discoidea - pineapple weed
Mesembryanthemum crystallinum - common iceplant
Mesembryanthemum nodiflorum - slender leaved ice plant
Opuntia littoralis - coastal pricklypear
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Stephanomeria diegensis - San Diego milk aster
Zeltnera venusta - charming centaury

Notes/Comments: None



Photo taken: 5/174/2019 Photo location is -117.0047271, 32.57792558 NAD83 State Plane California Zone 6 (feet)

Photopoint X: -117.00444042500 Photopoint Y: 32.57795469730 Photopoint Established: 2018 2003 Baseline Survey Data Baseline Cover of ERAR: 0.5 Baseline Cover of NAFO: 0.0 Baseline Cover of ORCA: 0.0 Baseline Cover of POAB: 0.0 Baseline Cover of PONU: 0.0 2019 Quantitative Monitoring Data Survey Date 5/9/2019 Survey Start Time: 10:27 AM Survey End Time: 11:06 AM Surveyors: Sara Allen, Lisa Wood VPHCP Covered Species Present: ERAR Cover of ERAR in Basin 50-75% Cover of NAFO in Basin: Cover of ORCA in Basin Cover of POAB in Basin Cover of PONU in Basin Other Native Species in Pool:  Species Name Cover Deinandra fasciculata - clustered tarweed <1% Psilocarphus brevissimus - woolly marble 10-25% Zeltnera venusta - charming centaury <1% Cover of Other Native Species in Basin 50-75% Native Species Richness in Basin: 4 Nonnative Species in Pool Species Name Cover Bromus hordeaceus - soft brome <1% Festuca perennis - Italian rye grass <1% Festuca perennis - Italian rye grass <1% Matricaria discoidea - pineapple weed <1% Phalaris minor - littleseed canarygrass <1% Cover of Nonnative Species in Basin: 1-5% Nonnative Species Richness in Basin: 6 Bare Ground Cover in Basin 5-10% Cover of Rocks/Cobble in Basin: 10-25% Cover of Litter in Basin: <	vey Year: 2019		Page 1 of 2
2003 Baseline Survey Data         Baseline Cover of ERAR:       0.5       Baseline Cover of NAFO:       0.0       Baseline Cover of ORCA:       0.0         Baseline Cover of POAB:       0.0       Baseline Cover of PONU:       0.0         2019 Quantitative Monitoring Data       Survey Date 5/9/2019       Survey Start Time:       10:27 AM       Survey End Time:       11:06 AM         Survey Date 5/9/2019       Survey Start Time:       10:27 AM       Survey End Time:       11:06 AM         Survey of ERAR in Basin 50-75%       Cover of NAFO in Basin:       Cover of ORCA in Basin       Cover of ORCA in Basin         Cover of POAB in Basin       Cover of PONU in Basin       Cover       Cover         Deinandra fasciculata - clustered tarweed       <1%       Psilocarphus brevissimus - woolly marble       10-25%         Zeltnera venusta - charming centaury       <1%       Cover       Cover         Species in Basin       50-75%       Native Species Richness in Basin: 4       Nonnative Species in Basin       50-75%         Nonnative Species in Pool        <1%           Species Name       Cover            Species Name       Cover            Species in Pool        <1%	nplex Name: City_Robinhood_Ridg	e	VP_ID: 1667
Baseline Cover of ERAR:       0.5       Baseline Cover of NAFO:       0.0       Baseline Cover of PONU:       0.0         Baseline Cover of POAB:       0.0       Baseline Cover of PONU:       0.0       0.0         2019 Quantitative Monitoring Data       Survey Start Time:       10:27 AM       Survey End Time:       11:06 AM         Survey Date       5/9/2019       Survey Start Time:       10:27 AM       Survey End Time:       11:06 AM         Survey Sara Allen, Lisa Wood       VPHCP Covered Species Present:       ERAR       Cover of ORCA in Basin       Cover of ORCA in Basin         Cover of POAB in Basin       Cover of PONU in Basin       Cover of ORCA in Basin       Cover of ORCA in Basin         Other Native Species in Pool:	topoint X: -117.00444042500	Photopoint Y: 32.5779546973	0 Photopoint Established: 2018
Baseline Cover of POAB: 0.0 Baseline Cover of PONU: 0.0 2019 Quantitative Monitoring Data Survey Date 5/9/2019 Survey Start Time: 10:27 AM Survey End Time: 11:06 AM Surveyors: Sara Allen, Lisa Wood VPHCP Covered Species Present: ERAR Cover of ERAR in Basin 50-75% Cover of NAFO in Basin: Cover of ORCA in Basin Other Native Species in Pool: Cover of POAB in Basin Cover of PONU in Basin Other Native Species news Species Name Cover of Other Native Species in Basin 50-75% Native Species Richness in Basin: 4 Nonnative Species in Pool Species Name Cover Species Name Cover Species Name Cover Species in Basin 50-75% Native Species Richness in Basin: 4 Nonnative Species in Pool Species Name Cover S	3 Baseline Survey Data		
2019 Quantitative Monitoring Data         Survey Date 5/9/2019       Survey Start Time: 10:27 AM       Survey End Time: 11:06 AM         Surveyors: Sara Allen, Lisa Wood       VPHCP Covered Species Present: ERAR         Cover of ERAR in Basin 50-75%       Cover of NAFO in Basin:       Cover of ORCA in Basin         Cover of POAB in Basin       Cover of PONU in Basin       Cover of ORCA in Basin         Other Native Species in Pool:           Species Name       Cover          Deinandra fasciculata - clustered tarweed       <1%          Psilocarphus brevissimus - woolly marble       10-25%          Zeltnera venusta - charming centaury       <1%          Cover of Other Native Species in Basin       50-75%       Native Species Richness in Basin: 4         Nonnative Species in Pool            Cover of Other Native Species in Basin       50-75%       Native Species Richness in Basin: 4         Nonnative Species in Pool            Species Name       Cover            Festuca myuros - rattail sixweeks grass       <1%            Festuca aprennis - Italian rye grass       <1%	seline Cover of ERAR: 0.5	Baseline Cover of NAFO: 0.0	<b>Baseline Cover of ORCA:</b> 0.0
Survey Date 5/9/2019       Survey Start Time: 10:27 AM       Survey End Time: 11:06 AM         Surveyors: Sara Allen, Lisa Wood       VPHCP Covered Species Present: ERAR       Cover of NAFO in Basin:       Cover of ORCA in Basin         Cover of POAB in Basin       Cover of PONU in Basin       Cover of ORCA in Basin       Cover of ORCA in Basin         Other Native Species in Pool:       Cover of PONU in Basin       Cover         Deinandra fasciculata - clustered tarweed       <1%          Psilocarphus brevissimus - woolly marble       10-25%          Zeltnera venusta - charming centaury       <1%          Cover of Other Native Species in Basin       50-75%       Native Species Richness in Basin: 4         Nonnative Species in Pool       Species Name       Cover         Species Name       Cover       1%         Species Name       Cover       1%         Nonnative Species in Pool       Species Name       Cover         Species Name       Cover       1%         Speci	seline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	)
Surveyors: Sara Allen, Lisa Wood         VPHCP Covered Species Present: ERAR         Cover of ERAR in Basin 50-75%       Cover of NAFO in Basin:       Cover of ORCA in Basin         Cover of POAB in Basin       Cover of PONU in Basin       Cover of ORCA in Basin         Other Native Species in Pool:           Species Name       Cover          Deinandra fasciculata - clustered tarweed       <1%	9 Quantitative Monitoring Data		
VPHCP Covered Species Present: ERAR       Cover of NAFO in Basin:       Cover of ORCA in Basin         Cover of POAB in Basin       Cover of PONU in Basin       Cover of ORCA in Basin         Other Native Species in Pool:       Cover of PONU in Basin       Cover         Deinandra fasciculata - clustered tarweed       <1%	rvey Date 5/9/2019	Survey Start Time: 10:27 Al	M Survey End Time: 11:06 AM
Cover of ERAR in Basin 50-75% Cover of POAB in Basin Cover of POAB in BasinCover of ORCA in Basin Cover of PONU in BasinOther Native Species in Pool:Cover of PONU in BasinCoverSpecies NameCoverDeinandra fasciculata - clustered tarweed<1%	rveyors: Sara Allen, Lisa Wood		
Cover of POAB in BasinCover of PONU in BasinOther Native Species in Pool:Species NameCoverDeinandra fasciculata - clustered tarweed<1%	HCP Covered Species Present: ERA!	२	
Other Native Species in Pool:         Other Native Species in Pool:         Deinandra fasciculata - clustered tarweed       <1%         Psilocarphus brevissimus - woolly marble       10-25%         Zeltnera venusta - charming centaury       <1%         Cover of Other Native Species in Basin       50-75%       Native Species Richness in Basin: 4         Nonnative Species in Pool       Cover         Species Name       Cover         Bromus hordeaceus - soft brome       <1%         Erodium botrys - longbeak stork's bill       <1%         Festuca myuros - rattail sixweeks grass       <1%         Matricaria discoidea - pineapple weed       <1%         Matricaria discoidea - pineapple weed       <1%         Cover of Nonnative Species in Basin: 1-5%       Nonnative Species Richness in Basin: 6         Bare Ground Cover in Basin 5-10%       Cover of Rocks/Cobble in Basin: 10-25%       Cover of Litter in Basin:	Cover of ERAR in Basin 50-75%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Species NameCoverDeinandra fasciculata - clustered tarweed<1%	Cover of POAB in Basin	Cover of PONU in Basin	
Deinandra fasciculata - clustered tarweed<1%	her Native Species in Pool:		
Psilocarphus brevissimus - woolly marble       10-25%         Zeltnera venusta - charming centaury       <1%	Species Nar	ne	Cover
Zeltnera venusta - charming centaury<1%Cover of Other Native Species in Basin 50-75%Native Species Richness in Basin: 4Nonnative Species in PoolCoverSpecies NameCoverBromus hordeaceus - soft brome<1%Erodium botrys - longbeak stork's bill<1%Festuca myuros - rattail sixweeks grass<1%Festuca perennis - Italian rye grass<1%Matricaria discoidea - pineapple weed<1%Phalaris minor - littleseed canarygrass<1%Cover of Nonnative Species in Basin: 1-5%Nonnative Species Richness in Basin: 6Bare Ground Cover in Basin 5-10%Cover of Rocks/Cobble in Basin: 10-25%Cover of Litter in Basin: <	Deinandra fasciculata - cl	ustered tarweed	<1%
Cover of Other Native Species in Basin 50-75%       Native Species Richness in Basin: 4         Nonnative Species in Pool       Cover         Species Name       Cover         Bromus hordeaceus - soft brome       <1%	•		
Nonnative Species in PoolSpecies NameCoverBromus hordeaceus - soft brome<1%	Zeltnera venusta - char	ming centaury	<1%
Species NameCoverBromus hordeaceus - soft brome<1%	over of Other Native Species in Basir	50-75% Native Species Ri	ichness in Basin: 4
Bromus hordeaceus - soft brome<1%Erodium botrys - longbeak stork's bill<1%	onnative Species in Pool		
Erodium botrys - longbeak stork's bill<1%Festuca myuros - rattail sixweeks grass<1%	Species Nar	ne	Cover
Festuca myuros - rattail sixweeks grass<1%Festuca perennis - Italian rye grass<1%	Bromus hordeaceus	- soft brome	<1%
Festuca perennis - Italian rye grass       <1%	Erodium botrys - longbeak stork's bill		<1%
Matricaria discoidea - pineapple weed       <1%	Festuca myuros - rattail sixweeks grass		
Phalaris minor - littleseed canarygrass       <1%			
Cover of Nonnative Species in Basin: 1-5%Nonnative Species Richness in Basin: 6Bare Ground Cover in Basin 5-10%Cover of Rocks/Cobble in Basin: 10-25%Cover of Litter in Basin:			
Bare Ground Cover in Basin 5-10%Cover of Rocks/Cobble in Basin: 10-25%Cover of Litter in Basin: <	Phalaris minor - littleseed canarygrass		<1%
······································	over of Nonnative Species in Basin:	L-5% Nonnative Spec	cies Richness in Basin: 6
Days Since Last Rain 1-5 Ponded Water Present? no	re Ground Cover in Basin 5-10%	Cover of Rocks/Cobble in Basi	n: 10-25% Cover of Litter in Basin: <1%
	ays Since Last Rain 1-5	Ponded Water Present? no	)

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1667

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name         Artemisia californica - coastal sagebrush         Artemisia palmeri - San Diego sagewort         Avena fatua - wild oat         Bahiopsis laciniata - torhleaf goldeneye         Beta vulgaris - beet         Bromus hordeaceus - soft brome         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltees estar-thistle         Crassula connata - sand pygmywed         Quintorpountia prolifera - coastal cholla         Deinandra fasciculata - clustered tarweed         Erodium botrys - longbeak stork's bill         Erodium moschatum - Musky stork's bill         Erodium moschatum - Musky stork's bill         Eryngium aristulatum var. parishii - San Diego button celery         Festuca myuros - rattail sixweeks grass         Festuca myuros - rattail sixweeks grass         Logfia gallica - narrowleaf cottonrose         Lysimachia arvensis - scarlet pimpernel         Mirabilis laevis - desert wishbone bush         Opuntia littoralis - coastal pricklypear         Pseudographalium stramineum - cottonbatting plant         Salsola tragus - prickly Russian thistle         Sisyrinchium bellum - Western blue-eyed grass         Sonchus asper - spiny sowthistle         Sisyrinchium bellum - Western blue-eyed grass	
Artemisia palmeri - San Diego sagewort Avena fatua - wild oat Bahiopsis laciniata - torhleaf goldeneye Beta vulgaris - beet Brassica nigra - black mustard Bromus hordeaceus - soft brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Deinandra fasciculata - clustered tarweed Errogonum gracile - slender buckwheat Erodium botrys - longbeak stork's bill Erodium moschatum - Musky stork's bill Erodium moschatum - Musky stork's bill Erodium moschatum - Musky stork's bill Erogonum gracile - San Diego button celery Ferocactus viridescens - San Diego button celery Ferocactus viridescens - San Diego button celery Ferocactus artinatian rye grass Festuca apurons - rattail sixweeks grass Festuca apurons - rattail sixweek grass Lamarckia aurea - goldentop grass Lamarckia aurea - goldentop grass Lagita - anarowleaf cottonrose Lysimachia arvensis - scarlet pimpernel Mesembryanthemum nodiflorum - slender levade ice plant Mirabilis laevis - desert wishbone bush Opuntia littoralis - coastal pricklypear Pseudognaphalium stramineum - cottonbatting plant Salsola tragus - prickly Russian thistle Sisyrinchium bellum - Western blue-eyed grass Sonchus asper - spiny sowthistle	
Avena fatua - wild oatBahiopsis laciniata - torhleaf goldeneyeBeta vulgaris - beetBrassica nigra - black mustardBromus hordeaceus - soft bromeBromus madritensis - compact bromeCentaurea melitensis - Maltese star-thistleCylindropuntia prolifera - coastal chollaDeinandra fasciculata - clustered tarweedEroigonum gracile - slender buckwheatErodium botrys - longbeak stork's billEroyanum arstulatum var. parishii - San Diego button celeryFerocactus viridescens - San Diego button celeryFerocactus viridescens - San Diego button celeryFestuca myuros - rattali sixweeks grassFestuca myuros - rattali arye grassLugfia gallica - narrowleaf cottonroseLugfia gallica - anarowleaf cottonroseLysimachia arvensis - desert wishbone bushOpuntia littoralis - coastal pricklypearPseudognaphalium stramineum - cottonbatting plantSalsola tragus - prickly Russian thistleSisyrinchium bellum - Western blue-eyed grassSisyrinchium bellum - Sender leaved ice grassSisyrinchium bellum - cottonbatting plantSalsola tragus - prickly Russian thistleSisyrinchium bellum - cottonbatting plantSanchus asper - spiny sowthistleStipa lepida - foothill needlegrass	Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye Beta vulgaris - beet Brassica nigra - black mustard Bromus hordeaceus - soft brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Deinandra fasciculata - clustered tarweed Errogium gracile - slender buckwheat Erodium botrys - longbeak stork's bill Erodium moschatum - Musky stork's bill Erodium moschatum - Musky stork's bill Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Festuca perennis - Italian rye grass Hypochaeris glabra - smooth cat's ear Lamarckia aurea - goldentop grass Logfia gallica - narrowleaf cottonrose Lysimachia arvensis - scarlet pimpernel Mesembryanthemum nodiflorum - slender leaved ice plant Mirabilis laevis - desert wishbone bush Opuntia littoralis - coastal pricklypear Pseudognaphalium stramineum - cottonbatting plant Salsola tragus - pinky Russian thistle Sisyrinchium bellum - Western blue-eyed grass Sisyrinchium bellum - Western blue-eyed grass	Artemisia palmeri - San Diego sagewort
Beta vulgaris - beet         Brassica nigra - black mustard         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Crassula connata - sand pygmyweed         Cylindropuntia prolifera - coastal cholla         Deinandra fasciculata - clustered tarweed         Eriogonum gracile - slender buckwheat         Erodium botrys - longbeak stork's bill         Erodium moschatum - Musky stork's bill         Erodium moschatum - Musky stork's bill         Ferocactus viridescens - San Diego button celery         Ferocactus viridescens - San Diego button celery         Festuca myuros - rattail sixweeks grass         Festuca perennis - Italian rye grass         Hypochaeris glabra - smooth cat's ear         Logfia gallica - narrowleaf cottornose         Lysimachia arvensis - scarlet pimpernel         Mesembryanthemum nodiflorum - slender leaved ice plant         Mirabilis laevis - desert wishbone bush         Opuntia littoralis - coastal pricklypear         Pseudognaphalium stramineum - cottonbatting plant         Salsola tragus - prickly Russian thistle         Sisyrinchium bellum - Western blue-eyed grass         Sonchus asper - spiny sowthistle         Sitipa lepida - foothill needlegrass	Avena fatua - wild oat
Brassica nigra - black mustard         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Crassula connata - sand pygmywed         Cylindropuntia prolifera - coastal cholla         Deinandra fasciculata - clustered tarweed         Eriogonum gracile - slender buckwheat         Erodium botrys - longbeak stork's bill         Erodium moschatum - Musky stork's bill         Eryngium aristulatum var. parishii - San Diego button celery         Ferocactus viridescens - San Diego button celery         Festuca myuros - rattail sixweeks grass         Festuca perennis - Italian rye grass         Logfia gallica - narrowleaf cottonrose         Lysimachia arvensis - scarlet pimpernel         Mesembryanthemum nodiflorum - slender leaved ice plant         Mirabilis laevis - desert wishbone bush         Opuntia littoralis - coastal pricklypear         Pseudognaphalium stramineum - cottonbatting plant         Salsola tragus - prickly Russian thistle         Sisyrinchium bellum - Western blue-eyed grass         Sonchus asper - spiny sowthistle         Sitya lepida - foothill needlegrass	Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome Bromus madritensis - compact brome Centaurea melitensis - Maltese star-thistle Crassula connata - sand pygmyweed Cylindropuntia prolifera - coastal cholla Deinandra fasciculata - clustered tarweed Eriogonum gracile - slender buckwheat Erodium botrys - longbeak stork's bill Erodium moschatum - Musky stork's bill Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Hypochaeris glabra - smooth cat's ear Lamarckia aurea - goldentop grass Logfia gallica - narrowleaf cottonrose Lysimachia arvensis - scarlet pimpernel Mesembryanthemum nodiflorum - slender leaved ice plant Mirabilis laevis - desert wishbone bush Opuntia littoralis - coastal pricklypear Pseudognaphalium stramineum - cottonbatting plant Salsola tragus - prickly Russian thistle Sisyrinchium bellum - Western blue-eyed grass Sonchus asper - spiny sowthistle	Beta vulgaris - beet
Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Crassula connata - sand pygmyweed         Cylindropuntia prolifera - coastal cholla         Deinandra fasciculata - clustered tarweed         Eriogonum gracile - slender buckwheat         Erodium botrys - longbeak stork's bill         Erodium moschatum - Musky stork's bill         Eryngjum aristulatum var. parishii - San Diego button celery         Ferocactus viridescens - San Diego barrel cactus         Festuca myuros - rattail sixweeks grass         Festuca perennis - Italian rye grass         Hypochaeris glabra - smooth cat's ear         Lamarckia aurea - goldentop grass         Logfia gallica - narrowleaf cottonrose         Lysimachia arvensis - scarlet pimpernel         Mirabilis laevis - desert wishbone bush         Opuntia littoralis - coastal pricklypear         Pseudognaphalium stramineum - cottonbatting plant         Salsola tragus - prickly Russian thistle         Sisyrinchium bellum - Western blue-eyed grass         Sonchus asper - spiny sowthistle	Brassica nigra - black mustard
Centaurea melitensis - Maltese star-thistleCrassula connata - sand pygmyweedCylindropuntia prolifera - coastal chollaDeinandra fasciculata - clustered tarweedEriogonum gracile - slender buckwheatErodium botrys - longbeak stork's billErodium moschatum - Musky stork's billEryngium aristulatum var. parishii - San Diego button celeryFerocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassFestuca perennis - Italian rye grassHypochaeris glabra - smooth cat's earLogfia gallica - narrowleaf cottonroseLysimachia arvensis - scarlet pimpernelMirabilis laevis - desert wishbone bushOpuntia littoralis - coastal pricklypearPseudognaphalium stramineum - cottonbatting plantSalsola tragus - prickly Russian thistleSisyrinchium bellum - Western blue-eyed grassSonchus asper - spiny sowthistleStipa lepida - foothill needlegrass	Bromus hordeaceus - soft brome
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Pseudognaphalium stramineum - cottonbatting plant Salsola tragus - prickly Russian thistle Sisyrinchium bellum - Western blue-eyed grass Sonchus asper - spiny sowthistle Stipa lepida - foothill needlegrass	Mirabilis laevis - desert wishbone bush
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Sisyrinchium bellum - Western blue-eyed grass Sonchus asper - spiny sowthistle Stipa lepida - foothill needlegrass	Pseudognaphalium stramineum - cottonbatting plant
Sonchus asper - spiny sowthistle Stipa lepida - foothill needlegrass	Salsola tragus - prickly Russian thistle
Stipa lepida - foothill needlegrass	Sisyrinchium bellum - Western blue-eyed grass
	Sonchus asper - spiny sowthistle
Zeltnera venusta - charming centaury	Stipa lepida - foothill needlegrass
	Zeltnera venusta - charming centaury

Notes/Comments: None



Photo taken: 5/9/2019 Photo location is -117.00444042500, 32.57795469730 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Robinhood_	Ridge	VP_ID: 1668
Photopoint X: -117.00382976200	Photopoint Y: 32.57814166390	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 75.0	Baseline Cover of NAFO: 0.5	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	<b>Baseline Cover of PONU:</b> 5.0	
2019 Quantitative Monitoring Dat	a	
Survey Date 5/9/2019	Survey Start Time: 10:32 AM	Survey End Time: 11:17 AM
Surveyors: Jason Allen, Jessie Lar	e	
VPHCP Covered Species Present:	ERAR,PONU,NAFO	
Cover of ERAR in Basin 50-75	% Cover of NAFO in Basin: <1%	6 Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin <19	6
Other Native Species in Pool:		
Specie	s Name	Cover
Callitriche marginata - California water starwort		<1%
Deinandra fasciculata - clustered tarweed		5-10%
Deschampsia danthonioides - annual hairgrass		<1%
Juncus bufonius - toad rush		<1%
Myosurus minimus - little mouse tail		<1%
Pseudognaphalium stramineum - cottonbatting plant		<1%
Psilocarphus brevissimus - woolly marble		4 = 0/
Psilocarphus breviss	imus - woolly marble	1-5%

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Bromus madritensis - compact brome	<1%
Erodium botrys - longbeak stork's bill	<1%
Festuca myuros - rattail sixweeks grass	<1%
Festuca perennis - Italian rye grass	<1%
Lysimachia arvensis - scarlet pimpernel	<1%
Lythrum hyssopifolia - hyssop loosestrife	<1%
Phalaris minor - littleseed canarygrass	<1%
Polypogon monspeliensis - annual rabbitsfoot grass	<1%
Sonchus asper - spiny sowthistle	<1%

Cover of Nonnative Species in Basin: 1-5% Nonnative Species Richness in Basin: 10

Bare Ground Cover in Basin10-25%Cover of Rocks/Cobble in Basin:5-10%Cover of Litter in Basin:<1%</th>

Days Since Last Rain 1-5

Ponded Water Present? no

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1668

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name         Artemisia californica - coastal sagebrush         Bahiopsis laciniata - torhleaf goldeneye         Brassica nigra - black mustard         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Chamaesyce maculata - spotted spurge         Chenopodium murale - nettleleaf goosefoot         Cylindropuntia californica - California cholla         Deinandra fasciculata - clustered tarweed         Deschampsia danthonioides - annual hairgrass         Eriogonum fasciculatum - Eastern Mojave buckwheat         Eroigum aristulatum var. parishii - San Diego batron celery         Ferocactus viridescens - San Diego barrel cactus         Festuca perennis - Italian rye grass         Isocoma menziesii - Menzies' goldenbush         Lysimachia arvensis - scarlet pimpernel         Matricaria discoidea - pineapple weed         Mesembryanthemum crystallinum - common iceplant         Mesembryanthemum odifforum - slender leaved lex plant         Phalaris minor - littleseed caarygrass         Pseudognaphalium stramineum - cottonbatting plant         Psilocarphus brevissimus - wolly marble         Salvia mellifera - black sage         Sonchus asper - spinky sowthistle         Salvia mellifera - black sage         Sonchus	
Bahiopsis laciniata - torhleaf goldeneye Brassica nigra - black mustard Bromus hordeaceus - soft brome Centaurea melitensis - compact brome Centaurea melitensis - Maltese star-thistle Chamaesyce maculata - spotted spurge Chenopodium murale - nettleleaf goosefoot Cylindropuntia california cholla Deinandra fasciculata - clustered tarweed Deschampsia danthonioides - annual hairgrass Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Erryngium aristulatum var. parishii - San Diego butro celery Ferocactus viridescens - San Diego barrel cactus Festuca perennis - Italian rye grass Isocoma menziesii - Menzies' goldenbush Lysimachia arvensis - scarlet pimpernel Matricaria discoidea - pineapple weed Mesembryanthemum crystallinum - common iceplant Mirabilis laevis - desert wishbone bush Phalaris minor - littlesed canargrass Pseudognaphalium stramineum - cottonbatting plant Psilocarphus brevisimus - woolly marble Salsola tragus - prickly Russian thistle Salsola tragus - prickly Russian thistle Salsola tragus - prickly Russian thistle Salsola tragus - prickly Russian thistle Salvia mellifera - black sage Sonchus asper - spiny sowthistle Spergularia villosa - hairy sand spurry Stephanomeria diegensis - San Diego milk aster	Species Name
Brassica nigra - black mustard         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Chamaesyce maculata - spotted spurge         Chenopodium murale - nettleleaf goosefoot         Cylindropuntia californica - California cholla         Deinandra fasciculata - clustered tarweed         Deschampsia danthonioides - annual hairgrass         Eriogonum fasciculatum - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Eryngium aristulatum var. parishii - San Diego button celery         Ferocactus viridescens - San Diego batton celery         Micraita discoidea - pineapple weed         Matricaria discoidea - pineapple weed         Mesembryanthemum crystallinum - common iceplant         Mesembryanthemum crystallinum - cottonbatting plant         Pseudognaphalium stramineum - cottonbatting plant         Psilocarphus brevissimus - woolly marble         Salsola tragus - prickly Russian thistle         Salsola tragus - prickly Russian thistle         Salsola tragus - prikusi vad spurry <td< td=""><td>Artemisia californica - coastal sagebrush</td></td<>	Artemisia californica - coastal sagebrush
Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Centaurea melitensis - Maltese star-thistle         Chenopodium murale - nettleleaf goosefoot         Cylindropuntia californica - California cholla         Deinandra fasciculata - clustered tarweed         Deschampsia danthonioides - annual hairgrass         Eriogonum fasciculatum - Eastern Mojave buckwheat         Eroidum botrys - longbeak stork's bill         Eryngium aristulatum var. parishii - San Diego button celery         Ferocactus viridescens - San Diego button celery         Isocoma menziesii - Menzies' goldenbush         Lysimachia arvensis - scarlet pimpernel         Matricaria discoidea - pineapple weed         Mirabilis laevis - desert wishbone bush         Phalaris minor - littleseed canarygrass         Pseudognaphalium stramineum - cottonbatting plant         Psilocarphus brevissimus - woolly marble         Salsola tragus - prickly Russian thistle         Salsola tragus - prikkl vasian thistle         Salsola tragus - prikkl vasian thistle         Salsola tragus - prisowthistle         Sonchus asp	Bahiopsis laciniata - torhleaf goldeneye
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Stephanomeria diegensis - San Diego milk aster	
· • •	Spergularia villosa - hairy sand spurry
Stipa lepida - foothill needlegrass	· • •
	Stipa lepida - foothill needlegrass

Notes/Comments: None



Photo taken: 5/9/2019 Photo location is -117.00382976200, 32.57814166390 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Robinhood_Ri	dge	VP_ID: 1669
Photopoint X: -117.00393568000	Photopoint Y: 32.57803266000	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 45.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/9/2019	Survey Start Time: 11:32 AM	Survey End Time: 12:10 PM
Surveyors: Jason Allen, Jessie Lane		
VPHCP Covered Species Present:ER	AR	
Cover of ERAR in Basin 25-50%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
<b>Other Native Species in Pool:</b>		
Species Name		Cover
Callitriche marginata - Cal	ifornia water starwort	<1%
Cylindropuntia californi	ca - California cholla	<1%
Deinandra fasciculata	clustered tarweed	1-5%
Deschampsia danthonioi	des - annual hairgrass	<1%
Juncus bufonius - toad rush		<1%
Psilocarphus brevissimus - woolly marble		1-5%
Zeltnera venusta - cł	narming centaury	<1%
Cover of Other Native Species in Ba	sin 25-50% Native Species Richn	ess in Basin: 8
Nonnative Species in Pool		
Species N	Jame	Cover
Bromus hordeaceus - soft brome		<1%
Bromus madritensis - compact brome		<1%

Bromus madritensis - compact brome <1%
Centaurea melitensis - Maltese star-thistle <1%
Erodium botrys - longbeak stork's bill <1%
Festuca myuros - rattail sixweeks grass <1%
Festuca perennis - Italian rye grass <1%
Lysimachia arvensis - scarlet pimpernel <1%
Phalaris minor - littleseed canarygrass <1%

**Cover of Nonnative Species in Basin:** 1-5%

Nonnative Species Richness in Basin: 8

Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: 1-5%

Ponded Water Present? no

**Cover of Litter in Basin:** <1%

Days Since Last Rain 1-5

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1669

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name         Artemisia californica - coastal sagebrush         Avena barbata - slender oat         Bahiopsis laciniata - torhleaf goldeneye         Brassica nigra - black mustard         Bromus madritensis - compact brome         Centaurea melitensis - compact brome         Centaurea melitensis - mate star-thistle         Chenopodium murale - nettleleaf goosefoot         Crassula connata - sand pygmyweed         Cylindropuntia californica - California cholla         Deinandra fasciculata - clustered tarweed         Deschampsia danthonioides - annual hargrass         Encelia californica - California brittlebush         Erroigonum fasciculatum var. parishii - San Diego button celery         Ferocactus viridescens - San Diego batton celery         Feroca	
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Cylindropuntia californica - California cholla Deinandra fasciculata - clustered tarweed Deschampsia danthonioides - annual hairgrass Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Festuca perennis - Italian rye grass Lysimachia arvensis - scarlet pimpernel Lythrum hyssopifolia - hyssop loosestrife Mesembryanthemum nodiflorum - slender leaved ice plant Myosurus minimus - little mouse tail Navarretia fossalis - Spreading navarretia Phytolacca americana - Pokeweed Pogogyne nudiuscula - Otay mesa mint Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Salsola tragus - prickly Russian thistle Salsola tragus - prickly Russian thistle Salvia mellifera - black sage	
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Deschampsia danthonioides - annual hairgrassEncelia californica - California brittlebushEriogonum fasciculatum - Eastern Mojave buckwheatEryngium aristulatum var. parishii - San Diego button celeryFerocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassFestuca perennis - Italian rye grassLysimachia arvensis - scarlet pimpernelLythrum hyssopifolia - hyssop loosestrifeMesembryanthemum nodiflorum - slender leaved ice plantMyosurus minimus - little mouse tailNavarretia fossalis - Spreading navarretiaPhytolacca americana - PokeweedPogogyne nudiuscula - Otay mesa mintPseudognaphalium beneolens - cudweedPsilocarphus brevissimus - woolly marbleSalsola tragus - prickly Russian thistleSalvia mellifera - black sageSonchus asper - spiny sowthistleStipa pulchra - purple needlegrass	Cylindropuntia californica - California cholla
Encelia californica - California brittlebush Eriogonum fasciculatum - Eastern Mojave buckwheat Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Festuca perennis - Italian rye grass Lysimachia arvensis - scarlet pimpernel Lythrum hyssopifolia - hyssop loosestrife Mesembryanthemum nodiflorum - slender leaved ice plant Myosurus minimus - little mouse tail Navarretia fossalis - Spreading navarretia Phytolacca americana - Pokeweed Pogogyne nudiuscula - Otay mesa mint Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Salsola tragus - prickly Russian thistle Salvia mellifera - black sage Sonchus asper - spiny sowthistle	Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat Eryngium aristulatum var. parishii - San Diego button celery Ferocactus viridescens - San Diego barrel cactus Festuca myuros - rattail sixweeks grass Festuca perennis - Italian rye grass Lysimachia arvensis - scarlet pimpernel Lythrum hyssopifolia - hyssop loosestrife Mesembryanthemum nodiflorum - slender leaved ice plant Myosurus minimus - little mouse tail Navarretia fossalis - Spreading navarretia Phytolacca americana - Pokeweed Pogogyne nudiuscula - Otay mesa mint Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Salsola tragus - prickly Russian thistle Salsola tragus - prickly Russian thistle Salvia mellifera - black sage Sonchus asper - spiny sowthistle	Deschampsia danthonioides - annual hairgrass
Eryngium aristulatum var. parishii - San Diego button celeryFerocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassFestuca perennis - Italian rye grassLysimachia arvensis - scarlet pimpernelLythrum hyssopifolia - hyssop loosestrifeMesembryanthemum nodiflorum - slender leaved ice plantMyosurus minimus - little mouse tailNavarretia fossalis - Spreading navarretiaPhytolacca americana - PokeweedPogogyne nudiuscula - Otay mesa mintPseudognaphalium beneolens - cudweedPsilocarphus brevissimus - woolly marbleSalsola tragus - prickly Russian thistleSalvia mellifera - black sageSonchus asper - spiny sowthistleStipa pulchra - purple needlegrass	Encelia californica - California brittlebush
Ferocactus viridescens - San Diego barrel cactusFestuca myuros - rattail sixweeks grassFestuca perennis - Italian rye grassLysimachia arvensis - scarlet pimpernelLythrum hyssopifolia - hyssop loosestrifeMesembryanthemum nodiflorum - slender leaved ice plantMyosurus minimus - little mouse tailNavarretia fossalis - Spreading navarretiaPhytolacca americana - PokeweedPogogyne nudiuscula - Otay mesa mintPseudognaphalium beneolens - cudweedPsilocarphus brevissimus - woolly marbleSalsola tragus - prickly Russian thistleSalvia mellifera - black sageSonchus asper - spiny sowthistleStipa pulchra - purple needlegrass	Eriogonum fasciculatum - Eastern Mojave buckwheat
Festuca myuros - rattail sixweeks grassFestuca perennis - Italian rye grassLysimachia arvensis - scarlet pimpernelLythrum hyssopifolia - hyssop loosestrifeMesembryanthemum nodiflorum - slender leaved ice plantMyosurus minimus - little mouse tailNavarretia fossalis - Spreading navarretiaPhytolacca americana - PokeweedPogogyne nudiuscula - Otay mesa mintPseudognaphalium beneolens - cudweedPsilocarphus brevissimus - woolly marbleSalsola tragus - prickly Russian thistleSalvia mellifera - black sageSonchus asper - spiny sowthistleStipa pulchra - purple needlegrass	Eryngium aristulatum var. parishii - San Diego button celery
Festuca perennis - Italian rye grassLysimachia arvensis - scarlet pimpernelLythrum hyssopifolia - hyssop loosestrifeMesembryanthemum nodiflorum - slender leaved ice plantMyosurus minimus - little mouse tailNavarretia fossalis - Spreading navarretiaPhytolacca americana - PokeweedPogogyne nudiuscula - Otay mesa mintPseudognaphalium beneolens - cudweedPsilocarphus brevissimus - woolly marbleSalsola tragus - prickly Russian thistleSalvia mellifera - black sageSonchus asper - spiny sowthistleStipa pulchra - purple needlegrass	Ferocactus viridescens - San Diego barrel cactus
Lysimachia arvensis - scarlet pimpernel Lythrum hyssopifolia - hyssop loosestrife Mesembryanthemum nodiflorum - slender leaved ice plant Myosurus minimus - little mouse tail Navarretia fossalis - Spreading navarretia Phytolacca americana - Pokeweed Pogogyne nudiuscula - Otay mesa mint Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Salsola tragus - prickly Russian thistle Salvia mellifera - black sage Sonchus asper - spiny sowthistle Stipa pulchra - purple needlegrass	Festuca myuros - rattail sixweeks grass
Lythrum hyssopifolia - hyssop loosestrife Mesembryanthemum nodiflorum - slender leaved ice plant Myosurus minimus - little mouse tail Navarretia fossalis - Spreading navarretia Phytolacca americana - Pokeweed Pogogyne nudiuscula - Otay mesa mint Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Salsola tragus - prickly Russian thistle Salvia mellifera - black sage Sonchus asper - spiny sowthistle Stipa pulchra - purple needlegrass	Festuca perennis - Italian rye grass
Mesembryanthemum nodiflorum - slender leaved ice plant Myosurus minimus - little mouse tail Navarretia fossalis - Spreading navarretia Phytolacca americana - Pokeweed Pogogyne nudiuscula - Otay mesa mint Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Salsola tragus - prickly Russian thistle Salvia mellifera - black sage Sonchus asper - spiny sowthistle Stipa pulchra - purple needlegrass	Lysimachia arvensis - scarlet pimpernel
Myosurus minimus - little mouse tailNavarretia fossalis - Spreading navarretiaPhytolacca americana - PokeweedPogogyne nudiuscula - Otay mesa mintPseudognaphalium beneolens - cudweedPsilocarphus brevissimus - woolly marbleSalsola tragus - prickly Russian thistleSalvia mellifera - black sageSonchus asper - spiny sowthistleStipa pulchra - purple needlegrass	Lythrum hyssopifolia - hyssop loosestrife
Navarretia fossalis - Spreading navarretiaPhytolacca americana - PokeweedPogogyne nudiuscula - Otay mesa mintPseudognaphalium beneolens - cudweedPsilocarphus brevissimus - woolly marbleSalsola tragus - prickly Russian thistleSalvia mellifera - black sageSonchus asper - spiny sowthistleStipa pulchra - purple needlegrass	Mesembryanthemum nodiflorum - slender leaved ice plant
Phytolacca americana - Pokeweed Pogogyne nudiuscula - Otay mesa mint Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Salsola tragus - prickly Russian thistle Salvia mellifera - black sage Sonchus asper - spiny sowthistle Stipa pulchra - purple needlegrass	Myosurus minimus - little mouse tail
Pogogyne nudiuscula - Otay mesa mint Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Salsola tragus - prickly Russian thistle Salvia mellifera - black sage Sonchus asper - spiny sowthistle Stipa pulchra - purple needlegrass	Navarretia fossalis - Spreading navarretia
Pseudognaphalium beneolens - cudweed Psilocarphus brevissimus - woolly marble Salsola tragus - prickly Russian thistle Salvia mellifera - black sage Sonchus asper - spiny sowthistle Stipa pulchra - purple needlegrass	Phytolacca americana - Pokeweed
Psilocarphus brevissimus - woolly marble Salsola tragus - prickly Russian thistle Salvia mellifera - black sage Sonchus asper - spiny sowthistle Stipa pulchra - purple needlegrass	Pogogyne nudiuscula - Otay mesa mint
Salsola tragus - prickly Russian thistle Salvia mellifera - black sage Sonchus asper - spiny sowthistle Stipa pulchra - purple needlegrass	Pseudognaphalium beneolens - cudweed
Salvia mellifera - black sage Sonchus asper - spiny sowthistle Stipa pulchra - purple needlegrass	Psilocarphus brevissimus - woolly marble
Sonchus asper - spiny sowthistle Stipa pulchra - purple needlegrass	Salsola tragus - prickly Russian thistle
Stipa pulchra - purple needlegrass	Salvia mellifera - black sage
	Sonchus asper - spiny sowthistle
Zeltnera venusta - charming centaury	Stipa pulchra - purple needlegrass
	Zeltnera venusta - charming centaury

Notes/Comments: None



Photo taken: 5/9/2019 Photo location is -117.0039357, 32.57803266 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019				Page 1 of 2
Complex Name: City_Rob	inhood_Ri	dge		VP_ID: 1670
Photopoint X: -117.00404	593600	Photopoint Y: 32.5776925	8100	Photopoint Established: 2019
2003 Baseline Survey Data	1			
Baseline Cover of ERAR:	5.0	Baseline Cover of NAFO:	0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB:	0.0	Baseline Cover of PONU:	1.0	
2019 Quantitative Monito	ring Data			
Survey Date 5/9/2019		Survey Start Time: 1:48	8 PM	Survey End Time: 2:20 PM
Surveyors: Jason Allen, Ja	essie Lane			
VPHCP Covered Species	Present: ER	AR,POAB		
Cover of ERAR in Basin 2	5-50%	Cover of NAFO in Bas	in:	Cover of ORCA in Basin
Cover of POAB in Basin	<1%	Cover of PONU in Bas	in	
Other Native Species in F	<u>Pool:</u>			
	Species N	lame		Cover
Deinandra f	asciculata -	clustered tarweed		5-10%
Psilocarphu	s brevissim	us - woolly marble		1-5%
Zeltnera v	venusta - ch	arming centaury		<1%
Cover of Other Native Sp	ecies in Ba	sin 25-50% Native Specie	es Richi	ness in Basin: 4
Nonnative Species in Poo	<u>bl</u>			
_	Species N	lame		Cover
Atriplex sem	-	Australian saltbush		<1%
Bromus hordeaceus - soft brome		<1%		
Bromus madritensis - compact brome		<1%		
Centaurea melitensis - Maltese star-thistle		<1%		
Erodium botrys - longbeak stork's bill		<1%		
Festuca myuros - rattail sixweeks grass		<1%		
Festuca perennis - Italian rye grass		<1%		
Logfia gallica - narrowleaf cottonrose		<1%		
Lysimachia	Lysimachia arvensis - scarlet pimpernel		<1%	
	-	hyssop loosestrife		<1%
Phalaris m	inor - littles	seed canarygrass		<1%

**Cover of Nonnative Species in Basin:** 1-5%

Nonnative Species Richness in Basin: 11

Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: 10-25% Cover of Litter in Basin: <1%

Ponded Water Present? no

Days Since Last Rain 1-5

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1670

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Atriplex semibaccata - Australian saltbush
Bahiopsis laciniata - torhleaf goldeneye
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Chenopodium murale - nettleleaf goosefoot
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Mesembryanthemum nodiflorum - slender leaved ice plant
Mirabilis laevis - desert wishbone bush
Opuntia littoralis - coastal pricklypear
Phalaris minor - littleseed canarygrass
Psilocarphus brevissimus - woolly marble
Rhus integrifolia - lemonade berry
Salsola tragus - prickly Russian thistle
Salvia mellifera - black sage
Sisymbrium sp mustard
Sonchus asper - spiny sowthistle
Stephanomeria diegensis - San Diego milk aster
Stipa lepida - foothill needlegrass
Zeltnera venusta - charming centaury

Notes/Comments: Photopoint is point 191 in "My GPS" Collector App



Photo taken: 5/9/2019 Photo location is -117.0040459, 32.57769258 NAD83 State Plane California Zone 6 (feet)

urvey Year: 2019		Page 1 of 2
Complex Name: City_Robinhood_Ridge		VP_ID: 1671
hotopoint X: -117.00418941900	Photopoint Y: 32.57811877200	Photopoint Established: 2019
003 Baseline Survey Data		
Baseline Cover of ERAR: 85.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	<b>Baseline Cover of PONU:</b> 1.0	
019 Quantitative Monitoring Data		
Survey Date 5/10/2019	Survey Start Time: 10:04 AM	Survey End Time: 10:47 AM
Surveyors: Jason Allen, Sara Allen,	Sean Paver, Holly Smit-Kicklighter, J	ane Marie Fajardo, Maya
Mazon VPHCP Covered Species Pro	esent: ERAR	
Cover of ERAR in Basin 50-75%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Species	Name	Cover
Cylindropuntia proli	fera - coastal cholla	<1%
Deinandra fasciculata	- clustered tarweed	1-5%
Myosurus minimus	- little mouse tail	<1%
Psilocarphus brevissimus - woolly marble		1-5%
Cover of Other Native Species in B	asin 50-75% Native Species Ric	hness in Basin: 5
Nonnative Species in Pool		
Species	Name	Cover
Bromus hordeace	eus - soft brome	<1%
Bromus madritensis	s - compact brome	<1%
Erodium botrys - lo	ngbeak stork's bill	<1%
Festuca perennis -	Italian rye grass	<1%
Gastridium phleo	pides - nit grass	<1%
Logfia gallica - narro	owleaf cottonrose	<1%
Lysimachia arvensis	<1%	
Matricaria discoidea - pineapple weed		<1%
Phalaris minor - littleseed canarygrass		<1%
Polypogon monspeliensis - annual rabbitsfoot grass		<1%
Sonchus oleraceus - common sowthistle		<1%
Solicitus oleraceus	aria sp.	<1%

Dead Species Present in Pool: Artemisia californica

Page 423

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1671

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Baccharis sarothroides - desertbroom
Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Dittrichia graveolens - Stinkwort
Encelia californica - California brittlebush
Erigeron canadensis - Canada horseweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Lysimachia arvensis - scarlet pimpernel
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Opuntia littoralis - coastal pricklypear
Psilocarphus tenellus - short woollyheads
Rhus integrifolia - lemonade berry
Stipa lepida - foothill needlegrass
Zeltnera venusta - charming centaury

Notes/Comments: Sara Allen emailed photos to Jason Allen



Photo taken: 5/10/2019 Photo location is -117.0041894, 32.57811877 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Robinhood_	Ridge	VP_ID: 1672
Photopoint X: -117.00401425200	Photopoint Y: 32.5777182810	0 Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 1.0	Baseline Cover of NAFO: 0.0	0 Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	0
2019 Quantitative Monitoring Data	l	
Survey Date 5/9/2019	Survey Start Time: 2:27 PN	1 Survey End Time: 2:43 PM
Surveyors: Jason Allen, Jessie Lan	e	
VPHCP Covered Species Present:	ERAR	
Cover of ERAR in Basin 10-259	6 Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Species Name		Cover
Deinandra fasciculat	a - clustered tarweed	1-5%
Psilocarphus breviss	imus - woolly marble	<1%
Cover of Other Native Species in I	Basin 10-25% Native Species R	ichness in Basin: 3
Nonnative Species in Pool		
Species	s Name	Cover
Bromus hordead	eus - soft brome	<1%

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Bromus madritensis - compact brome	1-5%
Erodium botrys - longbeak stork's bill	<1%
Festuca myuros - rattail sixweeks grass	1-5%
Festuca perennis - Italian rye grass	1-5%
Phalaris minor - littleseed canarygrass	<1%
Sonchus asper - spiny sowthistle	<1%

Cover of Nonnative Species in Basin: 5-10% Nonnative Species Richness in Basin: 7

Bare Ground Cover in Basin 5-10%Cover of Rocks/Cobble in Basin: 10-25%Cover of Litter in Basin: <1%</th>

Days Since Last Rain 1-5

Ponded Water Present? no

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1672

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Avena barbata - slender oat
Baccharis sarothroides - desertbroom
Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Glebionis coronaria - crown daisy
Lysimachia arvensis - scarlet pimpernel
Mesembryanthemum crystallinum - common iceplant
Phalaris minor - littleseed canarygrass
Salsola tragus - prickly Russian thistle
Stipa lepida - foothill needlegrass

Notes/Comments: Photopoint is point 193 in "My GPS" Collector App



Photo taken: 5/9/2019 Photo location is -117.0040143, 32.57771828 NAD83 State Plane California Zone 6 (feet)

urvey Year: 2019		Page 1 of 2	
Complex Name: City_Robinhood_Rid	lge	VP_ID: 1673	
Photopoint X: -117.00382415600	Photopoint Y: 32.57735436770	Photopoint Established: 2019	
2003 Baseline Survey Data			
Baseline Cover of ERAR: 80.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0		
2019 Quantitative Monitoring Data			
Survey Date 5/9/2019	Survey Start Time: 2:45 PM	Survey End Time: 3:03 PM	
Surveyors: Jason Allen, Jessie Lane			
VPHCP Covered Species Present: ER	AR		
Cover of ERAR in Basin 25-50%	Cover of NAFO in Basin:	Cover of ORCA in Basin	
Cover of POAB in Basin	Cover of PONU in Basin		
<b>Other Native Species in Pool:</b>			
Species N	ame	Cover	
Callitriche marginata - California water starwort		<1%	
Deinandra fasciculata - clustered tarweed		1-5%	
Juncus bufonius - toad rush		<1%	
Psilocarphus brevissimus - woolly marble		5-10%	
Cover of Other Native Species in Bas	in 25-50% Native Species Ric	hness in Basin: 5	
Nonnative Species in Pool			
Species N	ame	Cover	
Bromus hordeaceu	s - soft brome	<1%	
Bromus madritensis -	compact brome	<1%	
Erodium botrys - longbeak stork's bill		50-75%	
Festuca myuros - rattail sixweeks grass		<1%	
Festuca perennis - Italian rye grass		<1%	
Lythrum hyssopifolia - hyssop loosestrife		<1%	
Phalaris minor - littleseed canarygrass		<1%	
Polypogon monspeliensis - a	nnual rabbitsfoot grass	<1%	
Cover of Nonnative Species in Basin	S0-75% Nonnative Speci	es Richness in Basin: 8	
Bare Ground Cover in Basin 25-50%	Cover of Rocks/Cobble in Basin	: 5-10% Cover of Litter in Basin: <1%	

Survey Year: 2019	Page 2 of
Complex Name: City_Robinhood_Ridge	<b>VP_ID: 1</b> 0
2019 Quantitative Monitoring Data continued	
Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)	
Consider Norma	

Artemisia californica - coastal sagebrush
Atripley comitescate Australian calthuch
Atriplex semibaccata - Australian saltbush
Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Hypochaeris glabra - smooth cat's ear
Logfia gallica - narrowleaf cottonrose
Mesembryanthemum nodiflorum - slender leaved ice plant
Phalaris minor - littleseed canarygrass
Salsola tragus - prickly Russian thistle
Simmondsia chinensis - jojoba

Notes/Comments: Photopoint is point 195 in "My GPS" Collector App

Page 2 of 2

673



Photo taken: 5/9/2019 Photo location is -117.0038242, 32.57735437 NAD83 State Plane California Zone 6 (feet)
Survey Year: 2019	Page 1 o		
Complex Name: City_Robinhood_Ri	dge	VP_ID: 1675	
Photopoint X: -117.00456870700	Photopoint Y: 32.57776448000	Photopoint Established: 2019	
2003 Baseline Survey Data			
Baseline Cover of ERAR: 80.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0		
2019 Quantitative Monitoring Data			
Survey Date 5/14/2019	Survey Start Time: 10:09 AM	Survey End Time:	
Surveyors: Mark Berninger, Diana B	rand Ramirez		
VPHCP Covered Species Present: EF	RAR		
Cover of ERAR in Basin 50-75%	Cover of NAFO in Basin:	Cover of ORCA in Basin	
Cover of POAB in Basin	Cover of PONU in Basin		
Other Native Species in Pool:			
Species I	Name	Cover	
Cylindropuntia prolife	Cylindropuntia prolifera - coastal cholla		
Deinandra fasciculata	Deinandra fasciculata - clustered tarweed		
Cover of Other Native Species in Ba Nonnative Species in Pool			
Species Name		Cover <1%	
Bromus hordeaceus - soft brome Bromus madritensis - compact brome		<1%	
Erodium botrys - longbeak stork's bill		<1%	
Festuca myuros - rattail sixweeks grass		1-5%	
Glebionis coronari	-	<1%	
Hypochaeris glabra -	•	<1%	
Lamarckia aurea - e	oldentop grass	<1%	

Lamarckia aurea - goldentop grass	<1%
Logfia gallica - narrowleaf cottonrose	<1%
Matricaria discoidea - pineapple weed	<1%
Mesembryanthemum crystallinum - common iceplant	<1%
Sonchus asper - spiny sowthistle	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 11

Bare Ground Cover in Basin 25-50% Cover of Rocks/Cobble in Basin: 25-50% Cover of Litter in Basin: 1-5%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1675

### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Chenopodium murale - nettleleaf goosefoot
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Dichelostemma capitatum - bluedicks
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Opuntia littoralis - coastal pricklypear
Phacelia minor - California bluebell
Polypogon monspeliensis - annual rabbitsfoot grass
Salsola tragus - prickly Russian thistle
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Stephanomeria diegensis - San Diego milk aster
Stipa lepida - foothill needlegrass
Zeltnera venusta - charming centaury

Notes/Comments: None



Photo taken: 5/14/2019 Photo location is -117.0045687, 32.57776448 NAD83 State Plane California Zone 6 (feet)

urvey Year: 2019			Page 1 of 2	
omplex Name: City_Robinhood_R	idge		VP_ID: 1676	
hotopoint X: -117.00443132800	Photopoint Y: 32.57770790	)300 <b>Ph</b>	otopoint Established: 2019	
003 Baseline Survey Data				
Baseline Cover of ERAR: 10.0	Baseline Cover of NAFO:	0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU:	0.0		
019 Quantitative Monitoring Data				
Survey Date 5/14/2019	Survey Start Time: 10:36	5 AM Sui	vey End Time:	
Surveyors: Mark Berninger, Diana E	Brand Ramirez			
VPHCP Covered Species Present: El	RAR			
Cover of ERAR in Basin 1-5%	Cover of NAFO in Basir	n:	Cover of ORCA in Basin	
Cover of POAB in Basin	Cover of PONU in Basi	า		
Other Native Species in Pool:				
Species	Name		Cover	
Deinandra fasciculata - clustered tarweed			10-25%	
Juncus bufonius - toad rush			<1%	
Psilocarphus brevissimus - woolly marble			<1%	
Cover of Other Native Species in Ba	sin 10-25% Native Species	s Richness in	Basin: 3	
Nonnative Species in Pool	·			
Species I	Name		Cover	
Bromus hordeace			<1%	
Bromus madritensis - compact brome			<1%	
Erodium botrys - longbeak stork's bill			<1%	
Festuca myuros - rattail sixweeks grass			<1%	
Glebionis coronaria - crown daisy			<1%	
Lamarckia aurea - goldentop grass			1-5%	
Mesembryanthemum nodiflorum - slender leaved ice plant			<1%	
Polypogon monspeliensis - annual rabbitsfoot grass			<1%	
Cover of Nonnative Species in Basir	n: 1-5% Nonnative S	pecies Richn	ess in Basin: 8	
Bare Ground Cover in Basin 10-25%				

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1676

### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Chenopodium murale - nettleleaf goosefoot
Cylindropuntia californica - California cholla
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Glebionis coronaria - crown daisy
Hainardia cylindrica - Thin tail
Hypochaeris glabra - smooth cat's ear
Isocoma menziesii - Menzies' goldenbush
Lamarckia aurea - goldentop grass
Mesembryanthemum nodiflorum - slender leaved ice plant
Phalaris minor - littleseed canarygrass
Rhus integrifolia - lemonade berry
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle

Notes/Comments: None



Photo taken: 5/14/2019 Photo location is -117.0044313, 32.5777079 NAD83 State Plane California Zone 6 (feet)

VP_ID: 1677 ablished: 2019 ver of ORCA: 0.0	
ver of ORCA: 0.0	
ver of ORCA: 0.0	
ne:	
f ORCA in Basin	
Cover	
<1%	
<1%	
10-25%	
<1%	
Cover	
1-5%	
<1%	
1-5%	
1-5%	
<1%	
<1%	
1-5%	
<1%	
1-5%	
1-5% : 9 of Li	

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1677

### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Cylindropuntia californica - California cholla
Deinandra fasciculata - clustered tarweed
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Glebionis coronaria - crown daisy
Hypochaeris glabra - smooth cat's ear
Matricaria discoidea - pineapple weed
Mesembryanthemum crystallinum - common iceplant
Mesembryanthemum nodiflorum - slender leaved ice plant
Opuntia littoralis - coastal pricklypear
Phalaris minor - littleseed canarygrass
Salsola tragus - prickly Russian thistle
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Yucca schidigera - Mojave yucca

Notes/Comments: None



Photo taken: 5/14/2019 Photo location is -117.0042792, 32.57773626 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019	Page 1 of 2 VP_ID: 1678	
Complex Name: City_Robinhood_Ri		
Photopoint X: -117.00438977000	Photopoint Y: 32.57768252000	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 80.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 5/14/2019	Survey Start Time: 1:04 PM	Survey End Time:
Surveyors: Mark Berninger, Diana B	rand Ramirez	
VPHCP Covered Species Present: EF	AR	
Cover of ERAR in Basin 50-75%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
<b>Other Native Species in Pool:</b>		
Species N	lame	Cover
Deinandra fasciculata -	clustered tarweed	10-25%

#### Cover of Other Native Species in Basin 50-75% Native Species Richness in Basin: 2

#### **Nonnative Species in Pool**

Species Name	Cover
Beta vulgaris	1-5%
Bromus madritensis - compact brome	1-5%
Erodium botrys - longbeak stork's bill	<1%
Festuca myuros - rattail sixweeks grass	<1%
Glebionis coronaria - crown daisy	1-5%
Lamarckia aurea - goldentop grass	1-5%
Mesembryanthemum nodiflorum - slender leaved ice plant	<1%
Sonchus asper - spiny sowthistle	<1%

Cover of Nonnative Species in Basin: 10-25%Nonnative Species Richness in Basin: 8Bare Ground Cover in Basin 10-25%Cover of Rocks/Cobble in Basin: 10-25%Cover of L

**Cover of Litter in Basin:** 1-5%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1678

### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Beta vulgaris - beet
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Chenopodium murale - nettleleaf goosefoot
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Dichelostemma capitatum - bluedicks
Eleocharis macrostachya - common spikerush
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Glebionis coronaria - crown daisy
Juncus bufonius - toad rush
Lamarckia aurea - goldentop grass
Logfia gallica - narrowleaf cottonrose
Lysimachia arvensis - scarlet pimpernel
Lythrum hyssopifolia - hyssop loosestrife
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Opuntia littoralis - coastal pricklypear
Phalaris minor - littleseed canarygrass
Psilocarphus brevissimus - woolly marble
Rhus integrifolia - lemonade berry
Salsola tragus - prickly Russian thistle
Simmondsia chinensis - jojoba
Stephanomeria diegensis - San Diego milk aster

Notes/Comments: None



Photo taken: 5/14/2019 Photo location is -117.0043898, 32.57768252 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019 Complex Name: City_Robinhood_Ridge Photopoint X: -117.11220462400 Photopoint Y: 32.94327997630		Page 1 of 2	
		VP_ID: 1679	
		30 Photopoint Established: 2019	
003 Baseline Survey Data	1		
Baseline Cover of ERAR:	5.0	Baseline Cover of NAFO: 0	.0 Baseline Cover of ORCA: 0.0
Baseline Cover of POAB:	0.0	Baseline Cover of PONU: 0	.0
019 Quantitative Monito	ring Data		
Survey Date 5/14/2019		Survey Start Time: 12:40	PM Survey End Time: 1:13 PM
Surveyors: Jason Allen, Jo	essie Lane		
VPHCP Covered Species F	Present: ERA	R	
Cover of ERAR in Ba	asin 25-50%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Ba	asin	Cover of PONU in Basin	
Other Native Species in P	Pool:		
	Species Na	me	Cover
Deinandra f	asciculata - c	lustered tarweed	1-5%
Eleocharis macrostachya - common spikerush		5-10%	
Junci	us bufonius -	toad rush	<1%
Psilocarphus brevissimus - woolly marble		5-10%	
Cover of Other Native Sp	ecies in Basi	n 25-50% Native Species	Richness in Basin: 5
Nonnative Species in Poo	bl		
	– Species Na	me	Cover
Bromus	hordeaceus	- soft brome	<1%
Bromus m	adritensis - c	compact brome	<1%
Erodium botrys - longbeak stork's bill		<1%	
Festuca myuros - rattail sixweeks grass		<1%	
Festuca perennis - Italian rye grass		<1%	
Hypochaeris glabra - smooth cat's ear		<1%	
Lamarckia aurea - goldentop grass		<1%	
Logfia gallica - narrowleaf cottonrose		<1%	
Lysimachia arvensis - scarlet pimpernel		<1%	
Lythrum hyssopifolia - hyssop loosestrife		<1%	
Matricaria	discoidea - p	pineapple weed	<1%
Medicag	go polymorph	na - burclover	<1%
			<1%
Mesembryanthemun	n nodiflorum	- slender leaved ice plant	170

Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: 5-10% Cover of Litter in Basin: <1%

Days Since Last Rain 1-5 Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1679

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Atriplex semibaccata - Australian saltbush
Bahiopsis laciniata - torhleaf goldeneye
Beta vulgaris - beet
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Chenopodium murale - nettleleaf goosefoot
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Encelia californica - California brittlebush
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Glebionis coronaria - crown daisy
Hypochaeris glabra - smooth cat's ear
Lamarckia aurea - goldentop grass
Logfia gallica - narrowleaf cottonrose
Mammillaria dioica - fish hook cactus
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Mirabilis laevis - desert wishbone bush
Oncosiphon piluliferum - stinknet
Opuntia littoralis - coastal pricklypear
Phalaris minor - littleseed canarygrass
Psilocarphus brevissimus - woolly marble
Rhus integrifolia - lemonade berry
Salsola tragus - prickly Russian thistle
Schismus barbatus - common Mediterranean grass
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Stephanomeria diegensis - San Diego milk aster

Notes/Comments: Photopoint is point 215 in "My GPS" Collector App



Photo taken: 5/14/2019 Photo location is -117.1122046, 32.94327998 NAD83 State Plane California Zone 6 (feet)

	urvey Year: 2019	
Complex Name: City_Robinhood_Ridge Photopoint X: -117.02754795000 Photopoint Y: 32.56175918410		VP_ID: 1684 Photopoint Established: 2019
Baseline Cover of ERAR: 50.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.5	
019 Quantitative Monitoring Data		
Survey Date 5/10/2019	Survey Start Time: 1:31 PM	Survey End Time: 2:20 PM
Surveyors: Jason Allen		
VPHCP Covered Species Present: EF	RAR	
Cover of ERAR in Basin 25-50%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Species N	Name	Cover
Callitriche marginata - Cal	ifornia water starwort	<1%
Deinandra fasciculata - clustered tarweed		1-5%
Juncus bufonius - toad rush		<1%
Psilocarphus tenellus - short woollyheads		10-25%
<b>Cover of Other Native Species in Ba</b>	sin 25-50% Native Species Rich	ness in Basin <sup>,</sup> 5
cover of other Native Species in Da	Sill 25 50% Nutive Species Riel	
Nonnative Species in Pool		
-		Cover
Nonnative Species in Pool	lame	
Nonnative Species in Pool Species N	Jame garis	Cover
Nonnative Species in Pool Species N Beta vulg	Jame garis us - soft brome	Cover <1%
Nonnative Species in Pool Species N Beta vulg Bromus hordeaceu	lame garis us - soft brome - compact brome	Cover <1% <1%
Nonnative Species in Pool Species N Beta vulg Bromus hordeaceu Bromus madritensis	Jame garis us - soft brome - compact brome gbeak stork's bill	Cover <1% <1% <1%
Nonnative Species in Pool Species N Beta vulg Bromus hordeaceu Bromus madritensis - Erodium botrys - Ion	Jame garis us - soft brome - compact brome gbeak stork's bill ail sixweeks grass	Cover <1% <1% <1% <1%
Nonnative Species in Pool Species N Beta vulg Bromus hordeaceu Bromus madritensis Erodium botrys - lon Festuca myuros - ratt	Jame garis us - soft brome - compact brome gbeak stork's bill ail sixweeks grass des - nit grass	Cover <1% <1% <1% <1% <1%
Nonnative Species in Pool Species N Beta vulg Bromus hordeaceu Bromus madritensis Erodium botrys - lon Festuca myuros - ratt Gastridium phleoi	Vame garis us - soft brome - compact brome gbeak stork's bill ail sixweeks grass des - nit grass goldentop grass	Cover <1% <1% <1% <1% <1% <1%
Nonnative Species in Pool Species N Beta vulg Bromus hordeaceu Bromus madritensis Erodium botrys - Ion Festuca myuros - ratt Gastridium phleoi Lamarckia aurea - g Lysimachia arvensis - Matricaria discoidea	lame garis us - soft brome - compact brome gbeak stork's bill ail sixweeks grass des - nit grass goldentop grass scarlet pimpernel - pineapple weed	Cover <1% <1% <1% <1% <1% <1% <1% <1%
Nonnative Species in Pool Species N Beta vulg Bromus hordeaceu Bromus madritensis - Erodium botrys - Ion Festuca myuros - ratt Gastridium phleoi Lamarckia aurea - g Lysimachia arvensis -	lame garis us - soft brome - compact brome gbeak stork's bill ail sixweeks grass des - nit grass goldentop grass scarlet pimpernel - pineapple weed	Cover <1% <1% <1% <1% <1% <1% <1% <1%
Nonnative Species in Pool Species N Beta vulg Bromus hordeaceu Bromus madritensis Erodium botrys - Ion Festuca myuros - ratt Gastridium phleoi Lamarckia aurea - g Lysimachia arvensis - Matricaria discoidea	lame garis us - soft brome - compact brome gbeak stork's bill ail sixweeks grass des - nit grass goldentop grass scarlet pimpernel - pineapple weed m - slender leaved ice plant	Cover <1% <1% <1% <1% <1% <1% <1% <1% <1% <1%

Dead Species Present in Pool: Artemisia californica

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1684

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Beta vulgaris - beet
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Carrichtera annua - Ward's weed
Centaurea melitensis - Maltese star-thistle
Chenopodium murale - nettleleaf goosefoot
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Encelia californica - California brittlebush
Eriogonum elongatum - longstem buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Hordeum murinum - mouse barley
Hypochaeris glabra - smooth cat's ear
Juncus bufonius - toad rush
Lamarckia aurea - goldentop grass
Logfia gallica - narrowleaf cottonrose
Lysimachia arvensis - scarlet pimpernel
Matricaria discoidea - pineapple weed
Medicago polymorpha - burclover
Mesembryanthemum crystallinum - common iceplant
Mesembryanthemum nodiflorum - slender leaved ice plant
Oncosiphon piluliferum - stinknet
Opuntia littoralis - coastal pricklypear
Rhus integrifolia - lemonade berry
Salsola tragus - prickly Russian thistle
Simmondsia chinensis - jojoba
Sonchus oleraceus - common sowthistle
Stephanomeria diegensis - San Diego milk aster
Stipa lepida - foothill needlegrass

Notes/Comments: Photopoint is point 206 in "My GPS" Collector App



Photo taken: 5/10/2019 Photo location is -117.027548, 32.56175918 NAD83 State Plane California Zone 6 (feet)

urvey Year: 2019					Page 1 of 2	
Complex Name: City_Robinhood_Ridge			VP_ID: 1685			
Photopoint X: -117.079691	.72900 <b>P</b>	Photopoint Y: 32.7	192612	0120	Photopoint Established: 2019	
003 Baseline Survey Data						
Baseline Cover of ERAR:	0.5 B	Baseline Cover of N	IAFO:	0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB:	0.0 B	Baseline Cover of P	ONU:	0.0		
019 Quantitative Monitor	ing Data					
Survey Date 5/14/2019		Survey Start Tim	e: 10:1	6 AM	Survey End Time: 10:53 AM	
Surveyors: Jason Allen, Je	ssie Lane					
<b>VPHCP Covered Species P</b>	resent: ERAR					
Cover of ERAR in Basi	n <1%	Cover of NAFC	) in Bas	in:	Cover of ORCA in Basin	
Cover of POAB in Basi	n	Cover of PON	J in Bas	in		
Other Native Species in P	<u>ool:</u>					
	Species Nam	ie			Cover	
Artemisia californica - coastal sagebrush			<1%			
Bahiopsis laciniata - torhleaf goldeneye			5-10%			
Crassula connata - sand pygmyweed			1-5%			
Deinandra fa	asciculata - clu	istered tarweed			25-50%	
Encelia calif	ornica - Califo	rnia brittlebush			1-5%	
Cover of Other Native Spe	ecies in Basin	50-75% Nativ	e Speci	es Richn	ness in Basin: 5	
Nonnative Species in Poo	<u>l</u>					
Species Name			Cover			
Atriplex semibaccata - Australian saltbush			<1%			
Bromus hordeaceus - soft brome			<1%			
Bromus madritensis - compact brome			5-10%			
Centaurea m	elitensis - Mal	tese star-thistle			<1%	
Erodium b	otrys - longbe	ak stork's bill			<1%	
Festuca my	uros - rattail s	Festuca myuros - rattail sixweeks grass			<1%	
Lamarckia aurea - goldentop grass		1-5%				
	-					
Logfia gall	ica - narrowlea	af cottonrose			<1%	
Logfia gall Matricaria	ica - narrowlea discoidea - pir	af cottonrose neapple weed				
Logfia gall Matricaria Mesembryanthemum	ica - narrowlea discoidea - piu n nodiflorum -	af cottonrose neapple weed	plant		<1%	

**Cover of Nonnative Species in Basin:** 10-25%

Nonnative Species Richness in Basin: 11

Bare Ground Cover in Basin 5-10%Cover of Rocks/Cobble in Basin: 1-5%

Ponded Water Present? no

Cover of Litter in Basin: 1-5%

Days Since Last Rain 1-5

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1685

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Acmispon glaber - deerweed
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Carrichtera annua - Ward's weed
Centaurea melitensis - Maltese star-thistle
Chenopodium murale - nettleleaf goosefoot
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Lamarckia aurea - goldentop grass
Logfia gallica - narrowleaf cottonrose
Lysimachia arvensis - scarlet pimpernel
Matricaria discoidea - pineapple weed
Medicago polymorpha - burclover
Mesembryanthemum crystallinum - common iceplant
Mesembryanthemum nodiflorum - slender leaved ice plant
Phalaris minor - littleseed canarygrass
Psilocarphus brevissimus - woolly marble
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Zeltnera venusta - charming centaury

Notes/Comments: Photopoint is point 213 in "My GPS" Collector App



Photo taken: 5/14/2019 Photo location is -117.0796917, 32.7192612 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2	
Complex Name: City_Robinhood	VP_ID: 1688		
Photopoint X: -117.00393845300 Photopoint Y: 32.57751086440		Photopoint Established: 2019	
2003 Baseline Survey Data			
Baseline Cover of ERAR: 1.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 10.0		
2019 Quantitative Monitoring Dat	a		
Survey Date 5/10/2019	Survey Start Time: 11:02 AM	Survey End Time: 11:40 AM	
Surveyors: Jason Allen, Jane Faja	irdo		
VPHCP Covered Species Present	PONU,ERAR		
Cover of ERAR in Basin 25-50%	Cover of ERAR in Basin 25-50% Cover of NAFO in Basin:		
Cover of POAB in BasinCover of PONU in Basin 1-5%			
Other Native Species in Pool:			
Species Name		Cover	
Callitriche marginata - California water starwort		<1%	
Deinandra fasciculata - clustered tarweed		1-5%	
Eleocharis macrostachya - common spikerush		<1%	
Juncus bufor	nius - toad rush	<1%	
Myosurus minim	us - little mouse tail	<1%	
Psilocarphus brevissimus - woolly marble		5-10%	

Cover of Other Native Species in Basin 25-50% Native Species Richness in Basin: 8

#### Nonnative Species in Pool

Species Name	Cover
Bromus hordeaceus - soft brome	1-5%
Bromus madritensis - compact brome	<1%
Erodium botrys - longbeak stork's bill	<1%
Festuca myuros - rattail sixweeks grass	<1%
Festuca perennis - Italian rye grass	<1%
Matricaria discoidea - pineapple weed	<1%
Phalaris minor - littleseed canarygrass	<1%

**Cover of Nonnative Species in Basin:** 1-5%

Nonnative Species Richness in Basin: 7

Bare Ground Cover in Basin10-25%Cover of Rocks/Cobble in Basin:5-10%

Days Since Last Rain 1-5

Ponded Water Present? no

**Cover of Litter in Basin:** <1%

Dead Species Present in Pool: Artemisia californica

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1688

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Carrichtera annua - Ward's weed
Centaurea melitensis - Maltese star-thistle
Chenopodium murale - nettleleaf goosefoot
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Glebionis coronaria - crown daisy
Lamarckia aurea - goldentop grass
Lysimachia arvensis - scarlet pimpernel
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Phalaris minor - littleseed canarygrass
Psilocarphus tenellus - short woollyheads
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Zeltnera venusta - charming centaury

Notes/Comments: Photopoint is point 201 in "My GPS" Collector App



Photo taken: 5/10/2019 Photo location is -117.0039385, 32.57751086 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2	
Complex Name: City_Robinhood_Ridge		VP_ID: 1689	
Photopoint X: -117.00400451900	<b>Photopoint X:</b> -117.00400451900 <b>Photopoint Y:</b> 32.57762321440		
003 Baseline Survey Data			
Baseline Cover of ERAR: 85.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 1.0		
019 Quantitative Monitoring Data	3		
Survey Date 5/10/2019	Survey Start Time: 11:43 AM	Survey End Time: 12:19 PM	
Surveyors: Jason Allen, Jane Fajar	rdo		
VPHCP Covered Species Present:	ERAR,PONU		
Cover of ERAR in Basin 25-50%	Cover of NAFO in Basin:	Cover of ORCA in Basin	
Cover of POAB in Basin	Cover of PONU in Basin <1%		
Other Native Species in Pool:			
Specie	s Name	Cover	
	Deinandra fasciculata - clustered tarweed		
Juncus bufon	ius - toad rush	<1%	
Psilocarphus breviss	imus - woolly marble	1-5%	
Cover of Other Native Species in	Basin 25-50% Native Species Richne	ess in Basin: 4	
Nonnative Species in Pool			
	s Name	Cover	
Bromus hordeaceus - soft brome		<1%	
Bromus madritensis - compact brome		<1%	
Erodium botrys - longbeak stork's bill		<1%	
Festuca myuros - ra	attail sixweeks grass	<1%	
	Festuca perennis - Italian rye grass		
Lythrum hyssopifoli	a - hyssop loosestrife	<1%	
Matricaria discoidea - pineapple weed		<1%	
Matricaria discoide			

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: Salsola tragus

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1689

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Carrichtera annua - Ward's weed
Centaurea melitensis - Maltese star-thistle
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Eleocharis macrostachya - common spikerush
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Glebionis coronaria - crown daisy
Juncus bufonius - toad rush
Matricaria discoidea - pineapple weed
Myosurus minimus - little mouse tail
Phalaris minor - littleseed canarygrass
Pogogyne nudiuscula - Otay mesa mint
Rhus integrifolia - lemonade berry
Silene gallica - common catchfly
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Sonchus oleraceus - common sowthistle
Zeltnera venusta - charming centaury

Notes/Comments: Photopoint is point 204 in "My GPS" Collector App



Photo taken: 5/10/2019 Photo location is -117.0040045, 32.57762321 NAD83 State Plane California Zone 6 (feet)

urvey Year: 2019		Page 1 of 2	
Complex Name: City_Robinhood_Ridge		<b>VP_ID</b> : 1691	
Photopoint X: -117.00416755200	Photopoint Y: 32.57763326440	Photopoint Established: 2019	
2003 Baseline Survey Data			
Baseline Cover of ERAR: 50.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0		
2019 Quantitative Monitoring Data			
Survey Date 5/9/2019	Survey Start Time: 3:07 PM	Survey End Time: 3:28 PM	
Surveyors: Jason Allen, Jessie Lane			
VPHCP Covered Species Present: EF	RAR		
Cover of ERAR in Basin 25-50%	Cover of NAFO in Basin:	Cover of ORCA in Basin	
Cover of POAB in Basin	Cover of PONU in Basin		
<b>Other Native Species in Pool:</b>			
Species N	Jame	Cover	
Callitriche marginata - California water starwort		<1%	
Deinandra fasciculata -	clustered tarweed	1-5%	
Psilocarphus brevissim	us - woolly marble	5-10%	
Cover of Other Native Species in Ba	sin 25-50% Native Species Rich	ness in Basin: 4	
Nonnative Species in Pool			
Species N	Jame	Cover	
Bromus hordeaceus - soft brome		1-5%	
Bromus madritensis - compact brome		1-5%	
Centaurea melitensis -	Maltese star-thistle	<1%	
Erodium botrys - Ion	gbeak stork's bill	<1%	
Festuca myuros - ratt	ail sixweeks grass	1-5%	
Festuca perennis - I		1-5%	
Matricaria discoidea	Matricaria discoidea - pineapple weed		
Phalaris minor - littleseed canarygrass		<1%	

**Bare Ground Cover in Basin** 10-25% **Cover of Rocks/Cobble in Basin:** 5-10% **Cover of Litter in Basin:** <1%

Days Since Last Rain 1-5

Dead Species Present in Pool: None

Ponded Water Present? no

Survey Year:	2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1691

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Camissoniopsis hirtella - hairy suncup
Centaurea melitensis - Maltese star-thistle
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Eleocharis macrostachya - common spikerush
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Glebionis coronaria - crown daisy
Lysimachia arvensis - scarlet pimpernel
Lysimachia minima - chaffweed
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Polypogon monspeliensis - annual rabbitsfoot grass
Rhus integrifolia - lemonade berry
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Zeltnera venusta - charming centaury

Notes/Comments: Photopoint is point 196 in "My GPS" Collector App



Photo taken: 5/9/2019 Photo location is -117.0041676, 32.57763326 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2	
Complex Name: City_Robinhood_Rid	mplex Name: City_Robinhood_Ridge		
Photopoint X: -117.00366414600	Photopoint Y: 32.57759432770	Photopoint Established: 2019	
2003 Baseline Survey Data			
Baseline Cover of ERAR: 95.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0		
2019 Quantitative Monitoring Data			
Survey Date 5/9/2019	Survey Start Time: 3:35 PM	Survey End Time: 4:03 PM	
Surveyors: Jason Allen, Jessie Lane			
VPHCP Covered Species Present: ER	AR		
Cover of ERAR in Basin 25-50%	Cover of NAFO in Basin:	Cover of ORCA in Basin	
Cover of POAB in Basin	Cover of PONU in Basin		
<b>Other Native Species in Pool:</b>			
Species N	lame	Cover	
Callitriche marginata - Cal	ifornia water starwort	<1%	
Crassula aquatica - Aq	uatic pygmy weed	<1%	
Deinandra fasciculata -	clustered tarweed	1-5%	
Eleocharis macrostachya	- common spikerush	10-25%	
Juncus bufonius	- toad rush	<1%	
Myosurus minimus - little mouse tail		<1%	
Psilocarphus brevissimus - woolly marble		5-10%	
Cover of Other Native Species in Bas	sin 25-50% Native Species Richr	ness in Basin: 8	
Nonnative Species in Pool			
Species N	lame	Cover	
Brassica nigra - bl	lack mustard	<1%	
Bromus hordeaceus - soft brome		<1%	
Bromus madritensis - compact brome		<1%	
Festuca myuros - ratta	ail sixweeks grass	<1%	

Festuca myuros - rattail sixweeks grass	<1%
Festuca perennis - Italian rye grass	<1%
Lythrum hyssopifolia - hyssop loosestrife	<1%
Mesembryanthemum nodiflorum - slender leaved ice plant	<1%
Phalaris minor - littleseed canarygrass	<1%
Polypogon monspeliensis - annual rabbitsfoot grass	1-5%

Cover of Nonnative Species in Basin: 1-5% Nonnative Species Richness in Basin: 9

Cover of Litter in Basin: <1%

Days Since Last Rain 1-5Ponded Water Present? no

Bare Ground Cover in Basin 5-10% Cover of Rocks/Cobble in Basin: 1-5%

Dead Species Present in Pool: Artemisia californica

Survey Year:	2019		

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1692

# 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Brachypodium distachyon - purple false brome
Brassica nigra - black mustard
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Chamaesyce maculata - spotted spurge
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Hypochaeris glabra - smooth cat's ear
Logfia gallica - narrowleaf cottonrose
Lysimachia arvensis - scarlet pimpernel
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Psilocarphus brevissimus - woolly marble
Rhus integrifolia - lemonade berry
Salsola tragus - prickly Russian thistle
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Sonchus oleraceus - common sowthistle

Notes/Comments: Photopoint is point 198 in "My GPS" Collector App



Photo taken: 5/9/2019 Photo location is -117.0036641, 32.57759433 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2 VP_ID: 1693	
Complex Name: City_Robinhood_R	idge		
Photopoint X: -117.07960292900	Photopoint Y: 32.71916396790	Photopoint Established: 2019	
2003 Baseline Survey Data			
Baseline Cover of ERAR: 10.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0		
2019 Quantitative Monitoring Data			
Survey Date 5/14/2019	Survey Start Time: 11:05 AM	Survey End Time: 11:35 AM	
Surveyors: Jason Allen, Jessie Lane			
VPHCP Covered Species Present: E	RAR		
Cover of ERAR in Basin 10-25%	Cover of NAFO in Basin:	Cover of ORCA in Basin	
Cover of POAB in Basin	Cover of PONU in Basin		
<b>Other Native Species in Pool:</b>			
Species	Name	Cover	
Artemisia californica	- coastal sagebrush	<1%	
Crassula connata - sand pygmyweed		<1%	
Deinandra fasciculata - clustered tarweed		25-50%	
Myosurus minimus - little mouse tail		<1%	
Plantago elongata - annual coast plantago		1-5%	
Psilocarphus brevissir	nus - woolly marble	10-25%	
Cover of Other Native Species in Ba	asin 50-75% Native Species Rich	iness in Basin: 7	

Cover of Other Native Species in Basin 50-75% Native Species Richness in Basin: 7

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Bromus madritensis - compact brome	1-5%
Erodium botrys - longbeak stork's bill	<1%
Festuca myuros - rattail sixweeks grass	1-5%
Lamarckia aurea - goldentop grass	<1%
Logfia gallica - narrowleaf cottonrose	<1%
Matricaria discoidea - pineapple weed	<1%
Mesembryanthemum nodiflorum - slender leaved ice plant	1-5%
Phalaris minor - littleseed canarygrass	<1%
Salsola tragus - prickly Russian thistle	<1%
Sonchus asper - spiny sowthistle	<1%
Spergularia bocconi - sand spurry	<1%

**Cover of Nonnative Species in Basin:** 10-25% Nonnative Species Richness in Basin: 12

Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: 5-10% **Cover of Litter in Basin:** 1-5%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1693

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Compact Brome
Crassula connata - sand pygmyweed
Cylindropuntia californica - California cholla
Deinandra fasciculata - clustered tarweed
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Glebionis coronaria - crown daisy
Helminthotheca echioides - bristly oxtongue
Heteromeles arbutifolia - toyon
Lamarckia aurea - goldentop grass
Logfia gallica - narrowleaf cottonrose
Lysimachia arvensis - scarlet pimpernel
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Phalaris minor - littleseed canarygrass
Psilocarphus brevissimus - woolly marble
Salsola tragus - prickly Russian thistle
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle

Notes/Comments: Photopoint is point 214 in "My GPS" Collector App



Photo taken: 5/14/2019 Photo location is -117.0796029, 32.71916397 NAD83 State Plane California Zone 6 (feet)
Survey Year: 2019	Page 1 of 2	
Complex Name: City_Robinhood_F	<b>VP_ID:</b> 1694	
Photopoint X: -117.00435820025	Photopoint Y: 32.57507410024	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 2.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
2019 Quantitative Monitoring Data		
Survey Date 7/10/2019	Survey Start Time: 3:01 PM	Survey End Time: 3:01 PM
Surveyors: Jason Allen, Diana Bran	nd Ramirez, Jessie Lane	
VPHCP Covered Species Present:	ERAR	
Cover of ERAR in Basin <1%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
<b>Other Native Species in Pool:</b>		
Species	Name	Cover
Deinandra fasciculata	Deinandra fasciculata - clustered tarweed	

#### Cover of Other Native Species in Basin 25-50% Native Species Richness in Basin: 1

#### **Nonnative Species in Pool**

Species Name	Cover
Bromus hordeaceus - soft brome	<1%
Bromus madritensis - compact brome	1-5%
Erodium sp stork's bill	5-10%
Lamarckia aurea - goldentop grass	<1%
Matricaria discoidea - pineapple weed	1-5%
Phalaris minor - littleseed canarygrass	<1%

Cover of Nonnative Species in Basin: 10-25%

Nonnative Species Richness in Basin: 6

Bare Ground Cover in Basin 5-10%Cover of Rocks/Cobble in Basin: 10-25%Cover of Litter in Basin: 5-10%Days Since Last Rain >16Ponded Water Present? no

Dead Species Present in Pool: None

2019 Quantitative Monitoring Data continued	
Complex Name: City_Robinhood_Ridge	
Survey Year: 2019	

# Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

sociated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)
Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Carrichtera annua - Ward's weed
Chlorogalum parviflorum - smallflower soap plant
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium sp stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Glebionis coronaria - crown daisy
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Phalaris minor - littleseed canarygrass
Psilocarphus tenellus - short woollyheads
Salsola tragus - prickly Russian thistle
Selaginella cinerascens - mesa spikemoss

Notes/Comments: None

Page 2 of 2

VP\_ID: 1694



Photo taken: 7/10/2019 Photo location is -117.0043582, 32.5750741 NAD83 State Plane California Zone 6 (feet)

urvey Year: 2019		Page 1 of 2	
Complex Name: City_Robinhood_R	lidge	VP_ID: 1696	
Photopoint X: -117.00387098000	Photopoint Y: 32.57760772000	Photopoint Established: 2019	
003 Baseline Survey Data			
Baseline Cover of ERAR: 15.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 10.0		
019 Quantitative Monitoring Data			
Survey Date 5/10/2019	Survey Start Time: 3:14 PM	Survey End Time: 3:50 PM	
Surveyors: Sara Allen			
VPHCP Covered Species Present: P	ONU,ERAR		
Cover of ERAR in Basin 10-25%	Cover of NAFO in Basin:	Cover of ORCA in Basin	
Cover of POAB in Basin Cover of PONU in Basin 5		%	
Other Native Species in Pool:			
Species	Name	Cover	
Cylindropuntia prolif	era - coastal cholla	<1%	
Deinandra fasciculata	- clustered tarweed	1-5%	
Psilocarphus brevissimus - woolly marble		1-5%	
Cover of Other Native Species in Ba	asin 10-25% Native Species Richr	ness in Basin: 5	
Nonnative Species in Pool			
Species	Name	Cover	
Brassica nigra - l	black mustard	<1%	
Bromus hordeace	eus - soft brome	<1%	
Bromus madritensis	- compact brome	<1%	
Erodium cicutarium -		<1%	
Lamarckia aurea -		<1%	
Lysimachia arvensis -		1-5%	
Matricaria discoidea - pineapple weed		<1%	
Matricaria discoidea Phalaris minor - little		1-5%	

Days Since Last Rain 1-5

Dead Species Present in Pool: None

Ponded Water Present? no

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1696

## 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Creation No
Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Carrichtera annua - Ward's weed
Chamaesyce albomarginata - Rattlesnake sandmat
Chenopodium murale - nettleleaf goosefoot
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Erodium cicutarium - redstem stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Glebionis coronaria - crown daisy
Lysimachia arvensis - scarlet pimpernel
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Phalaris minor - littleseed canarygrass
Psilocarphus brevissimus - woolly marble
Salsola tragus - prickly Russian thistle
Silene gallica - common catchfly
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Zeltnera venusta - charming centaury

Notes/Comments: None



Photo taken: 5/10/2019 Photo location is -117.003871, 32.57760772 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019	Page 1 of 2 VP_ID: 1697	
Complex Name: City_Robinhood_		
Photopoint X: -117.00383251400	Photopoint Y: 32.57754720950	Photopoint Established: 2018
2003 Baseline Survey Data		
Baseline Cover of ERAR: 1.0	Baseline Cover of NAFO: 0.5	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 2.0	
2019 Quantitative Monitoring Dat	a	
Survey Date 5/9/2019	Survey Start Time: 9:32 AM	Survey End Time: 10:12 AM
Surveyors: Cheryl Jenkins		
VPHCP Covered Species Present:	ERAR,PONU	
Cover of ERAR in Basin 10-25	% Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin <1%	
Other Native Species in Pool:		
Specie	Cover	
	California water starwort	<1%
	ata - Rattlesnake sandmat	<1%
Cylindropuntia pro	<1%	
Deinandra fascicula	a - clustered tarweed	1-5%
Myosurus minimu	<1%	
Psilocarphus breviss	simus - woolly marble	1-5%
Zeltnera venusta -	<1%	
Cover of Other Native Species in	Basin 10-25% Native Species Richn	ess in Basin: 8
Nonnative Species in Pool		
	s Name	Cover
	ceus - soft brome	<1%
Erodium botrys - l	<1%	
Festuca myuros - r	<1%	
Glebionis coron	<1%	
Lamarckia aurea	<1%	
Lysimachia arvensi	<1%	
Lythrum hyssopifoli	<1%	
	ea - pineapple weed	<1%
	tleseed canarygrass	1-5%
	common catchfly	<1%
Sonchus asper -	spiny sowthistle	<1%

Cover of Nonnative Species in Basin: 1-5% Nonnative Species Richness in Basin: 11

Bare Ground Cover in Basin25-50%Cover of Rocks/Cobble in Basin:10-25%Cover of Litter in Basin:1-5%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

Survey	/ Year:	2019	

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1697

## 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Antirrhinum nuttallianum - Nuttall's snapdragon
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Chamaesyce albomarginata - Rattlesnake sandmat
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Erodium moschatum - Musky stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Glebionis coronaria - crown daisy
Hypochaeris glabra - smooth cat's ear
Isocoma menziesii - Menzies' goldenbush
Lamarckia aurea - goldentop grass
Lysimachia arvensis - scarlet pimpernel
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Phalaris minor - littleseed canarygrass
Pogogyne nudiuscula - Otay mesa mint
Psilocarphus brevissimus - woolly marble
Rhus integrifolia - lemonade berry
Salsola tragus - prickly Russian thistle
Salvia mellifera - black sage
Silene gallica - common catchfly
Sonchus asper - spiny sowthistle
Zeltnera venusta - charming centaury

Notes/Comments: None



Photo taken: 5/9/2019 Photo location is -117.00383251400, 32.57754720950 NAD83 State Plane California Zone 6 (feet)

urvey Year: 2019			Page 1 of 2 VP_ID: 1698		
mplex Name: City_Rob					
notopoint X: -117.079810	086300	Photopoint Y: 32.7190718	35130	Photopoint Established: 2019	
003 Baseline Survey Data					
Baseline Cover of ERAR:	0.5	Baseline Cover of NAFO:	0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB:	0.0	Baseline Cover of PONU:	1.0		
019 Quantitative Monitor	ring Data				
Survey Date 5/10/2019		Survey Start Time: 2:2	3 PM	Survey End Time: 3:39 PM	
Surveyors: Jason Allen					
VPHCP Covered Species P	Present: ER	AR			
Cover of ERAR in Basi	<b>n</b> 10-25%	Cover of NAFO in Bas	in:	Cover of ORCA in Basin	
Cover of POAB in Basi	in	Cover of PONU in Bas	in		
Other Native Species in P	ool:				
•	Species N	lame		Cover	
Cylindropu	•	ra - coastal cholla		1-5%	
	•	clustered tarweed		10-25%	
Plantago elo	ongata - anr	nual coast plantago		1-5%	
Psilocarphus brevissimus - woolly marble			5-10%		
Cover of Other Native Sp	ecies in Ba	sin 25-50% Native Speci	es Richn	iess in Basin: 5	
Nonnative Species in Poo					
	Species N	ame		Cover	
Bromus	•	s - soft brome		<1%	
		compact brome		<1%	
		gbeak stork's bill		<1%	
Festuca myuros - rattail sixweeks grass				<1%	
Lamarckia aurea - goldentop grass				<1%	
Logfia gallica - narrowleaf cottonrose				<1%	
Lysimachia arvensis - scarlet pimpernel				<1%	
Matricaria discoidea - pineapple weed				<1%	
Mesembryanthemum nodiflorum - slender leaved ice plant				<1%	
Phalaris	Phalaris aquatica - harding Grass			<1%	
Phalaris minor - littleseed canarygrass				<1%	
Phalaris m	Sonchus oleraceus - common sowthistle			<1%	
	eraceus - co	ommon sowthistle		<1%	

Dead Species Present in Pool: Artemisia californica, Salsola tragus

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1698

# 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Beta vulgaris - beet
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Chenopodium californicum - California goosefoot
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Eriogonum elongatum - longstem buckwheat
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Glebionis coronaria - crown daisy
Heteromeles arbutifolia - toyon
Lamarckia aurea - goldentop grass
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Lysimachia arvensis - scarlet pimpernel
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Opuntia littoralis - coastal pricklypear
Phalaris minor - littleseed canarygrass
Psilocarphus brevissimus - woolly marble
Rhus integrifolia - lemonade berry
Salsola tragus - prickly Russian thistle
Silene gallica - common catchfly
Simmondsia chinensis - jojoba
Sonchus oleraceus - common sowthistle
Stipa lepida - foothill needlegrass
Zeltnera venusta - charming centaury

Notes/Comments: Photopoint is point 209 in "My GPS" Collector App



Photo taken: 5/10/2019 Photo location is -117.0798109, 32.71907185 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019				Page 1 of 2	
Complex Name: City_Robinhood_Ridge				VP_ID: 1699	
Photopoint X: -117.079867	74600	Photopoint Y: 32.719186	06790	Photopoint Established: 2019	
2003 Baseline Survey Data					
Baseline Cover of ERAR:	5.0	Baseline Cover of NAFO:	0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB:	0.0	Baseline Cover of PONU:	2.0		
2019 Quantitative Monitor	ring Data				
Survey Date 5/10/2019		Survey Start Time: 3:4	2 PM	Survey End Time: 4:17 PM	
Surveyors: Jason Allen					
VPHCP Covered Species P	Present: ERA	R			
Cover of ERAR in Basin 10-25% Cover of NAFO in Basin:			in:	Cover of ORCA in Basin	
Cover of POAB in Basi	in	Cover of PONU in Bas	sin		
Other Native Species in P	ool:				
	Species Na	me		Cover	
Baccharis	sarothroides	- desertbroom		<1%	
Deinandra fasciculata - clustered tarweed				10-25%	
Psilocarphus brevissimus - woolly marble				10-25%	
Cover of Other Native Spo	ecies in Basi	n 25-50% Native Speci	es Richn	ness in Basin: 4	
Nonnative Species in Poo	1				
	- Species Na	me		Cover	
Bromus	hordeaceus	- soft brome		1-5%	
Bromus madritensis - compact brome				1-5%	
Erodium botrys - longbeak stork's bill				5-10%	
Festuca myuros - rattail sixweeks grass				1-5%	
Lamarckia aurea - goldentop grass				1-5%	
Matricaria discoidea - pineapple weed				1-5%	
Mesembryanthemum nodiflorum - slender leaved ice plant				<1%	
	Phalaris minor - littleseed canarygrass			<1%	
Phalaris m		ed canarygrass		<1%	

Days Since Last Rain 1-5Ponded Water Present? no

Dead Species Present in Pool: Artemisia californica

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1699

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Erigeron canadensis - Canada horseweed
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Glebionis coronaria - crown daisy
Lamarckia aurea - goldentop grass
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Lysimachia arvensis - scarlet pimpernel
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Opuntia littoralis - coastal pricklypear
Phalaris minor - littleseed canarygrass
Psilocarphus tenellus - short woollyheads
Rhus integrifolia - lemonade berry
Silene gallica - common catchfly
Simmondsia chinensis - jojoba
Stipa lepida - foothill needlegrass
Zeltnera venusta - charming centaury

Notes/Comments: Photopoint is point 211 in "My GPS" Collector App



Photo taken: 5/10/2019 Photo location is -117.0798677, 32.71918607 NAD83 State Plane California Zone 6 (feet)

			Page	1 of 2
omplex Name: City_Robir	nhood_Ridge		VP_ID	<b>D</b> : 1700
hotopoint X: -117.0038295	50600 <b>Photopoint Y:</b> 32.5	57736463770	Photopoint Established: 2019	9
003 Baseline Survey Data				
Baseline Cover of ERAR: 7	75.0 Baseline Cover of N	<b>IAFO:</b> 2.0	Baseline Cover of ORCA:	0.0
Baseline Cover of POAB:	0.0 Baseline Cover of P	<b>ONU:</b> 5.0		
019 Quantitative Monitori	ng Data			
Survey Date 5/9/2019	Survey Start Tim	e: 1:48 PM	Survey End Time: 2:19 PM	
Surveyors: Sara Allen				
VPHCP Covered Species Pr	esent: PONU,ERAR			
Cover of ERAR in Basin	10-25%Cover of NAFC	) in Basin:	Cover of ORCA in Basi	in
Cover of POAB in Basin	Cover of PON	U in Basin <1%		
Other Native Species in Po	ool:			
	Species Name		Cover	
Cylindropun	tia prolifera - coastal cholla		1-5%	
	المحاجب والمحاجب والمحاجب والمحاجب		10 250/	
Deinandra fas	sciculata - clustered tarweed		10-25%	
	tenellus - short woollyheads		10-25% 25-50%	
	tenellus - short woollyheads	e Species Richr	25-50%	
Psilocarphus	tenellus - short woollyheads cies in Basin 50-75% Nativ	e Species Richr	25-50%	
Psilocarphus Cover of Other Native Specent Nonnative Species in Pool	tenellus - short woollyheads cies in Basin 50-75% Nativ	e Species Richr	25-50%	
Psilocarphus Cover of Other Native Specent Nonnative Species in Pool	tenellus - short woollyheads cies in Basin 50-75% Nativ	e Species Richr	25-50% ness in Basin: 4	
Psilocarphus Cover of Other Native Spec <u>Nonnative Species in Pool</u> Bromus ma	tenellus - short woollyheads cies in Basin 50-75% Nativ Species Name	e Species Richr	25-50% ness in Basin: 4 Cover	
Psilocarphus Cover of Other Native Spec Nonnative Species in Pool Bromus ma Erodium bo	tenellus - short woollyheads cies in Basin 50-75% Nativ Species Name dritensis - compact brome	e Species Richr	25-50% ness in Basin: 4 Cover <1%	
Psilocarphus Cover of Other Native Spec <u>Nonnative Species in Pool</u> Bromus ma Erodium bo Festuca myu	tenellus - short woollyheads cies in Basin 50-75% Nativ Species Name dritensis - compact brome otrys - longbeak stork's bill	e Species Richr	25-50% ness in Basin: 4 Cover <1% <1%	
Psilocarphus Cover of Other Native Spec Nonnative Species in Pool Bromus ma Erodium bo Festuca myu Lamarckia	tenellus - short woollyheads cies in Basin 50-75% Nativ Species Name dritensis - compact brome otrys - longbeak stork's bill uros - rattail sixweeks grass	e Species Richr	25-50% ness in Basin: 4 Cover <1% <1% <1%	
Psilocarphus Cover of Other Native Spec Nonnative Species in Pool Bromus ma Erodium bo Festuca myu Lamarckia Lythrum hyss Matricaria d	tenellus - short woollyheads cies in Basin 50-75% Nativ Species Name dritensis - compact brome otrys - longbeak stork's bill aros - rattail sixweeks grass a aurea - goldentop grass sopifolia - hyssop loosestrife discoidea - pineapple weed		25-50% ness in Basin: 4 Cover <1% <1% <1% <1%	
Psilocarphus Cover of Other Native Species Nonnative Species in Pool Bromus ma Erodium bo Festuca myu Lamarckia Lythrum hyss Matricaria d Mesembryanthemum	tenellus - short woollyheads cies in Basin 50-75% Nativ Species Name dritensis - compact brome otrys - longbeak stork's bill aros - rattail sixweeks grass a aurea - goldentop grass sopifolia - hyssop loosestrife discoidea - pineapple weed nodiflorum - slender leaved ice		25-50% eess in Basin: 4 Cover <1% <1% <1% <1% <1% <1% <1%	
Psilocarphus Cover of Other Native Spec Nonnative Species in Pool Bromus mar Erodium bo Festuca myu Lamarckia Lythrum hyss Matricaria d Mesembryanthemum Phalaris mir	tenellus - short woollyheads cies in Basin 50-75% Nativ Species Name dritensis - compact brome otrys - longbeak stork's bill aros - rattail sixweeks grass a aurea - goldentop grass sopifolia - hyssop loosestrife discoidea - pineapple weed		25-50% ness in Basin: 4 Cover <1% <1% <1% <1% <1% <1% <1% 5-10%	

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1700

# 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name	
Artemisia californica - coastal sagebrush	
Bahiopsis laciniata - torhleaf goldeneye	
Beta vulgaris - beet	
Brassica nigra - black mustard	
Bromus hordeaceus - soft brome	
Bromus madritensis - compact brome	
Castilleja sp owl's clover	
Centaurea melitensis - Maltese star-thistle	
Crassula connata - sand pygmyweed	
Cylindropuntia prolifera - coastal cholla	
Deinandra fasciculata - clustered tarweed	
Eriogonum fasciculatum - Eastern Mojave buckwheat	
Erodium botrys - longbeak stork's bill	
Eryngium aristulatum var. parishii - San Diego button celery	
Ferocactus viridescens - San Diego barrel cactus	
Festuca myuros - rattail sixweeks grass	
Glebionis coronaria - crown daisy	
Hordeum murinum - mouse barley	
Lamarckia aurea - goldentop grass	
Lysimachia arvensis - scarlet pimpernel	
Matricaria discoidea - pineapple weed	
Mesembryanthemum nodiflorum - slender leaved ice plant	
Opuntia littoralis - coastal pricklypear	
Phalaris minor - littleseed canarygrass	
Psilocarphus brevissimus - woolly marble	
Rhus integrifolia - lemonade berry	
Salsola tragus - prickly Russian thistle	
Silene gallica - common catchfly	
Simmondsia chinensis - jojoba	
Sonchus asper - spiny sowthistle	

Notes/Comments: Photopoint is point 192 in "My GPS" Collector App



Photo taken: 5/9/2019 Photo location is -117.0038295, 32.57736464 NAD83 State Plane California Zone 6 (feet)

irvey Year: 2019		Page 1 of 2
omplex Name: City_Robinhood_	-	VP_ID: 1701
hotopoint X: -117.01017251978	Photopoint Y: 32.58120695015	Photopoint Established: 2019
003 Baseline Survey Data		
Baseline Cover of ERAR: 0.5	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0	
019 Quantitative Monitoring Data		
Survey Date 5/10/2019	Survey Start Time: 11:14 AM	Survey End Time: 11:47 AM
Surveyors: Sara Allen, Holly Smit-	Kicklighter	
VPHCP Covered Species Present:	ERAR	
Cover of ERAR in Basin 25-50%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
-	s Name	Cover
	ifera - coastal cholla	<1%
, , ,	a - clustered tarweed	5-10%
Psilocarphus breviss	mus - woolly marble	10-25%
Cover of Other Native Species in I	Basin 25-50% Native Species Richn	ess in Basin: 4
-		
Nonnative Species in Pool	News	Cover
Species Bromus bordoac	eus - soft brome	<1%
	s - compact brome	<1%
	- redstem stork's bill	1-5%
	ttail sixweeks grass	<1%
Matricaria discoide	_	<1%
	leseed canarygrass	<1%
	- annual rabbitsfoot grass	<1%

Ponded Water Present? no

Dead Species Present in Pool: None

Days Since Last Rain 1-5

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1701

## 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Calystegia macrostegia - island false bindweed
Carrichtera annua - Ward's weed
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium cicutarium - redstem stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Hainardia cylindrica - Thin tail
Lamarckia aurea - goldentop grass
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Opuntia littoralis - coastal pricklypear
Phalaris minor - littleseed canarygrass
Psilocarphus tenellus - short woollyheads
Rhus integrifolia - lemonade berry
Salsola tragus - prickly Russian thistle
Salvia mellifera - black sage
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Sonchus oleraceus - common sowthistle
Stipa pulchra - purple needlegrass

Notes/Comments: None



Photo taken: 5/10/2019 Photo location is -117.0101725, 32.58120695 NAD83 State Plane California Zone 6 (feet)

urvey Year: 2019		Page 1 of 2
omplex Name: City_Robinhood_Ric	dge	VP_ID: 1702
hotopoint X: -117.00389274985	<b>Photopoint Y:</b> 32.57736251018	Photopoint Established: 2019
003 Baseline Survey Data		
Baseline Cover of ERAR: 10.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 1.0	
019 Quantitative Monitoring Data		
Survey Date 5/10/2019	Survey Start Time: 11:48 AM	Survey End Time: 1:44 PM
Surveyors: Sara Allen		
VPHCP Covered Species Present: ER	AR	
Cover of ERAR in Basin 50-75%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Species N	ame	Cover
Deinandra fasciculata -	clustered tarweed	1-5%
Plantago erecta - Cal	ifornia plantain	<1%
Psilocarphus brevissim	us - woolly marble	1-5%
Cover of Other Native Species in Bas	in 50-75% Native Species Ric	nness in Basin: 4
Nonnative Species in Pool	· · · · · ·	
Species N	ame	Cover
Bromus hordeaceu		<1%
Bromus madritensis -	compact brome	<1%
Erodium cicutarium - re	edstem stork's bill	<1%
Festuca myuros - ratta	ail sixweeks grass	<1%
Matricaria discoidea -	pineapple weed	<1%
Phalaris minor - littles		<1%
Cover of Nonnative Species in Basin	1-5% Nonnative Specie	s Richness in Basin: 6
Bare Ground Cover in Basin 10-25%	-	
Days Since Last Rain 1-5	Ponded Water Present? yes	

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1702

## 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Carrichtera annua - Ward's weed
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Erodium cicutarium - redstem stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Glebionis coronaria - crown daisy
Heliotropium curassavicum - salt heliotrope
Hypochaeris glabra - smooth cat's ear
Lamarckia aurea - goldentop grass
Logfia gallica - narrowleaf cottonrose
Matricaria discoidea - pineapple weed
Melilotus indica - annual yellow sweetclover
Mesembryanthemum nodiflorum - slender leaved ice plant
Opuntia littoralis - coastal pricklypear
Peritoma arborea - bladderpod spiderflower
Phalaris minor - littleseed canarygrass
Psilocarphus brevissimus - woolly marble
Rhus integrifolia - lemonade berry
Salsola tragus - prickly Russian thistle
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle

Notes/Comments: None



Photo taken: 5/10/2019 Photo location is -117.0038927, 32.57736251 NAD83 State Plane California Zone 6 (feet)

urvey Year: 2019		Page 1 of 2
Complex Name: City_Robinhood	d_Ridge	VP_ID: 1703
Photopoint X: -117.00374316996	Photopoint Y: 32.57741017036	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 0.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.5	
2019 Quantitative Monitoring Da	ta	
Survey Date 5/10/2019	Survey Start Time: 1:51 PM	Survey End Time: 2:08 PM
Surveyors: Sara Allen		
VPHCP Covered Species Present	:	
Cover of ERAR in Basin	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin	
Other Native Species in Pool:		
Spec	ies Name	Cover
Cylindropuntia pr	olifera - coastal cholla	<1%
Deinandra fascicul	ata - clustered tarweed	10-25%
Psilocarphus brevi	ssimus - woolly marble	<1%
Cover of Other Native Species in	Basin 10-25% Native Species Rich	ness in Basin: 3
Nonnative Species in Pool		
Speci	ies Name	Cover
Bromus diand	rus - ripgut brome	1-5%
Bromus horde	aceus - soft brome	<1%
Centaurea melitens	sis - Maltese star-thistle	<1%
Erodium cicutariur	m - redstem stork's bill	1-5%
	rattail sixweeks grass	<1%
Melilotus indica - an	nual yellow sweetclover	<1%
Phalaris minor - l	ittleseed canarygrass - spiny sowthistle	<1% <1%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1703

## 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Crossies Name	
Species Name	
Artemisia californica - coastal sagebrush	
Avena fatua - wild oat	
Bahiopsis laciniata - torhleaf goldeneye	
Brassica nigra - black mustard	
Bromus hordeaceus - soft brome	
Bromus madritensis - compact brome	
Carrichtera annua - Ward's weed	
Centaurea melitensis - Maltese star-thistle	
Crassula connata - sand pygmyweed	
Cylindropuntia prolifera - coastal cholla	
Deinandra fasciculata - clustered tarweed	
Encelia californica - California brittlebush	
Eriogonum fasciculatum - Eastern Mojave buckwheat	
Erodium botrys - longbeak stork's bill	
Erodium cicutarium - redstem stork's bill	
Eryngium aristulatum var. parishii - San Diego button celery	
Ferocactus viridescens - San Diego barrel cactus	
Festuca myuros - rattail sixweeks grass	
Glebionis coronaria - crown daisy	
Helminthotheca echioides - bristly oxtongue	
Hordeum murinum - mouse barley	
Hypochaeris glabra - smooth cat's ear	
Lactuca serriola - prickly lettuce	
Lamarckia aurea - goldentop grass	
Matricaria discoidea - pineapple weed	
Melilotus indica - annual yellow sweetclover	
Mesembryanthemum nodiflorum - slender leaved ice plant	
Opuntia littoralis - coastal pricklypear	
Peritoma arborea - bladderpod spiderflower	
Phalaris minor - littleseed canarygrass	
Poa secunda - one sided blue grass	
Psilocarphus brevissimus - woolly marble	
Rhus integrifolia - lemonade berry	
Salsola tragus - prickly Russian thistle	
Simmondsia chinensis - jojoba	
Sonchus asper - spiny sowthistle	
Sonchus oleraceus - common sowthistle	
Stephanomeria sp	

Notes/Comments: None



Photo taken: 5/10/2019 Photo location is -117.0037432, 32.57741017 NAD83 State Plane California Zone 6 (feet)

urvey Year: 2019			Page 1 of 2
Complex Name: City_Rol	binhood_R	idge	VP_ID: 1705
Photopoint X: -117.00367	546000	Photopoint Y: 32.5775975900	0 Photopoint Established: 2019
2003 Baseline Survey Data	a		
Baseline Cover of ERAR:	0.0	Baseline Cover of NAFO: 0.0	<b>Baseline Cover of ORCA:</b> 0.0
Baseline Cover of POAB:	0.0	Baseline Cover of PONU: 0.	5
2019 Quantitative Monito	oring Data		
Survey Date 5/10/2019		Survey Start Time: 2:14 PN	1 Survey End Time: 2:53 PM
Surveyors: Sara Allen			
VPHCP Covered Species	Present: E	RAR,PONU	
Cover of ERAR in Bas	in 1-5%	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Bas	sin	Cover of PONU in Basin <	1%
Other Native Species in	Pool:		
	Species	Name	Cover
Callitriche mar	-	lifornia water starwort	<1%
	-	a - Rattlesnake sandmat	<1%
	-	- clustered tarweed	5-10%
Eleocharis ma	acrostachya	a - common spikerush	1-5%
Psilocarphu	us brevissin	nus - woolly marble	10-25%
Cover of Other Native Sp	pecies in Ba	asin 25-50% Native Species R	ichness in Basin: 6
Nonnative Species in Po	ol		
	Species	Name	Cover
Brass	-	black mustard	1-5%
	-	us - soft brome	<1%
Bromus n	nadritensis	- compact brome	<1%
		Maltese star-thistle	<1%
Erodium ci	cutarium -	redstem stork's bill	<1%
Festuca m	iyuros - rat	tail sixweeks grass	<1%
Festuca	perennis -	Italian rye grass	1-5%
Glebior	nis coronar	ia - crown daisy	<1%
Lysimachia	a arvensis -	scarlet pimpernel	1-5%
Mesembryanthemu	m nodifloru	um - slender leaved ice plant	<1%
	-	- harding Grass	1-5%
Phalaris n	ninor - little	eseed canarygrass	5-10%
	-	annual rabbitsfoot grass	<1%
		piny sowthistle	<1%
		ommon sowthistle	<1%

Cover of Nonnative Species in Basin: 10-25% Nonnative Species Richness in Basin: 15

Bare Ground Cover in Basin 25-50% Cover of Rocks/Cobble in Basin: 10-25%

Days Since Last Rain 1-5

in 1-5 Ponded Water Present? no

Dead Species Present in Pool: None

**Cover of Litter in Basin:** 1-5%

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1705

## 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Antirrhinum nuttallianum - Nuttall's snapdragon
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Centaurea melitensis - Maltese star-thistle
Chamaesyce albomarginata - Rattlesnake sandmat
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Erodium cicutarium - redstem stork's bill
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Festuca perennis - Italian rye grass
Glebionis coronaria - crown daisy
Hedypnois cretica - Cretanweed
Helminthotheca echioides - bristly oxtongue
Heteromeles arbutifolia - toyon
Hordeum murinum - mouse barley
Lamarckia aurea - goldentop grass
Matricaria discoidea - pineapple weed
Mesembryanthemum nodiflorum - slender leaved ice plant
Polypogon monspeliensis - annual rabbitsfoot grass
Rhus integrifolia - lemonade berry
Salsola tragus - prickly Russian thistle
Salvia mellifera - black sage
Zeltnera venusta - charming centaury

Notes/Comments: None



Photo taken: 5/10/2019 Photo location is -117.0036755, 32.57759759 NAD83 State Plane California Zone 6 (feet)

		Page 1 of 2
omplex Name: City_Robinhood		VP_ID: 1706
notopoint X: -117.07976237900	<b>Photopoint Y:</b> 32.71926635130	Photopoint Established: 2019
003 Baseline Survey Data		
aseline Cover of ERAR: 0.0	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
aseline Cover of POAB: 0.0	Baseline Cover of PONU: 10.0	
)19 Quantitative Monitoring Dat	ta	
Survey Date 5/14/2019	Survey Start Time: 9:16 AM	Survey End Time: 9:56 AM
Surveyors: Jason Allen, Jessie La	ine	
VPHCP Covered Species Present	: PONU	
Cover of ERAR in Basin	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin 1-5%	
Other Native Species in Pool:		
Speci	ies Name	Cover
Baccharis sarothr	roides - desertbroom	1-5%
Deinandra fascicula	ata - clustered tarweed	1-5%
Cover of Other Native Species in	Basin 5-10% Native Species Richne	ess in Basin: 3
Nonnative Species in Pool		
Nonnative Species in Pool Specie	es Name	Cover
Nonnative Species in Pool Speci Brassica nigra	es Name a - black mustard	Cover <1%
Nonnative Species in Pool Speci Brassica nigra Bromus hordea	es Name a - black mustard aceus - soft brome	Cover <1% <1%
Nonnative Species in Pool Speci Brassica nigra Bromus hordea Bromus madriten	es Name a - black mustard aceus - soft brome nsis - compact brome	Cover <1% <1% <1%
Nonnative Species in Pool Speci Brassica nigra Bromus hordea Bromus madriten Centaurea melitens	es Name a - black mustard aceus - soft brome nsis - compact brome sis - Maltese star-thistle	Cover <1% <1% <1% <1%
Nonnative Species in Pool Speci Brassica nigra Bromus hordea Bromus madriten Centaurea melitens Erodium botrys -	es Name es Name es Name es Name es Name es Name es Soft brome es soft brome es soft brome es star-thistle es star-thistle es star-thistle es star-thistle es star-thistle es star-thistle es star stork's bill es star	Cover <1% <1% <1% <1% 1-5%
Nonnative Species in Pool Specie Brassica nigra Bromus hordea Bromus madriten Centaurea melitens Erodium botrys - Festuca myuros -	es Name es soft brome es soft brome es star-thistle es star-th	Cover <1% <1% <1% <1% 1-5% 1-5%
Nonnative Species in Pool Speci Brassica nigra Bromus hordea Bromus madriten Centaurea melitens Erodium botrys - Festuca myuros - Glebionis coror	es Name es Name es Name es Name es Name es Name es Soft brome es soft brome es soft brome es star-thistle es star-thistle es star-thistle es star-thistle es star-thistle es star-thistle es star stork's bill es star	Cover <1% <1% <1% <1% 1-5%
Nonnative Species in Pool Specie Brassica nigra Bromus hordea Bromus madriten Centaurea melitens Erodium botrys - Festuca myuros - Glebionis coror Hainardi	es Name es Soft brome es Soft	Cover <1% <1% <1% <1% 1-5% 1-5% 5-10%
Nonnative Species in Pool Specie Brassica nigra Bromus hordea Bromus madriten Centaurea melitens Erodium botrys - Festuca myuros - Glebionis coror Hainardi Helminthotheca echi	es Name es soft brome es	Cover <1% <1% <1% <1% 1-5% 1-5% 5-10% 5-10%
Nonnative Species in Pool Specie Brassica nigra Bromus hordea Bromus madriten Centaurea melitens Erodium botrys - Festuca myuros - Glebionis coror Hainardi Helminthotheca echi Matricaria discoid	es Name es Soft brome es	Cover <1% <1% <1% <1% 1-5% 1-5% 5-10% 5-10% <1%
Nonnative Species in Pool Specie Brassica nigra Bromus hordea Bromus madriten Centaurea melitens Erodium botrys - Festuca myuros - Glebionis coror Hainardi Helminthotheca echi Matricaria discoid Mesembryanthemum nodifl	es Name a - black mustard aceus - soft brome bis - compact brome bis - Maltese star-thistle longbeak stork's bill rattail sixweeks grass haria - crown daisy ia cylindrica ioides - bristly oxtongue dea - pineapple weed	Cover <1% <1% <1% <1% 1-5% 1-5% 5-10% 5-10% <1% <1%
Nonnative Species in Pool Speci Brassica nigra Bromus hordea Bromus madriten Centaurea melitens Erodium botrys - Festuca myuros - Glebionis coror Hainardi Helminthotheca echi Matricaria discoid Mesembryanthemum nodifl Phalaris minor - li	es Name a - black mustard aceus - soft brome bis - compact brome bis - Maltese star-thistle longbeak stork's bill rattail sixweeks grass haria - crown daisy ia cylindrica ioides - bristly oxtongue dea - pineapple weed lorum - slender leaved ice plant	Cover <1% <1% <1% <1% 1.5% 1.5% 5-10% 5-10% <1% <1%
Nonnative Species in Pool Specie Brassica nigra Bromus hordea Bromus madriten Centaurea melitens Erodium botrys - Festuca myuros - Glebionis coror Hainardi Helminthotheca echi Matricaria discoid Mesembryanthemum nodifl Phalaris minor - li Polypogon monspeliensi Salsola tragus - p	es Name a - black mustard aceus - soft brome bis - compact brome bis - Maltese star-thistle longbeak stork's bill rattail sixweeks grass haria - crown daisy ia cylindrica ioides - bristly oxtongue dea - pineapple weed lorum - slender leaved ice plant ittleseed canarygrass is - annual rabbitsfoot grass rickly Russian thistle	Cover <1% <1% <1% <1% 1-5% 1-5% 5-10% 5-10% <1% <1% <1% <1% <1% <1% <1% <1
Nonnative Species in Pool Speci Brassica nigra Bromus hordea Bromus madriten Centaurea melitens Erodium botrys - Festuca myuros - Glebionis coror Hainardi Helminthotheca echi Matricaria discoid Mesembryanthemum nodifl Phalaris minor - li Polypogon monspeliensi Salsola tragus - p Sonchus asper	es Name a - black mustard aceus - soft brome bis - compact brome bis - Maltese star-thistle longbeak stork's bill rattail sixweeks grass haria - crown daisy ia cylindrica ioides - bristly oxtongue dea - pineapple weed lorum - slender leaved ice plant ittleseed canarygrass is - annual rabbitsfoot grass	Cover <1% <1% <1% <1% 1.5% 1.5% 5.10% 5.10% <1% <1% <1% <1% <1%

Cover of Nonnative Species in Basin: 25-50% Nonnative Species Richness in Basin: 16

Bare Ground Cover in Basin 25-50% Cover of Rocks/Cobble in Basin: 5-10% Cover of Litter in Basin: 1-5%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1706

### 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Ambrosia chenopodiifolia - San Diego bur ragweed
Artemisia californica - coastal sagebrush
Avena barbata - slender oat
Bahiopsis laciniata - torhleaf goldeneye
Beta vulgaris - beet
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Carrichtera annua - Ward's weed
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Deinandra fasciculata - clustered tarweed
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Festuca myuros - rattail sixweeks grass
Glebionis coronaria - crown daisy
Helminthotheca echioides - bristly oxtongue
Lactuca serriola - prickly lettuce
Lysimachia arvensis - scarlet pimpernel
Melilotus indica - annual yellow sweetclover
Mesembryanthemum nodiflorum - slender leaved ice plant
Phalaris minor - littleseed canarygrass
Rhus integrifolia - lemonade berry
Salsola tragus - prickly Russian thistle
Simmondsia chinensis - jojoba
Sonchus asper - spiny sowthistle
Sonchus oleraceus - common sowthistle
Stephanomeria diegensis - San Diego milk aster

Notes/Comments: Photopoint is point 212 in "My GPS" Collector App



Photo taken: 5/14/2019 Photo location is -117.0797624, 32.71926635 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2
Complex Name: City_Robinhood_	VP_ID: 1708	
Photopoint X: -117.00381959993	Photopoint Y: 32.57722781018	Photopoint Established: 2019
2003 Baseline Survey Data		
Baseline Cover of ERAR: 0.5	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 3.0	
2019 Quantitative Monitoring Data	a	
Survey Date 5/9/2019	Survey Start Time: 3:12 PM	Survey End Time: 3:33 PM
Surveyors: Sara Allen		
VPHCP Covered Species Present:	PONU	
Cover of ERAR in Basin	Cover of NAFO in Basin:	Cover of ORCA in Basin
Cover of POAB in Basin	Cover of PONU in Basin 10	0-25%
Other Native Species in Pool:		
Specie	s Name	Cover
Deinandra fasciculata - clustered tarweed		10-25%
Psilocarphus breviss	simus - woolly marble	10-25%
	simus - woolly marble	10-25%
Nonnative Species in Pool		
Species Name		Cover
Bromus hordeaceus - soft brome		<1%
		10/

<1%
10/
<1%
<1%
<1%
<1%
<1%
5-10%

**Cover of Nonnative Species in Basin:** 5-10% Nonnative Species Richness in Basin: 7

Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: 10-25% **Cover of Litter in Basin:** 1-5% Ponded Water Present? no

Days Since Last Rain 1-5

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1708

## 2019 Quantitative Monitoring Data continued

### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Bahiopsis laciniata - torhleaf goldeneye
Beta vulgaris - beet
Brassica nigra - black mustard
Bromus hordeaceus - soft brome
Bromus madritensis - compact brome
Carrichtera annua - Ward's weed
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Daucus pusillus - American wild carrot
Deinandra fasciculata - clustered tarweed
Deschampsia danthonioides - annual hairgrass
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Erodium cicutarium - redstem stork's bill
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Glebionis coronaria - crown daisy
Isocoma menziesii - Menzies' goldenbush
Logfia gallica - narrowleaf cottonrose
Lysimachia arvensis - scarlet pimpernel
Melilotus indica - annual yellow sweetclover
Mesembryanthemum nodiflorum - slender leaved ice plant
Phalaris minor - littleseed canarygrass
Pogogyne nudiuscula - Otay mesa mint
Rhus integrifolia - lemonade berry
Salvia mellifera - black sage
Sonchus asper - spiny sowthistle
Sonchus oleraceus - common sowthistle
Stipa lepida - foothill needlegrass

Notes/Comments: None



Photo taken: 5/9/2019 Photo location is -117.0038196, 32.57722781 NAD83 State Plane California Zone 6 (feet)
Survey Year: 2019			Page 1 of 2	
Complex Name: City_Rob	oinhood_Ridge		VP_ID: 1709	
Photopoint X:         -117.00369809051         Photopoint Y:         32.5772383403			Photopoint Established: 2019	
2003 Baseline Survey Data				
Baseline Cover of ERAR:	0.5 Baseline Cover of NAFO	: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB:	0.0 Baseline Cover of PONL	<b>):</b> 0.0		
2019 Quantitative Monitor	ring Data			
Survey Date 5/9/2019	Survey Start Time: 3	8:48 PM	Survey End Time: 4:04 PM	
Surveyors: Sara Allen				
VPHCP Covered Species P	Present: PONU			
Cover of ERAR in Basin Cover of NAFO in Basin:		Basin:	Cover of ORCA in Basin	
Cover of POAB in Basi	in Cover of PONU in I	Basin <1%		
Other Native Species in P	<u>Pool:</u>			
	Species Name		Cover	
Deinandra fasciculata - clustered tarweed			50-75%	
Psilocarphu	s brevissimus - woolly marble		1-5%	
Cover of Other Native Sp Nonnative Species in Poo	-	ecies Richr	ness in Basin: 2	
	Species Name		Cover	
	Beta vulgaris		1-5%	
Bromus hordeaceus - soft brome			1-5%	
Bromus madritensis - compact brome			<1%	
Carrichtera annua			<1%	
	Centaurea melitensis - Maltese star-thistle		<1%	
	Erodium botrys - longbeak stork's bill		<1%	
	yuros - rattail sixweeks grass		1-5%	
	lainardia cylindrica		<1%	
	nois cretica - Cretanweed		<1%	
	arvensis - scarlet pimpernel		<1%	
	ninor - littleseed canarygrass		10-25%	
Sonchu	s asper - spiny sowthistle		<1%	

Cover of Nonnative Species in Basin: 25-50% Nonnative Species Richness in Basin: 12

Bare Ground Cover in Basin 1-5%Cover of Rocks/Cobble in Basin: 5-10%

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

Cover of Litter in Basin: 5-10%

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1709

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Artemisia californica - coastal sagebrush
Avena fatua - wild oat
Bahiopsis laciniata - torhleaf goldeneye
Beta vulgaris - beet
Brassica nigra - black mustard
Bromus diandrus - ripgut brome
Bromus hordeaceus - soft brome
Carrichtera annua - Ward's weed
Centaurea melitensis - Maltese star-thistle
Crassula connata - sand pygmyweed
Cylindropuntia prolifera - coastal cholla
Deinandra fasciculata - clustered tarweed
Encelia californica - California brittlebush
Eriogonum fasciculatum - Eastern Mojave buckwheat
Erodium botrys - longbeak stork's bill
Ferocactus viridescens - San Diego barrel cactus
Festuca myuros - rattail sixweeks grass
Glebionis coronaria - crown daisy
Hedypnois cretica - Cretanweed
Helminthotheca echioides - bristly oxtongue
Lamarckia aurea - goldentop grass
Logfia gallica - narrowleaf cottonrose
Matricaria discoidea - pineapple weed
Melilotus indica - annual yellow sweetclover
Mesembryanthemum nodiflorum - slender leaved ice plant
Phalaris minor - littleseed canarygrass
Psilocarphus brevissimus - woolly marble
Salsola tragus - prickly Russian thistle
Sonchus asper - spiny sowthistle

Notes/Comments: None

# Robinhood Ridge

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1709



Photo taken: 5/9/2019 Photo location is -117.0036981, 32.57723834 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2	
Complex Name: City_Robinhood_I	Ridge	VP_ID: 1710	
Photopoint X: -117.00374295169	Photopoint Y: 32.57729704310	Photopoint Established: 2019	
2003 Baseline Survey Data			
Baseline Cover of ERAR: 90.0	Baseline Cover of NAFO: 0.5	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 10.0		
2019 Quantitative Monitoring Data			
Survey Date 5/9/2019	Survey Start Time: 2:36 PM	Survey End Time: 3:06 PM	
Surveyors: Sara Allen			
VPHCP Covered Species Present:	PONU,ERAR		
Cover of ERAR in Basin 50-75%	Cover of NAFO in Basin:	Cover of ORCA in Basin	
Cover of POAB in Basin	Cover of PONU in Basin <1%		
Other Native Species in Pool:			
Species	Name	Cover	
Cylindropuntia proli	fera - coastal cholla	<1%	
Deinandra fasciculata	<ul> <li>clustered tarweed</li> </ul>	25-50%	
Psilocarphus brevissimus - woolly marble		5-10%	
Cover of Other Native Species in B	asin 50-75% Native Species Richn	ess in Basin: 4	
Nonnative Species in Pool			
Species	Name	Cover	
Bromus hordeaceus - soft brome		COVEI	
Bromus hordeace		1-5%	
Bromus hordeace Bromus madritensis	eus - soft brome		
	eus - soft brome s - compact brome	1-5%	
Bromus madritensis	eus - soft brome s - compact brome ra annua	1-5% <1%	
Bromus madritensis Carrichte	eus - soft brome s - compact brome ra annua ngbeak stork's bill	1-5% <1% <1%	
Bromus madritensis Carrichte Erodium botrys - lo	eus - soft brome s - compact brome ra annua ngbeak stork's bill ttail sixweeks grass	1-5% <1% <1% <1%	
Bromus madritensis Carrichter Erodium botrys - lo Festuca myuros - ra	eus - soft brome s - compact brome ra annua ngbeak stork's bill ttail sixweeks grass - scarlet pimpernel	1-5% <1% <1% <1% <1%	
Bromus madritensis Carrichter Erodium botrys - lo Festuca myuros - ra Lysimachia arvensis	eus - soft brome s - compact brome ra annua ngbeak stork's bill ttail sixweeks grass - scarlet pimpernel a - pineapple weed	1-5% <1% <1% <1% <1% <1%	

Days Since Last Rain 1-5

Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_Robinhood\_Ridge

Page 2 of 2

VP\_ID: 1710

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

• • • • •	
Species Name	
Artemisia californica - coastal sagebrush	
Baccharis sarothroides - desertbroom	
Bahiopsis laciniata - torhleaf goldeneye	
Beta vulgaris - beet	
Brassica nigra - black mustard	
Bromus hordeaceus - soft brome	
Bromus madritensis - compact brome	
Calystegia macrostegia - island false bindweed	
Carrichtera annua - Ward's weed	
Centaurea melitensis - Maltese star-thistle	
Crassula connata - sand pygmyweed	
Cylindropuntia prolifera - coastal cholla	
Daucus pusillus - American wild carrot	
Deinandra fasciculata - clustered tarweed	
Deschampsia danthonioides - annual hairgrass	
Encelia californica - California brittlebush	
Erigeron canadensis - Canada horseweed	
Eriogonum fasciculatum - Eastern Mojave buckwheat	
Erodium botrys - longbeak stork's bill	
Erodium cicutarium - redstem stork's bill	
Eryngium aristulatum var. parishii - San Diego button celery	
Ferocactus viridescens - San Diego barrel cactus	
Festuca myuros - rattail sixweeks grass	
Glebionis coronaria - crown daisy	
Helminthotheca echioides - bristly oxtongue	
Hypochaeris glabra - smooth cat's ear	
Lysimachia arvensis - scarlet pimpernel	
Matricaria discoidea - pineapple weed	
Melilotus indica - annual yellow sweetclover	
Mesembryanthemum nodiflorum - slender leaved ice plant	
Opuntia littoralis - coastal pricklypear	
Phalaris minor - littleseed canarygrass	
Psilocarphus brevissimus - woolly marble	
Rhus integrifolia - lemonade berry	
Salsola tragus - prickly Russian thistle	
Salvia mellifera - black sage	
Simmondsia chinensis - jojoba	
Sonchus asper - spiny sowthistle	

Notes/Comments: None

# Robinhood Ridge

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1710



Photo taken: 5/9/2019 Photo location is -117.003743, 32.57729704 NAD83 State Plane California Zone 6 (feet)

# Sanders

Planning Unit: Central Land Owner: City of San Diego Managing Department: Public Utilities VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: No

Year: 2019	
Complex Name: City_Sanders	
Planning Unit: Central City or Other? City	Managing Department: Pubic_Utilities
Baseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
Qualitative Monitoring Data:	
Visit Date: 2/12/2019 Start Time: 8:30:00	
Surveyors: Cheryl Jenkins	
Site Conditioner	
Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5	Fairy Shrimp Visible? Present
Listed Plants Visible? Present Listed Plants:	
New and Ongoing Issues Observed During Visit:	
Trash: Ongoing	Tresspass/Unauthorized Use: Ongoing
Damage to Fences and/or Signs: Ongoing	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
	eveg,Fencerepair,Fence_install,Sign_install,Dump_cleanup,T ng,RecontouringPools,Regularpatrolsrecommended
Other Management Needs:	
Additional Management Actions Recommended: Enti	re site will undergo habitat restoration beginning in 2019.
Notes:	
Management Actions Completed:	

Planning Unit: Central Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: No

Planning Unit: Central City or Other? Baseline Management and Monitoring Level:	Managing Department: Park_Recreation VPHCP Required Management and Monitoring Level:
ualitative Monitoring Data:	
Visit Date: 12/28/2018 Start Time: 2:30:00 Surveyors: Jessie Lane, Diana Brand Ramirez, Rob Whe	alar
Site Conditions:	
Ponded Water: no Days Since Last Rain: 1-9	
Listed Plants Visible? Present Listed Plan	its:
New and Ongoing Issues Observed During Visit: Trash: New	Tresspass/Unauthorized Use: Ongoing
Damage to Fences and/or Signs: New	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol, Fencerepair, Dur	mp_cleanup,Trash_pickup,Regularpatrolsrecommended
Other Management Needs:	
Additional Management Actions Recommended:	
Additional management Actions Recommended.	
Notes: mustard, thistle, erodium	
Notes: mustard, thistle, erodium	
Notes:mustard, thistle, erodiumVisit Date:2/4/2019Start Time:0:30:00	
Notes: mustard, thistle, erodium	
Notes: mustard, thistle, erodium Visit Date: 2/4/2019 Start Time: 0:30:00 Surveyors: Jason Allen <u>Site Conditions:</u>	
Notes: mustard, thistle, erodium Visit Date: 2/4/2019 Start Time: 0:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5	
Notes: mustard, thistle, erodium Visit Date: 2/4/2019 Start Time: 0:30:00 Surveyors: Jason Allen <u>Site Conditions:</u> Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plan	
Notes: mustard, thistle, erodium Visit Date: 2/4/2019 Start Time: 0:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plan New and Ongoing Issues Observed During Visit:	its:
Notes: mustard, thistle, erodium Visit Date: 2/4/2019 Start Time: 0:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plan New and Ongoing Issues Observed During Visit: Trash: Ongoing	Tresspass/Unauthorized Use: Ongoing
Notes: mustard, thistle, erodium Visit Date: 2/4/2019 Start Time: 0:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plan New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Ongoing	Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression:
Notes: mustard, thistle, erodium Visit Date: 2/4/2019 Start Time: 0:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plan New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Ongoing Invasive Species in Pool: Ongoing	Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects:
Notes: mustard, thistle, erodium Visit Date: 2/4/2019 Start Time: 0:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plan New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Ongoing	Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression:
Notes: mustard, thistle, erodium Visit Date: 2/4/2019 Start Time: 0:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plant New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Ongoing Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing	Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects:
Notes: mustard, thistle, erodium Visit Date: 2/4/2019 Start Time: 0:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plan New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Ongoing Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing?	Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: erepair,Sign_install,Dump_cleanup,Trash_pickup,Grading_reco
Notes: mustard, thistle, erodium Visit Date: 2/4/2019 Start Time: 0:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plant New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Ongoing Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,RestReveg,Fence	Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: erepair,Sign_install,Dump_cleanup,Trash_pickup,Grading_reco
Notes: mustard, thistle, erodium Visit Date: 2/4/2019 Start Time: 0:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plant New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Ongoing Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,RestReveg,Fence ntouring,Regularpatrolsrecord	nts: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: erepair,Sign_install,Dump_cleanup,Trash_pickup,Grading_recontemended

Year: 2019	mig and Management Actions		
Complex Name: City_Serra_Mesa_Library			
Visit Date: 3/21/2019 Start Time: 20:30:00			
Surveyors: Jason Allen			
Site Conditions:			
Ponded Water: no Days Since Last Rain: 1-5 Listed Plants Visible? Absent Listed Plants:	Fairy Shrimp Visible?		
New and Ongoing Issues Observed During Visit: Trash: Ongoing Tresspass/Unauthorized Use:			
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:		
Invasive Species in Pool: Ongoing	Damage from Edge Effects:		
Invasive Species in Buffer: Ongoing	Hydrological Impacts:		
Other issues observed:			
Are other issues observed is new or ongoing?			
Management Needs: Weedcontrol,RestReveg,Trash_p	ickup,Dump_cleanup,Regularpatrolsrecommended		
Other Management Needs:			
Additional Management Actions Recommended: Wee	ed management and trash cleanup soon.		
Notes: Erodium, crown daist, mustard, eucalyptus pres	sent.		
Visit Date: 5/20/2019 Start Time: 0:30:00			
Visit Date: 5/20/2019Start Time: 0:30:00Surveyors: Jason Allen			
Surveyors. Jason Allen			
Site Conditions:			
Ponded Water: no Days Since Last Rain: 1-5	Fairy Shrimp Visible?		
Listed Plants Visible? Absent Listed Plants:			
New and Ongoing Issues Observed During Visit:			
Trash: Ongoing	Tresspass/Unauthorized Use:		
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:		
Invasive Species in Pool: Ongoing	Damage from Edge Effects:		
Invasive Species in Buffer: Ongoing	Hydrological Impacts:		
Other issues observed: Are other issues observed is new or ongoing?			
	pair,Dump cleanup,Trash pickup,Grading recontouring,Reg		
ularpatrolsrecommended			
Other Management Needs:			
Additional Management Actions Recommended: Wee	ed whack cen mel, geb cor, bra nig		
Notes: Fence on North side is cut open again and I rep	aired it		

Year: 2019	
Complex Name:	City_Serra_Mesa_Library
Management Actio	ons Completed:
Date: 3/29/2019	Completed by: Jason Allen, Scott Seyfried, Moises Vasquez
Contractor (if ap	oplicable)
Management A	ctions Completed: Herbicide application to invasive species.
Notes/Commen	ts:
	Completed by: Jason Allen
Contractor (if ap	
Management A	ctions Completed: Repair cut fence.
Notes/Commen	ts:
<b>Date:</b> 6/4/2019	Completed by: Jason Allen
	pplicable) Aztec Landscaping
	ctions Completed: Crew weed whack invasive species.
_	
Notes/Commen	15.

#### **Qualitative Management Monitoring Photos**



- Photo taken: 2/4/2019
- Photo description: Invasive plant Black mustard (*Brassica nigra*) present in vernal pool basins and upland areas.



- Photo taken: 2/4/2019
- Photo description: Trash/debris on site.

#### **Qualitative Management Monitoring Photos**



- Photo taken: 2/4/2019
- Photo description: Invasive species present in vernal pool basins and upland buffer areas.



- Photo taken: 3/29/2019
- Photo description: Herbicide application to invasive species in vernal pool upland buffer.

#### **Qualitative Management Monitoring Photos**



- Photo taken: 2/6/2019
- Photo description: Fence damaged.



- Photo taken: 2/6/2019
- Photo description: Fence repaired by adding patch over hole.

# South Otay 1 Acre

Planning Unit: South Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: Yes

Year: 2019			
Complex Name: City_South_Otay_1_Acre			
Planning Unit: South City or Other? City	Managing Department: Park_Recreation		
	VPHCP Required Management and Monitoring Level:		
Qualitative Monitoring Data:			
Visit Date: 1/31/2019 Start Time: 22:30:00			
Surveyors: Jason Allen, Jessie Lane			
Site Conditions:			
Ponded Water: no Days Since Last Rain: 6-15	Fairy Shrimp Visible?		
Listed Plants Visible? Present Listed Plants:			
New and Ongoing Issues Observed During Visit:	Tracenase (Unauthorized User Ongoing		
Trash: Ongoing	Tresspass/Unauthorized Use: Ongoing		
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression: Damage from Edge Effects:		
Invasive Species in Pool: Ongoing			
Invasive Species in Buffer: Ongoing Other issues observed:	Hydrological Impacts:		
Are other issues observed is new or ongoing?			
	eveg,Add_replace_lock,Add_replace_chain,Fence_install,Sig		
	ickup,Grading_recontouring,Regularpatrolsrecommended		
Other Management Needs:			
Additional Management Actions Recommended: Publ	ic Works future mitigation site.		
Notes: Lots of inasive grasses, erodium present.			
Visit Date: 4/5/2019         Start Time: 5:30:00			
Surveyors: Jason Allen, Diana Brand			
Site Conditions:			
Ponded Water: no Days Since Last Rain: 1-5	Fairy Shrimp Visible?		
Listed Plants Visible? Present Listed Plants:			
New and Ongoing Issues Observed During Visit:			
Trash: Ongoing	Tresspass/Unauthorized Use: Ongoing		
Damage to Fences and/or Signs: Fire or Damage from Fire Suppression:			
Invasive Species in Pool: Ongoing Damage from Edge Effects:			
Invasive Species in Buffer: Ongoing	Hydrological Impacts:		
Other issues observed:			
Are other issues observed is new or ongoing?			
Management Needs: Weedcontrol, Dethatching, RestRe Grading_recontouring, Regularpa	eveg,Fence_install,Sign_install,Trash_pickup,Dump_cleanup, trolsrecommended		
Other Management Needs:			
Additional Management Actions Recommended: May	be mow of time allows.		
Notes: Public Works going to mitigate. Lots of invasive	grasses.		

Year: 2019				
Complex Name: City_South_Otay_1_Acre				
Visit Date: 5/16/2019 Start Time: 21:30:00				
Surveyors: Jason Allen, Mark Berninger, Diana Brand Ran	nirez, Ninfa Negrete			
Site Conditions:				
Ponded Water: no Days Since Last Rain: 1-5	Fairy Shrimp Visible?			
Listed Plants Visible? Present Listed Plants	ж.			
New and Ongoing Issues Observed During Visit:				
Trash: Ongoing	Tresspass/Unauthorized Use: Ongoing			
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:			
Invasive Species in Pool: Ongoing	Damage from Edge Effects:			
Invasive Species in Buffer: Ongoing	Hydrological Impacts:			
Other issues observed:				
Are other issues observed is new or ongoing?				
Management Needs: Weedcontrol, Dethatching, RestFour ouring, Regular patrols recommendation ouring, Regular patrols recommendation of the second seco	Reveg,Fence_install,Sign_install,Trash_pickup,Grading_recont nded			
Other Management Needs:				
Additional Management Actions Recommended: No	ne			
Notes: Future City Public Works Mitigation Project				
Management Actions Completed:				

# South Otay 1 Acres

**Qualitative Management Monitoring Photos** 



- Photo taken: 4/5/2019
- Photo description: Trash/debris in vernal pools.



- Photo taken: 9/5/2019
- Photo description: Thick invasive grass thatch covering vernal pool complex.

Survey Year: 2019				Page 1 of 2	
Complex Name: City_South_Otay_1_Acre				VP_ID: 1235	
Photopoint X: -117.01706611800 Photopoint Y: 32.55685648420		48420	Photopoint Established: 2018		
2003 Baseline Survey Data					
Baseline Cover of ERAR:	0.0 Baseline	Cover of NAFO:	0.5	Baseline Cover of ORCA: 10.0	
Baseline Cover of POAB:	0.0 Baseline	Cover of PONU:	0.0		
019 Quantitative Monitor	ring Data				
Survey Date 5/16/2019	Surve	ey Start Time: 9:1	4 AM	Survey End Time: 10:17 AM	
Surveyors: Jason Allen	Surveyors: Jason Allen				
VPHCP Covered Species P	resent:				
Cover of ERAR in Basi	Cover of ERAR in Basin Cover of NAFO in Basin:		Cover of ORCA in Basin		
Cover of POAB in Basi	Cover of POAB in Basin Cover of PONU in Basin		sin		
Other Native Species in P	<u>ool:</u>				
	Species Name			Cover	
Deinandra fasciculata - clustered tarweed		1-5%			
Eleocharis macrostachya - common spikerush		<1%			
Erigeron canadensis - Canada horseweed			<1%		
Lepidium nitidum - shining pepperweed		<1%			
Lysimachia minima - chaffweed		<1%			
Malvella leprosa - alkali mallow			5-10%		
Psilocarphu	s brevissimus - woolly	/ marble		25-50%	
Cover of Other Native Sp	ecies in Basin 25-50	% Native Spec	ies Rich	ness in Basin: 7	
Nonnative Species in Poo	<u>) </u>				
	Species Name			Cover	
Atriplex sem	Atriplex semibaccata - Australian saltbush			<1%	
Bromus	hordeaceus - soft bro	ome		<1%	
Bromus m	adritensis - compact l	orome		<1%	
Erodium b	otrys - longbeak stor	k's bill		1-5%	
Festuca	perennis - Italian rye g	grass		50-75%	
Hordeum	n marinum - seaside b	arley		<1%	
Hypochae	ris glabra - smooth ca	t's ear		<1%	
	a serriola - prickly lette			<1%	
	ssopifolia - hyssop loo			<1%	
Mesembryanthemum nodiflorum - slender leaved ice plant			<1%		

Page 523

1-5%

<1%

<1%

<1%

<1%

**Cover of Litter in Basin:** <1%

Nonnative Species Richness in Basin: 15

Bare Ground Cover in Basin 10-25% Cover of Rocks/Cobble in Basin: <1% Days Since Last Rain 1-5

**Cover of Nonnative Species in Basin:** 50-75%

Phalaris aquatica - harding Grass Phalaris minor - littleseed canarygrass

Salsola tragus - prickly Russian thistle

Sonchus asper - spiny sowthistle

Spergularia bocconi - sand spurry

Ponded Water Present? no

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_South\_Otay\_1\_Acre

Page 2 of 2

VP\_ID: 1235

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Atriplex semibaccata - Australian saltbush
Avena barbata - slender oat
Bromus diandrus - ripgut brome
Bromus madritensis - compact brome
Deinandra fasciculata - clustered tarweed
Erodium botrys - longbeak stork's bill
Festuca perennis - Italian rye grass
Hainardia cylindrica - Thin tail
Hordeum marinum - seaside barley
Hypochaeris glabra - smooth cat's ear
Lactuca serriola - prickly lettuce
Lamarckia aurea - goldentop grass
Lepidium nitidum - shining pepperweed
Logfia gallica - narrowleaf cottonrose
Malvella leprosa - alkali mallow
Medicago polymorpha - burclover
Mesembryanthemum nodiflorum - slender leaved ice plant
Psilocarphus brevissimus - woolly marble
Sonchus asper - spiny sowthistle
Zeltnera venusta - charming centaury

Notes/Comments: None

# South Otay 1 Acres

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1235



Photo taken: 5/16/2019 Photo location is -117.01706611800, 32.55685648420 NAD83 State Plane California Zone 6 (feet)

Survey Year: 2019		Page 1 of 2	
Complex Name: City_South_Otay	<b>VP_ID: 2339</b>		
Photopoint X: -117.01732895200	Photopoint Y: 32.55696960080	Photopoint Established: 2018	
2003 Baseline Survey Data			
Baseline Cover of ERAR: 0.5	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0		
2019 Quantitative Monitoring Data	a		
Survey Date 5/16/2019	Survey Start Time: 9:10 AM	Survey End Time: 9:43 AM	
Surveyors: Mark Berninger, Diana	a Brand Ramirez		
VPHCP Covered Species Present:	ERAR		
Cover of ERAR in Basin <1%	Cover of NAFO in Basin:	Cover of ORCA in Basin	
Cover of POAB in Basin	Cover of PONU in Basin		
Other Native Species in Pool:			
Species Name		Cover	
Cressa truxillensis - spreading alkaliweed		<1%	
Deinandra fasciculata - clustered tarweed		<1%	
Eleocharis macrostachya - common spikerush		5-10%	
Malvella leprosa - alkali mallow		5-10%	
Psilocarphus brevissimus - woolly marble		5-10%	
Cover of Other Native Species in	Basin 10-25% Native Species Richr	ness in Basin: 5	
Nonnative Species in Pool			
Species Name		Cover	
Bromus madritensis - compact brome		<1%	
Fredum between langhask stark's hill		-10/	

Bromus madritensis - compact brome	<1%
Erodium botrys - longbeak stork's bill	<1%
Festuca perennis - Italian rye grass	50-75%
Hordeum marinum - seaside barley	5-10%

Cover of Nonnative Species in Basin: 50-75% Nonnative Species Richness in Basin: 4

Bare Ground Cover in Basin 1-5%Cover of Rocks/Cobble in Basin: <1%</th>Cover of Litter in Basin: 1-5%Days Since Last Rain 1-5Ponded Water Present? noCover of Litter in Basin: 1-5%

Dead Species Present in Pool: None

Survey Year: 2019

Complex Name: City\_South\_Otay\_1\_Acre

Page 2 of 2

VP\_ID: 2339

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name
Avena sp oat
Brodiaea terrestris - dwarf brodiaea
Bromus diandrus - ripgut brome
Bromus hordeaceus - soft brome
Deinandra fasciculata - clustered tarweed
Eleocharis macrostachya - common spikerush
Erodium botrys - longbeak stork's bill
Eryngium aristulatum var. parishii - San Diego button celery
Festuca perennis - Italian rye grass
Malvella leprosa - alkali mallow
Medicago polymorpha - burclover
Melilotus indica - annual yellow sweetclover
Phalaris aquatica - harding Grass
Phalaris minor - littleseed canarygrass
Psilocarphus brevissimus - woolly marble

Notes/Comments: None

# South Otay 1 Acres

Annual Covered Plant Monitoring Photo Vernal Pool ID: 2339



Photo taken: 5/16/2019 Photo location is -117.01732895200, 32.55696960080 NAD83 State Plane California Zone 6 (feet)

# **Tecolote Canyon**

Planning Unit: Central Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: No

Planning Unit: Central City or Other? City	
Baseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
ualitative Monitoring Data:	
/isit Date: 2/12/2019 Start Time: 5:30:00	
urveyors: Jason Allen	
Site Conditions:	
Ponded Water: no Days Since Last Rain	
Listed Plants Visible? Absent Listed F	Plants:
New and Ongoing Issues Observed During Visit: Trash: Ongoing	Tresspass/Unauthorized Use: Ongoing
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoin	۶
	ence_install,Trash_pickup,Grading_recontouring,Regularpatrolsrec
ommended	
ommenueu	
Other Management Needs:	
	l:
Other Management Needs:	
Other Management Needs: Additional Management Actions Recommended Notes: Poor quality pools with no maintenance r	
Other Management Needs: Additional Management Actions Recommended Notes: Poor quality pools with no maintenance r	
Other Management Needs: Additional Management Actions Recommended Notes: Poor quality pools with no maintenance r /isit Date: 6/4/2019 Start Time: 8:30:00 Surveyors: Jason Allen	
Other Management Needs: Additional Management Actions Recommended Notes: Poor quality pools with no maintenance of Visit Date: 6/4/2019 Start Time: 8:30:00 Surveyors: Jason Allen Site Conditions:	requirements.
Other Management Needs: Additional Management Actions Recommended Notes: Poor quality pools with no maintenance of Visit Date: 6/4/2019 Start Time: 8:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain	requirements. : 1-5 Fairy Shrimp Visible?
Other Management Needs: Additional Management Actions Recommended Notes: Poor quality pools with no maintenance of Visit Date: 6/4/2019 Start Time: 8:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rains Listed Plants Visible? Absent Listed P	requirements. : 1-5 Fairy Shrimp Visible? Plants:
Other Management Needs: Additional Management Actions Recommended Notes: Poor quality pools with no maintenance of Visit Date: 6/4/2019 Start Time: 8:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain	requirements. : 1-5 Fairy Shrimp Visible? Plants:
Other Management Needs: Additional Management Actions Recommended Notes: Poor quality pools with no maintenance of Visit Date: 6/4/2019 Start Time: 8:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain Listed Plants Visible? Absent Listed F New and Ongoing Issues Observed During Visit:	requirements. : 1-5 Fairy Shrimp Visible? Plants:
Other Management Needs: Additional Management Actions Recommended Notes: Poor quality pools with no maintenance of Visit Date: 6/4/2019 Start Time: 8:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rains Listed Plants Visible? Absent Listed P New and Ongoing Issues Observed During Visit: Trash: Ongoing	requirements. : 1-5 Fairy Shrimp Visible? Plants: Tresspass/Unauthorized Use:
Other Management Needs: Additional Management Actions Recommended Notes: Poor quality pools with no maintenance of Visit Date: 6/4/2019 Start Time: 8:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Absent Listed P New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs:	requirements. : 1-5 Fairy Shrimp Visible? Plants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression:
Other Management Needs: Additional Management Actions Recommended Notes: Poor quality pools with no maintenance of Tisit Date: 6/4/2019 Start Time: 8:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain Listed Plants Visible? Absent Listed P New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing	requirements. : 1-5 Fairy Shrimp Visible? Plants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
Other Management Needs: Additional Management Actions Recommended Notes: Poor quality pools with no maintenance of Visit Date: 6/4/2019 Start Time: 8:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Absent Listed P New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing	requirements. : 1-5 Fairy Shrimp Visible? Plants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Other Management Needs: Additional Management Actions Recommended Notes: Poor quality pools with no maintenance of Visit Date: 6/4/2019 Start Time: 8:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Absent Listed P New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing Management Needs: Weedcontrol,RestReveg,Si	requirements. : 1-5 Fairy Shrimp Visible? Plants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Other Management Needs: Additional Management Actions Recommended Notes: Poor quality pools with no maintenance of Visit Date: 6/4/2019 Start Time: 8:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: Listed Plants Visible? Absent Listed P New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing Management Needs: Weedcontrol,RestReveg,Si	requirements. : 1-5 Fairy Shrimp Visible? Plants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: g? ign_install,Fence_install,Add_replace_chain,Add_replace_lock,Tras
Other Management Needs: Additional Management Actions Recommended Notes: Poor quality pools with no maintenance of Visit Date: 6/4/2019 Start Time: 8:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rains Listed Plants Visible? Absent Listed F New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing Management Needs: Weedcontrol,RestReveg,Si h_pickup,Grading_recontor	requirements. : 1-5 Fairy Shrimp Visible? Plants: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: g? ign_install,Fence_install,Add_replace_chain,Add_replace_lock,Tras buring,RecontouringPools,Regularpatrolsrecommended

# Tecolote Canyon

#### **Qualitative Management Monitoring Photos**



- Photo taken: 2/12/2019
- Photo description: Invasive plants in vernal pool.



- Photo taken: 6/4/2019
- Photo description: Trash/debris onsite.

# West Otay B

Planning Unit: South Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: No

Planning Unit: South City or Other? City	Managing Department: Park_Recreation
aseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level
alitative Monitoring Data:	
isit Date: 1/28/2019 Start Time: 18:30:00	
urveyors: Jason Allen	
Site Conditions:	
Ponded Water: yes Days Since Last Rain: 6-1	
Listed Plants Visible? Present Listed Plant	S:
New and Ongoing Issues Observed During Visit: Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool:	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	······································
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol,Regularpatrolsred	commended
Other Management Needs:	
Additional Management Actions Recommended:	
	shacking of actual pools
Notes: Maintenance by D&D Wildlife in progress no o	Lifecking of actual pools.
isit Date: 3/12/2019 Start Time: 19:30:00	
isit Date: 3/12/2019 Start Time: 19:30:00 urveyors: Jason Allen Site Conditions:	
isit Date: 3/12/2019 Start Time: 19:30:00 urveyors: Jason Allen <u>Site Conditions:</u> Ponded Water: yes Days Since Last Rain: 1-5	Fairy Shrimp Visible? Present
isit Date: 3/12/2019 Start Time: 19:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant	Fairy Shrimp Visible? Present
isit Date: 3/12/2019 Start Time: 19:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit:	Fairy Shrimp Visible? Present s:
isit Date: 3/12/2019 Start Time: 19:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash:	Fairy Shrimp Visible? Present s: Tresspass/Unauthorized Use:
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isit Date: 3/12/2019 Start Time: 19:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing	Fairy Shrimp Visible? Present s: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
isit Date: 3/12/2019 Start Time: 19:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing	Fairy Shrimp Visible? Present s: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects:
isit Date: 3/12/2019 Start Time: 19:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed:	Fairy Shrimp Visible? Present s: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
isit Date: 3/12/2019 Start Time: 19:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing?	Fairy Shrimp Visible? Present s: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
isit Date: 3/12/2019 Start Time: 19:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plant New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,Regularpatrolsree	Fairy Shrimp Visible? Present s: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:

Year: 2019				
Complex Name: City_West_Otay_B				
Visit Date: 5/14/2019 Start Time: 20:30:00				
Surveyors: Jason Allen, Mark Berninger, Diana Brand, Jessie Lane				
Site Conditions:				
Ponded Water: no Days Since Last Rain: 1-5 Fairy Shrimp Visible?				
Listed Plants Visible? Present Listed Plants:				
New and Ongoing Issues Observed During Visit: Trash: Ongoing	Tresspass/Unauthorized Use:			
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:			
Invasive Species in Pool: Ongoing	Damage from Edge Effects:			
Invasive Species in Buffer: Ongoing	Hydrological Impacts:			
Other issues observed:	, , , , , , , , , , , , , , , , , , , ,			
Are other issues observed is new or ongoing?				
Management Needs: Weedcontrol, Trash_pickup, Regul	arpatrolsrecommended			
Other Management Needs:				
Additional Management Actions Recommended: Weed control surrounding vernal pools.				
Notes: Oncosiphon in surrounding area.				
Management Actions Completed:				
Date: 10/2/2018 Completed by: Jason Allen				
Contractor (if applicable)				
Management Actions Completed: Herbicide application to invasive species.				
Notes/Comments:				
Date: 2/15/2010 Completed by: Jacob Allen Scott Soufri	ind.			
Date: 3/15/2019 Completed by: Jason Allen, Scott Seyfried Contractor (if applicable)				
Management Actions Completed: Herbicide application to invasive species.				
Notes/Comments:				

# West Otay B

#### **Qualitative Management Monitoring Photos**



- Photo taken: 1/28/2019
- Photo description: Vernal pools are currently undergoing active restoration. Contracted maintenance crew onsite.



- Photo taken: 3/12/2019
- Photo description: Vernal pools undergoing active restoration are inundated.

# **West Otay B** Qualitative Management Monitoring Photos



- Photo taken: 3/15/2019
- Photo description: Invasive plants Stinknet (*Oncosiphon piluliferum*) present in upland vernal pool buffer.



- Photo taken: 5/14/2019
- Photo description: Herbicide application to Stinknet (*Oncosiphon piluliferum*) in vernal pool upland buffer.

# West Otay C **Planning Unit: South** Land Owner: City of San Diego **Managing Department: Parks and Recreation VPHCP** Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: Yes

Planning Unit: South City or Other? City	Managing Department: Park_Recreation
Baseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
ualitative Monitoring Data:	······································
isit Date: 1/28/2019 Start Time: 19:30:00	
urveyors: Jason Allen	
Site Conditions: Ponded Water: no Days Since Last Rain: 6-15	5 Fairy Shrimp Visible?
Listed Plants Visible? Present Listed Plants	s:
New and Ongoing Issues Observed During Visit:	_ // // // // //
Trash: Ongoing	Tresspass/Unauthorized Use: Ongoing
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed: Are other issues observed is new or ongoing?	
ecommended,RecontouringPoo Other Management Needs:	Reveg,Fence_install,Sign_install,Trash_pickup,Regularpatrolsr ols
Other Management Needs: Additional Management Actions Recommended: Notes: Some pools within fence line, some outside. E Visit Date: 3/12/2019 Start Time: 18:30:00	ols
Other Management Needs: Additional Management Actions Recommended: Notes: Some pools within fence line, some outside. E Visit Date: 3/12/2019 Start Time: 18:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants	ols Button celery in one pool inside fence Fairy Shrimp Visible? Absent
Other Management Needs: Additional Management Actions Recommended: Notes: Some pools within fence line, some outside. E isit Date: 3/12/2019 Start Time: 18:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5	ols Button celery in one pool inside fence Fairy Shrimp Visible? Absent
Other Management Needs: Additional Management Actions Recommended: Notes: Some pools within fence line, some outside. E Fisit Date: 3/12/2019 Start Time: 18:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants New and Ongoing Issues Observed During Visit:	Button celery in one pool inside fence Fairy Shrimp Visible? Absent s:
Other Management Needs: Additional Management Actions Recommended: Notes: Some pools within fence line, some outside. E isit Date: 3/12/2019 Start Time: 18:30:00 urveyors: Jason Allen <u>Site Conditions:</u> Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants <u>New and Ongoing Issues Observed During Visit:</u> Trash:	Button celery in one pool inside fence Fairy Shrimp Visible? Absent S: Tresspass/Unauthorized Use: Ongoing
Other Management Needs: Additional Management Actions Recommended: Notes: Some pools within fence line, some outside. E isit Date: 3/12/2019 Start Time: 18:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs:	Button celery in one pool inside fence Fairy Shrimp Visible? Absent Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression:
Other Management Needs: Additional Management Actions Recommended: Notes: Some pools within fence line, some outside. E isit Date: 3/12/2019 Start Time: 18:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing	Button celery in one pool inside fence Fairy Shrimp Visible? Absent S: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects:
Other Management Needs: Additional Management Actions Recommended: Notes: Some pools within fence line, some outside. E isit Date: 3/12/2019 Start Time: 18:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing	Button celery in one pool inside fence Fairy Shrimp Visible? Absent S: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects:
Other Management Needs: Additional Management Actions Recommended: Notes: Some pools within fence line, some outside. E isit Date: 3/12/2019 Start Time: 18:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing?	Button celery in one pool inside fence Fairy Shrimp Visible? Absent S: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects:
Other Management Needs: Additional Management Actions Recommended: Notes: Some pools within fence line, some outside. E isit Date: 3/12/2019 Start Time: 18:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,RestReveg,Sign_ir	Button celery in one pool inside fence Fairy Shrimp Visible? Absent s: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
Other Management Needs: Additional Management Actions Recommended: Notes: Some pools within fence line, some outside. E Visit Date: 3/12/2019 Start Time: 18:30:00 urveyors: Jason Allen Site Conditions: Ponded Water: yes Days Since Last Rain: 1-5 Listed Plants Visible? Present Listed Plants New and Ongoing Issues Observed During Visit: Trash: Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed: Are other issues observed is new or ongoing? Management Needs: Weedcontrol,RestReveg,Sign_ir mmended	Button celery in one pool inside fence Fairy Shrimp Visible? Absent s: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: nstall,Fence_install,Grading_recontouring,Regularpatrolsreco

Year: 2019			
Complex Name: City_West_Otay_C			
Visit Date: 5/14/2019         Start Time: 19:30:00			
Surveyors: Jason Allen, Mark Berninger, Diana Brand Ramirez, Jessie Lane			
Site Conditions:	Folia Chaine Middle D		
Ponded Water: no Days Since Last Rain: 1-5	Fairy Shrimp Visible?		
Listed Plants Visible? Present Listed Plants	:		
New and Ongoing Issues Observed During Visit: Trash:	Tresspass/Unauthorized Use: Ongoing		
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:		
Invasive Species in Pool: Ongoing	Damage from Edge Effects:		
Invasive Species in Buffer: Ongoing Hydrological Impacts: Other issues observed:			
Are other issues observed is new or ongoing?			
,Regularpatrolsrecommended	install,Sign_replacement,Trash_pickup,Grading_recontouring		
Other Management Needs:			
Additional Management Actions Recommended: Block off old road that cuts through vernal pools.			
<b>Notes:</b> Oncosiphon onsite. Pools with focal species in Caltrans mitigation fenceline.			
Management Actions Completed:			
Date: 3/15/2019 Completed by: Jason Allen, Scott Seyfried			
Contractor (if applicable)			
Management Actions Completed: Herbicide application to invasive species.			
Notes/Comments:			
# West Otay C Qualitative Management Monitoring Photos



- Photo taken: 3/12/2019
- Photo description: Vernal pool in access road being driven through.



- Photo taken: 3/15/2019
- Photo description: Dead upland vegetation in vernal pool.

# West Otay C Qualitative Management Monitoring Photos



- Photo taken: 1/28/2019
- Photo description: Vernal pool in access road being driven through.



- Photo taken: 3/15/2019
- Photo description: Temporary blocked off vernal pool being driven through.

#### Annual VPHCP Covered Plant Monitoring

Survey Year: 2019		Page 1 of 2	
Complex Name: City_West_Otay_C		<b>VP_ID:</b> 1545	
Photopoint X: -117.0275000000	Photopoint Y: 32.56166667000	Photopoint Established: 2019	
2003 Baseline Survey Data			
Baseline Cover of ERAR: 0.5	Baseline Cover of NAFO: 0.0	Baseline Cover of ORCA: 0.0	
Baseline Cover of POAB: 0.0	Baseline Cover of PONU: 0.0		
2019 Quantitative Monitoring Da	ta		
Survey Date 5/14/2019	Survey Start Time: 2:59 PM	Survey End Time: 3:23 PM	
Surveyors: Jason Allen, Jessie La	ne, Mark Berninger, Diana Brand Ram	irez	
VPHCP Covered Species Present	: PONU,ERAR		
Cover of ERAR in Basin <1%	Cover of NAFO in Basin:	Cover of ORCA in Basin	
Cover of POAB in Basin	Cover of PONU in Basin <1	.%	
<b>Other Native Species in Pool:</b>			
Species Name		Cover	
Callitriche marginata - California water starwort		1-5%	
Deinandra fasciculata - clustered tarweed		1-5%	
Juncus bufonius - toad rush		<1%	
Myosurus minimus - little mouse tail		1-5%	
Myosurus minim		/ _	
-	annual coast plantago	<1%	

Species Name	Cover
Lythrum hyssopifolia - hyssop loosestrife	<1%

Cover of Nonnative Species in Basin:	<1% Nonnative Species Richnes	s in Basin: 1
Bare Ground Cover in Basin 10-25%	Cover of Rocks/Cobble in Basin: 5-10%	Cover of Litter in Basin: 1-5%
Days Since Last Rain 1-5	Ponded Water Present? no	
Dood Spacies Present in Pool, Nana		

Dead Species Present in Pool: None

#### **Annual VPHCP Covered Plant Monitoring**

Survey Year: 2019

Complex Name: City\_West\_Otay\_C

Page 2 of 2

VP\_ID: 1545

#### 2019 Quantitative Monitoring Data continued

#### Associated Species in Buffer (Buffer = 20 foot or 6 meter radius around basin perimeter)

Species Name Ambrosia chenopodiifolia - San Diego bur ragweed Amsinckia intermedia - common fiddleneck Artemisia californica - coastal sagebrush Artiplex semibaccata - Australian saltbush Baccharis silularis - coyotebrush Baccharis sarothroides - desertbroom Bahiopsis laciniata - torhleaf goldeneye Brassica nigra - black mustard Bromus hordeaceus - soft brome Bromus madritensis - compact brome Cardionema ramosissimum - sandcarpet Chenopodium murale - nettleleaf goosefoot Crassula connata - sand pygmyweed Deinandra fasciculata - clustered tarweed Erigeron canadensis - Canada horseweed Eriogonum fasciculatum - Eastern Mojave buckwheat Erodium botrys - longbeak stork's bill Festuca myuros - rattail sixweeks grass Juncus bufonius - toad rush Lamarckia aurea - goldentop grass Logfia gallica - narrowleaf cottonrose Lythrum hyssopifolia - hyssop loosestrife Melilotus indica - annual yellow sweetclover Oncosiphon piluliferum - stinknet Pertoma arborea - bladderpod spiderflower Plantago elongata - annual coast plantago Pseudognaphalium beneolens - cudweed Psiedoarphus brevissimus - woolly marble Schismus barbatus - comon Mediterranean grass Simmondsia chinensis - jojoba	
Amsinckia intermedia - common fiddleneck         Artemisia californica - coastal sagebrush         Atriplex semibaccata - Australian saltbush         Baccharis silularis - coyotebrush         Baccharis sarothroides - desertbroom         Bahiopsis laciniata - torhleaf goldeneye         Brassica nigra - black mustard         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Cardionema ramosissimum - sandcarpet         Chenopodium murale - nettleleaf goosefoot         Crassula connata - sand pygmyweed         Deinandra fasciculata - clustered tarweed         Eriogonum fasciculatum - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Festuca myuros - rattal sixweeks grass         Juncus bufonius - toad rush         Lamarckia aurea - goldentop grass         Logfia gallica - narrowleaf cottonrose         Lythrum hyssopifolia - hyssop loosestrife         Melilotus indica - annual yellow sweetclover         Oncosiphon piluliferum - stinknet         Peritoma arborea - bladderpod spiderflower         Plantago elongata - annual coast plantago         Pseudognaphalium beneolens - cudweed         Pilocarphus brevisimus - woolly marble         Schismus barbatus - common Mediterranean grass <td>Species Name</td>	Species Name
Artemisia californica - coastal sagebrush         Atriplex semibaccata - Australian saltbush         Baccharis pilularis - coyotebrush         Baccharis sarothroides - desertbroom         Bahiopsis laciniata - torhleaf goldeneye         Brassica nigra - black mustard         Bromus hordeaceus - soft brome         Cardionema ramosissimum - sandcarpet         Chenopodium murale - nettleleaf goosefoot         Cardionema ramosissimum - sandcarpet         Chenopodium murale - nettleleaf goosefoot         Carasula connata - sand pygmyweed         Deinandra fasciculata - clustered tarweed         Erigeron canadensis - Canada horseweed         Eriogonum fasciculatum - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Festuca myuros - rattail sixweeks grass         Juncus bufonius - toad rush         Logfia gallica - narrowleaf cottonrose         Lythrum hyssopifolia - hyssop loosestrife         Melilotus indica - annual yellow sweetclover         Oncosiphon piluliferum - stinknet         Peritoma arborea - bladderpod spiderflower         Plantago elongata - annual coast plantago         Pseudognaphalium beneolens - cudweed         Pseudognaphalium sp cudweed         Pseudognaphalium sp cudweed         Pseudognaphalium sp cudweed	
Atriplex semibaccata - Australian saltbush         Baccharis pilularis - coyotebrush         Baccharis sarothroides - desertbroom         Bahiopsis laciniata - torhleaf goldeneye         Brassica nigra - black mustard         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Cardionema ramosissimum - sandcarpet         Chenopodium murale - nettleleaf goosefoot         Crassula connata - sand pygmyweed         Deinandra fasciculata - clustered tarweed         Eriogonum fasciculatur - Eastern Mojave buckwheat         Erodum bortys - longbeak stork's bill         Festuca myuros - rattail sixweeks grass         Juncus bufonius - toad rush         Lamarckia aurea - goldentop grass         Logfia gallica - narrowleaf cottonrose         Lythrum hysopifolia - hysop loosestrife         Melilotus indica - annual yellow sweetclover         Oncosiphon piluliferum - stinknet         Peritoma arborea - bladderpod spiderflower         Plantago elongata - annual coast plantago         Pseudognaphalium beneolens - cudweed         Pseudognaphalium berveissimus - woolly marble         Schismus barbatus - common Mediterranean grass	
Baccharis pilularis - coyotebrush         Baccharis sarothroides - desertbroom         Bahiopsis laciniata - torhleaf goldeneye         Brassica nigra - black mustard         Bromus hordeaceus - soft brome         Bromus madritensis - compact brome         Cardionema ramosissimum - sandcarpet         Chenopodium murale - nettleleaf goosefoot         Crassula connata - sand pygmyweed         Deinandra fasciculata - clustered tarweed         Eriogonum fasciculata - clustered tarweed         Eriogonum fasciculatur - Eastern Mojave buckwheat         Erodium botrys - longbeak stork's bill         Festuca myuros - rattail sixweeks grass         Juncus bufonius - toad rush         Lamarckia aurea - goldentop grass         Logfia gallica - narrowleaf cottonrose         Lythrum hyssopifolia - hyssop loosestrife         Melilotus indica - annual yellow sweetclover         Oncosiphon piluliferum - stinknet         Peritoma arborea - bladderpod spiderflower         Plantago elongata - annual coast plantago         Pseudognaphalium beneolens - cudweed         Pseudognaphalium sp cudweed         Psilocarphus brevissimus - woolly marble	-
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Pseudognaphalium sp cudweed Psilocarphus brevissimus - woolly marble Schismus barbatus - common Mediterranean grass	Plantago elongata - annual coast plantago
Psilocarphus brevissimus - woolly marble Schismus barbatus - common Mediterranean grass	Pseudognaphalium beneolens - cudweed
Schismus barbatus - common Mediterranean grass	Pseudognaphalium sp cudweed
-	Psilocarphus brevissimus - woolly marble
Simmondsia chinensis - jojoba	-
· ·	Simmondsia chinensis - jojoba
Yucca schidigera - Mojave yucca	Yucca schidigera - Mojave yucca

Notes/Comments: Photopoint is point 216 in "My GPS" Collector App

# West Otay C

Annual Covered Plant Monitoring Photo Vernal Pool ID: 1545



Photo taken: 5/14/2019 Photo location is -117.02750000, 32.56166667 NAD83 State Plane California Zone 6 (feet)

# Winterwood

Planning Unit: North Land Owner: City of San Diego Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: No

#### VPHCP Qualitative Monitoring and Management Actions

Complex Name: City_Winterwood	
Planning Unit: North City or Other? City	Managing Department: Park_Recreation
Baseline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
Qualitative Monitoring Data:	
Visit Date: 2/4/2019 Start Time: 2:30:00	
Surveyors: Jason Allen	
Site Conditions:	
Ponded Water: yes Days Since Last Rain: 1-5	
Listed Plants Visible? Absent Listed Plant	
<u>New and Ongoing Issues Observed During Visit:</u> Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Suppression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues observed is new or ongoing?	
Management Needs: Weedcontrol, RestReveg, Fence	in stall Circ. in stall Track, wishing Deputy mestadows a more stall
d,Dump_cleanup,Grading_reco	
d,Dump_cleanup,Grading_reco Other Management Needs:	
d,Dump_cleanup,Grading_reco Other Management Needs:	ontouring
d,Dump_cleanup,Grading_reco Other Management Needs: Additional Management Actions Recommended: Fe Notes: Weeds erodium. Concrete blocks in pools.	ontouring
d,Dump_cleanup,Grading_reco Other Management Needs: Additional Management Actions Recommended: Fe Notes: Weeds erodium. Concrete blocks in pools.	ontouring
d,Dump_cleanup,Grading_reco Other Management Needs: Additional Management Actions Recommended: Fe Notes: Weeds erodium. Concrete blocks in pools. Visit Date: 6/28/2019 Start Time: 16:30:00 Surveyors: Jason Allen <u>Site Conditions:</u>	ontouring encing to be installed soon. Weed managemennt soon.
d,Dump_cleanup,Grading_reco Other Management Needs: Additional Management Actions Recommended: Fe Notes: Weeds erodium. Concrete blocks in pools. Visit Date: 6/28/2019 Start Time: 16:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: >16	ontouring encing to be installed soon. Weed managemennt soon.
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d,Dump_cleanup,Grading_reco Other Management Needs: Additional Management Actions Recommended: Fe Notes: Weeds erodium. Concrete blocks in pools. Visit Date: 6/28/2019 Start Time: 16:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: >16 Listed Plants Visible? Absent Listed Plant New and Ongoing Issues Observed During Visit: Trash: Ongoing	encing to be installed soon. Weed managemennt soon. <b>Fairy Shrimp Visible?</b> <b>Tresspass/Unauthorized Use:</b> Ongoing
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d,Dump_cleanup,Grading_reco Other Management Needs: Additional Management Actions Recommended: Fe Notes: Weeds erodium. Concrete blocks in pools. Visit Date: 6/28/2019 Start Time: 16:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: >10 Listed Plants Visible? Absent Listed Plants New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Invasive Species in Buffer: Other issues observed: Are other issues observed is new or ongoing?	encing to be installed soon. Weed managemennt soon. Fairy Shrimp Visible? ts: Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects:
d,Dump_cleanup,Grading_reco Other Management Needs: Additional Management Actions Recommended: Fe Notes: Weeds erodium. Concrete blocks in pools. Visit Date: 6/28/2019 Start Time: 16:30:00 Surveyors: Jason Allen Site Conditions: Ponded Water: no Days Since Last Rain: >16 Listed Plants Visible? Absent Listed Plant New and Ongoing Issues Observed During Visit: Trash: Ongoing Damage to Fences and/or Signs: Invasive Species in Pool: Invasive Species in Buffer: Other issues observed: Are other issues observed is new or ongoing? Management Needs: RestReveg,Fence_install,Sign_i	encing to be installed soon. Weed managemennt soon. <b>Fairy Shrimp Visible?</b> Tresspass/Unauthorized Use: Ongoing Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts:
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## *Winterwood* Qualitative Management Monitoring Photos



- Photo taken: 2/4/2019
- Photo description: Inundated vernal pool on City land beyond SDUSD property.



- Photo taken: 4/3/2019
- Photo description: Same vernal pool after it has dried up. Rocks used to line trail between pools. Invasive plants in vernal pool.

## *Winterwood* Qualitative Management Monitoring Photos



- Photo taken: 2/4/2019
- Photo description: Trash/debris in vernal pool.



- Photo taken: 6/28/2019
- Photo description: Path through vernal pool.

# Wruck Canyon **Planning Unit: South** Land Owner: City of San Diego **Managing Department: Parks and Recreation VPHCP Qualitative Management Monitoring Required: Yes VPHCP Quantitative Covered Plant Monitoring Required: No**

#### VPHCP Qualitative Monitoring and Management Actions

nning Unit: South City or Other? City	Managing Department: Park_Recreation
eline Management and Monitoring Level:	VPHCP Required Management and Monitoring Level:
litative Monitoring Data:	
t Date: 1/3/2019 Start Time: 7:30:00	
eyors: Jason Allen, Rob Wheeler, Diana Brand, Jessi	e Lane
ite Conditions: Ponded Water: no Days Since Last Rain: 1-5	Fairy Shrimp Visible?
Listed Plants Visible? Absent Listed Plants	s:
New and Ongoing Issues Observed During Visit:	Treesees // Incutherized Line
Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs: Invasive Species in Pool: Ongoing	Fire or Damage from Fire Suppression: Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	nyurological impacts.
Management Needs: Weedcontrol,Dethatching,Rest Other Management Needs: Additional Management Actions Recommended:	
Other Management Needs:	
Other Management Needs:         Additional Management Actions Recommended:         Notes: Low quality road rut pools. Low priority for main to be priority.         it Date: 4/2/2019       Start Time: 2:30:00         rveyors: Jason Allen         Site Conditions:         Ponded Water: no       Days Since Last Rain: 6-1!         Listed Plants Visible? Absent       Listed Plants	5 Fairy Shrimp Visible?
Other Management Needs:         Additional Management Actions Recommended:         Notes: Low quality road rut pools. Low priority for m         it Date: 4/2/2019       Start Time: 2:30:00         rveyors: Jason Allen         Site Conditions:         Ponded Water: no       Days Since Last Rain: 6-1!         Listed Plants Visible? Absent       Listed Plants         New and Ongoing Issues Observed During Visit:	naintenance. 5 Fairy Shrimp Visible? s:
Other Management Needs:         additional Management Actions Recommended:         lotes:       Low quality road rut pools. Low priority for m         it Date:       4/2/2019       Start Time:       2:30:00         veyors:       Jason Allen         ite Conditions:       Ponded Water:       no       Days Since Last Rain:       6-1!         Listed Plants Visible?       Absent       Listed Plant:         Iew and Ongoing Issues Observed During Visit:       Trash:	5 Fairy Shrimp Visible?
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ther Management Needs: dditional Management Actions Recommended: otes: Low quality road rut pools. Low priority for m t Date: 4/2/2019 Start Time: 2:30:00 veyors: Jason Allen <u>te Conditions:</u> Ponded Water: no Days Since Last Rain: 6-1! Listed Plants Visible? Absent Listed Plant: <u>ew and Ongoing Issues Observed During Visit:</u> Trash: Damage to Fences and/or Signs: New Invasive Species in Pool: Ongoing Invasive Species in Buffer: Ongoing Other issues observed:	5 Fairy Shrimp Visible? 5: Tresspass/Unauthorized Use: Fire or Damage from Fire Suppression: Damage from Edge Effects: Hydrological Impacts: repair,Regularpatrolsrecommended

#### VPHCP Qualitative Monitoring and Management Actions

Year: 2019				
Complex Name: City_Wruck_Canyon				
Visit Date: 5/8/2019 Start Time: 18:30:00				
Surveyors: Jason Allen				
Site Conditions:				
Ponded Water: no Days Since Last Rain: 1-5	Fairy Shrimp Visible?			
Listed Plants Visible? Absent Listed Plants:				
New and Ongoing Issues Observed During Visit:				
Trash: Ongoing	Tresspass/Unauthorized Use:			
Damage to Fences and/or Signs: Ongoing	Fire or Damage from Fire Suppression:			
Invasive Species in Pool: Ongoing	Damage from Edge Effects:			
Invasive Species in Buffer: Ongoing	Hydrological Impacts:			
Other issues observed:				
Are other issues observed is new or ongoing?				
Management Needs: Weedcontrol, Dethatching, RestReveg, Fencerepair, Trash_pickup, Regular patrols recommended , Fence_install				
Other Management Needs:				
Additional Management Actions Recommended: Wee	ed whacked today and picked up trash.			
Notes: Spray ice plant and russian thistle next visit. Add gate to North entrance.				
Management Actions Completed:				
Date: 4/8/2019 Completed by: Jason Allen				
Contractor (if applicable)				
Management Actions Completed: Herbicide application	n to invasive species.			
Notes/Comments:				
Date: 5/8/2019 Completed by: Jason Allen				
Contractor (if applicable)				
Management Actions Completed: Weed whack invasive species.				
Notes/Comments:				

# Wruck Canyon

#### **Qualitative Management Monitoring Photos**



- Photo taken: 5/8/2019
- Photo description: Native and non-native plants in vernal pool.



- Photo taken: 5/8/2019
- Photo description: Native and non-native plants in vernal pool weed whacked and removed.