


2022 Vernal Pool Habitat Conservation Plan  
Management and Monitoring  
Annual Report

August 2023





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## Acronyms and Abbreviations

CE	California state endangered
City	City of San Diego
CR	Vernal Pool Creation
ERAR	<i>Eryngium aristulatum</i> var. <i>parishii</i>
EN	Enhancement
FE	federally endangered
FT	federally threatened
ITP	Incidental Take Permit
MSCP	Multiple Species Conservation Program
NA	Not Applicable
NAFO	<i>Navarretia fossalis</i>
ORCA	<i>Orcuttia californica</i>
POAB	<i>Pogogyne abramsii</i>
PONU	<i>Pogogyne nudiuscula</i>
RE	Restoration
RFS	<i>Streptocephalus woottoni</i>
SDFS	<i>Branchinecta sandiegonensis</i>
TBD	To Be Determined
USFWS	United States Fish and Wildlife Service
VPHCP	Vernal Pool Habitat Conservation Plan
VP MMP	Vernal Pool Management and Monitoring Plan
Wildlife Agencies	United States Fish and Wildlife Service and the California Department of Fish and Wildlife

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# 1 Overview

## 1.1 Overview of Vernal Pool Habitat Conservation Plan and Vernal Pool Management and Monitoring Plan

In January 2018, the City of San Diego’s (City’s) Vernal Pool Habitat Conservation Plan (VPHCP) (City 2019) was approved. The VPHCP is a framework that provides effective guidance on protection, enhancement, and restoration of vernal pool resources across the VPHCP Plan Area (Figure 1.1-1). As illustrated in Figure 1.1-1, the VPHCP Plan Area represents City-jurisdiction lands and generally spans from Lake Hodges in the north to Otay Mesa in the south (refer to Chapter 2.1 of the VPHCP for further detail regarding the VPHCP Plan Area).

Management and monitoring activities detailed in the VPHCP and its supplemental document, the Vernal Pool Management and Monitoring Plan (VPMMP) (City 2020), are designed to support conservation goals consistent with the United States Fish and Wildlife Service (USFWS) Recovery Plan for Vernal Pools of Southern California (USFWS 1998) (refer to Chapter 5.0 of the VPHCP for further details regarding Conservation Goals). The following five plant species and two crustacean (shrimp) species are included as Covered Species,<sup>1</sup> in addition to their associated habitat (vernal pools):

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

The VPHCP conservation goals for the seven Covered Species are intended to provide habitat-specific and species-specific objectives that meet or exceed the City’s Multiple Species Conservation Program (MSCP) requirements.

The VPMMP outlines adaptive monitoring and management strategies applicable to individual vernal pool complexes.<sup>2</sup> Appendix A of this 2022 management and monitoring annual report (2022 Annual Report) includes a list of each vernal pool complex covered under the VPHCP. The City is responsible for adhering to management and monitoring activities outlined in the VPMMP and VPHCP, and reporting on those activities annually to USFWS and the California Department of Fish and Wildlife (collectively, the Wildlife Agencies).

## 1.2 Reporting Requirements

The City is responsible for implementing management activities, collecting and analyzing data, tracking take, and providing an annual summary to the Wildlife Agencies (refer to Chapter 5.0 of the VPMMP for further details regarding data collection, analysis, and reporting). This 2022 Annual Report fulfills the City’s annual VPHCP reporting requirements for the 2022 fiscal year (July 01, 2021 through June 30, 2022).

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<sup>1</sup> Covered status for each of the species is defined as follows: FE = federally endangered, FT = federally threatened, CE = California state endangered

<sup>2</sup> A vernal pool complex is defined as a collection of vernal pools that occur in proximity, on the same soil series and are typically biogeographically and hydrologically connected (City 2019).



### **1.3 Management and Monitoring Requirements**

#### **1.3.1 City-Owned Complexes**

The City is responsible for implementing management and monitoring under the VPHCP for vernal pool complexes on City-owned lands (see the yellow sites in Appendix A). The approach to vernal pool complex management and monitoring, including monitoring methods, sampling design, and management activities, is based on a tiered three-level assignment tied to the VPMMP standards (refer to Chapter 2 and Chapter 4 of the VPMMP for further details regarding VPMMP standards and VPHCP monitoring and management strategy, respectively). The three-tiered management level approach is based on the condition of each vernal pool complex as determined during development of the VPHCP. Changes in management level are triggered by changes in the following categories: focal plant species cover, covered shrimp species cover, average weed cover, and hydrologic function. Figure 1.3-1 illustrates the relationship between management level and the VPMMP standards. Management activities based on management level are detailed in Table 4-6 of the VPMMP.

Per the VPHCP, at least 3 years of data collection during adequate rainfall years (at least 55 percent [%] of average total rainfall) are required to provide an analysis that would identify triggers in change of management level of an individual complex (refer to Table 4-5 of the VPMMP for further detail regarding management level triggers). Section 2.1.2 of this 2022 Annual Report provides an analysis of precipitation between fiscal years 2019 and 2022 in relation to management and monitoring levels. This annual report summarizes the third year of VPHCP implementation and analyzes management level performance for Years 1 through 4 for vernal pool complexes in all management levels. Of note, Level 3 vernal pool complexes are not subject to management level change until 5 years of management is fulfilled. Therefore, the analyses presented in this 2022 Annual Report for Level 3 complexes are for reference only. If results trigger a change in management level for a Level 1 or Level 2 vernal pool complex, the City will revise the VPMMP to include updated maintenance and monitoring requirements for the new management level.

#### **1.3.2 Privately-Owned and Conserved Pre-MSCP Complexes**

Vernal pools located on six private properties (green sites listed in Appendix A) that were conserved prior to the adoption of the City's MSCP Subarea Plan (City 1997) are currently not managed under the City's VPMMP. These six sites are known as the "orphan sites." The City conducts passive qualitative monitoring from publicly accessible vantage points for these orphan sites and does not capture a complete assessment of the complex's condition. Furthermore, the City does not have legal access or an established easement to perform a more in-depth level of monitoring.

In 2022, the City conducted site-specific research to determine current property ownership and status of orphan sites within the VPHCP Plan Area. This effort involved extensive online research to confirm current ownership of these properties as ownership may have changed since the last parcel map update. City staff will continue to engage with these six property owners to discuss the importance of vernal pool resources on their respective properties and the possibility to convey the properties to the City as funding and staff resources are identified and become available.

### **1.4 Private Property Reporting Enforcement**

In addition to the City's obligation to perform management and monitoring for vernal pool complexes on City-owned lands within the VPHCP Plan Area, the City is also responsible for enforcing management and monitoring of vernal pool complexes on privately owned lands that are covered under the VPHCP (see the orange sites in Appendix A). Since private projects listed in Appendix A were approved prior to development of the VPHCP, private projects approved and pending VPHCP adoption will develop and follow a standardized reporting method. Section 2.2 of this 2022 Annual Report discusses further details regarding management and monitoring for private properties that are subject to the VPHCP.

Currently, the City is developing an online portal to facilitate private property management reporting for vernal pools. This online portal will streamline submittal of private projects required vernal pool annual reports through a centralized location that will be accessible across City departments. This would facilitate

adequate reporting submissions that meet VPHCP requirements and allow for a timely response from City Staff, as needed. Currently, reports are either e-mailed to the Development Services Department, Wildlife Agencies, or the MSCP Program Manager. It is anticipated that the City will transition to accepting online document submission through the portal in the reporting year 2023-2024.

### **1.5 Take Tracking**

The USFWS Section 10 Incidental Take Permit (ITP) issued to the City for the VPHCP requires tracking of take associated with Covered Projects and Covered Activities under the VPHCP. It is the City's responsibility to track incidental take associated with Covered Projects and Covered Activities on both City-owned and private lands. In addition, the ITP allows extension of authorized take outside of City jurisdiction through a Certificate of Inclusion that can be issued to private property owners. Private property owners covered by the ITP are required to satisfy management and monitoring standards outlined in the VPHCP. Section 2.3 of this 2022 Annual Report details a running total of take across VPHCP-covered projects.

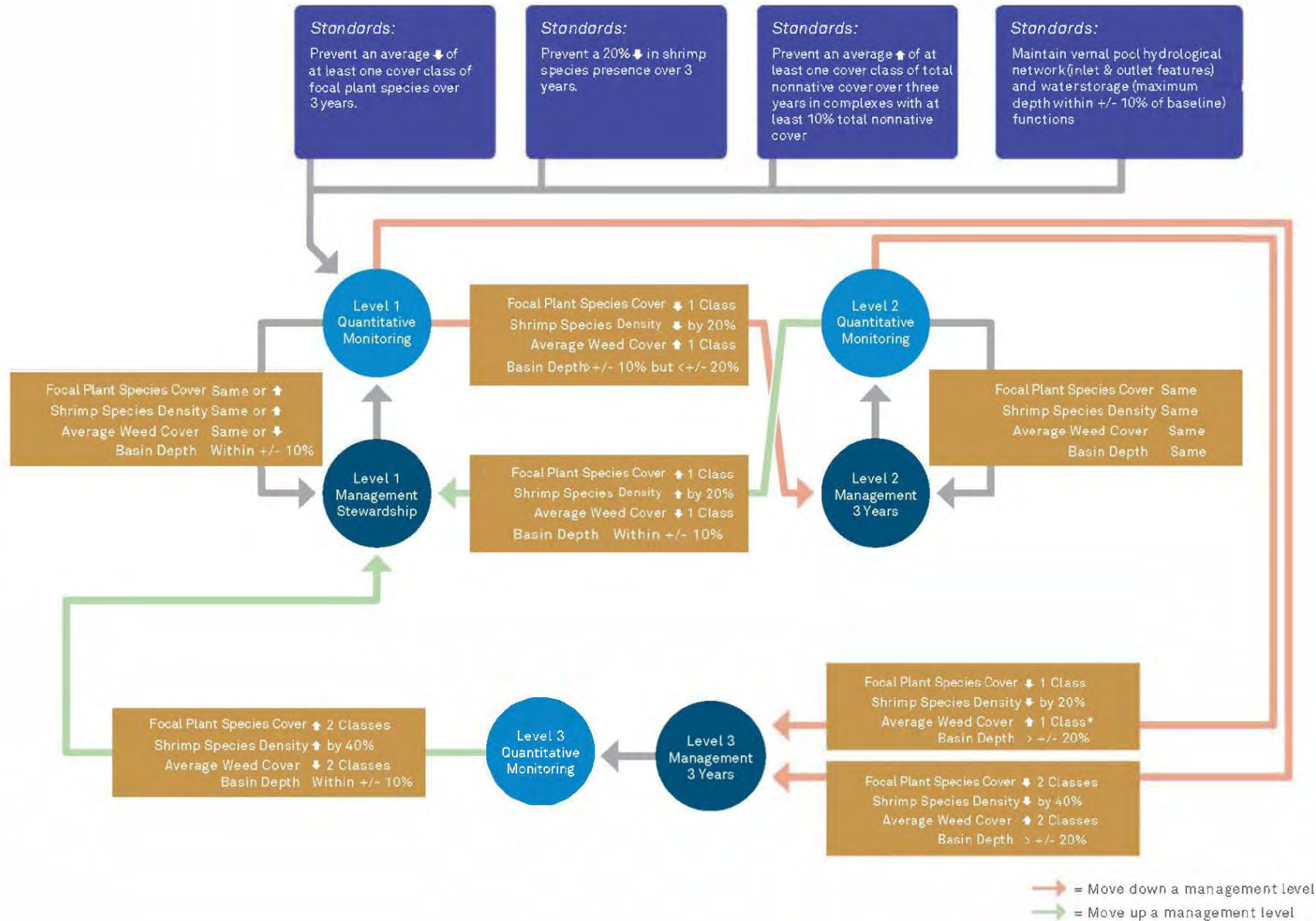
### **1.6 VPHCP and VPMMP Updates**

Following adoption of the VPHCP, the City has encountered nuances associated with implementation of the VPHCP, which warrant updates to the VPHCP and VPMMP. A description of proposed updates is described herein.

#### **1.6.1 Newly Observed Vernal Pools and Vernal Pool Complexes**

The VPHCP was based on data available at the time of the document's development. Following the adoption of the VPHCP, the City has observed vernal pools and vernal pool complexes that were not captured during implementation of the City of San Diego 2002-2003 Vernal Pool Inventory (baseline studies) (City 2002-2003) that informed the VPHCP. It was understood that comprehensive surveys were not performed of the entire planning area and the City and Wildlife Agencies anticipated the need to incorporate additional vernal pools as they were discovered during subsequent surveys that would follow implementation of the VPHCP. Because these vernal pools were not captured during baseline studies, no management sheets were developed and, therefore, no management levels were assigned to the newly observed vernal pool complexes. To introduce these vernal pools and complexes, the City will perform baseline studies for the newly observed vernal pools and vernal pool complexes. The results of the baseline studies will be included in site-specific management sheets to be provided in the 2023 Annual Report.

Figure 1.3-1. VPHCP Monitoring and Management Level Flow Chart



## 2 Reporting Summary

### 2.1 City Monitoring and Management

#### 2.1.1 Qualitative Monitoring and Management Activities

##### **Methods**

During the reporting period, the City performed annual qualitative monitoring within all City-owned vernal pool complexes listed in the VPHCP, regardless of management level. The purpose of qualitative monitoring is to generate management recommendations that can be planned and conducted within an appropriate and feasible timeframe. Qualitative visit assessments are designed to evaluate overall disturbance of each complex and capture the following conditions and threats: fencing and signage, edge effects, fire and fire suppression, trespassing, topographic disturbance, invasive species, inundation, fairy shrimp presence, and other incidental sightings (refer to Chapter 4.1.3 in the VPMMP for further details regarding monitoring methods). Within City-owned vernal pool complexes, qualitative monitoring visits were recorded digitally through a data collection mobile application, Survey123. Similarly, and in response to qualitative monitoring recommendations, management activities were also recorded with the Survey123 form.

##### **Results**

Qualitative monitoring for the City-owned vernal pool complexes was generally conducted during the winter and spring months (February through May) of 2022. Management activities were conducted throughout the fiscal year, as feasible and in response to level of urgency (as determined by monitoring assessments). Results of monitoring and management activities are summarized in Table 2-1. Table 2-1 also includes newly observed vernal pools and complexes not recorded in the VPHCP; these pools are prefixed with “NEW” in the complex name and/or vernal pool identification. In addition to monitoring of City-managed vernal pool complexes, the City performed passive qualitative monitoring for privately owned pre-MSCP sites (“orphan sites”); monitoring results for these sites are summarized in Table 2-2. Appendix B-1 of this 2022 Annual Report includes datasheets detailing complex-specific monitoring and management information. Appendix C-1 includes photos taken during management visits and depicts activities such as weed control, fencing repair, and trash pickup.

#### 2.1.2 Quantitative Monitoring and Management Level Assessment

##### **Methods**

Quantitative monitoring for vernal pool complexes includes assessments of the five covered plant species and two covered shrimp species. Monitoring requirements and sample size are based on management level assignment for each vernal pool complex, with greater level of effort associated with higher management levels. Monitoring of floral components within vernal pools includes quantitative data collection of nonnative and native species cover, including covered plant species. Cover estimates are based on the California Native Plant Society plant cover methodology and collected from pool margins to avoid disturbance. Additionally, cover estimates for native and nonnative species collected for vernal pool basins include a 6-meter buffer surrounding the individual surveyed basins. Quantitative monitoring results were recorded digitally through Survey123.

To monitor covered shrimp species, wet season and/or dry season sampling is used to estimate population density; these estimates are tracked over time to monitor changes in population size at sampled vernal pools (refer to Chapter 4.1.4 of the VPMMP for further details regarding quantitative monitoring methods for covered plant species and covered shrimp species).

**Table 2-1. Qualitative Monitoring and Management Events for City of San Diego-managed Vernal Pool Complexes**

Mgmt. Level	Planning Unit	Complex Series	Vernal Pool Complex Name <sup>1</sup>	Qualitative Monitoring Events Occurred <sup>2,3</sup>	Management Events Occurred <sup>3</sup>
Level 1	North	H 38	Carmel Mountain	Yes	Yes
		D 5-8	Carroll Canyon/Parkdale Carroll Canyon	Yes	Yes
		B 7-8	Crescent Heights	Yes	No
		H 1-10, 13-15, 18-26	Del Mar Mesa (City)	Yes	Yes
		H 39	Greystone Torrey Highlands	Yes	Yes
		B 7-8	Lopez Ridge (City)	Yes	Yes
		X 5	Nobel Drive	Yes	Yes
		I 12	Pueblo Lands (South)	Yes	No
	Central	Q 2	Mission Trails Regional Park (City)	Yes	Yes
		N 5-6	Montgomery Field	Yes	No
		KK 2	Pasatiempo	Yes	Yes
		N 7	Serra Mesa Library	Yes	Yes
	South	J 14	Anderprises (City)	Yes	Yes
		J 2	Cal Terraces (North) (City), Otay Mesa Road Parcels <sup>o</sup>	Yes	Yes
		J 14	Cal Terraces (South)	Yes	Yes
		J 2	Clayton Parcel	Yes	Yes
		J 16-18	Goat Mesa (City)	Yes	Yes
		J 31	Hidden Trails	Yes	Yes
		MM 1	Marron Valley	Yes	Yes
		K 5	Otay Lakes	Yes	Yes
R 1		Proctor Valley	Yes	Yes	
J 32		West Otay B	Yes	Yes	
J 32		West Otay C	Yes	Yes	
J 16-18		Wruck Canyon	Yes	Yes	
Level 2	Central	U 15	SANDER	No	No
	South	J 4-5	Robinhood Ridge	Yes	Yes
Level 3	South	J 35	Brown Field <sup>+</sup>	Yes	No
		J 13 N	South Otay 1 acre (City)	Yes	Yes
NA	North	C10-16	Winterwood (City) <sup>+,o</sup>	Yes	No
		TBD	NEW: Fairbanks Highlands	Yes	No
		TBD	NEW: Dormouse	Yes	Yes
		TBD	NEW: Stowe	Yes	No
	Central	TBD	NEW: Calle de Vida	Yes	Yes
		QQ	Tecolote Canyon <sup>++</sup>	Yes	Yes
	South	NC	Kelton <sup>++</sup>	Yes	No
		TBD	NEW: Ocean View Hills Pkwy	Yes	Yes
		TBD	NEW: Topsail	Yes	No
TBD	NEW: Seabird Way	Yes	Yes		

<sup>1</sup> Cross (+) indicates that vernal pool complex performs under site-specific restoration plan or management plan (refer to Appendix B of the VPMMP for further details); "NEW" indicates that vernal pool complex was not captured during VPHCP implementation, therefore is not assigned to a management level nor complex series; circle (o) indicates a portion of the vernal pool complex is not under City ownership: Complex J 2 = partial site ownership by Tripoint, Complex C10-16 - partial site ownership by San Diego Unified School District; (++) double cross indicates that no management is required per the VPMMP.

<sup>2</sup> Per VPMMP, all levels require three visits to occur annually during the wet season.

<sup>3</sup> Details regarding monitoring observations and management activities are provided in Appendix B-1. Management activities were conducted as needed within each vernal pool complex. Of note, health guidelines outlined during the COVID-19 pandemic restricted the number of management events that were feasible to implement during the overlapping portion of fiscal year 2021.

Key to acronyms used: **NA** = Not Applicable; **TBD** = To Be Determined

**Table 2-2. Qualitative Monitoring and Management Events for Private Conserved Pre-MSCP Vernal Pool Complexes**

Mgmt. Level	Planning Unit	Complex Series	Vernal Pool Complex Name	Passive Qualitative Monitoring Occurred <sup>1, 2</sup>
NA	North	C 17-18	Fieldstone	No
		H 33	East Ocean Air Drive	No
		I 1	Arjons	No
		I 6 B	Ford Leasing (Bob Baker)	Yes
		I 6 C	Facilities Development (Eastgate Miramar Associates)	Yes
	South	J 27	Empire Center	No

<sup>1</sup> Details regarding monitoring observations and management activities are provided in Appendix B-1.

<sup>2</sup> During the reporting period, right-of-entry permits to access these sites were not available to the City; therefore, City staff were only able to view the properties from the public right-of-way (i.e., not physically onsite) to conduct qualitative monitoring visits; in some cases, access to the sites during the reporting period was not feasible. Of note, health guidelines outlined during the COVID-19 pandemic restricted the number of monitoring events that were feasible to implement during the overlapping portion of fiscal year 2022.

Key to acronyms used: NA = Not Applicable

### Results

Quantitative monitoring for City-owned vernal pool complexes was generally conducted during the spring months (February through May) of 2022. Vernal pool-specific monitoring datasheets are attached as Appendix B-2 and include comprehensive floral inventories and cover estimates for each surveyed vernal pool. Vernal pool sampling size and individual vernal pool selection (for monitoring) within each vernal pool complex are summarized in Table 2-3. Generally, pool selection was determined by management level requirements and influenced by presence of focal species recorded during baseline surveys. In the time since baseline conditions were documented (2003) and Year 4 of VPHCP implementation (2022), focal species have been detected at various individual vernal pools across City-owned vernal pool complexes where they were not previously detected; this is shown in Table 2-3. The City intends to work with the Wildlife Agencies to incorporate newly detected focal species locations into the baseline conditions that drive the VPMMP requirements. Table 2-4 summarizes cover class estimates for each focal species and nonnative species cover recorded in 2022, while Table 2-5 summarizes the three-year average change from baseline conditions (illustrated in a graduated color scale). The years analyzed for management level change vary by conditions met and is discussed in further detail herein. Additionally, photos of surveyed vernal pool basins, photographed during quantitative surveys, are attached as Appendix C-2.

Newly observed vernal pools and complexes included in Table 2-1 did not receive quantitative monitoring and are, therefore, not included in the data summary tables. The City is working with the Wildlife Agencies to develop an onboarding process for newly observed vernal pools and vernal pool complexes into the VPMMP. Qualitative assessments of these newly observed vernal pools and complexes did not warrant quantitative monitoring of covered shrimp species; therefore, quantitative monitoring was not conducted during the 2022 fiscal year for newly observed vernal pools and complexes.

A management level change analysis is conducted in this 2022 Annual Report for planning units that received adequate rainfall (i.e., at least 55% of the historic average as defined in the VPHCP) during at least three of the 2019, 2020, 2021, and 2022 rainfall years. Yearly rainfall measured from July through June was compared to the historic average total annual rainfall (30 years) of two weather stations: Montgomery Field and Brown Field. Montgomery Field weather station is representative of rainfall across the north and central VPHCP planning units, while Brown Field weather station is representative of rainfall across the south VPHCP planning unit. In 2022, yearly rainfall measurements were within at least 55% of the average rainfall benchmark throughout the north, central, and south planning units; Brown Field weather station recorded approximately 9.36 inches of rainfall in 2022, compared to the historic average of 9.6 inches; and Montgomery Field weather station recorded approximately 6.88 inches of rainfall in



**Table 2-3. Quantitative Monitoring Basins for City of San Diego-managed Vernal Pool Complexes by Management Level**

Mgmt. Level	Planning Unit <sup>1</sup>	Vernal Pool Complex Name - Complex Series Vernal Pool ID <sup>2</sup>	Total Number of Conserved Pools within Complex <sup>3</sup>	Total Number of Conserved Pools Occupied by Focal Species (Sample Size) <sup>3,4</sup>						
				√ = Presence of Focal Species <sup>5</sup> at Baseline <sup>6</sup> Ω = Presence of Focal Species Detected after Baseline						
				PONU	POAB	NAFO	ERAR	ORCA	RFS	SDFS
Level 1	North*	<b>Carroll Canyon/Parkdale Carroll Canyon - D 5-8</b>	<b>116</b>	<b>0 (0)</b>	<b>42 (6)</b>	<b>1 (1)</b>	<b>65 (7)</b>	<b>0 (0)</b>	<b>0 (-)</b>	<b>5 (-)</b>
		Pool 1077		-	√	√	√	-	-	-
		Pool 1092		-	√	Ω	√	-	-	√
		Pool 1096		-	√	-	√	-	-	-
		Pool 1109		-	√	-	√	-	-	√
		Pool 1740		-	√	-	√	-	-	-
		Pool 1743		-	-	-	√	-	-	-
		Pool 1746		-	√	-	√	-	-	√
		<b>Del Mar Mesa (City) - H 1-10, 13-15, 18-26</b>	<b>92</b>	<b>0 (0)</b>	<b>3 (1)</b>	<b>0 (0)</b>	<b>49 (5)</b>	<b>0 (0)</b>	<b>0 (-)</b>	<b>8 (-)</b>
		Pool 1255		-	-	-	√	-	-	-
		Pool 1260		-	Ω	Ω	√	-	-	-
		Pool 1264		-	-	-	√	-	-	-
		Pool 1272		-	-	-	√	-	-	-
		Pool 1842		-	√	-	Ω	-	-	-
		Pool 2468		-	-	-	√	-	-	-
		<b>Greystone Torrey Highlands - H 39</b>	<b>19</b>	<b>0 (0)</b>	<b>5 (1)</b>	<b>0 (0)</b>	<b>3 (1)</b>	<b>0 (0)</b>	<b>0 (-)</b>	<b>0 (-)</b>
		Pool 1177		-	√	-	√	-	-	-
		<b>Lopez Ridge (City) - B 7-8</b>	<b>10</b>	<b>0 (0)</b>	<b>10 (2)</b>	<b>0 (0)</b>	<b>1 (1)</b>	<b>0 (0)</b>	<b>0 (-)</b>	<b>2 (-)</b>
		Pool 706		-	√	-	√	-	-	-
	Pool 712		-	√	-	-	-	-	-	
	Central*	<b>Montgomery Field - N 5-6</b>	<b>333</b>	<b>0 (0)</b>	<b>129 (13)</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>0 (-)</b>	<b>45 (-)</b>
		Pool 4256		-	√	-	-	-	-	√
		Pool 4596		-	√	-	-	-	-	√
Pool 5352			-	√	-	-	-	-	-	
Pool 5355			-	√	-	-	-	-	-	
Pool 5356			-	√	-	-	-	-	-	
Pool 5358			-	√	-	-	-	-	-	
Pool 5363			-	√	-	-	-	-	-	
Pool 5369			-	√	-	-	-	-	-	

Mgmt. Level	Planning Unit <sup>1</sup>	Vernal Pool Complex Name - Complex Series Vernal Pool ID <sup>2</sup>	Total Number of Conserved Pools within Complex <sup>3</sup>	Total Number of Conserved Pools Occupied by Focal Species (Sample Size) <sup>3,4</sup>						
				√ = Presence of Focal Species <sup>5</sup> at Baseline <sup>6</sup> Ω = Presence of Focal Species Detected after Baseline						
				PONU	POAB	NAFO	ERAR	ORCA	RFS	SDFS
		Pool 5371		-	√	-	-	-	-	-
		Pool 5388		-	√	-	-	-	-	-
		Pool 5423		-	√	-	-	-	-	-
		Pool 6351		-	√	-	-	-	-	-
		Pool 6384		-	√	-	-	-	-	-
		<b>Cal Terraces (North) (City), Otay Mesa Road Parcels - J 2</b>	<b>304</b>	<b>286 (29)</b>	<b>0 (0)</b>	<b>79 (12)</b>	<b>275 (29)</b>	<b>52 (10)</b>	<b>93 (-)</b>	<b>209 (-)</b>
	South*	Pool 42**		√	-	√	√	-	-	√
		Pool 51**		√	-	√	√	√	-	√
		Pool 67		√	-	-	√	-	-	-
		Pool 78		√	-	-	√	√	√	√
		Pool 89		√	-	-	√	-	-	√
		Pool 96		√	-	√	√	-	-	√
		Pool 100		√	-	√	√	-	-	√
		Pool 295		√	-	-	√	-	-	√
		Pool 301		√	-	-	√	-	√	√
		Pool 445		√	-	Ω	√	Ω	√	√
		Pool 447		√	-	√	√	-	-	√
		Pool 449		√	-	-	√	-	-	√
		Pool 450		√	-	-	√	-	-	-
		Pool 451		√	-	-	√	-	√	√
		Pool 452		√	-	-	√	-	√	√
		Pool 459		√	-	√	√	-	√	√
		Pool 464		√	-	-	√	-	√	-
		Pool 471		√	-	√	√	√	√	√
		Pool 473		√	-	√	√	-	√	√
		Pool 483		√	-	-	√	√	-	√
		Pool 484		√	-	-	√	√	√	√
		Pool 490		√	-	√	√	√	√	√
	Pool 502		√	-	√	√	√	√	√	
	Pool 509		√	-	√	√	√	√	√	
	Pool 591		√	-	-	√	√	-	√	
	Pool 1310		√	-	√	√	√	-	√	

Mgmt. Level	Planning Unit <sup>1</sup>	Vernal Pool Complex Name - Complex Series Vernal Pool ID <sup>2</sup>	Total Number of Conserved Pools within Complex <sup>3</sup>	Total Number of Conserved Pools Occupied by Focal Species (Sample Size) <sup>3,4</sup>						
				√ = Presence of Focal Species <sup>5</sup> at Baseline <sup>6</sup> Ω = Presence of Focal Species Detected after Baseline						
				PONU	POAB	NAFO	ERAR	ORCA	RFS	SDFS
		Pool 1321		√	-	-	√	-	√	√
		Pool 1713		√	-	-	√	-	√	√
		Pool 1724		√	-	-	√	-	√	√
		<b>Cal Terraces (South) - J 14</b>	<b>73</b>	<b>63 (7)</b>	<b>0 (0)</b>	<b>6 (1)</b>	<b>55 (7)</b>	<b>5 (1)</b>	<b>26 (-)</b>	<b>32 (-)</b>
		Pool 2022		√	-	-	√	Ω	√	√
		Pool 2025		√	-	√	√	-	√	√
		Pool 2039		√	-	Ω	√	-	√	√
		Pool 2043		√	-	Ω	√	√	√	√
		Pool 2044		√	-	-	√	-	√	√
		Pool 2185		√	-	-	√	-	√	√
		Pool 2189		√	-	Ω	√	-	-	√
		<b>Nobel Drive - X 5</b>	<b>11</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>1 (1)</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>0 (-)</b>	<b>6 (-)</b>
		Pool 666		-	-	√ <sup>+</sup>	-	-	-	-
		<b>Clayton Parcel - J 2</b>	<b>35</b>	<b>0 (1)</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>1 (1)</b>	<b>0 (0)</b>	<b>0 (-)</b>	<b>2 (-)</b>
		Pool 876		Ω	-	-	√	-	-	-
		<b>Goat Mesa (City) - J 16-18</b>	<b>15</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>0 (3)</b>	<b>4 (2)</b>	<b>0 (0)</b>	<b>1 (-)</b>	<b>0 (-)</b>
		Pool 1141 <sup>X</sup>		-	-	Ω	√	-	-	-
		Pool 1142 <sup>X</sup>		-	-	Ω	Ω	-	-	-
		Pool 1189 <sup>X</sup>		-	-	-	Ω	-	-	-
		Pool 1775 <sup>X</sup>		-	-	-	Ω	-	-	-
		Pool 1920 <sup>X</sup>		-	-	-	-	-	-	-
		Pool 2642		-	-	Ω	√	-	-	-
		<b>Otay Lakes - K 5</b>	<b>85</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>2 (1)</b>	<b>46 (5)</b>	<b>0 (0)</b>	<b>0 (-)</b>	<b>6 (-)</b>
		Pool 208		-	-	-	√	-	-	-
		Pool 656		-	-	-	√	-	-	-
		Pool 891		-	-	-	√	-	-	-
		Pool 892		-	-	√	√	-	-	-
		Pool 1801		-	-	-	√	-	-	-
		<b>West Otay C J 32</b>	<b>7</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>1 (1)</b>	<b>0 (0)</b>	<b>0 (-)</b>	<b>0 (-)</b>
		Pool 1545		§	-	-	√	-	-	-

Mgmt. Level	Planning Unit <sup>1</sup>	Vernal Pool Complex Name - Complex Series Vernal Pool ID <sup>2</sup>	Total Number of Conserved Pools within Complex <sup>3</sup>	Total Number of Conserved Pools Occupied by Focal Species (Sample Size) <sup>3,4</sup>						
				√ = Presence of Focal Species <sup>5</sup> at Baseline <sup>6</sup> Ω = Presence of Focal Species Detected after Baseline						
				PONU 19 (19)	POAB 0 (0)	NAFO 4 (4)	ERAR 46 (46)	ORCA 0 (0)	RFS 6 (-)	SDFS 41 (-)
Level 2	South*	<b>Robinhood Ridge J 4-5</b>	<b>83</b>							
		Pool 1577		-	-	-	√	-	-	-
		Pool 1580		-	-	-	√	-	-	-
		Pool 1595		-	-	-	√	-	-	-
		Pool 1596		-	-	-	√	-	-	-
		Pool 1598		-	-	Ω	√	-	-	-
		Pool 1599		-	-	-	√	-	-	-
		Pool 1600		-	-	-	√	-	-	-
		Pool 1601		-	-	-	√	-	-	-
		Pool 1602		√	-	-	√	-	-	-
		Pool 1603		-	-	-	√	-	-	-
		Pool 1604		-	-	-	√	-	-	-
		Pool 1606		-	-	-	√	-	-	-
		Pool 1607		Ω	-	-	√	-	-	-
		Pool 1608		√	-	-	√	-	-	-
		Pool 1609		-	-	-	√	-	-	-
		Pool 1666		-	-	-	√	-	-	-
		Pool 1667		-	-	-	√	-	-	-
		Pool 1668		√	-	√	√	-	-	-
		Pool 1669		-	-	-	√	-	-	-
		Pool 1670		√	-	-	√	-	-	-
		Pool 1671		√	-	-	√	-	-	-
		Pool 1672		-	-	-	√	-	-	-
		Pool 1673		-	-	-	√	-	-	-
		Pool 1675		-	-	-	√	-	-	-
		Pool 1676		-	-	-	√	-	-	-
		Pool 1677		-	-	-	√	-	-	-
		Pool 1678		-	-	-	√	-	-	-
Pool 1679		-	-	-	√	-	-	-		
Pool 1684		√	-	-	√	-	-	-		
Pool 1685		-	-	-	√	-	-	-		
Pool 1688		√	-	-	√	-	-	-		
Pool 1689		√	-	-	√	-	-	-		

Mgmt. Level	Planning Unit <sup>1</sup>	Vernal Pool Complex Name - Complex Series Vernal Pool ID <sup>2</sup>	Total Number of Conserved Pools within Complex <sup>3</sup>	Total Number of Conserved Pools Occupied by Focal Species (Sample Size) <sup>3,4</sup>						
				√ = Presence of Focal Species <sup>5</sup> at Baseline <sup>6</sup> Ω = Presence of Focal Species Detected after Baseline						
				PONU	POAB	NAFO	ERAR	ORCA	RFS	SDFS
		Pool 1691		-	-	-	√	-	-	-
		Pool 1692		-	-	-	√	-	-	-
		Pool 1693		-	-	-	√	-	-	-
		Pool 1694		-	-	-	√	-	-	-
		Pool 1696		√	-	-	√	-	-	-
		Pool 1697		√	-	√	√	-	-	-
		Pool 1698		√	-	-	√	-	-	-
		Pool 1699		√	-	-	√	-	-	-
		Pool 1700		√	-	√	√	-	-	-
		Pool 1701		-	-	-	√	-	-	-
		Pool 1702		√	-	-	√	-	-	-
		Pool 1703		√	-	-	Ω	-	-	-
		Pool 1705		√	-	-	Ω	-	-	-
		Pool 1706		√	-	-	-	-	-	-
		Pool 1708		√	-	-	√	-	-	-
		Pool 1709		Ω	-	-	√	-	-	-
		Pool 1710		√	-	√	√	-	-	-
Level 3	South*	<b>South Otay 1 acre (City) - J 13 N</b>	<b>17</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>1 (1)</b>	<b>1 (1)</b>	<b>1 (1)</b>	<b>0 (-)</b>	<b>0 (-)</b>
		Pool 1235		-	-	√	-	√	-	-
		Pool 2339		-	-	-	√	Ω	-	-

<sup>1</sup> Asterisk (\*) indicates rainfall within planning unit during reporting period is adequate for VPMMP standards assessment (55% of average rainfall) in the respective planning unit.

<sup>2</sup> Double asterisk (\*\*) in vernal pool ID indicates vernal pool is under ownership of Tripoint. Superscripted X (X) indicates vernal pool was impacted by the Caliente Fire in 2019, prior to integration into the program and baseline data collection.

<sup>3</sup> Based on existing management and monitoring levels developed during baseline surveys.

<sup>4</sup> Per VPMMP, sample size is based on management and monitoring levels; **Level 1:** 10% of occupied pools in each complex OR if complex has <10 pools for each covered plant species, survey at least one pool for each covered species known to occur, **Level 2 and 3:** All pools in complex with covered plant species

<sup>5</sup> Species acronyms are defined as follows: ERAR = *Eryngium aristulatum* var. *parishii*, NAFO = *Navarretia fossalis*, ORCA = *Orcuttia californica*,

POAB = *Pogogyne abramsii*, PONU = *Pogogyne nudiuscula*, RFS = Riverside fairy shrimp, SDFS = San Diego fairy shrimp.

<sup>6</sup> Cross (+) indicates a correction to baseline data for focal species presence was made during a prior reporting period.

**Table 2-4. 2022 Focal Plant and Nonnative Species Cover Classes**

Mgmt. Level <sup>1</sup>	Planning Unit <sup>2</sup>	Vernal Pool Complex Name - Complex Series Vernal Pool ID	Average Focal Plant Species Cover Classes					Average Nonnative Species Cover Class <sup>3</sup>
			PONU	POAB	NAFO	ERAR	ORCA	
<p><b>Cover classes</b> are adapted from California Native Plant Society (CNPS) plant cover methodology and are defined as a range of estimated percentage of plant cover. The cover classes are as follows: 1 = 1-10%, 2 = &gt;10–25%, 3 = &gt;25–50%, 4 = &gt;50%</p>								
Level 1	North	<b>Carroll Canyon/Parkdale Carroll Canyon - D 5-8</b>						
		Pool 1077	0	1	0	1	0	1
		Pool 1092	0	1	0	1	0	1
		Pool 1096	0	1	0	1	0	1
		Pool 1109	0	1	0	2	0	1
		Pool 1740	0	1	0	4	0	1
		Pool 1743	0	0	0	1	0	1
		Pool 1746	0	1	0	2	0	1
		<b>Del Mar Mesa (City) - H 1-10, 13-15, 18-26</b>						
		Pool 1255	0	0	0	2	0	1
		Pool 1260	0	1	0	1	0	1
		Pool 1264	0	0	0	2	0	1
		Pool 1272	0	0	0	2	0	1
		Pool 1842	0	3	0	1	0	1
		Pool 2468	0	0	0	1	0	1
		<b>Greystone Torrey Highlands - H 39</b>						
		Pool 1177	0	3	0	1	0	3
		<b>Lopez Ridge (City) - B 7-8</b>						
	Pool 706	0	1	0	0	0	1	
	Pool 712	0	1	0	0	0	1	
	Central	<b>Montgomery Field - N 5-6</b>						
		Pool 4256	0	1	0	0	0	1
		Pool 4596	0	1	0	0	0	1
		Pool 5352	0	1	0	0	0	1
		Pool 5355	0	0	0	0	0	1
		Pool 5356	0	1	0	0	0	1
		Pool 5358	0	2	0	0	0	1
		Pool 5363	0	1	0	0	0	2
Pool 5369		0	1	0	0	0	1	
Pool 5371		0	1	0	0	0	3	
Pool 5388	0	1	0	0	0	1		
Pool 5423	0	1	0	0	0	1		

Mgmt. Level <sup>1</sup>	Planning Unit <sup>2</sup>	Vernal Pool Complex Name - Complex Series Vernal Pool ID	Average Focal Plant Species Cover Classes					Average Nonnative Species Cover Class <sup>3</sup>	
			PONU	POAB	NAFO	ERAR	ORCA		
		Pool 6351	0	1	0	0	0	1	
		Pool 6384	0	3	0	0	0	1	
	South*	<b>Cal Terraces (North) (City), Otay Mesa Road Parcels - J 2</b>							
		Pool 42**	0	0	0	1	0	1	
		Pool 51**	0	1	1	1	0	2	
		Pool 67	1	0	0	1	0	3	
		Pool 78	2	0	0	2	0	3	
		Pool 89	2	0	0	1	0	3	
		Pool 96	0	0	0	3	0	1	
		Pool 100	1	0	0	3	0	2	
		Pool 295	0	0	0	1	0	2	
		Pool 301	1	0	0	1	0	1	
		Pool 445	1	0	1	1	0	1	
		Pool 447	0	0	1	1	0	1	
		Pool 449	1	0	0	1	0	1	
		Pool 450	1	0	0	3	0	1	
		Pool 451	1	0	0	1	0	4	
		Pool 452	1	0	0	1	0	1	
		Pool 459	1	0	0	1	0	1	
		Pool 464	1	0	0	1	0	4	
		Pool 471	1	0	1	1	0	2	
		Pool 473	2	0	0	1	0	1	
		Pool 483	0	0	0	1	0	1	
		Pool 484	1	0	0	2	0	1	
		Pool 490	1	0	0	1	0	1	
		Pool 502	1	0	1	1	0	1	
		Pool 509	1	0	1	1	0	1	
		Pool 591	1	0	0	2	0	2	
		Pool 1310	2	0	0	2	0	1	
		Pool 1321	3	0	0	1	0	2	
		Pool 1713	1	0	0	2	0	1	
		Pool 1724	0	0	0	2	0	1	
			<b>Cal Terraces (South) - J 14</b>						
			Pool 2022	0	0	0	2	0	2
			Pool 2025	1	0	0	1	0	1
		Pool 2039	3	0	0	1	0	1	

Mgmt. Level <sup>1</sup>	Planning Unit <sup>2</sup>	Vernal Pool Complex Name - Complex Series Vernal Pool ID	Average Focal Plant Species Cover Classes					Average Nonnative Species Cover Class <sup>3</sup>			
			PONU	POAB	NAFO	ERAR	ORCA				
		Pool 2043	1	0	1	1	0	1			
		Pool 2044	1	0	0	1	0	1			
		Pool 2185	4	0	0	1	0	1			
		Pool 2189	1	0	1	1	0	1			
		<b>Nobel Drive - X 5</b>									
		Pool 666	0	0	0	0	0	0	1		
		<b>Clayton Parcel - J 2</b>									
		Pool 876	1	0	0	1	0	0	4		
		<b>Goat Mesa (City) - J 16-18</b>									
		Pool 1141	0	0	0	1	0	0	1		
		Pool 1142	0	0	0	1	0	0	2		
		Pool 1189	0	0	0	1	0	0	1		
		Pool 1775	0	0	0	1	0	0	1		
		Pool 1920	0	0	0	0	0	0	1		
		Pool 2642	0	0	0	2	0	0	2		
		<b>Otay Lakes - K 5</b>									
		Pool 208	0	0	0	1	0	0	2		
		Pool 656	0	0	0	1	0	0	1		
		Pool 891	0	0	0	1	0	0	1		
		Pool 892	0	0	0	1	0	0	1		
		Pool 1801	0	0	0	1	0	0	2		
		<b>West Otay C J 32</b>									
		Pool 1545	1	0	0	1	0	0	2		
		Level 2	South*	<b>Robinhood Ridge J 4-5</b>							
				Pool 1577	0	0	0	0	0	0	4
Pool 1580	0			0	0	1	0	0	4		
Pool 1595	0			0	0	4	0	0	1		
Pool 1596	0			0	0	4	0	0	1		
Pool 1598	0			0	0	2	0	0	1		
Pool 1599	0			0	0	3	0	0	1		
Pool 1600	0			0	0	4	0	0	1		
Pool 1601	0			0	0	4	0	0	1		
Pool 1602	0			0	0	4	0	0	1		
Pool 1603	0			0	0	4	0	0	2		
Pool 1604	0			0	0	3	0	0	2		
Pool 1606	0			0	0	3	0	0	1		



Mgmt. Level <sup>1</sup>	Planning Unit <sup>2</sup>	Vernal Pool Complex Name - Complex Series Vernal Pool ID	Average Focal Plant Species Cover Classes					Average Nonnative Species Cover Class <sup>3</sup>
			PONU	POAB	NAFO	ERAR	ORCA	
		Pool 1607	1	0	0	3	0	1
		Pool 1608	0	0	0	4	0	1
		Pool 1609	0	0	0	3	0	1
		Pool 1666	0	0	0	3	0	1
		Pool 1667	0	0	0	4	0	1
		Pool 1668	1	0	0	3	0	2
		Pool 1669	0	0	0	4	0	2
		Pool 1670	0	0	0	4	0	2
		Pool 1671	0	0	0	4	0	2
		Pool 1672	0	0	0	4	0	2
		Pool 1673	0	0	0	4	0	2
		Pool 1675	0	0	0	4	0	1
		Pool 1676	0	0	0	3	0	1
		Pool 1677	0	0	0	3	0	3
		Pool 1678	0	0	0	4	0	1
		Pool 1679	0	0	0	3	0	1
		Pool 1684	0	0	0	4	0	1
		Pool 1685	0	0	0	1	0	1
		Pool 1688	0	0	0	4	0	1
		Pool 1689	0	0	0	4	0	2
		Pool 1691	0	0	0	4	0	3
		Pool 1692	0	0	0	4	0	1
		Pool 1693	0	0	0	4	0	3
		Pool 1694	0	0	0	0	0	1
		Pool 1696	0	0	0	4	0	2
		Pool 1697	0	0	0	3	0	3
		Pool 1698	0	0	0	3	0	2
		Pool 1699	0	0	0	3	0	4
		Pool 1700	1	0	0	1	0	3
		Pool 1701	0	0	0	3	0	2
		Pool 1702	0	0	0	4	0	2
		Pool 1703	0	0	0	1	0	4
		Pool 1705	0	0	0	1	0	4
		Pool 1706	1	0	0	0	0	1
		Pool 1708	1	0	0	0	0	4
		Pool 1709	1	0	0	0	0	4

Mgmt. Level <sup>1</sup>	Planning Unit <sup>2</sup>	Vernal Pool Complex Name - Complex Series Vernal Pool ID	Average Focal Plant Species Cover Classes					Average Nonnative Species Cover Class <sup>3</sup>
			PONU	POAB	NAFO	ERAR	ORCA	
		Pool 1710	0	0	0	2	0	4
Level 3	South*	<b>South Otay 1 acre (City) - J 13 N</b>						
		Pool 1235	0	0	0	0	0	3
		Pool 2339	0	0	0	1	0	4

<sup>1</sup> Level 3 vernal pool complexes are in Year 3 of the 5-year minimum period required prior to VPMMP standards assessment; double asterisk (\*\*) in vernal pool ID indicates vernal pool is under ownership of Tripoint.

<sup>2</sup> Asterisk (\*) indicates rainfall within planning unit during reporting period is adequate for VPMMP standards assessment (55% of average rainfall). This Annual Report analyzes data from the following years for each respective management unit: North and Central = 2019, 2020, and 2022; South = 2020, 2021, and 2022.

**Table 2-5. Average Change in Focal Plant and Nonnative Species Cover Classes and Fairy Shrimp Density from Baseline**

Mgmt. Level <sup>1</sup>	Planning Unit <sup>2</sup>	Vernal Pool Complex Name - Complex Series Vernal Pool ID	Average Focal Plant Species Cover Classes					Average Fairy Shrimp Density <sup>3</sup>		Average Nonnative Species Cover Class <sup>3</sup>	Vernal Pool Maximum Depth <sup>4,5</sup>
			PONU	POAB	NAFO	ERAR	ORCA	RFS	SDFS		
<p><b>Cover classes</b> are adapted from California Native Plant Society (CNPS) plant cover methodology and are defined as a range of estimated percentage of plant cover. The cover classes are as follows: 1 = 1-10%, 2 = &gt;10–25%, 3 = &gt;25–50%, 4 = &gt;50%.</p> <p><b>Color coding</b> Color scale indicates the following: Green cells = increase in cover class, White cells = no change in cover class, and Red cells = decrease in cover class; color coding is reversed for nonnative cover classes.</p> <p><b>Key to Symbology:</b> dash (-) = focal species not detected during baseline; forward slash (/) = vernal pool resource not evaluated.</p>											
Level 1	North	<b>Carroll Canyon/Parkdale Carroll Canyon - D 5-8</b>									
		Pool 1077	0.0	0.3	-0.3	1.0	0.0	/	/	0.0	/
		Pool 1092	0.0	1.0	0.3	0.3	0.0	/	/	0.0	/
		Pool 1096	0.0	1.0	0.0	1.3	0.0	/	/	0.0	/
		Pool 1109	0.0	0.3	0.0	1.3	0.0	/	/	0.3	/
		Pool 1740	0.0	1.3	0.0	2.3	0.0	/	/	0.0	/
		Pool 1743	0.0	0.0	0.0	1.3	0.0	/	/	0.3	/
		Pool 1746	0.0	0.0	0.0	1.7	0.0	/	/	0.0	/
		<b>Del Mar Mesa (City) - H 1-10, 13-15, 18-26</b>									
		Pool 1255	0.0	0.0	0.0	1.7	0.0	/	/	0.0	/
		Pool 1260	0.0	1.0	0.3	0.7	0.0	/	/	0.0	/
		Pool 1264	0.0	0.0	0.0	1.0	0.0	/	/	0.0	/
	Pool 1272	0.0	0.0	0.0	1.7	0.0	/	/	0.0	/	
	Pool 1842	0.0	0.3	0.0	1.0	0.0	/	/	0.0	/	
	Pool 2468	0.0	0.0	0.0	0.0	0.0	/	/	0.7	/	
	<b>Greystone Torrey Highlands - H 39</b>										
	Pool 1177	0.0	1.7	0.0	0.3	0.0	/	/	1.0	/	
	<b>Lopez Ridge (City) - B 7-8</b>										
	Pool 706	0.0	0.3	0.0	-1.0	0.0	/	/	0.0	/	
	Pool 712	0.0	0.7	0.0	0.0	0.0	/	/	0.0	/	
	Central	<b>Montgomery Field - N 5-6</b>									
		Pool 4256	0.0	0.0	0.0	0.0	0.0	/	/	0.3	/
		Pool 4596	0.0	0.3	0.0	0.0	0.0	/	/	-1.0	/
		Pool 5352	0.0	0.3	0.0	0.0	0.0	/	/	-1.0	/
Pool 5355		0.0	-0.3	0.0	0.0	0.0	/	/	-1.0	/	
Pool 5356		0.0	0.7	0.0	0.0	0.0	/	/	-2.7	/	
Pool 5358		0.0	-1.3	0.0	0.0	0.0	/	/	-2.0	/	

Mgmt. Level <sup>1</sup>	Planning Unit <sup>2</sup>	Vernal Pool Complex Name - Complex Series Vernal Pool ID	Average Focal Plant Species Cover Classes					Average Fairy Shrimp Density <sup>3</sup>		Average Nonnative Species Cover Class <sup>3</sup>	Vernal Pool Maximum Depth <sup>4,5</sup>
			PONU	POAB	NAFO	ERAR	ORCA	RFS	SDFS		
		Pool 5363	0.0	-1.7	0.0	0.0	0.0	/	/	-1.3	/
		Pool 5369	0.0	-2.0	0.0	0.0	0.0	/	/	-2.0	/
		Pool 5371	0.0	-1.0	0.0	0.0	0.0	/	/	-2.3	/
		Pool 5388	0.0	0.0	0.0	0.0	0.0	/	/	-2.0	/
		Pool 5423	0.0	0.0	0.0	0.0	0.0	/	/	-2.0	/
		Pool 6351	0.0	0.0	0.0	0.0	0.0	/	/	0.0	/
		Pool 6384	0.0	0.0	0.0	0.0	0.0	/	/	-2.0	/
		<b>Cal Terraces (North) (City), Otay Mesa Road Parcels - J 2</b>									
		Pool 42**	-3.0	0.0	-0.7	0.7	0.0	/	/	0.0	/
		Pool 51**	-2.3	0.3	0.0	0.0	-1.0	/	/	0.3	/
		Pool 67	-3.0	0.0	0.0	0.0	0.0	/	/	-0.3	/
		Pool 78	-0.7	0.0	0.0	1.0	-0.7	/	/	0.7	/
		Pool 89	-2.0	0.0	0.0	0.3	0.0	/	/	-0.3	/
		Pool 96	-1.0	0.0	-1.0	2.0	0.0	/	/	0.0	/
		Pool 100	-1.3	0.0	-1.0	2.0	0.0	/	/	0.3	/
		Pool 295	-2.0	0.0	0.0	1.3	0.0	/	/	0.3	/
		Pool 301	-1.0	0.0	0.0	0.0	0.0	/	/	0.0	/
		Pool 445	-0.7	0.0	0.3	0.7	0.3	/	/	0.0	/
		Pool 447	-2.0	0.0	-0.7	0.7	0.0	/	/	0.0	/
		Pool 449	-1.7	0.0	0.0	0.0	0.0	/	/	0.0	/
		Pool 450	-2.0	0.0	0.0	2.0	0.0	/	/	0.0	/
		Pool 451	-0.3	0.0	0.0	0.0	0.0	/	/	-1.0	/
		Pool 452	-1.0	0.0	0.0	1.0	0.0	/	/	0.0	/
		Pool 459	-1.0	0.0	-1.0	0.3	0.0	/	/	0.0	/
		Pool 464	-1.0	0.0	0.0	0.0	0.0	/	/	-1.7	/
		Pool 471	-2.0	0.0	-0.3	0.7	-1.0	/	/	0.3	/
		Pool 473	-0.3	0.0	-1.7	1.0	0.0	/	/	1.0	/
		Pool 483	-2.0	0.0	0.0	1.0	-0.7	/	/	0.0	/
		Pool 484	-1.0	0.0	0.0	1.0	-0.7	/	/	0.0	/
		Pool 490	-1.0	0.0	-1.0	0.3	-1.3	/	/	0.0	/
		Pool 502	-1.0	0.0	0.0	0.0	-1.0	/	/	0.0	/
		Pool 509	-1.0	0.0	-0.3	0.0	0.0	/	/	0.0	/
		Pool 591	0.0	0.0	0.0	1.0	-2.0	/	/	0.3	/
		Pool 1310	-0.3	0.0	-0.7	1.3	-0.7	/	/	0.0	/

Mgmt. Level <sup>1</sup>	Planning Unit <sup>2</sup>	Vernal Pool Complex Name - Complex Series Vernal Pool ID	Average Focal Plant Species Cover Classes					Average Fairy Shrimp Density <sup>3</sup>		Average Nonnative Species Cover Class <sup>3</sup>	Vernal Pool Maximum Depth <sup>4,5</sup>
			PONU	POAB	NAFO	ERAR	ORCA	RFS	SDFS		
		Pool 1321	1.3	0.0	0.0	0.0	0.0	/	/	-0.7	/
		Pool 1713	0.0	0.0	0.0	2.0	0.0	/	/	0.0	/
		Pool 1724	-1.0	0.0	0.0	1.0	0.0	/	/	0.0	/
<b>Cal Terraces (South) - J 14</b>											
		Pool 2022	-1.0	0.0	0.0	1.0	0.3	/	/	0.3	/
		Pool 2025	0.3	0.0	-1.0	0.0	0.0	/	/	0.3	/
		Pool 2039	1.3	0.0	0.7	0.7	0.0	/	/	0.0	/
		Pool 2043	-0.7	0.0	0.3	0.0	0.0	/	/	0.0	/
		Pool 2044	-0.3	0.3	0.0	0.3	0.0	/	/	0.0	/
		Pool 2185	-0.7	0.0	0.0	0.7	0.0	/	/	0.0	/
		Pool 2189	0.0	0.0	0.7	0.0	0.0	/	/	0.7	/
<b>Nobel Drive - X 5</b>											
		Pool 666	0.0	0.0	0.3	0.0	0.0	/	/	0.0	/
<b>Clayton Parcel - J 2</b>											
		Pool 876	1.0	0.0	0.0	-0.3	0.0	/	/	0.3	/
<b>Goat Mesa (City) - J 16-18</b>											
		Pool 1141	0.0	0.0	0.3	0.0	0.0	/	/	0.0	/
		Pool 1142	0.0	0.0	0.3	1.0	0.0	/	/	-1.0	/
		Pool 1189	0.0	0.0	0.0	1.0	0.0	/	/	0.0	/
		Pool 1775	0.0	0.0	0.0	1.0	0.0	/	/	0.0	/
		Pool 1920	0.0	0.0	0.0	0.0	0.0	/	/	0.0	/
		Pool 2642	0.0	0.0	0.3	1.3	0.0	/	/	-0.7	/
<b>Otay Lakes - K 5</b>											
		Pool 208	0.0	0.0	0.0	0.0	0.0	/	/	0.0	/
		Pool 656	0.0	0.0	0.0	0.0	0.0	/	/	-0.7	/
		Pool 891	0.0	0.0	0.0	0.0	0.0	/	/	0.0	/
		Pool 892	0.0	0.0	-1.0	0.0	0.0	/	/	-0.3	/
		Pool 1801	0.0	0.0	0.0	0.0	0.0	/	/	0.0	/
<b>West Otay C J 32</b>											
		Pool 1545	1.0	0.0	0.0	0.0	0.0	/	/	0.3	/

Mgmt. Level <sup>1</sup>	Planning Unit <sup>2</sup>	Vernal Pool Complex Name - Complex Series Vernal Pool ID	Average Focal Plant Species Cover Classes					Average Fairy Shrimp Density <sup>3</sup>		Average Nonnative Species Cover Class <sup>3</sup>	Vernal Pool Maximum Depth <sup>4,5</sup>
			PONU	POAB	NAFO	ERAR	ORCA	RFS	SDFS		
Level 2	South*	<b>Robinhood Ridge J 4-5</b>									
		Pool 1577	0.0	0.0	0.0	-1.0	0.0	/	/	-0.3	/
		Pool 1580	0.0	0.0	0.0	0.0	0.0	/	/	1.3	/
		Pool 1595	0.0	0.0	0.0	3.0	0.0	/	/	0.0	/
		Pool 1596	0.0	0.0	0.0	2.3	0.0	/	/	0.0	/
		Pool 1598	0.0	0.0	1.0	0.7	0.0	/	/	0.0	/
		Pool 1599	0.0	0.0	0.0	2.0	0.0	/	/	0.0	/
		Pool 1600	0.0	0.0	0.0	3.0	0.0	/	/	0.0	/
		Pool 1601	0.0	0.0	0.0	3.0	0.0	/	/	0.0	/
		Pool 1602	-1.0	0.0	0.0	3.0	0.0	/	/	0.0	/
		Pool 1603	0.0	0.0	0.0	2.0	0.0	/	/	0.3	/
		Pool 1604	0.0	0.0	0.0	2.7	0.0	/	/	0.7	/
		Pool 1606	0.0	0.0	0.0	2.3	0.0	/	/	0.0	/
		Pool 1607	0.0	0.0	0.0	2.3	0.0	/	/	0.0	/
		Pool 1608	-1.0	0.0	0.0	3.0	0.0	/	/	0.0	/
		Pool 1609	0.0	0.0	0.0	2.7	0.0	/	/	0.0	/
		Pool 1666	0.0	0.0	0.0	2.0	0.0	/	/	0.0	/
		Pool 1667	0.0	0.0	0.0	3.0	0.0	/	/	0.0	/
		Pool 1668	0.0	0.0	-0.7	2.7	0.0	/	/	0.3	/
		Pool 1669	0.0	0.0	0.0	3.0	0.0	/	/	0.3	/
		Pool 1670	-0.7	0.0	0.0	3.0	0.0	/	/	0.3	/
		Pool 1671	-1.0	0.0	0.0	3.0	0.0	/	/	0.7	/
		Pool 1672	0.0	0.0	0.0	2.3	0.0	/	/	0.7	/
		Pool 1673	0.0	0.0	0.0	2.3	0.0	/	/	-2.7	/
		Pool 1675	0.0	0.0	0.0	3.0	0.0	/	/	0.3	/
		Pool 1676	0.0	0.0	0.0	2.0	0.0	/	/	0.0	/
		Pool 1677	0.0	0.0	0.0	2.3	0.0	/	/	0.0	/
		Pool 1678	0.0	0.0	0.0	3.0	0.0	/	/	-0.7	/
		Pool 1679	0.0	0.0	0.0	2.0	0.0	/	/	0.3	/
		Pool 1684	-1.0	0.0	0.0	3.0	0.0	/	/	0.3	/
Pool 1685	0.0	0.0	0.0	0.0	0.0	/	/	0.3	/		
Pool 1688	-0.7	0.0	0.0	3.0	0.0	/	/	0.0	/		
Pool 1689	-1.0	0.0	0.0	3.0	0.0	/	/	0.3	/		
Pool 1691	0.0	0.0	0.0	2.7	0.0	/	/	-0.3	/		

Mgmt. Level <sup>1</sup>	Planning Unit <sup>2</sup>	Vernal Pool Complex Name - Complex Series Vernal Pool ID	Average Focal Plant Species Cover Classes					Average Fairy Shrimp Density <sup>3</sup>		Average Nonnative Species Cover Class <sup>3</sup>	Vernal Pool Maximum Depth <sup>4,5</sup>
			PONU	POAB	NAFO	ERAR	ORCA	RFS	SDFS		
		Pool 1692	0.0	0.0	0.0	2.3	0.0	/	/	0.0	/
		Pool 1693	0.0	0.0	0.0	2.3	0.0	/	/	-0.3	/
		Pool 1694	0.0	0.0	0.0	-1.0	0.0	/	/	-0.3	/
		Pool 1696	-0.7	0.0	0.0	3.0	0.0	/	/	0.7	/
		Pool 1697	-1.0	0.0	-1.0	2.7	0.0	/	/	0.7	/
		Pool 1698	-1.0	0.0	0.0	2.3	0.0	/	/	0.3	/
		Pool 1699	-1.0	0.0	0.0	1.3	0.0	/	/	1.0	/
		Pool 1700	0.0	0.0	-1.0	0.7	0.0	/	/	1.0	/
		Pool 1701	0.0	0.0	0.0	2.7	0.0	/	/	0.3	/
		Pool 1702	-1.0	0.0	0.0	3.0	0.0	/	/	1.0	/
		Pool 1703	-1.0	0.0	0.0	0.7	0.0	/	/	1.7	/
		Pool 1705	-1.0	0.0	0.0	1.0	0.0	/	/	0.3	/
		Pool 1706	0.0	0.0	0.0	0.0	0.0	/	/	-2.0	/
		Pool 1708	0.3	0.0	0.0	-1.0	0.0	/	/	1.0	/
		Pool 1709	0.3	0.0	0.0	-1.0	0.0	/	/	0.0	/
		Pool 1710	-0.7	0.0	-1.0	2.0	0.0	/	/	0.3	/
Level 3	South*	<b>South Otay 1 acre (City) - J 13 N</b>									
		Pool 1235	0.0	0.0	-1.0	0.0	-1.0	/	/	-0.3	/
		Pool 2339	0.0	0.0	0.0	0.0	0.3	/	/	-0.7	/

<sup>1</sup> Level 3 vernal pool complexes are in Year 3 of the 5-year minimum period required prior to VPMMP standards assessment; double asterisk (\*\*\*) in vernal pool ID indicates vernal pool is under ownership of Tripoint.

<sup>2</sup> Asterisk (\*) indicates rainfall within planning unit during reporting period is adequate for VPMMP standards assessment (55% of average rainfall). This Annual Report analyzes data from the following years for each respective management unit: North and Central = 2019, 2020, and 2022; South = 2020, 2021, and 2022.

<sup>4</sup> Fairy shrimp density surveys and topographic disturbance assessments are conducted when warranted based on qualitative survey observations, as discussed in the VPMMP.

<sup>5</sup> Baseline hydrologic surveys have not been conducted as of this monitoring period. When baseline is established, maximum depth of ponding will be measured and evaluated.

2022, compared to the historic average of 11.4 inches. The north and central planning units received adequate rainfall during three of the four years following the adoption of the VPHCP and therefore qualify for a management level change analysis across years 2019, 2020, and 2022. The south planning unit received adequate rainfall during all years following the adoption of the VPHCP and therefore qualifies for a management level change analysis across the three most recent years of 2020 through 2022; a running annual rainfall total is detailed in Table 2-6.

Based on the data available for analysis in 2022, two vernal pool complexes may be subject to a management level change from Level 1 to Level 2. However, due to the timing of this report and data analysis, completion of management activities necessary for any proposed management level changes would not be possible because the 2023 reporting period will have been completed in the time that this report is published. Therefore, the City proposes deferring management level changes to the 2024 reporting period, as determined by the 2023 reporting period data.

Based on 2022 data, the following Level 1 vernal pool complexes would have been subject to a management level change of A- (Level 1 to Level 2) based on change in focal species cover: Cal Terraces (North) and Otay Mesa Road Parcels. The following Level 1 vernal pool complex would have been subject to a management level change of A- (Level 1 to Level 2) based on change in combined nonnative species cover: Greystone Torrey Highlands. The Level 2 vernal pool complex (Robinhood Ridge) is subject to a management level change of A+ (Level 2 to Level 1) based on change in focal species cover. The City proposes updating the Robinhood Ridge vernal pool complex management level to Level 1, as the timing of this Annual Report submittal did not impact the level of management conducted at Robinhood Ridge. Additionally, recent management for Robinhood Ridge is grant-funded (2020-2024) and the level of management conducted due to grant funding exceeds Level 2 management activities. Level 3 vernal pool complexes will be analyzed for management level change in the 2023 report, once five years of data are available. A summary of management level changes is detailed in Table 2-7.

Quantitative topographic disturbance assessments (referenced in Table 2-5) were not conducted during the 2022 monitoring period due to the absence of baseline hydrologic data and are discussed in further detail in Section 2.1.3 of this 2022 Annual Report. However, minor topographic disturbance is assessed qualitatively and addressed during management activities, as needed.

### 2.1.3 Baseline Hydrologic Surveys

Baseline hydrologic surveys have not been conducted as of this monitoring period. Per the VPMMP, baseline surveys shall be conducted for the City-owned vernal pool basins and privately owned vernal pool basins subject to the VPHCP management and monitoring criteria, regardless of management level. Baseline hydrologic data shall be collected within 5 years of VPHCP implementation and serve as a benchmark from which topographic and hydrologic disturbance can be assessed (refer to Chapter 4.1.2 of the VPMMP for further details regarding baseline hydrologic surveys). Baseline hydrologic surveys will be conducted by 2024 to satisfy this requirement.

**Table 2-6. 2019–2022 Annual Rainfall Totals**

Planning Unit	Weather Station	Mean Rainfall (30 Years) <sup>1</sup>	55% of Normal Rainfall <sup>1</sup>	Total Rainfall by Year <sup>1,2</sup>			
				2019	2020	2021	2022
North	Montgomery Field	11.4	6.3	13.5	12.88	5.93	6.88
Central							
South	Brown Field	9.6	5.3	12.07	17.54	6.03	9.68

Source: <http://www.wrh.noaa.gov/sgx/obs/rtp/rtpmap.php?wfo=sgx> and San Diego County Department of Public Works

<sup>1</sup> Rainfall data is presented in inches for the appropriate region for the period of July through June, per the Hydrogeomorphic Model approach.

<sup>2</sup> Red cells indicate yearly totals did not meet 55% of normal rainfall.



**Table 2-7. Proposed Management Level Change**

Planning Unit <sup>1</sup>	Vernal Pool Complex Name - Complex Series	Proposed Management Level Change <sup>2</sup>	Average Change in Plant Species Cover Classes					Fairy Shrimp Density <sup>3</sup>		Average Nonnative Species Cover Class (2020-2022) <sup>4</sup>	Change in Hydrologic Function <sup>5</sup>
			PONU	POAB	NAFO	ERAR	ORCA	RFS	SDFS		
North*	Carroll Canyon	NC	-	0.6	0.0	1.3	-	/	/	(0.1)	/
	Del Mar Mesa (City)	NC	-	0.2	0.1	1.0	-	/	/	(0.1)	/
	Greystone Torrey Highlands	NC <sup>2</sup>	-	1.7	-	0.3	-	/	/	1.0	/
	Lopez Ridge (City)	NC	-	0.5	-	(0.5)	-	/	/	0.0	/
Central*	Montgomery Field	NC	-	(0.4)	-	-	-	/	/	(1.5)	/
South*	Cal Terraces (North), Otay Mesa Road Parcels	NC <sup>2</sup>	(1.2)	-	(0.3)	0.7	(0.3)	/	/	0.0	/
	Cal Terraces (South)	NC	(0.1)	0.0	0.1	0.4	0.0	/	/	0.2	/
	Nobel Drive	NC	-	-	0.3	-	-	/	/	0.0	/
	Clayton Parcel	NC	1.0	-	-	(0.3)	-	/	/	(0.3)	/
	Goat Mesa	NC	-	-	0.2	0.7	-	/	/	(1.7)	/
	Otay Lakes	NC	-	-	(0.2)	-	-	/	/	(0.1)	/
	West Otay C	NC	1.0	-	-	-	-	/	/	0.3	/
South*	Robinhood Ridge	Level 2 to Level 1 <sup>2</sup>	(0.3)	-	(0.1)	2.0	-	/	/	0.2	/
South*	South Otay 1 acre (City)	NA <sup>2</sup>	-	-	(0.5)	0.0	(0.3)	/	/	(0.5)	/

Key to Management Change: **NC** = No Change; **NA** = Not Applicable

Key to Symbology: dash (-) = Focal species not detected during baseline; forward slash (/) = vernal pool resource not evaluated; parentheses [( )] = decline in cover class; green and red shading = indicates change in average focal species or nonnative species cover class meets VPMMP threshold(s) to trigger a management level change.

<sup>1</sup> Asterisk (\*) indicates rainfall within planning unit during reporting period is adequate (55% of average rainfall) for VPMMP standards assessment of focal species; triggers associated with change in cover of nonnative species are applicable regardless of rainfall.

<sup>2</sup> Management level triggers are applicable only to Level 1 and Level 2 vernal pool complexes. Level 3 vernal pool complexes will be analyzed for management level triggers when a minimum of 5 years of management activities are fulfilled, per the VPMMP. Due to the timing of this report, no management level changes are proposed for the following vernal pool complexes: Greystone Torrey Highlands and Cal Terraces (North), Otay Mesa Road Parcels.

<sup>3</sup> Fairy shrimp density surveys and topographic disturbance assessments are conducted when warranted based on qualitative survey observations, as discussed in the VPMMP.

<sup>4</sup> Nonnative species triggers apply regardless of adequate rainfall and are assessed by comparing the most recent 3-year average cover to baseline cover adopted during 2018 vernal pool monitoring; management triggers A-, B-, and C- apply to complexes with greater than 10% total nonnative cover.

<sup>5</sup> Baseline hydrologic surveys have not been conducted as of this monitoring period. When baseline is established, maximum depth of ponding will be measured and evaluated.

## **2.2 Private Property Management and Monitoring**

As discussed in Section 1.4 of this 2022 Annual Report, the City's responsibilities under the VPHCP include enforcement of management and monitoring of vernal pool complexes consistent with the VPCHP. During the 2022 fiscal year, projects occurring on private property within VPHCP jurisdiction did not require long-term management and monitoring; rather, private projects were still in the implementation stage of mitigation programs. Private property management and monitoring activities for projects predating VPHCP implementation are outlined within site-specific plans. Appendix D details site-specific activities outlined within the associated plans, including requirements for maintenance, monitoring, success criteria, and reporting. Project-specific associated plans include further details regarding maintenance and monitoring requirements for each privately owned vernal pool complex. In reporting year 2022, the City requested private project mitigation management and monitoring report updates be provided to the City for inclusion in VPHCP annual reporting. The City received "Handler Commercial & Otay Mesa Road Vernal Pool Maintenance" (Alden 2022) in January 2022, included as Appendix E in this Annual Report. Report submittals anticipated during fiscal year 2023 will be included in the 2023 Annual Report.

## **2.3 Take Summary**

A yearly running total of authorized take associated with covered projects and covered activities is summarized in Table 2-8, which details the impacts to vernal pool habitat (including number of basins and total acreage), impacts to Covered Species, and associated mitigation activities. During the reporting period, no incidental take was reported.

**Table 2-8. 2019-2022 Take Summary**

Year	Vernal Pool Complex Name and Pool ID	Management Responsibility	Project Name	Mitigation Type <sup>1</sup>	Acreage of Impacted Pools <sup>2</sup>	Proposed Mitigation <sup>2</sup>	Recorded Presence/Absence of Focal Species within Impacted Vernal Pools							
							PONU	POAB	NAFO	ERAR	ORCA	RSF	SDFS	
2019	-	-	-	-	-	-								
2020	<i>Rhodes Crossings</i>													
	581	Private	Merge 56	CR	0.042	0.196							✓	
	582	Private	Merge 56	CR										✓
	272	Private	Merge 56	CR										✓
	273	Private	Merge 56	CR										✓
	1527	Private	Merge 56	CR										✓
	2093	Private	Merge 56	CR										✓
	2094	Private	Merge 56	CR										✓
2086	Private	Merge 56	CR											
2021	-	-	-	-	-	-								
2022	-	-	-	-	-	-								
<b>TOTAL ACREAGE:</b>					<b>0.042</b>	<b>0.196</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7 basins</b>	
<b>TOTAL NUMBER OF IMACPTED BASINS:</b>					<b>8</b>									

<sup>1</sup>Mitigation type is informed by associated site-specific mitigation plan. Abbreviations are defined as follows: CR = Vernal Pool Creation; EN = Enhancement; RE = Restoration.

<sup>2</sup>Acreages of impacts and proposed mitigation are derived from site-specific mitigation plan.

### 3 VPHCP Funding

#### 3.1 Spend During Reporting Period and Future Funding Sources

Fiscal year spend for VPHCP management and monitoring activities coinciding with this reporting period is detailed in Table 3-1. Table 3-2 identifies funding sources for Year 5 (2023) of VPHCP implementation. Funds for implementing the VPHCP program for City Department of Parks and Recreation and Planning Departments come from the General Fund, while the City Department of Real Estate and Airport Management and Public Utilities Department uses Enterprise Funds.

**Table 3-1. Spend in Current Fiscal Year (2022)**

City Department <sup>1</sup>	Estimated Expenditure <sup>2</sup>	
	City Staff	Contractor
PUD	\$14,679.93	\$228,550.74*
P&R	\$183,954.65	\$143,849.50
DREAM	\$6,000.00	\$10,776.00
Planning	\$47,458.70	\$ -
<b>Total Estimated City-Wide Expenditures</b>		<b>\$635,269.52</b>

<sup>1</sup>City department acronyms defined as follows: PUD = Public Utilities Department, P&R = Parks and Recreation, DREAM = Department of Real Estate and Airport Management

<sup>2</sup>Additional details pertaining to specific expenditures: asterisk (\*) = Total expenditure, includes costs for SANDER Mitigation Site Management

**Table 3-2. Funding Sources for Fiscal Year 2023**

City Department <sup>1</sup>	Funding Source <sup>2</sup>	Estimated Expenditure <sup>3</sup>	
		City Staff	Contractor
PUD	EF	\$15,819.76	\$249,415.05*
P&R	GF	\$202,810.00	\$322,800.00**
DREAM	GF	\$10,000.00	\$11,701.00
Planning	GF, GPMF	\$48,000.00	NA
<b>Total Estimated City-Wide Expenditures</b>			<b>\$860,545.81</b>

<sup>1</sup>City department acronyms defined as follows: PUD = Public Utilities Department, P&R = Parks and Recreation, DREAM = Department of Real Estate and Airport Management.

<sup>2</sup>Funding acronyms defined as follows: EF = Enterprise Funds, GF = General Fund, GPMF = General Plan Maintenance Fund

<sup>3</sup>Additional details pertaining to specific expenditures: asterisk (\*) = Total expenditure, includes costs for SANDER Mitigation Site Management; double asterisk (\*\*) = Total expenditure includes grant funding.

Key to acronyms used: NA = Not Applicable; TBD = To Be Determined

The VPHCP identified funding for the vernal pool complexes known to the City at the time of VPHCP development. During 2022 monitoring, the City identified vernal pool basins and vernal pool complexes not originally covered under the VPHCP. The City anticipates additional funds will be needed to manage and monitor these instances under the VPHCP and will coordinate with the Wildlife Agencies to determine an appropriate timeline to accept and adopt new basins and complexes.

## 4 References

Alden Environmental, Inc (Alden). 2022. Handler Commercial & Otay Mesa Road Vernal Pool Maintenance.

City of San Diego. 1997. Multiple Species Conservation Program Subarea Plan.

City of San Diego. 2003-2004. City of San Diego Vernal Pool Inventory.

City of San Diego. 2019. Revised Final City of San Diego Vernal Pool Habitat Conservation Plan. October.

City of San Diego. 2020. Revised Final City of San Diego Vernal Pool Management and Monitoring Plan. February.

United States Fish and Wildlife Service. 1998. Recovery Plan for Vernal Pools of Southern California. U.S. Department of the Interior, Fish and Wildlife Service, Region One, Portland, Oregon.

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## **Appendix A**

### **City of San Diego VPHCP Vernal Pool Complex Management and Monitoring Levels**

**Appendix A**  
**City of San Diego VPHCP Vernal Pool Complex Management and Monitoring Levels**

Complex Series	Site Name	Planning Unit	Number of Conserved Pools Occupied by Focal Species							Management Responsibility	Existing (Baseline) Management & Monitoring Level	VPHCP Required Management & Monitoring Level in VPMMP
			PONU	POAB	NAFO	ERAR	ORCA	RFS	SDFS			
B 5	Tierra Alta	North	0	0	0	0	0	0	1	Private	Level 1/SSMP	Level 1
B 6	Lopez Ridge (CDFW)	North	0	1	0	0	0	0	0	CDFW	Level 1	Level 1
B 7-8	Crescent Heights	North	0	0	0	0	0	0	1	City	Level 1/SSMP	Level 1
	Lopez Ridge (City)	North	0	10	0	1	0	0	2	City	Level 1	Level 1
B 11	Mesa Norte	North	0	12	0	10	0	0	24	Private	Level 1/SSMP	Level 1
C 10-16	Winterwood	North	0	27	0	7	0	0	2	School District	SSRP	N/A
	Winterwood (City)	North	TBD	TBD	TBD	TBD	TBD	TBD	TBD	City	None	None <sub>2</sub>
C 17-18	Fieldstone	North	0	8	0	0	0	0	0	Private	None	None <sub>2</sub>
C 27	Mira Mesa Market Center	North	0	1	0	0	0	0	1	Private	None	None
D 5-8	Carroll Canyon	North	0	42	1	65	0	0	5	City	Level 1/SSRP <sub>1</sub>	Level 1
	Parkdale Carroll Canyon	North	0	0	0	0	0	0	0	City	Level 1/SSRP <sub>3</sub>	Level 1
F 16-17	MCAS Miramar	North	0	0	0	0	0	0	0	Federal	N/A	N/A
	Menlo KM Parcel	Central	0	0	0	0	0	0	0	Private	None	Level 3
	Menlo KM Parcel	Central	0	0	0	0	0	0	0	State	N/A	N/A
H 1-10, 13-15, 18-23, 24-26	Del Mar Mesa (City)	North	0	3	0	49	0	0	8	City	Level 1	Level 1
	Del Mar Mesa (County)	North	0	2	0	12	0	0	0	County	None	N/A
	Del Mar Mesa (Private)	North	0	0	0	2	0	0	1	Private	None	Level 1 <sub>1</sub>
	Del Mar Mesa (Caltrans)	North	0	0	1	2	0	0	1	State	None	N/A
	Del Mar Mesa (CDFW/USFWS)	North	0	56	0	122	0	0	16	CDFW/USFWS	Level 1	Level 1
H 17	Shaw Lorenz	North	0	0	0	0	0	0	8	Private	Level 1/SSMP	Level 1
H 33	East Ocean Air Drive	North	0	0	0	2	0	0	0	Private	None	None <sub>2</sub>
	SDG&E Substation	North	0	0	0	4	0	0	0	Federal	N/A	N/A
H 38	Carmel Mountain	North	0	0	0	0	0	0	2	City	SSRP	Level 1
H 39	Greystone Torrey Highlands	North	0	5	0	3	0	0	0	City	Level 1/SSMP	Level 1
I 1	Arjons	North	0	22	0	15	0	0	1	Private	None	None <sub>2</sub>
I 6 B	Ford Leasing (Bob Baker)	North	0	7	0	0	0	0	3	Private	None	None <sub>2</sub>
I 6 C	Facilities Development (Eastgate Miramar Associates)	North	0	11	0	2	0	0	6	Private	None	None <sub>2</sub>
I 12	Pueblo Lands (South)	North	0	0	0	0	0	0	2	City	Level 1	Level 1
J 2	Cal Terraces (North), Otay Mesa Road Parcels	South	286	0	79	275	52	93	209	City	Level 1	Level 1*
	Clayton Parcel	South	0	0	0	1	0	0	2	City	Level 1	Level 1
	St. Jerome's	South	0	0	0	0	0	3	1	Private	None	Level 3 <sub>1</sub>
J 3	J3	South	0	0	0	0	0	0	0	State	None	N/A
J 4-5	California Crossing	South	0	0	0	0	0	0	5	Private	None	N/A
	Robinhood Ridge	South	19	0	4	46	0	6	41	City	Level 1	Level 1
J 11 E	Slump Block Pools	South	0	0	0	0	0	0	0	Private	None	Level 2 <sub>1</sub>
J 11 W	J 11 West	South	0	0	0	0	0	1	1	Private	None	Level 3 <sub>1</sub>
J 12	J 12	South	0	0	0	0	0	0	0	Private	None	Level 3 <sub>1</sub>
J 13 E	South Otay J 13 East	South	0	0	0	1	0	0	0	Private	None	Level 3 <sub>1</sub>
J 13 N	South Otay 1 acre (City)	South	0	0	1	1	1	0	0	City	None	Level 3
J 13 S	Bachman	South	0	0	0	0	0	0	0	Private	None	Level 3 <sub>1</sub>
	South Otay J 13 S	South	0	0	0	7	0	0	0	Private	None	Level 3 <sub>1</sub>
	Anderprises (Caltrans)	South	1	0	1	0	0	3	4	State	SSRP	N/A
J 14	Anderprises (City)	South	0	0	0	0	0	0	0	City	Level 1	Level 1
	Bachman	South	0	0	0	0	0	0	0	Private	None	Level 3 <sub>1</sub>
	Brown Field Basins	South	0	0	0	0	0	0	0	City/Airports	None	None
	Cal Terraces (South)	South	63	0	6	55	5	26	32	City	SSRP	Level 1*
	Handler	South	0	0	0	0	0	0	0	Private	Level 1/SSMP	Level 3 <sub>1</sub>
J 15	Arnie's Point	South	15	0	10	61	3	30	56	Federal	SSMP	N/A
J 16-18	Goat Mesa (City)	South	0	0	0	4	0	1	0	City	Level 1	Level 1*
	Goat Mesa (Federal)	South	0	0	0	0	0	0	0	Federal	None	None
	Wruck Canyon	South	0	0	0	0	0	0	0	City	Level 1	Level 1*
J 20-21	La Media ITS	South	0	0	0	0	0	0	6	Private	None	Level 3 <sub>1</sub>
J 21	La Media Swale South	South	0	0	0	0	0	0	0	Private	None	Level 3 <sub>1</sub>
J 27	Empire Center	South	0	0	0	9	0	0	0	Private	None	None <sub>2</sub>
J 28 E	La Media Swale North	South	0	0	0	0	0	0	0	Private	None	Level 3 <sub>1</sub>
J 29	Lonestar W (Caltrans)	South	0	0	0	7	0	1	4	State	SSMP	N/A <sub>4</sub>
J 30	Lonestar E (Caltrans)	South	0	0	0	0	0	35	50	State	SSMP	N/A <sub>4</sub>
	Lonestar E (Private)	South	1	0	0	32	0	0	0	Private (County)	SSMP	Level 1
J 31	Dennery West	South	0	0	0	0	0	10	38	State	SSMP	N/A
	Hidden Trails	South	0	0	0	0	0	0	1	City	Level 1	Level 1
J 32	West Otay A (Caltrans)	South	7	0	3	1	0	1	8	State	SSRP	N/A
	West Otay A (CDFW)	South	1	0	0	2	0	0	0	CDFW	None	Level 1 <sub>1</sub>
	West Otay B	South	0	0	0	0	0	0	0	City	SSRP	Level 1
	West Otay C	South	0	0	0	1	0	0	0	City	Level 1	Level 1
J 33	Sweetwater High School	South	5	0	3	2	0	3	8	School District	SSRP	N/A
J 34	Bachman	South	0	0	0	0	0	0	1	Private	None	Level 3 <sub>1</sub>
	Candlelight	South	0	0	0	0	0	1	1	Private	SSRP	Level 1
J 35	Brown Field	South	0	0	0	0	0	0	0	City	None	Level 1/SSRP
J 36	Southview	South	0	0	0	0	0	0	8	Private	None	Level 3 <sub>1</sub>
KK 1	Lake Murray	Central	0	0	0	0	0	0	0	Private	None	None
K 5	Otay Lakes	South	0	0	2	46	0	0	6	Cornerstone Lands	Level 1	Level 1
KK 2	Pasatiempo	South	0	0	0	0	0	0	0	City	Level 1	Level 1
MM 1	Marron Valley	South	0	0	0	0	0	0	5	Cornerstone Lands	SSRP	Level 1
N 1-4	Teledyne Ryan	Central	0	1	0	0	0	0	11	Private	None	Level 2 <sub>1</sub>
N 5-6	Montgomery Field	Central	0	129	0	0	0	0	24	City	Level 1	Level 1/SSRP
N 7	Serra Mesa Library	Central	0	0	0	0	0	0	0	City	Level 1	Level 1
N 8	General Dynamics	Central	0	20	0	2	0	0	6	City	Level 1/SSMP	Level 1
NC	Li Collins	North	0	0	0	0	0	0	0	Private	None	None
	Kelton	South	0	0	0	0	0	0	0	City	None	None
OO	Salk Institute	North	0	0	0	0	0	0	0	Private	Level 1/SSMP	Level 1
Q2	Mission Trails Regional Park	Central	0	0	0	0	0	0	6	City	Level 1	Level 1
	Mission Trails Regional Park School District	Central	0	0	0	0	0	0	0	School District	None <sub>1</sub>	N/A
Q 3	Castlerock	North	0	0	0	0	0	0	0	Private	SSRP	Level 1
QQ	Tecolote Canyon	Central	0	0	0	0	0	0	0	City	None	None
R 1	Proctor Valley	South	0	0	0	0	0	0	3	Cornerstone Lands	Level 1	Level 1
U 15	SANDER	Central	0	1	0	0	0	0	2	City	Level 1	Level 2 <sub>1</sub>
U 19	Cubic	Central	0	1	0	2	0	0	6	Private	None	Level 1 <sub>1</sub>
X 5	Nobel Drive	North	0	0	1	0	0	0	6	City	Level 1	Level 1
X 7	Nobel Research	North	0	0	0	0	0	0	1	City	Level 1/SSMP	Level 1
TBD	NEW: Fairbanks Highlands	North	TBD	TBD	TBD	TBD	TBD	TBD	TBD	City	None	None <sub>2</sub>
TBD	NEW: Dormouse	North	TBD	TBD	TBD	TBD	TBD	TBD	TBD	City	None	None <sub>2</sub>
TBD	NEW: Stowe	North	TBD	TBD	TBD	TBD	TBD	TBD	TBD	City	None	None <sub>2</sub>
TBD	NEW: Calle de Vida	Central	TBD	TBD	TBD	TBD	TBD	TBD	TBD	City	None	None <sub>2</sub>
TBD	NEW: Ocean View Hills Pkwy	South	TBD	TBD	TBD	TBD	TBD	TBD	TBD	City	None	None <sub>2</sub>
TBD	NEW: Topsail	South	TBD	TBD	TBD	TBD	TBD	TBD	TBD	City	None	None <sub>2</sub>
TBD	NEW: Seabird Way	South	TBD	TBD	TBD	TBD	TBD	TBD	TBD	City	None	None <sub>2</sub>

SSRP= Site-specific restoration plan SSMP=Site-specific management plan or requirements

1 = These sites may seek development entitlement in the future. During the development entitlement process, the City will ensure the project is consistent with the VPHCP, ESL, Biology Guidelines and required VPMMP Management Level.

2 = As separate funding becomes available (e.g., grant funds) the City may work with the owner to implement additional recommended management as identified on the site specific VPMMP management sheet.

3 = Restoration is currently in progress as part of a separate permit requirement (not required by the VPHCP). Following completion of restoration, the site will be managed at Level 1, consistent with the VPHCP.



4 = If a Caltrans-owned complex is transferred to the City, CDFW, or USFWS, the site would be managed consistent with the VPHCP.

\* = The City and Wildlife Agencies will determine if Stewardship (Level 1), Enhancement (Level 2), or Restoration (Level 3) is necessary to achieve the species-specific conservation objectives based on a project level evaluation of these sites.

Yellow	City, CDFW or USFWS owned. Subject management under VPHCP.
Tan	City owned, newly discovered Vernal Pool complex and/or vernal pools within existing complex, and not currently subject to management under VPHCP.
Orange	Privately owned and managed under VPHCP, City responsible for enforcing management.
Purple	Private-owned. Management required with development under VPHCP except for lands mitigated under County of San Diego (J 30 Lonestar [Private]).
Green	Private, conserved pre-MSCP, so no management required.
Blue	Public and conserved. No management required and none recommended; not included on management sheet in VPMMP.
Gray	Private and conserved. No management required and none recommended; not included on management sheet in VPMMP.
Pink	Not under City, CDFW or USFWS jurisdiction; not managed under the VPHCP. If a Caltrans-owned complex is transferred to the City, CDFW or USFWS, the site would be managed consistent with the VPHCP.

**Appendix B-1**

**2022 Vernal Pool Qualitative Monitoring and  
Management Datasheets**

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Anderprises (J14)

Planning Unit: South

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 1

### **Qualitative Monitoring Data**

Visit Date: 4/6/2022      Start Time: 12:08 PM

Surveyors: Jason Allen

#### **Site Conditions:**

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants Visible? absent

#### **New and Ongoing Issues Observed During Visit:**

Trash: ongoing

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, dethatching, Restoration/Revegetation, fence install, sign install, dump cleanup, trash pickup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Annual weeds around road pools. Pools difficult to define. Old trash and dumps. Site difficult to access.

### **Management Actions Completed**

Visit Date: 4/6/2022      Start Time: 12:03 PM

Surveyors: Jason Allen

**Action(s) Completed:** Weed control, dethatching

**Notes:** City staff performed weed control and dethatching.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Brown Field (J35)

Planning Unit: South

City or Other? City

Managing Department: Airports

VPHCP Required Management and Monitoring Level: Level 3

### Qualitative Monitoring Data

Visit Date: 3/1/2022      Start Time: 9:00 AM

Surveyors: Jade Woll

#### Site Conditions:

Ponded Water: yes

Days Since Last Rain: 6-15

Fairy Shrimp Visible: present

Listed Plants Visible? absent

#### New and Ongoing Issues Observed During Visit:

Trash: ongoing

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control trash pickup

Other Management Needs:

Additional Management Actions Recommended:

Notes: Management needs for the site include: Weed control Trash pickup

Visit Date: 4/13/2022      Start Time: 8:45 AM

Surveyors: Jade Woll

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants Visible? absent

#### New and Ongoing Issues Observed During Visit:

Trash: ongoing

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control trash pickup

Other Management Needs:

Additional Management Actions Recommended:

Notes: 0

# VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Brown Field (J35)

Visit Date: 6/30/2022      Start Time: 9:45 AM

Surveyors: Jade Woll, Chelsea Polevy

**Site Conditions:**

**Ponded Water:** no

**Days Since Last Rain:** >16

**Fairy Shrimp Visible:**

**Listed Plants Visible?** absent

**New and Ongoing Issues Observed During Visit:**

**Trash:** ongoing

**Tresspass/Unauthorized Use:**

**Damage to Fences and/or Signs:**

**Fire or Damage from Fire Supression:**

**Invasive Species in Pool:** ongoing

**Damage from Edge Effects:**

**Invasive Species in Buffer:** ongoing

**Hydrological Impacts:**

**Other issues observed:**

**Are other issues new or ongoing?**

**Management Needs:** Weed control trash pickup

**Other Management Needs:**

**Additional Management Actions Recommended:** Needs weeding and trash removal.

**Notes:** 0

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Calle de Vida

Planning Unit: Central

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: None

### Qualitative Monitoring Data

Visit Date: 7/8/2021      Start Time: 11:48 AM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: >15

Fairy Shrimp Visible:

Listed Plants Visible? Present

**New and Ongoing Issues Observed During Visit:**

Trash: New

Tresspass/Unauthorized Use: New

Damage to Fences and/or Signs: New

Fire or Damage from Fire Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Restoration/Revegetation, Fence repair, Sign install, Trash pickup, Regular patrols recommended, Grading/Recontouring

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Stinkwort present. Some new trash and fence compromised.

Visit Date: 1/27/2022      Start Time: 12:08 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: >16

Fairy Shrimp Visible:

Listed Plants 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 Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Restoration/Revegetation, sign install, trash pickup, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Button celery coming up. Annual weeds coming up. Some new trash.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Calle de Vida

<b>Visit Date:</b> 3/2/2022		<b>Start Time:</b> 2:38 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> 6-15	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b> new		<b>Tresspass/Unauthorized Use:</b> ongoing	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> trash pickup, Weed control, Restoration/Revegetation, sign install, Regular patrols recommended, Grading/Recontouring			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Annual weeds throughout. Button celery doing great in large pool. Random trash throughout.			

<b>Visit Date:</b> 5/12/2022		<b>Start Time:</b> 5:07 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> 6-15	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b> ongoing		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, dethatching, Restoration/Revegetation, Regular patrols recommended, sign install			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Annual grasses and weeds present. Button celery looking good in large pool.			

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Calle de Vida

Management Actions Completed	
<b>Visit Date:</b> 8/23/2021	<b>Start Time:</b> 2:05 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, Fence repair, Sign install, Trash pickup	
<b>Notes:</b> Stinkwort sprayed by City staff. Trash picked up by City staff. Sign installed by City staff. Fence repaired by City staff. Evidence of being a party spot. Human waste found in a pool.	
<b>Visit Date:</b> 12/2/2021	<b>Start Time:</b> 1:11 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, Trash pickup	
<b>Notes:</b> City staff pulled weeds and picked up trash.	
<b>Visit Date:</b> 3/2/2022	<b>Start Time:</b> 3:03 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> trash pickup	
<b>Notes:</b> City staff performed trash pickup.	



## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

Planning Unit: South

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 7/28/2021      Start Time: 3:05 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: 1-5

Fairy Shrimp Visible:

Listed Plants 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 Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Trash pickup, Regular patrols recommended, Weed control

Other Management Needs:

Additional Management Actions Recommended:

Notes: Small amount of stinkwort and russian thistle present. Small amount of trash.

Visit Date: 8/11/2021      Start Time: 11:08 AM

Surveyors: Jason Allen, Sara Allen, Mark Berninger

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: >15

Fairy Shrimp Visible:

Listed Plants 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 Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control, Trash pickup, Regular patrols recommended

Other Management Needs:

Additional Management Actions Recommended:

Notes: Small amount of stinkwort and trash.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

<b>Visit Date:</b> 2/2/2022		<b>Start Time:</b> 1:00 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> yes		<b>Days Since Last Rain:</b> >16	<b>Fairy Shrimp Visible:</b> absent
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b> new		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, trash pickup, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Button celery coming up all over the place. Some wind blown trash. Annual weeds popping up everywhere.			

<b>Visit Date:</b> 2/18/2022		<b>Start Time:</b> 3:01 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> 1-5	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b>		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Annual weeds present. Button celery present in many pools.			

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

<b>Visit Date:</b> 4/6/2022		<b>Start Time:</b> 3:32 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> 6-15	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b>		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, dethatching, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Northern area has annual grasses and other weeds present. Otay Mesa Mint is blooming and Button celery is thriving.			

<b>Visit Date:</b> 4/27/2022		<b>Start Time:</b> 12:36 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> 1-5	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b>		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, dethatching, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Pools look great overall. Many focal species present. Annual weeds and grasses present.			

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

Management Actions Completed	
<b>Visit Date:</b> 8/11/2021	<b>Start Time:</b> 11:34 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, Trash pickup	
<b>Notes:</b> Stinkwort pulled and trash picked up.	
<b>Visit Date:</b> 11/30/2021	<b>Start Time:</b> 12:42 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Trash pickup	
<b>Notes:</b> Contracted crew picked up trash along roadside edge of preserve.	
<b>Visit Date:</b> 1/7/2022	<b>Start Time:</b> 10:50 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> City staff performed weed control.	
<b>Visit Date:</b> 2/16/2022	<b>Start Time:</b> 7:08 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control.	
<b>Visit Date:</b> 2/18/2022	<b>Start Time:</b> 2:55 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> Contracted crew performed weed control.	
<b>Visit Date:</b> 3/2/2022	<b>Start Time:</b> 7:19 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> Contracted crew performed weed control.	
<b>Visit Date:</b> 3/9/2022	<b>Start Time:</b> 10:26 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control and dethatch.	
<b>Visit Date:</b> 3/14/2022	<b>Start Time:</b> 8:00 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performing weed control and dethatching.	
<b>Visit Date:</b> 3/15/2022	<b>Start Time:</b> 11:32 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> Contracted crew performed weed control.	

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

<b>Visit Date:</b> 4/14/2022	<b>Start Time:</b> 2:07 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Fence repair	
<b>Notes:</b> City staff performed gate installation.	
<b>Visit Date:</b> 4/14/2022	<b>Start Time:</b> 11:38 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control and dethatching.	
<b>Visit Date:</b> 5/2/2022	<b>Start Time:</b> 10:17 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, trash pickup	
<b>Notes:</b> City staff performed weed control and trash pickup.	
<b>Visit Date:</b> 5/4/2022	<b>Start Time:</b> 11:54 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control and dethatching.	
<b>Visit Date:</b> 5/5/2022	<b>Start Time:</b> 8:41 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control and dethatching.	
<b>Visit Date:</b> 5/6/2022	<b>Start Time:</b> 7:39 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control.	
<b>Visit Date:</b> 5/23/2022	<b>Start Time:</b> 2:27 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Fence repair	
<b>Notes:</b> City staff performed fence installation.	
<b>Visit Date:</b> 5/27/2022	<b>Start Time:</b> 12:52 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> trash pickup, Fence repair, gaterepair	
<b>Notes:</b> Contracted crew performed fence installation and trash pickup.	
<b>Visit Date:</b> 6/1/2022	<b>Start Time:</b> 10:22 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> fence install, trash pickup	
<b>Notes:</b> Contracted crew performed fence installation and trash pickup.	

## VPHCP Qualitative Monitoring and Management Actions

**Fiscal Year:** 2022

**Complex Name:** Cal Terraces (North), Otay Mesa Road Parcels (J2)

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**Visit Date:** 6/3/2022      **Start Time:** 12:54 PM

**Surveyors:** Jason Allen

**Action(s) Completed:** fence install

**Notes:** Contracted crew performed fence installation.

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**Visit Date:** 6/6/2022      **Start Time:** 1:24 PM

**Surveyors:** Jason Allen

**Action(s) Completed:** fence install

**Notes:** Contracted crew performed fence installation.

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## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

Planning Unit: South

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 7/28/2021      Start Time: 1:57 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: 1-5

Fairy Shrimp Visible:

Listed Plants Visible? Present

#### New and Ongoing Issues Observed During Visit:

Trash: New

Tresspass/Unauthorized Use: New

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control, Dump cleanup, Trash pickup, Regular patrols recommended

Other Management Needs:

Additional Management Actions Recommended:

Notes: Stinkwort present. Illegal dump over side fence and at entrance. Trash blows in from the street.

Visit Date: 10/5/2021      Start Time: 3:18 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: 0

Fairy Shrimp Visible:

Listed Plants 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 Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control, Trash pickup, Regular patrols recommended

Other Management Needs:

Additional Management Actions Recommended:

Notes: A few stinkwort present. New trash along fence and entrance gate area.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

Visit Date: 11/16/2021      Start Time: 2:03 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: >15      Fairy Shrimp Visible:  
Listed Plants Visible? Wrong\_Time

**New and Ongoing Issues Observed During Visit:**

Trash: New	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool:	Damage from Edge Effects:
Invasive Species in Buffer:	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

Management Needs: Trash pickup

Other Management Needs:

Additional Management Actions Recommended:

Notes: Trash either blows or is dumped at entrance.

Visit Date: 1/12/2022      Start Time: 9:34 AM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: yes      Days Since Last Rain: 6-15      Fairy Shrimp Visible: Present  
Listed Plants 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 Supression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

Management Needs: Weed control, Trash pickup, Regular patrols recommended

Other Management Needs:

Additional Management Actions Recommended:

Notes: 2035, 2040, 2188 have SD FS Button celery starting to sprout. Some trash.



## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

<b>Visit Date:</b> 1/20/2022		<b>Start Time:</b> 11:22 AM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> yes		<b>Days Since Last Rain:</b> 1-5	<b>Fairy Shrimp Visible:</b> present
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b> new		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, trash pickup, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Some pools filled with water. Weeds growing. Trash flowed or blowed in from street.			

<b>Visit Date:</b> 3/10/2022		<b>Start Time:</b> 7:56 AM	
<b>Surveyors:</b> Sara Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> yes		<b>Days Since Last Rain:</b> 1-5	<b>Fairy Shrimp Visible:</b> present
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b> new		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b> ongoing	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, trash pickup			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Edge effects include invasive weeds coming in from adjacent property.			

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

<b>Visit Date:</b> 4/6/2022		<b>Start Time:</b> 10:33 AM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> yes		<b>Days Since Last Rain:</b> 6-15	<b>Fairy Shrimp Visible:</b> absent
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b> new		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, trash pickup, dump cleanup, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Trash at entrance. Broken down cars parked on street. Otay Mesa mint blooming in some pools. Button celery looks good.			

<b>Visit Date:</b> 4/28/2022		<b>Start Time:</b> 10:26 AM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> yes		<b>Days Since Last Rain:</b> 1-5	<b>Fairy Shrimp Visible:</b> absent
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b> ongoing		<b>Tresspass/Unauthorized Use:</b> ongoing	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, dethatching, gaterepair, trash pickup, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Pools look great. Focal plant species are abundant. Some trash present. Back gate needs repair. Annual weeds and grasses present.			

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

<b>Visit Date:</b> 5/6/2022		<b>Start Time:</b> 9:14 AM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> yes		<b>Days Since Last Rain:</b> 6-15	<b>Fairy Shrimp Visible:</b> present
<b>Listed Plants Visible?</b> present			
<b><u>New and Ongoing Issues Observed During Visit:</u></b>			
<b>Trash:</b>		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, dethatching			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> A few pools still holding water. Riverside fairy shrimp present. Weeds dying from the recent weed control visit.			

<b>Visit Date:</b> 5/9/2022		<b>Start Time:</b> 9:15 AM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> yes		<b>Days Since Last Rain:</b> 6-15	<b>Fairy Shrimp Visible:</b> present
<b>Listed Plants Visible?</b> present			
<b><u>New and Ongoing Issues Observed During Visit:</u></b>			
<b>Trash:</b>		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, Regular patrols recommended, dethatching			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Riverside fairy shrimp present in the last pool that is still holding water.			

## VPHCP Qualitative Monitoring and Management Actions

**Fiscal Year:** 2022

**Complex Name:** Cal Terraces (South) (J14)

**Visit Date:** 5/13/2022      **Start Time:** 4:00 PM

**Surveyors:** Jason Allen

**Site Conditions:**

**Ponded Water:** no

**Days Since Last Rain:** 6-15

**Fairy Shrimp Visible:**

**Listed Plants 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 Supression:**

**Invasive Species in Pool:** ongoing

**Damage from Edge Effects:**

**Invasive Species in Buffer:** ongoing

**Hydrological Impacts:**

**Other issues observed:**

**Are other issues new or ongoing?**

**Management Needs:** Weed control, trash pickup, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Peformed vernal pool monitoring. Annual weeds and grasses in and around pools. Mesa mint and button celery are abundant. Some trash blown in from the street.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

Management Actions Completed	
<b>Visit Date:</b> 7/29/2021	<b>Start Time:</b> 11:15 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Trash pickup, Dump cleanup	
<b>Notes:</b> Picked up truck load of trash from outside and inside fence.	
<b>Visit Date:</b> 7/30/2021	<b>Start Time:</b> 4:05 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> Stinkwort sprayed by City staff.	
<b>Visit Date:</b> 11/30/2021	<b>Start Time:</b> 12:34 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Trash pickup	
<b>Notes:</b> Contracted crew picked up trash at entrance gate.	
<b>Visit Date:</b> 1/8/2022	<b>Start Time:</b> 7:40 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> City staff performed weed control.	
<b>Visit Date:</b> 1/20/2022	<b>Start Time:</b> 11:02 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, trash pickup	
<b>Notes:</b> City staff performed weed control and trash pickup.	
<b>Visit Date:</b> 3/10/2022	<b>Start Time:</b> 7:59 AM
<b>Surveyors:</b> Sara Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> 0	
<b>Visit Date:</b> 3/24/2022	<b>Start Time:</b> 10:33 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control and dethatching.	
<b>Visit Date:</b> 3/25/2022	<b>Start Time:</b> 8:36 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control and dethatching.	
<b>Visit Date:</b> 4/25/2022	<b>Start Time:</b> 11:58 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> dump cleanup, trash pickup	
<b>Notes:</b> Contracted crew performed dump cleanup.	

## VPHCP Qualitative Monitoring and Management Actions

**Fiscal Year:** 2022

**Complex Name:** Cal Terraces (South) (J14)

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**Visit Date:** 5/2/2022      **Start Time:** 7:55 AM

**Surveyors:** Jason Allen

**Action(s) Completed:** Weed control, dethatching

**Notes:** Contracted crew performed weed control and dethatching.

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## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Carmel Mountain (H38)

Planning Unit: North

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 2/4/2022      Start Time: 1:30 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: >16

Fairy Shrimp Visible:

Listed Plants Visible? absent

**New and Ongoing Issues Observed During Visit:**

Trash: ongoing

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, dethatching, trash pickup, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Annual weeds and grasses popping up. Some small trash items. No focal species encountered at this time.

Visit Date: 5/5/2022      Start Time: 2:32 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants 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 Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, dethatching, trash pickup, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Some trash near pools. Annual grasses and weeds around some pools. Tarweed abundant. Return after tarweed seeds to dethatch areas.

## VPHCP Qualitative Monitoring and Management Actions

**Fiscal Year:** 2022

**Complex Name:** Carmel Mountain (H38)

**Visit Date:** 5/24/2022      **Start Time:** 11:32 AM

**Surveyors:** Jason Allen

**Site Conditions:**

**Ponded Water:** no

**Days Since Last Rain:** >16

**Fairy Shrimp Visible:**

**Listed Plants 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 Supression:**

**Invasive Species in Pool:** ongoing

**Damage from Edge Effects:**

**Invasive Species in Buffer:** ongoing

**Hydrological Impacts:**

**Other issues observed:**

**Are other issues new or ongoing?**

**Management Needs:** fence install, Weed control, dethatching, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Small amount of weed cover in and around some pools. Pools mainly weed free. Some Button celery and SD Mesa mint in a few pools. Some small glass and other trash present. Small pool along trail could use some fence installed around it.



## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Carmel Mountain (H38)

Management Actions Completed	
<b>Visit Date:</b> 8/23/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> Hand pulled stinkwort.	
<b>Visit Date:</b> 9/25/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> patrol	
<b>Notes:</b> Ranger patrolled from Ocean Air through to Carmel Creek.	
<b>Visit Date:</b> 11/20/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> patrol	
<b>Notes:</b> Ranger patrolled northwest social trails to mesa top around single track trails to eastern overlook and back.	
<b>Visit Date:</b> 12/3/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> patrol, Fence repair	
<b>Notes:</b> Ranger patrolled Canter Heights to 10N, Fish Head to Ketchell Grave, to NW corner mesa back single track to dudleya closure and Canter Heights. Repaired 16ft of fence.	
<b>Visit Date:</b> 12/30/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> patrol	
<b>Notes:</b> Checked kiosks. Ranger patrolled by foot from Ocean Air Rec to Dogleg trail and around loop back through mesic meadow trail.	
<b>Visit Date:</b> 2/3/2022	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> Fence repair, patrol	
<b>Notes:</b> Reset split rails blocking vernal pools. Needs extra shoring up (screws/wedges) but it's up and intact.	
<b>Visit Date:</b> 2/19/2022	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> patrol	
<b>Notes:</b> Ranger patrolled 10N to CMP and back.	
<b>Visit Date:</b> 5/5/2022	<b>Start Time:</b> 2:36 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> trash pickup	
<b>Notes:</b> City staff performed trash pickup.	
<b>Visit Date:</b> 6/25/2022	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> Hand pulled, collected as many loose seed heads as possible. Needs revisit next year.	

## VPHCP Qualitative Monitoring and Management Actions

**Fiscal Year:** 2022

**Complex Name:** Carmel Mountain (H38)

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**Visit Date:** 6/26/2022      **Start Time:**

**Surveyors:** Melanie Fontana

**Action(s) Completed:** sign install

**Notes:** Disguised new entrance to unauthorized trail. Replaced signage.

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## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Carroll Canyon/Parkdale Carroll Canyon (D5-8)

Planning Unit: North

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 2/25/2022      Start Time: 12:00 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: 1-5

Fairy Shrimp Visible:

Listed Plants 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 Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control, dethatching, Regular patrols recommended, Grading/Recontouring

Other Management Needs:

Additional Management Actions Recommended:

Notes: Button celery and mesa mint present. Annual weeds mainly on developed edge of preserve. Some trash present.

Visit Date: 3/17/2022      Start Time: 7:50 AM

Surveyors: Sara Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: >16

Fairy Shrimp Visible:

Listed Plants Visible? present

#### New and Ongoing Issues Observed During Visit:

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control

Other Management Needs:

Additional Management Actions Recommended: Helix crew scheduled for weed control.

Notes: Weeds are most abundant near houses.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Carroll Canyon/Parkdale Carroll Canyon (D5-8)

<b>Visit Date:</b> 6/21/2022		<b>Start Time:</b> 1:43 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b>		<b>Days Since Last Rain:</b> >16	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b> new		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, dethatching, trash pickup, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Some dead weeds and trash present. Lots of tarweed.			

<b>Management Actions Completed</b>			
<b>Visit Date:</b> 3/17/2022		<b>Start Time:</b> 7:53 AM	
<b>Surveyors:</b> Sara Allen			
<b>Action(s) Completed:</b> Weed control			
<b>Notes:</b> Contracted crew performed weed control.			
<b>Visit Date:</b> 6/21/2022		<b>Start Time:</b> 2:29 PM	
<b>Surveyors:</b> Jason Allen			
<b>Action(s) Completed:</b> trash pickup			
<b>Notes:</b> City staff performed trash pickup.			

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Clayton Parcel (J2)

Planning Unit: South

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 7/29/2021      Start Time: 7:34 AM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 1-5

Fairy Shrimp Visible:

Listed Plants 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 Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Restoration/Revegetation, Sign install, Trash pickup, Regular patrols recommended, Grading/Recontouring

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Trash present. Stinkwort and Russian thistle present.

Visit Date: 10/5/2021      Start Time: 2:00 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 0

Fairy Shrimp Visible:

Listed Plants 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 Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Dethatching, Restoration/Revegetation, Fence install, Sign install, Trash pickup, Dump cleanup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Russian thistle needs to be treated again. Random trash throughout site. Weed whack down dried plants. A few stinkwort present.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Clayton Parcel (J2)

Visit Date: 12/7/2021      Start Time: 10:50 AM

Surveyors: Jason Allen, Sara Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 0

Fairy Shrimp Visible:

Listed Plants Visible? Wrong\_Time

**New and Ongoing Issues Observed During Visit:**

Trash: Ongoing

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Dethatching, Restoration/Revegetation, Fence install, Sign install, Trash pickup, Dump cleanup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Checked site with non-profit. Restored site looks good. Still trash to be picked up throughout.

Visit Date: 1/20/2022      Start Time: 3:47 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: yes

Days Since Last Rain: 1-5

Fairy Shrimp Visible: present

Listed Plants Visible? wrong\_time

**New and Ongoing Issues Observed During Visit:**

Trash: ongoing

Tresspass/Unauthorized Use: ongoing

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Restoration/Revegetation, fence install, sign install, trash pickup, dump cleanup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Weeds popping up. Some trash still in unrestored areas. Recent illegal offroad activity.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Clayton Parcel (J2)

<b>Visit Date:</b> 2/2/2022		<b>Start Time:</b> 1:26 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> >16	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b> ongoing		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, dethatching, Restoration/Revegetation, fence install, sign install, trash pickup, Regular patrols recommended, dump cleanup			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Checking on previous weed control visit. Weeds starting to yellow and wilt. More weed control needed.			

<b>Visit Date:</b> 2/18/2022		<b>Start Time:</b> 3:10 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> yes		<b>Days Since Last Rain:</b> 1-5	<b>Fairy Shrimp Visible:</b> absent
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b>		<b>Tresspass/Unauthorized Use:</b> new	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> fence install, Weed control, Restoration/Revegetation, sign install, trash pickup, Grading/Recontouring, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Checked on previous weed control. Additional weed control needed.			

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Clayton Parcel (J2)

Visit Date: 4/28/2022      Start Time: 10:44 AM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: 1-5      Fairy Shrimp Visible:  
Listed Plants 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 Supression:
Invasive Species in Pool: ongoing	Damage from Edge Effects:
Invasive Species in Buffer: ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, dethatching, Restoration/Revegetation, fence install, sign install, dump cleanup, trash pickup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Areas not restored have native annuals and perennials persisting amongst the invasive annual weeds and grasses. Restoration site is doing very well.

Visit Date: 5/9/2022      Start Time: 10:25 AM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: 6-15      Fairy Shrimp Visible:  
Listed Plants 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 Supression:
Invasive Species in Pool: ongoing	Damage from Edge Effects:
Invasive Species in Buffer: ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, dethatching, Restoration/Revegetation, fence install, trash pickup, sign install, dump cleanup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Pools being restored look great. Annual weeds and grasses in other non restored areas. Some trash present.



## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Clayton Parcel (J2)

Management Actions Completed	
<b>Visit Date:</b> 7/29/2021	<b>Start Time:</b> 7:39 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, Trash pickup	
<b>Notes:</b> City staff performing weed control and trash pickup.	
<b>Visit Date:</b> 10/26/2021	<b>Start Time:</b> 8:15 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> City PA staff performed weed control for russian thistle and other annual weeds.	
<b>Visit Date:</b> 11/30/2021	<b>Start Time:</b> 11:53 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Trash pickup	
<b>Notes:</b> Contracted crew picked up trash in vernal pool preserve and placed in dumpster onsite.	
<b>Visit Date:</b> 1/25/2022	<b>Start Time:</b> 7:42 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> City staff performed weed control.	
<b>Visit Date:</b> 2/7/2022	<b>Start Time:</b> 7:48 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> City staff performed weed control.	
<b>Visit Date:</b> 3/1/2022	<b>Start Time:</b> 10:01 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching, trash pickup	
<b>Notes:</b> Contracted crew performed weed control, dethatching and trash pickup.	
<b>Visit Date:</b> 3/9/2022	<b>Start Time:</b> 8:17 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching, trash pickup	
<b>Notes:</b> Contracted crew performed weed removal, dethatch and trash pickup.	
<b>Visit Date:</b> 3/16/2022	<b>Start Time:</b> 10:41 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> City staff performed weed control.	
<b>Visit Date:</b> 4/27/2022	<b>Start Time:</b> 7:46 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control and dethatching.	

## VPHCP Qualitative Monitoring and Management Actions

**Fiscal Year:** 2022

**Complex Name:** Clayton Parcel (J2)

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<b>Visit Date:</b> 5/4/2022	<b>Start Time:</b> 7:46 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching, trash pickup, dump cleanup	
<b>Notes:</b> Contracted crew performed weed control, dethatching, trash and dump pickup.	

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<b>Visit Date:</b> 5/27/2022	<b>Start Time:</b> 8:20 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> fence install	
<b>Notes:</b> Contracted crew performed fence installation.	

---

<b>Visit Date:</b> 6/3/2022	<b>Start Time:</b> 2:18 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching, Kiosk roof installation.	
<b>Notes:</b> Contracted crew performed weed control, dethatching and roof installation on the kiosk.	

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<b>Visit Date:</b> 6/6/2022	<b>Start Time:</b> 1:13 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> dethatching, Weed control	
<b>Notes:</b> Contracted crew performed weed control and dethatching.	

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## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Crescent Heights (B7-8)

Planning Unit: North

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 2/25/2022      Start Time: 1:03 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: 1-5

Fairy Shrimp Visible:

Listed Plants Visible? absent

#### New and Ongoing Issues Observed During Visit:

Trash: ongoing

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Restoration/Revegetation, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Annual weeds and grasses present. Some trash. African daisy encroaching in.

Visit Date: 4/26/2022      Start Time: 3:49 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: 1-5

Fairy Shrimp Visible:

Listed Plants Visible? absent

#### New and Ongoing Issues Observed During Visit:

Trash: ongoing

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Restoration/Revegetation, dethatching, trash pickup, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Annual weeds and grasses present. African daisy creeping in from sidewalk landscaping. Some trash present.

## VPHCP Qualitative Monitoring and Management Actions

**Fiscal Year:** 2022

**Complex Name:** Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

**Planning Unit:** North

**City or Other?** City

**Managing Department:** Parks & Recreation

**VPHCP Required Management and Monitoring Level:** Level 1

**Qualitative Monitoring Data**

**Visit Date:** 7/25/2021      **Start Time:**

**Surveyors:** Melanie Fontana, Gina Washington

**Site Conditions:**

**Ponded Water:**

**Days Since Last Rain:**

**Fairy Shrimp Visible:**

**Listed Plants Visible?**

**New and Ongoing Issues Observed During Visit:**

**Trash:**

**Tresspass/Unauthorized Use:**

**Damage to Fences and/or Signs:**

**Fire or Damage from Fire Supression:**

**Invasive Species in Pool:**

**Damage from Edge Effects:**

**Invasive Species in Buffer:**

**Hydrological Impacts:**

**Other issues observed:**

**Are other issues new or ongoing?**

**Management Needs:** other

**Other Management Needs:** Break down illegal bike jumps.

**Additional Management Actions Recommended:**

**Notes:** Illegal bike jumps in potential future vernal pool restoration area.

**Visit Date:** 8/6/2021      **Start Time:**

**Surveyors:** Melanie Fontana, Gina Washington

**Site Conditions:**

**Ponded Water:**

**Days Since Last Rain:**

**Fairy Shrimp Visible:**

**Listed Plants Visible?**

**New and Ongoing Issues Observed During Visit:**

**Trash:**

**Tresspass/Unauthorized Use:**

**Damage to Fences and/or Signs:**

**Fire or Damage from Fire Supression:**

**Invasive Species in Pool:**

**Damage from Edge Effects:**

**Invasive Species in Buffer:**

**Hydrological Impacts:**

**Other issues observed:**

**Are other issues new or ongoing?**

**Management Needs:** sign replace

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Spray paint on sign. Need graffiti remover.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

<b>Visit Date:</b> 9/16/2021 <b>Start Time:</b>		
<b>Surveyors:</b> Melanie Fontana, Gina Washington		
<b>Site Conditions:</b>		
<b>Ponded Water:</b>	<b>Days Since Last Rain:</b>	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b>		
<b><u>New and Ongoing Issues Observed During Visit:</u></b>		
<b>Trash:</b>		<b>Tresspass/Unauthorized Use:</b>
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>
<b>Invasive Species in Pool:</b>		<b>Damage from Edge Effects:</b>
<b>Invasive Species in Buffer:</b>		<b>Hydrological Impacts:</b>
<b>Other issues observed:</b>		
<b>Are other issues new or ongoing?</b>		
<b>Management Needs:</b> sign replace		
<b>Other Management Needs:</b>		
<b>Additional Management Actions Recommended:</b>		
<b>Notes:</b> New prohibited sign needed.		

<b>Visit Date:</b> 2/4/2022 <b>Start Time:</b> 11:01 AM		
<b>Surveyors:</b> Jason Allen		
<b>Site Conditions:</b>		
<b>Ponded Water:</b> yes	<b>Days Since Last Rain:</b> >16	<b>Fairy Shrimp Visible:</b> absent
<b>Listed Plants Visible?</b> present		
<b><u>New and Ongoing Issues Observed During Visit:</u></b>		
<b>Trash:</b>		<b>Tresspass/Unauthorized Use:</b> ongoing
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>
<b>Other issues observed:</b>		
<b>Are other issues new or ongoing?</b>		
<b>Management Needs:</b> Weed control, Restoration/Revegetation, Fence repair, gaterepair, sign replacement, fence install, sign install, Regular patrols recommended		
<b>Other Management Needs:</b>		
<b>Additional Management Actions Recommended:</b>		
<b>Notes:</b> Continued impacts from bikes and hikers through vernal pool habitat. Some annual weeds present. Some areas need fence or something to restrict access.		

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

Visit Date: 2/18/2022      Start Time: 11:25 AM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: yes      Days Since Last Rain: 1-5      Fairy Shrimp Visible: absent  
Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash:	Tresspass/Unauthorized Use: ongoing
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: ongoing	Damage from Edge Effects:
Invasive Species in Buffer: ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Fence repair, Restoration/Revegetation, Weed control, sign replacement, fence install, sign install, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Some weeds coming up. Tracks going through vernal pools. Met with Rangers onsite to strategize restricting access to some pools.

Visit Date: 4/12/2022      Start Time: 1:45 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: yes      Days Since Last Rain: 6-15      Fairy Shrimp Visible:  
Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash:	Tresspass/Unauthorized Use: ongoing
Damage to Fences and/or Signs: ongoing	Fire or Damage from Fire Supression:
Invasive Species in Pool: ongoing	Damage from Edge Effects:
Invasive Species in Buffer: ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, Fence repair, Regular patrols recommended, Grading/Recontouring

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Some annual weeds in and around pools. Fence needs to be repaired. Button celery and Mesa mint flowering.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

Visit Date: 4/29/2022      Start Time: 3:19 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: 6-15      Fairy Shrimp Visible:  
Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash:	Tresspass/Unauthorized Use: ongoing
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: ongoing	Damage from Edge Effects:
Invasive Species in Buffer: ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, dethatching, Restoration/Revegetation, fence install, sign install, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Mountain bike traffic through some pools. New keep out signs installed. Mesa mint and Button celery looking great. Water in one road pool.

Visit Date: 5/4/2022      Start Time: 11:30 AM

Surveyors: Cheryl Jenkins

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: >16      Fairy Shrimp Visible:  
Listed Plants Visible? absent

**New and Ongoing Issues Observed During Visit:**

Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool:	Damage from Edge Effects:
Invasive Species in Buffer:	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:**

**Other Management Needs:**

**Additional Management Actions Recommended:** No Access

**Notes:** Access from the North off Camino Del Sur is still blocked by construction.

## VPHCP Qualitative Monitoring and Management Actions

**Fiscal Year:** 2022

**Complex Name:** Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

**Visit Date:** 5/12/2022      **Start Time:** 4:26 PM

**Surveyors:** Jason Allen

**Site Conditions:**

**Ponded Water:** yes

**Days Since Last Rain:** >16

**Fairy Shrimp Visible:** absent

**Listed Plants Visible?** present

**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 Supression:**

**Invasive Species in Pool:** ongoing

**Damage from Edge Effects:**

**Invasive Species in Buffer:** ongoing

**Hydrological Impacts:**

**Other issues observed:**

**Are other issues new or ongoing?**

**Management Needs:** Weed control, dethatching, Restoration/Revegetation, Fence repair, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Some annual grasses and weeds in and around pools. Overall weed coverage is low. One fence section down.



## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

Management Actions Completed	
<b>Visit Date:</b> 7/10/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> patrol, Fence repair	
<b>Notes:</b> Ranger patrolled from Dormouse through CDFW to T3, around Mesa Loop, back out past eucs through CDFW. Repaired 6 ft of fence. Other two fences repaired with Jason are broken down again.	
<b>Visit Date:</b> 7/16/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> sign replace	
<b>Notes:</b> Repainted "OUT" on "KEEP OUT" sign. Someone had scratched it off.	
<b>Visit Date:</b> 7/22/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> patrol, Weed control	
<b>Notes:</b> Ranger patrolled Intuit Trailhead to Deer Creek, up Tunnel 3, and back. Issued citations to users on illegal trail, educated with warnings. Hand pulled Stinkwort near trailhead near the big willow at the bend.	
<b>Visit Date:</b> 7/25/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> Hand weeded stinkwort in margin of road pool.	
<b>Visit Date:</b> 8/4/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
#Type!	
<b>Notes:</b> Ranger patrolled from Park Village Rd gate up Powerlines, to Sidewinder trail, back to Tunnel 4, and out Park Village Rd. Broke down illegal bike jumps, and refilled borrow pits. Hand pulled stinkwort.	
<b>Visit Date:</b> 8/6/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> sign replace	
<b>Notes:</b> Repainted sign.	
<b>Visit Date:</b> 8/12/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> patrol	
<b>Notes:</b> Ranger patrolled Torrey Santa Fe gate up Cardiac, across Fire Rd to check north closure of Rim, back to Bowtie, to Tunnel 4, to Powerlines and out Park Village Rd.	
<b>Visit Date:</b> 8/14/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> patrol, sign install	
<b>Notes:</b> Ranger patrolled Intuit trailhead to the bottom of Tunnel 3 and back. Installed bumper Keep Out sign inside fencing at the bottom of Tunnel 3 at pinch point with new illegal trail that avoids fence.	

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

<b>Visit Date:</b> 9/5/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> Weed control, patrol	
<b>Notes:</b> Hand pulled stinkwort.	
<b>Visit Date:</b> 9/7/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> patrol	
<b>Notes:</b> Ranger patrolled from Torrey Santa Fe to Rancho Toyon.	
<b>Visit Date:</b> 9/16/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> patrol	
<b>Notes:</b> Ranger patrolled from Dormouse through CDFW, T4, to Deer Creek, T3, CDFW, closed Rim, North Rim, Fore back to CDFW and Dormouse.	
<b>Visit Date:</b> 9/25/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> patrol	
<b>Notes:</b> Ranger patrolled from Rancho Toyon through to Torrey Santa Fe.	
<b>Visit Date:</b> 10/14/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> patrol	
<b>Notes:</b> Ranger patrolled Rancho Toyon, mesa top, exit Park Village Rd.	
<b>Visit Date:</b> 11/21/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> sign replace, patrol	
<b>Notes:</b> Ranger patrolled Park Village Rd to North Rim to Torrey Santa Fe. Repainted two "Keep Out" bumper signs.	
<b>Visit Date:</b> 12/5/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> patrol	
<b>Notes:</b> Ranger patrolled Fire Roads from Park Village Rd to Torrey Santa Fe gate.	
<b>Visit Date:</b> 12/10/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> Fence repair	
<b>Notes:</b> Fence not bad just reconnected chain link to gate.	
<b>Visit Date:</b> 12/12/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> patrol	
<b>Notes:</b> Ranger patrolled Park Village Rd to T4 out Intuit back in Torrey Santa Fe, caltrans property to Switchbacks, Rim and back to Park Village Rd.	

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

<b>Visit Date:</b> 12/30/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> patrol	
<b>Notes:</b> Ranger patrolled from Preserve housing gate to big vernal pools on Fire Road by foot, Fairy shrimp are out, no tadpoles yet. Checked kiosks.	
<b>Visit Date:</b> 12/31/2021	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> patrol	
<b>Notes:</b> Ranger patrolled via bike: Powerlines, T4 unreachable (full pool before eucs), to North Rim, down Switchbacks, out Three Canyons. Road pools beyond Patrick Star Pool occluding trail, T4 shouldn't be used.	
<b>Visit Date:</b> 1/2/2022	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> sign install	
<b>Notes:</b> Installed two temporary signs directing folks to nearest legal trailhead. Installed five signs at Intuit, Torrey Santa Fe, Park Village Rd., PQ Creek Park Trailhead and Canyonside. Installed new Seasonal Closure notice on A-frame sign near Powerlines kiosk.	
<b>Visit Date:</b> 2/25/2022	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> sign replace, patrol	
<b>Notes:</b> Repainted keep out sign, collected wire and posts to install elsewhere. Ranger patrolled Park Village Rd to T4, Mesa Loop, closed Rim wnd top of T5.	
<b>Visit Date:</b> 3/16/2022	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> sign install	
<b>Notes:</b> Installed KEEP OUT bumper sign for closed Mesa Loop.	
<b>Visit Date:</b> 3/31/2022	<b>Start Time:</b>
<b>Surveyors:</b> Melanie Fontana, Gina Washington	
<b>Action(s) Completed:</b> sign replace, patrol	
<b>Notes:</b> Re-drew KEEP OUT bumper at top of T4 heading into closed Mesa Loop. Repainted KEEP OUT bumper sign on north side of closed Rim Trail. Ranger bike patrol from Intuit to North Rim and back Fire Rd and T4.	
<b>Visit Date:</b> 4/12/2022	<b>Start Time:</b> 1:49 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Fence repair	
<b>Notes:</b> City staff performed gate installation and fence repair.	

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Dormouse

Planning Unit: North

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: None

### Qualitative Monitoring Data

Visit Date: 7/20/2021      Start Time: 3:25 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: >15

Fairy Shrimp Visible:

Listed Plants Visible? Present

#### New and Ongoing Issues Observed During Visit:

Trash: New

Tresspass/Unauthorized Use: Ongoing

Damage to Fences and/or Signs: Ongoing

Fire or Damage from Fire Supression:

Invasive Species in Pool:

Damage from Edge Effects:

Invasive Species in Buffer:

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Restoration/Revegetation, Fence repair, Sign install, Trash pickup, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:**

Visit Date: 8/13/2021      Start Time: 11:13 AM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: >15

Fairy Shrimp Visible:

Listed Plants Visible? Present

#### 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 Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Restoration/Revegetation, Fence repair, Gate repair, Add replace lock, Add replace chain, Trash pickup, Grading/Recontouring, Regular patrols recommended, Sign install

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Fence compromised. Trash around site. Some cut vegetation sprouting back.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Dormouse

Visit Date: 2/4/2022      Start Time: 11:55 AM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: >16      Fairy Shrimp Visible:  
Listed Plants 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 Supression:
Invasive Species in Pool: ongoing	Damage from Edge Effects:
Invasive Species in Buffer: ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, Restoration/Revegetation, trash pickup, fence install, sign install, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Some annual weeds around vernal pools. Some old trash. Neighbor planting non-native plants behind their house. Button celery coming up.

Visit Date: 2/18/2022      Start Time: 1:26 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: 1-5      Fairy Shrimp Visible:  
Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: ongoing	Damage from Edge Effects:
Invasive Species in Buffer: ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, Restoration/Revegetation, sign install, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Gate secure no signs of trespass.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Dormouse

Visit Date: 4/26/2022      Start Time: 2:38 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 1-5

Fairy Shrimp Visible:

Listed Plants 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 Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Restoration/Revegetation, trash pickup, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Native tarweed growing up where mature plants were removed. Tocolote thitsle and other annual weeds also present. Button celery present in some pools.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Dormouse

Management Actions Completed	
<b>Visit Date:</b> 8/25/2021	<b>Start Time:</b> 1:49 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Gaterepair, Fence repair, Sign install, Trash pickup, Brush from illegal brush cutting was removed.	
<b>Notes:</b>	
<b>Visit Date:</b> 11/5/2021	<b>Start Time:</b> 3:39 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Fence repair, Weed control, Gaterepair, Add replace chain, Add replace lock, Trash pickup	
<b>Notes:</b> Contracted crew picked up trash, performed weed control and chipping. City staff fixed fence and gate.	
<b>Visit Date:</b> 11/8/2021	<b>Start Time:</b> 9:10 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Trash pickup	
<b>Notes:</b> City staff picked up trash that was collected and unable to be transported last week.	
<b>Visit Date:</b> 11/12/2021	<b>Start Time:</b> 12:08 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Gaterepair, Fence repair	
<b>Notes:</b> City staff continues to reinforce gate/fence. Gate was tampered with since last visit.	
<b>Visit Date:</b> 6/6/2022	<b>Start Time:</b> 9:44 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching, trash pickup	
<b>Notes:</b> City staff performed weed control, dethatching and trash pickup.	
<b>Visit Date:</b> 6/10/2022	<b>Start Time:</b> 1:44 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching, trash pickup	
<b>Notes:</b> City staff performed weed control, dethatching and trash pickup.	

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Fairbanks Highlands

Planning Unit: North

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: None

### Qualitative Monitoring Data

Visit Date: 3/18/2022      Start Time: 8:20 AM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants Visible? absent

#### New and Ongoing Issues Observed During Visit:

Trash: ongoing

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, dethatching, trash pickup, sign install, fence install, Recontouring pools, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Pools not part of original VPHCP sites. Annual grasses dominate site. Illegal access may be impacting pools. No signs of recent impacts.



## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Goat Mesa (J16-18)

Planning Unit: South

City or Other? City

Managing Department: Public Utilities

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 3/1/2022      Start Time: 10:15 AM

Surveyors: Cheryl Jenkins; Travis Whitney

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control

Other Management Needs:

Additional Management Actions Recommended: Maintenance will resume in the fall.

Notes: Weeding recently completed in and around the pools.

Visit Date: 3/9/2022

Start Time: 2:34 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: yes

Days Since Last Rain: 1-5

Fairy Shrimp Visible: present

Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control, Restoration/Revegetation, Regular patrols recommended, Grading/Recontouring, fence install

Other Management Needs:

Additional Management Actions Recommended:

Notes: Road pool has ponded and has fairy shrimp in it. Other pools discovered in old closed off roads. Recorded two new pools and mapped them.

## VPHCP Qualitative Monitoring and Management Actions

**Fiscal Year:** 2022

**Complex Name:** Goat Mesa (J16-18)

<b>Visit Date:</b> 5/19/2022		<b>Start Time:</b> 12:17 PM	
<b>Surveyors:</b> Jade Woll, JR Sundberg			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> >16	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b>		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b> None			
<b>Notes:</b> Erynguim ari. (San Diego button celery)			

<b>Management Actions Completed</b>			
<b>Visit Date:</b> 3/14/2022		<b>Start Time:</b> 2:35 PM	
<b>Surveyors:</b> Jason Allen			
<b>Action(s) Completed:</b> Weed control, dethatching			
<b>Notes:</b> Contracted crew performing weed control and dethatching.			

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Greystone Torrey Highlands (H39)

Planning Unit: North

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 7/20/2021      Start Time: 1:57 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain:

Fairy Shrimp Visible:

Listed Plants Visible? Present

#### New and Ongoing Issues Observed During Visit:

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control, Restoration/Revegetation, Regular patrols recommended

Other Management Needs:

Additional Management Actions Recommended:

Notes: Some stinkwort to be treated.

Visit Date: 2/4/2022      Start Time: 12:52 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: >16

Fairy Shrimp Visible:

Listed Plants Visible? present

#### New and Ongoing Issues Observed During Visit:

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control, dethatching, Regular patrols recommended

Other Management Needs:

Additional Management Actions Recommended:

Notes: Annual weeds coming up. Button celery and mesa mint growing in.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Greystone Torrey Highlands (H39)

Visit Date: 3/18/2022      Start Time: 7:32 AM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control, dethatching, Regular patrols recommended

Other Management Needs:

Additional Management Actions Recommended:

Notes: Annual weeds present throughout site. Mesa mint flowering in a few pools already. Button celery and Mesa mint looking good.

Visit Date: 4/26/2022      Start Time: 1:22 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 1-5

Fairy Shrimp Visible:

Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control, dethatching, Regular patrols recommended

Other Management Needs:

Additional Management Actions Recommended:

Notes: Pools look great. Mesa mint and Button celery doing well. Some annual weeds present. Stinkwort seedlings present.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Greystone Torrey Highlands (H39)

Management Actions Completed
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<p><b>Visit Date:</b> 8/13/2021      <b>Start Time:</b> 2:47 PM</p>
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<p><b>Surveyors:</b> Jason Allen</p>
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<p><b>Action(s) Completed:</b> Weed control, Trash pickup</p>
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<p><b>Notes:</b> Stinkwort hand pulled by City staff.</p>
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<p><b>Visit Date:</b> 8/23/2021      <b>Start Time:</b> 12:33 PM</p>
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<p><b>Surveyors:</b> Jason Allen</p>
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<p><b>Action(s) Completed:</b> Weed control, Trash pickup</p>
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<p><b>Notes:</b> Stinkwort sprayed by City staff. Trash picked up by City staff. Brush dumped over fence from HOA.</p>
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<p><b>Visit Date:</b> 3/18/2022      <b>Start Time:</b> 7:53 AM</p>
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<p><b>Surveyors:</b> Jason Allen</p>
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<p><b>Action(s) Completed:</b> Weed control, dethatching</p>
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<p><b>Notes:</b> Contracted crew performing weed control and dethatching.</p>
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<p><b>Visit Date:</b> 6/6/2022      <b>Start Time:</b> 12:01 PM</p>
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<p><b>Surveyors:</b> Jason Allen</p>
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<p><b>Action(s) Completed:</b> Weed control, trash pickup</p>
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<p><b>Notes:</b> City staff performed weed control and trash pickup.</p>
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## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Hidden Trails (J31)

Planning Unit: South

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 1/21/2022      Start Time: 4:14 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: 1-5

Fairy Shrimp Visible:

Listed Plants Visible? present

#### New and Ongoing Issues Observed During Visit:

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control, Regular patrols recommended

Other Management Needs:

Additional Management Actions Recommended:

Notes: CA Gnatcatcher heard in the distance. Lots of grasses and weeds coming up.

Visit Date: 3/14/2022      Start Time: 9:29 AM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants Visible? present

#### New and Ongoing Issues Observed During Visit:

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control, dethatching

Other Management Needs:

Additional Management Actions Recommended:

Notes: Annual weeds abundant throughout. Button celery thriving.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Hidden Trails (J31)

<b>Visit Date:</b> 6/3/2022		<b>Start Time:</b> 2:46 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> >16	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b>		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, dethatching, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Late season annual weeds present. Annual grasses all dead. Needs continued weed control and dethatch. Branches dumped over fence.			

<b>Management Actions Completed</b>	
<hr/>	
<b>Visit Date:</b> 2/2/2022	
<b>Start Time:</b> 7:13 AM	
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control and dethatching.	
<hr/>	
<b>Visit Date:</b> 2/4/2022	
<b>Start Time:</b> 9:01 AM	
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control and dethatching.	
<hr/>	
<b>Visit Date:</b> 4/18/2022	
<b>Start Time:</b> 8:35 AM	
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> dethatching, Weed control	
<b>Notes:</b> Contracted crew performed weed control and dethatching.	
<hr/>	

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Kelton (NC)

Planning Unit: South

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: None

### Qualitative Monitoring Data

Visit Date: 7/8/2021      Start Time: 2:54 PM

Surveyors: Jason Allen

**Site Conditions:**

**Ponded Water:** no

**Days Since Last Rain:** >15

**Fairy Shrimp Visible:**

**Listed Plants Visible?** Absent

**New and Ongoing Issues Observed During Visit:**

**Trash:** New

**Tresspass/Unauthorized Use:** Ongoing

**Damage to Fences and/or Signs:** Ongoing

**Fire or Damage from Fire Supression:**

**Invasive Species in Pool:** Ongoing

**Damage from Edge Effects:**

**Invasive Species in Buffer:** Ongoing

**Hydrological Impacts:**

**Other issues observed:**

**Are other issues new or ongoing?**

**Management Needs:** Weed control, Dethatching, Restoration/Revegetation, Fence repair, Trash pickup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Rangers broke up bike jumps that were present. Some dead weeds around pools.

Visit Date: 6/1/2022      Start Time: 1:59 PM

Surveyors: Jason Allen

**Site Conditions:**

**Ponded Water:** no

**Days Since Last Rain:** >16

**Fairy Shrimp Visible:**

**Listed Plants Visible?** absent

**New and Ongoing Issues Observed During Visit:**

**Trash:** ongoing

**Tresspass/Unauthorized Use:** new

**Damage to Fences and/or Signs:** ongoing

**Fire or Damage from Fire Supression:**

**Invasive Species in Pool:** ongoing

**Damage from Edge Effects:**

**Invasive Species in Buffer:** ongoing

**Hydrological Impacts:**

**Other issues observed:**

**Are other issues new or ongoing?**

**Management Needs:** Weed control, dethatching, Restoration/Revegetation, Fence repair, sign install, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Some annual grasses and weeds present in upland and buffer areas. Signs of illegal offroad activity going through road pools. Some trash present. Tarweed is abundant in pools.



## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Lopez Ridge (B7-8)

Planning Unit: North

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 2/25/2022      Start Time: 1:09 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 1-5

Fairy Shrimp Visible:

Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, dethatching, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Annual weeds and grasses present. Mesa mint present in pools.

Visit Date: 3/15/2022      Start Time: 7:53 AM

Surveyors: Sara Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control

**Other Management Needs:**

**Additional Management Actions Recommended:** Weed whip invasive grasses in upland buffer areas; spot spray broad leaf weeds in upland buffer; hand weed in pool basins.

**Notes:** 0

## VPHCP Qualitative Monitoring and Management Actions

**Fiscal Year:** 2022

**Complex Name:** Lopez Ridge (B7-8)

<b>Visit Date:</b> 4/26/2022		<b>Start Time:</b> 3:43 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> 1-5	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b>		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, dethatching, Regular patrols recommended, Restoration/Revegetation			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Annual grasses and weeds present. Mesa mint doing well.			

<b>Management Actions Completed</b>			
<b>Visit Date:</b> 3/15/2022		<b>Start Time:</b> 7:56 AM	
<b>Surveyors:</b> Sara Allen			
<b>Action(s) Completed:</b> Weed control			
<b>Notes:</b> Contracted crew performed weed control.			

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Marron Valley (MM1)

Planning Unit: South

City or Other? City

Managing Department: Public Utilities

VPHCP Required Management and Monitoring Level: Level 1

### **Qualitative Monitoring Data**

Visit Date: 2/18/2022      Start Time: 9:20 AM

Surveyors: Travis Whitney

#### **Site Conditions:**

Ponded Water: no

Days Since Last Rain: 1-5

Fairy Shrimp Visible:

Listed Plants Visible? absent

#### **New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use: ongoing

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control

Other Management Needs:

Additional Management Actions Recommended:

Notes: Maintenance recently done to remove/spray weeds in and around pools and repair fences. Evidence of human and bovine trespass still evident in and around pools.

### **Management Actions Completed**

Visit Date: 2/18/2022      Start Time:

Surveyors: Travis Whitney

Action(s) Completed: Fence repair, Weed control

Notes: Maintenance done to remove/spray weeds in and around pools and repair fences.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Mission Trails Regional Park (Q2)

Planning Unit: Central

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 10/12/2021      Start Time: 12:10 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 1-5

Fairy Shrimp Visible:

Listed Plants Visible? Absent

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Dethatching, Sign install, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Moving fence needs to be completed. Some thatch in and around pools. Some weed seedlings popping up.

Visit Date: 2/10/2022      Start Time: 4:19 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: >16

Fairy Shrimp Visible:

Listed Plants Visible? absent

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, dethatching, Restoration/Revegetation, fence install, sign install, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Annual weeds and grasses present. Need to finish moving out the fence.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Mission Trails Regional Park (Q2)

Visit Date: 3/2/2022      Start Time: 1:59 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants Visible? absent

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control

Other Management Needs:

Additional Management Actions Recommended:

Notes: Annual weeds and grasses around pool. Trail encroaching into pool a little, but is fenced off.

Visit Date: 3/8/2022      Start Time: 2:45 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: yes

Days Since Last Rain: 1-5

Fairy Shrimp Visible: absent

Listed Plants Visible? absent

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control, Regular patrols recommended, Fence repair

Other Management Needs:

Additional Management Actions Recommended:

Notes: Water in pool. No fairy shrimp. Annual weeds in around pools.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Mission Trails Regional Park (Q2)

Visit Date: 5/6/2022      Start Time: 12:32 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants Visible? absent

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control, dethatching, Restoration/Revegetation

Other Management Needs:

Additional Management Actions Recommended:

Notes: Annual grasses and weeds in and around pool. Grasses need to be cut down and dethatched.

Visit Date: 5/11/2022      Start Time: 4:10 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants Visible? absent

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control, dethatching, Restoration/Revegetation, Regular patrols recommended

Other Management Needs:

Additional Management Actions Recommended:

Notes: Annual grasses and weeds in and around pools.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Mission Trails Regional Park (Q2)

### Management Actions Completed

**Visit Date:** 3/8/2022      **Start Time:** 1:09 PM

**Surveyors:** Jason Allen

**Action(s) Completed:** Fence repair, Weed control

**Notes:** City staff performed weed control and fence repair.

**Visit Date:** 3/15/2022      **Start Time:** 2:40 PM

**Surveyors:** Jason Allen

**Action(s) Completed:** fence install

**Notes:** City staff performed fence installation.

**Visit Date:** 4/5/2022      **Start Time:** 12:21 PM

**Surveyors:** Jason Allen

**Action(s) Completed:** fence install

**Notes:** City staff performed fence installation.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

Planning Unit: Central

City or Other? City

Managing Department: Airports

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 3/1/2022      Start Time: 12:00 PM

Surveyors: Jade Woll

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants 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 Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control trash pickup

Other Management Needs:

Additional Management Actions Recommended:

Notes: Management Needs: Weed control Trash pickup

Visit Date: 4/13/2022      Start Time: 11:48 AM

Surveyors: Jade Woll

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants 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 Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control trash pickup

Other Management Needs:

Additional Management Actions Recommended:

Notes: 0



## VPHCP Qualitative Monitoring and Management Actions

**Fiscal Year:** 2022

**Complex Name:** Montgomery Field (N5-6)

**Visit Date:** 6/30/2022      **Start Time:** 12:30 PM

**Surveyors:** Jade Woll, Chelsea Polevy

**Site Conditions:**

**Ponded Water:** no

**Days Since Last Rain:** >16

**Fairy Shrimp Visible:**

**Listed Plants 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 Supression:**

**Invasive Species in Pool:** ongoing

**Damage from Edge Effects:**

**Invasive Species in Buffer:** ongoing

**Hydrological Impacts:**

**Other issues observed:**

**Are other issues new or ongoing?**

**Management Needs:** Weed control trash pickup

**Other Management Needs:**

**Additional Management Actions Recommended:** Stinkwort (*Dittrichia graveolens*) abundant in pool 5358, removal recommended.

**Notes:** Weeding needed in all pools, trash present in some pools.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Nobel Drive (X5)

Planning Unit: North

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 11/17/2021      Start Time: 1:31 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: >15

Fairy Shrimp Visible:

Listed Plants Visible? Wrong\_Time

#### New and Ongoing Issues Observed During Visit:

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Dethatching, Restoration/Revegetation, Fence install, Sign install, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Annual grass weeds thatch present. Add signs. Add fence around additional pool.

Visit Date: 3/18/2022      Start Time: 9:15 AM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants Visible? absent

#### New and Ongoing Issues Observed During Visit:

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, dethatching, fence install, sign install, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Annual weeds and grasses throughout. Not wet enough for Navarretia this year so far.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Nobel Drive (X5)

<b>Visit Date:</b> 5/17/2022		<b>Start Time:</b> 2:32 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> >16	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> absent			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b>		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, dethatching, Restoration/Revegetation, fence install, sign install, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Annual weeds and grasses all dried up. Tarweed abundant throughout. Add fence around unfenced pools.			

<b>Management Actions Completed</b>			
<b>Visit Date:</b> 3/18/2022		<b>Start Time:</b> 9:32 AM	
<b>Surveyors:</b> Jason Allen			
<b>Action(s) Completed:</b> Weed control			
<b>Notes:</b> City staff performed weed control.			
<b>Visit Date:</b> 4/22/2022		<b>Start Time:</b> 7:43 AM	
<b>Surveyors:</b> Jason Allen			
<b>Action(s) Completed:</b> dethatching, Weed control			
<b>Notes:</b> Contracted crew performed weed control and dethatching.			

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Ocean View Hills Parkway

Planning Unit: South

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: None

### Qualitative Monitoring Data

Visit Date: 2/25/2022      Start Time: 2:19 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: 1-5

Fairy Shrimp Visible:

Listed Plants Visible? absent

#### New and Ongoing Issues Observed During Visit:

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs: new

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, dethatching, Restoration/Revegetation, Fence repair, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Annual weeds present. Fence was damaged.

Visit Date: 6/3/2022      Start Time: 3:31 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: >16

Fairy Shrimp Visible:

Listed Plants 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 Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** dethatching, Weed control, trash pickup, Restoration/Revegetation, Regular patrols recommended, sign install, fence install

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Button celery and Otay mesa mint present in a few of the pools. Annual grasses abundant in most pools. Weed control needed.

## VPHCP Qualitative Monitoring and Management Actions

**Fiscal Year:** 2022

**Complex Name:** Ocean View Hills Parkway

Management Actions Completed
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<b>Visit Date:</b> 6/3/2022 <b>Start Time:</b> 3:39 PM
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<b>Surveyors:</b> Jason Allen
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<b>Action(s) Completed:</b> trash pickup
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<b>Notes:</b> City staff performed trash pickup.
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## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Otay Lakes (K5)

Planning Unit: South

City or Other? City

Managing Department: Public Utilities

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 3/2/2022      Start Time: 12:00 PM

Surveyors: Cheryl Jenkins

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control

Other Management Needs:

Additional Management Actions Recommended: Maintenance will resume in the fall.

Notes: Contracted crew performed weed control.

Visit Date: 5/23/2022      Start Time: 1:44 PM

Surveyors: J. R. Sundberg, Andrew Smisek

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: >16

Fairy Shrimp Visible:

Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control dethatching

Other Management Needs:

Additional Management Actions Recommended: None

Notes: No to little disturbance. Weed levels are fairly stable.

## VPHCP Qualitative Monitoring and Management Actions

**Fiscal Year:** 2022

**Complex Name:** Otay Lakes (K5)

Management Actions Completed
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<b>Visit Date:</b> 3/2/2022 <b>Start Time:</b>
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<b>Surveyors:</b> Cheryl Jenkins
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<b>Action(s) Completed:</b> Weed control
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<b>Notes:</b> Contracted crew performed weed control.
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## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Pasatiempo (KK2)

Planning Unit: Central

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 7/27/2021      Start Time: 2:37 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 1-5

Fairy Shrimp Visible:

Listed Plants Visible? Absent

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Sign install, Regular patrols recommended, Restoration/Revegetation

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Add a few more signs. Installed fence is keeping people out of sensitive area. Dead crown daisy throughout edge areas.

Visit Date: 10/11/2021      Start Time: 2:30 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 1-5

Fairy Shrimp Visible:

Listed Plants Visible? Absent

**New and Ongoing Issues Observed During Visit:**

Trash: New

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool:

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Restoration/Revegetation, Dethatching, Sign install, Trash pickup, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Crown daisy seedlings coming up. Old crown daisy thatch needs to be removed.



## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Pasatiempo (KK2)

Visit Date: 11/2/2021      Start Time: 2:42 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: 6-15      Fairy Shrimp Visible:  
Listed Plants Visible? Absent

**New and Ongoing Issues Observed During Visit:**

Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, Restoration/Revegetation, Sign install, Trash pickup, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Checking site after weed control by City staff was performed. Weeds starting to yellow. Olive trees cut stump. Century plants treated. Some old trash from broken bottles present.

Visit Date: 11/17/2021      Start Time: 4:08 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: >15      Fairy Shrimp Visible:  
Listed Plants Visible? Wrong\_Time

**New and Ongoing Issues Observed During Visit:**

Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, Dethatching, Restoration/Revegetation, Sign install, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Some annuals weeds need to be treated. Add more signs around fenced area. Fence off one more pool.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Pasatiempo (KK2)

Visit Date: 12/22/2021      Start Time: 1:01 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: 6-15      Fairy Shrimp Visible:  
Listed Plants Visible? Wrong\_Time

**New and Ongoing Issues Observed During Visit:**

Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, Restoration/Revegetation, Sign install, Grading/Recontouring, Regular patrols recommended, Fence install

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Checking on plants recently installed. Many plants munched down. Need to install additional plant protectors. No pooling after recent rains.

Visit Date: 1/27/2022      Start Time: 11:33 AM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain:      Fairy Shrimp Visible:  
Listed Plants Visible? absent

**New and Ongoing Issues Observed During Visit:**

Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: ongoing	Damage from Edge Effects:
Invasive Species in Buffer: ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:**

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** New plants look great overall. Annual weeds coming up.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Pasatiempo (KK2)

Visit Date: 3/1/2022                      Start Time: 2:21 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants Visible? absent

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** sign install, Weed control, Restoration/Revegetation, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Annual weeds present in and around vernal pools. Habitat restoration site doing well, but has weeds around plants.

Visit Date: 4/1/2022                      Start Time: 11:58 AM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: yes

Days Since Last Rain: 1-5

Fairy Shrimp Visible: absent

Listed Plants Visible? absent

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Restoration/Revegetation, sign install, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** One pool with a little standing water in it. Annual weeds throughout site.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Pasatiempo (KK2)

<b>Visit Date:</b> 5/17/2022		<b>Start Time:</b> 4:58 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> >16	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> absent			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b>		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, Restoration/Revegetation, sign install, Grading/Recontouring, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Some annual weeds still alive. Habitat restoration site looking good, but needs some additional weed control.			

<b>Visit Date:</b> 6/1/2022		<b>Start Time:</b> 4:24 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> >16	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> absent			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b>		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Restoration/Revegetation, Weed control, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Checked on weed control by City staff. Some annual weeds still present, but most removed.			

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Pasatiempo (KK2)

Management Actions Completed	
<b>Visit Date:</b> 8/5/2021	<b>Start Time:</b> 8:00 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> City staff performed weed control on stinkwort.	
<b>Visit Date:</b> 10/20/2021	<b>Start Time:</b> 8:32 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, Dethatching, Trash pickup	
<b>Notes:</b> Contracted crew performing weed management cutting down dead weeds and thatch.	
<b>Visit Date:</b> 10/27/2021	<b>Start Time:</b> 7:35 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> City PA staff performed weed control of century plant, crown daisy and other emerging annual weeds.	
<b>Visit Date:</b> 12/6/2021	<b>Start Time:</b> 10:48 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> RestReveg	
<b>Notes:</b> Contracted crew prepping holes for native plant installation.	
<b>Visit Date:</b> 12/8/2021	<b>Start Time:</b> 8:53 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> RestReveg	
<b>Notes:</b> Contracted crew installing 400 native plants and cactus cuttings.	
<b>Visit Date:</b> 12/10/2021	<b>Start Time:</b> 12:45 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Fence install, Sign install, Weed control, Dethatching	
<b>Notes:</b> Contracted crew installed fence and sign and weed whacked and removed century plants. City staff sprayed weeds in the preserve.	
<b>Visit Date:</b> 12/28/2021	<b>Start Time:</b> 2:54 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> RestReveg	
<b>Notes:</b> City staff installed plant protectors around recently installed native plants.	
<b>Visit Date:</b> 3/17/2022	<b>Start Time:</b> 1:13 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> City staff performed weed control.	
<b>Visit Date:</b> 5/23/2022	<b>Start Time:</b> 10:14 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> City staff performed weed control and dethatching.	

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Pasatiempo (KK2)

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**Visit Date:** 5/23/2022      **Start Time:** 8:49 AM

**Surveyors:** Jason Allen

**Action(s) Completed:** Weed control, dethatching

**Notes:** City staff performed weed control and dethatching.

---

**Visit Date:** 5/24/2022      **Start Time:** 9:20 AM

**Surveyors:** Jason Allen

**Action(s) Completed:** Weed control, dethatching

**Notes:** City staff performed weed control and dethatching.

---

**Visit Date:** 5/27/2022      **Start Time:** 8:24 PM

**Surveyors:** Jason Allen

**Action(s) Completed:** Weed control, dethatching, restreveg

**Notes:** City staff performed weed control, dethatching and watered habitat restoration site.

---

**Visit Date:** 5/31/2022      **Start Time:** 8:43 AM

**Surveyors:** Jason Allen

**Action(s) Completed:** Weed control, dethatching, restreveg

**Notes:** City staff performed weed control, dethatching and watered habitat restoration site.

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**Visit Date:** 6/6/2022      **Start Time:** 2:09 PM

**Surveyors:** Jason Allen

**Action(s) Completed:** restreveg

**Notes:** Contracted crew watered habitat restoration site.

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## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Proctor Valley (R1)

Planning Unit: South

City or Other? City

Managing Department: Public Utilities

VPHCP Required Management and Monitoring Level: Level 1

**Qualitative Monitoring Data**

Visit Date: 2/22/2022      Start Time: 1:15 PM

Surveyors: Cheryl Jenkins

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 0

Fairy Shrimp Visible:

Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control

Other Management Needs:

Additional Management Actions Recommended:

Notes: Weed removal in pools and buffers recently completed. Additional maintenance planned for the Fall. Artificial owl burrows also recently maintained.

Visit Date: 5/11/2022      Start Time: 11:00 AM

Surveyors: Cheryl Jenkins

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: >16

Fairy Shrimp Visible:

Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash: ongoing

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs: ongoing

Fire or Damage from Fire Supression:

Invasive Species in Pool:

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control sign replacement trash pickup

Other Management Needs:

Additional Management Actions Recommended:

Notes: Maintenance will resume in the Fall.

## VPHCP Qualitative Monitoring and Management Actions

**Fiscal Year:** 2022

**Complex Name:** Proctor Valley (R1)

<b>Management Actions Completed</b>
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<b>Visit Date:</b> 2/22/2022 <b>Start Time:</b>
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<b>Surveyors:</b> Cheryl Jenkins
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<b>Action(s) Completed:</b> Weed control
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<b>Notes:</b> Weed removal in pools and buffers recently completed. Additional maintenance planned for the Fall. Artificial owl burrows Weed removal in pools and buffers recently completed. Additional maintenance planned for the Fall. Artificial owl burrows Weed removal in pools and buffers recently completed. Additional maintenance planned for the Fall. Artificial owl burrows also recently maintained
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## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Pueblo Lands (North and South) (I12)

Planning Unit: North

City or Other? City

Managing Department: Public Utilities

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 2/9/2022      Start Time: 12:00 PM

Surveyors: Cheryl Jenkins

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: >16

Fairy Shrimp Visible:

Listed Plants Visible? absent

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control dethatching add replace lock

Other Management Needs:

Additional Management Actions Recommended:

Notes: Weed control done in and around pools, but weeds remain. City lock replaced by MCAS Miramar combo lock (1404). Will need to be replaced with City lock.

Visit Date: 4/27/2022      Start Time: 1:29 PM

Surveyors: Cheryl Jenkins

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: >16

Fairy Shrimp Visible:

Listed Plants Visible? absent

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control

Other Management Needs:

Additional Management Actions Recommended: Maintenance will resume in the fall.

Notes: MCAS Miramar combo lock on gate #1404. Needs City lock and chain.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

Planning Unit: South

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 2

### Qualitative Monitoring Data

Visit Date: 7/16/2021      Start Time: 10:48 AM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: >15

Fairy Shrimp Visible:

Listed Plants Visible? Present

#### New and Ongoing Issues Observed During Visit:

Trash: New

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs: Ongoing

Fire or Damage from Fire Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Fence repair, Restoration/Revegetation, Trash pickup, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Site looks good overall. No wards weed observed. Fence repair needed. Some new trash.

Visit Date: 10/5/2021      Start Time: 11:04 AM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: 0

Fairy Shrimp Visible:

Listed Plants 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 Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Dethatching, Restoration/Revegetation, Sign replacement, Trash pickup, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Fence not compromised. No new Wards weed present. Some new trash. Some dead grass thatch to remove in Northern section.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

Visit Date: 11/1/2021      Start Time: 8:52 AM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: 6-15      Fairy Shrimp Visible:  
Listed Plants Visible? Wrong\_Time

**New and Ongoing Issues Observed During Visit:**

Trash: New	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Trash pickup, Weed control, Restoration/Revegetation, Dethatching, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Checking on contracted crews work from last week dethatching and picking up trash. Found and picked up some more trash. Identified 4 Ward's weed seedlings. Perimeter fence intact.

Visit Date: 12/3/2021      Start Time: 3:49 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: >15      Fairy Shrimp Visible:  
Listed Plants Visible? Wrong\_Time

**New and Ongoing Issues Observed During Visit:**

Trash: New	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, Restoration/Revegetation, Sign install, Trash pickup, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Fence repair holding and no trespass issues currently. Some trash blew in or thrown over fence. No Wards weed noticed.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

Visit Date: 12/23/2021      Start Time: 2:51 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: 6-15      Fairy Shrimp Visible:  
Listed Plants Visible? Wrong\_Time

**New and Ongoing Issues Observed During Visit:**

Trash: New	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, Trash pickup, Regular patrols recommended, Restoration/Revegetation, Sign replacement

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Ward's weed starting to pop up along with other annual weeds and grasses. Six Ward's weed seedlings pulled. A few pieces of new trash picked up.

Visit Date: 1/12/2022      Start Time: 9:07 AM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: 6-15      Fairy Shrimp Visible:  
Listed Plants Visible? Present

**New and Ongoing Issues Observed During Visit:**

Trash: New	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs: New	Fire or Damage from Fire Supression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, Restoration/Revegetation, Sign replacement, Fence repair, Trash pickup, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Wards weed seedlings popping up. New trash. Fence broken again.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

Visit Date: 2/19/2022      Start Time: 4:06 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: 1-5      Fairy Shrimp Visible:  
Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash:	Tresspass/Unauthorized Use: ongoing
Damage to Fences and/or Signs: new	Fire or Damage from Fire Supression:
Invasive Species in Pool: ongoing	Damage from Edge Effects:
Invasive Species in Buffer: ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, Restoration/Revegetation, gaterepair, trash pickup, Regular patrols recommended, sign replacement

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Ward's weed present. Annual weeds present throughout. Previously repaired gate breached again. Button celery abundant throughout. Previous weed control controlling patches of weeds.

Visit Date: 3/1/2022      Start Time: 10:45 AM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: 6-15      Fairy Shrimp Visible:  
Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: ongoing	Damage from Edge Effects:
Invasive Species in Buffer: ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, Restoration/Revegetation, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Annual weeds present in and around pools. Button celery doing well.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

<b>Visit Date:</b> 3/30/2022		<b>Start Time:</b> 10:18 AM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> yes		<b>Days Since Last Rain:</b> 1-5	<b>Fairy Shrimp Visible:</b> absent
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b>		<b>Tresspass/Unauthorized Use:</b> new	
<b>Damage to Fences and/or Signs:</b> ongoing		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, Fence repair, sign replacement, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Water in some pools after recent rain. Otay mesa mint flowering in some pools. Button celery thriving. Fence needs to be repaired and sign replaced.			
<b>Visit Date:</b> 4/14/2022		<b>Start Time:</b> 2:33 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> 6-15	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b>		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, dethatching, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Checked site for vandalism to repaired fence and sign. Did not find any vandalism. Site is secure.			

## VPHCP Qualitative Monitoring and Management Actions

**Fiscal Year:** 2022

**Complex Name:** Robinhood Ridge (J4-5)

**Visit Date:** 5/13/2022      **Start Time:** 11:26 AM

**Surveyors:** Jason Allen

**Site Conditions:**

**Ponded Water:** no

**Days Since Last Rain:** 6-15

**Fairy Shrimp Visible:**

**Listed Plants 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 Supression:**

**Invasive Species in Pool:** ongoing

**Damage from Edge Effects:**

**Invasive Species in Buffer:** ongoing

**Hydrological Impacts:**

**Other issues observed:**

**Are other issues new or ongoing?**

**Management Needs:** Weed control, dethatching, Restoration/Revegetation, sign install, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Annual weeds and grasses in and around pools on West mesa. Some trash present.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

Management Actions Completed	
<b>Visit Date:</b> 7/16/2021	<b>Start Time:</b> 11:37 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Gaterepair	
<b>Notes:</b> Fixed fence location that is constantly breached. Human waste found inside the breached fence area.	
<b>Visit Date:</b> 10/26/2021	<b>Start Time:</b> 7:14 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, Dethatching, Trash pickup	
<b>Notes:</b> Contracted crew performing dethatching and weed control and picking up trash.	
<b>Visit Date:</b> 11/1/2021	<b>Start Time:</b> 8:51 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Trash pickup	
<b>Notes:</b> City staff picked up trash.	
<b>Visit Date:</b> 1/12/2022	<b>Start Time:</b> 7:02 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> Contracted crew performed weed control.	
<b>Visit Date:</b> 1/14/2022	<b>Start Time:</b> 8:00 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> Contracted crew performed weed control.	
<b>Visit Date:</b> 2/25/2022	<b>Start Time:</b> 8:04 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, trash pickup	
<b>Notes:</b> Contracted crew performed weed control. City staff performed trash pickup.	
<b>Visit Date:</b> 3/14/2022	<b>Start Time:</b> 7:43 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performing weed control and dethatching.	
<b>Visit Date:</b> 4/1/2022	<b>Start Time:</b> 3:19 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Fence repair, sign replacement	
<b>Notes:</b> City staff performed fence repair and sign replacement.	
<b>Visit Date:</b> 4/6/2022	<b>Start Time:</b> 8:02 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching, trash pickup	
<b>Notes:</b> Contracted crew performed weed control, dethatching and trash pickup.	



## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

<b>Visit Date:</b> 4/28/2022	<b>Start Time:</b> 9:47 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, trash pickup	
<b>Notes:</b> City staff performed weed control and trash pickup.	
<b>Visit Date:</b> 5/5/2022	<b>Start Time:</b> 5:03 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, trash pickup	
<b>Notes:</b> City staff performed weed control and trash pickup.	
<b>Visit Date:</b> 5/17/2022	<b>Start Time:</b> 8:21 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> dethatching, Weed control	
<b>Notes:</b> Contracted crew performed weed control and dethatching.	
<b>Visit Date:</b> 5/18/2022	<b>Start Time:</b> 4:44 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control and dethatching.	
<b>Visit Date:</b> 5/19/2022	<b>Start Time:</b> 11:14 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control and dethatching. City staff performed weed control.	
<b>Visit Date:</b> 5/23/2022	<b>Start Time:</b> 1:52 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control and dethatching.	
<b>Visit Date:</b> 5/24/2022	<b>Start Time:</b> 1:39 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control and dethatching.	
<b>Visit Date:</b> 5/26/2022	<b>Start Time:</b> 11:57 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crews performed weed control and dethatching.	
<b>Visit Date:</b> 5/27/2022	<b>Start Time:</b> 2:09 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control and dethatching.	

## VPHCP Qualitative Monitoring and Management Actions

**Fiscal Year:** 2022

**Complex Name:** Robinhood Ridge (J4-5)

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**Visit Date:** 5/31/2022      **Start Time:** 11:16 AM

**Surveyors:** Jason Allen

**Action(s) Completed:** dethatching, Weed control

**Notes:** Contracted crew performed weed control and dethatching.

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## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Seabird Way

Planning Unit: South

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: None

### Qualitative Monitoring Data

Visit Date: 10/5/2021      Start Time: 12:47 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: 0

Fairy Shrimp Visible:

Listed Plants 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 Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Dethatching, Trash pickup, Regular patrols recommended, Restoration/Revegetation, Sign install, Fence install

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Some thatch needs to be removed. A few tamarisk trees to be removed. Bottles to be removed. Stinkwort to be treated.

Visit Date: 2/2/2022

Start Time: 1:43 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: >16

Fairy Shrimp Visible:

Listed Plants 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 Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Restoration/Revegetation, fence install, sign install, trash pickup, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Button celery present in pools. Some old trash. Lots of annual weeds.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Seabird Way

Visit Date: 2/28/2022      Start Time: 8:18 AM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: yes      Days Since Last Rain: 6-15      Fairy Shrimp Visible: absent  
Listed Plants 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 Supression:
Invasive Species in Pool: ongoing	Damage from Edge Effects:
Invasive Species in Buffer: ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, fence install, sign install, Regular patrols recommended, trash pickup

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Annual weeds on East mesa are present and throughout. Some trash to pickup. Standing water in a few pools. No fairy shrimp at this time.

Visit Date: 4/18/2022      Start Time: 9:20 AM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: yes      Days Since Last Rain: >16      Fairy Shrimp Visible: absent  
Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: ongoing	Damage from Edge Effects:
Invasive Species in Buffer: ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, dethatching, Recontouring pools, trash pickup

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** East mesa pools have a lot of annual weed cover. West pools have little annual weed cover and tamarisk.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Seabird Way

Management Actions Completed
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<b>Visit Date:</b> 2/28/2022 <b>Start Time:</b> 11:14 AM
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<b>Surveyors:</b> Jason Allen
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<b>Action(s) Completed:</b> fence install
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<b>Notes:</b> Contracted crew performed fence installation.
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<b>Visit Date:</b> 3/9/2022 <b>Start Time:</b> 9:46 AM
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<b>Surveyors:</b> Jason Allen
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<b>Action(s) Completed:</b> fence install, sign install
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<b>Notes:</b> Contracted crew performed fence install and sign install.
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## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Serra Mesa Library (N7)

Planning Unit: Central

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 7/29/2021      Start Time: 1:48 PM

Surveyors: Jason Allen

**Site Conditions:**

**Ponded Water:** no

**Days Since Last Rain:** 1-5

**Fairy Shrimp Visible:**

**Listed Plants Visible?** Absent

**New and Ongoing Issues Observed During Visit:**

**Trash:** New

**Tresspass/Unauthorized Use:**

**Damage to Fences and/or Signs:** New

**Fire or Damage from Fire Supression:**

**Invasive Species in Pool:**

**Damage from Edge Effects:**

**Invasive Species in Buffer:** Ongoing

**Hydrological Impacts:**

**Other issues observed:**

**Are other issues new or ongoing?**

**Management Needs:** Weed control, Restoration/Revegetation, Fence repair, Trash pickup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Fence compromised and transient camp items found.

Visit Date: 10/19/2021      Start Time: 4:13 PM

Surveyors: Jason Allen

**Site Conditions:**

**Ponded Water:** no

**Days Since Last Rain:** 6-15

**Fairy Shrimp Visible:**

**Listed Plants Visible?** Absent

**New and Ongoing Issues Observed During Visit:**

**Trash:** New

**Tresspass/Unauthorized Use:** New

**Damage to Fences and/or Signs:** New

**Fire or Damage from Fire Supression:**

**Invasive Species in Pool:** Ongoing

**Damage from Edge Effects:**

**Invasive Species in Buffer:** Ongoing

**Hydrological Impacts:**

**Other issues observed:**

**Are other issues new or ongoing?**

**Management Needs:** Weed control, Restoration/Revegetation, Fence repair, Trash pickup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Transient discovered in fenced area and told to leave. Trash needs to be picked up. Annual weeds growing. Tumble weeds and branches to be chipped. Eucalyptus and Pepper tree to be treated.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Serra Mesa Library (N7)

Visit Date: 12/8/2021      Start Time: 3:45 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: 1-5      Fairy Shrimp Visible:  
Listed Plants Visible? Wrong\_Time

**New and Ongoing Issues Observed During Visit:**

Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, Restoration/Revegetation, Trash pickup, Sign install, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Checking up on plants installed last week. They look good and ready for upcoming rain storms.

Visit Date: 12/22/2021      Start Time: 2:31 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: 6-15      Fairy Shrimp Visible:  
Listed Plants Visible? Wrong\_Time

**New and Ongoing Issues Observed During Visit:**

Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, Restoration/Revegetation, Trash pickup, Grading/Recontouring, Regular patrols recommended, Sign install

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Checking on plants recently installed. Some plants munched down. Need to install additional plant protectors. No pooling after recent rains. Fencing repair is holding.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Serra Mesa Library (N7)

<b>Visit Date:</b> 1/10/2022		<b>Start Time:</b> 12:32 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> 6-15	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> Wrong_Time			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b> Ongoing		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> Ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> Ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, Restoration/Revegetation, Trash pickup, Grading/Recontouring, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Annual weeds popping up. Some new plants being eaten.			

<b>Visit Date:</b> 1/27/2022		<b>Start Time:</b> 1:06 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> >16	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> absent			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b> ongoing		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, Restoration/Revegetation, sign install, trash pickup, dump cleanup, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Annual weeds coming up. Installed plants looking great. Some trash and old dumps present. Weeds dying from recent weed control visit.			



## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Serra Mesa Library (N7)

<b>Visit Date:</b> 4/27/2022		<b>Start Time:</b> 3:50 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> 1-5	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> absent			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b> ongoing		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, dethatching, trash pickup, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Tarweed abundant in most pools. Other pools have dense amounts of invasive grasses and weeds in and around. New plants doing well.			

<b>Visit Date:</b> 5/17/2022		<b>Start Time:</b> 3:50 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> >16	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> absent			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b> ongoing		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b> ongoing		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, dethatching, Restoration/Revegetation, Fence repair, sign install, dump cleanup, trash pickup, Grading/Recontouring, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Fence section needs to be repaired. Annual weeds and grasses mostly dead. Tarweed abundant throughout site. Restoration site looking good. Some old brick and concrete dumps need to be removed.			

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Serra Mesa Library (N7)

Management Actions Completed	
<b>Visit Date:</b> 8/9/2021	<b>Start Time:</b> 11:52 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Fence repair	
<b>Notes:</b> Fixed breached section of fence with wire.	
<b>Visit Date:</b> 10/22/2021	<b>Start Time:</b> 2:26 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, Trash pickup	
<b>Notes:</b> Contracted crew and City staff chipped non-native tree branches, treated non-native trees and treated annual weeds. Crew also cleaned up abandoned camp and other trash.	
<b>Visit Date:</b> 11/8/2021	<b>Start Time:</b> 8:22 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, Fence repair, Trash pickup	
<b>Notes:</b> Contracted crew removing invasive Eucalyptus, chipping branches, picking up trash and fence repair. Fence was breached and new transient camp present.	
<b>Visit Date:</b> 11/12/2021	<b>Start Time:</b> 2:58 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, Trash pickup	
<b>Notes:</b> Contracted crew performing weed control removing Eucalyptus trees and biomass. City staff picked up trash.	
<b>Visit Date:</b> 11/19/2021	<b>Start Time:</b> 8:23 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> Contracted crew performed weed control by cutting and chipping Eucalyptus trees.	
<b>Visit Date:</b> 12/1/2021	<b>Start Time:</b> 1:27 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, RestReveg, Trash pickup	
<b>Notes:</b> City staff performed weed control of annual weeds, Brazilian Pepper and Eucalyptus trees and trash pickup. Contracted crew dug holes in preparation of planting.	
<b>Visit Date:</b> 12/2/2021	<b>Start Time:</b> 10:54 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> RestReveg	
<b>Notes:</b> Contracted crew installing 400 upland plants around the vernal pools.	
<b>Visit Date:</b> 1/11/2022	<b>Start Time:</b> 3:17 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> RestReveg, Weed control, Trash pickup	
<b>Notes:</b> City staff installing plant protectors and performing weed control.	
<b>Visit Date:</b> 3/11/2022	<b>Start Time:</b> 2:14 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> City staff performed weed control and dethatching.	

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Serra Mesa Library (N7)

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<b>Visit Date:</b> 3/15/2022	<b>Start Time:</b> 8:28 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control and dethatching.	

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<b>Visit Date:</b> 5/3/2022	<b>Start Time:</b> 8:57 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control and dethatching.	

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<b>Visit Date:</b> 5/23/2022	<b>Start Time:</b> 10:39 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> dethatching, Weed control, trash pickup, dump cleanup	
<b>Notes:</b> Contracted crew performed weed control, dethatching, dump cleanup and trash pickup.	

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<b>Visit Date:</b> 6/2/2022	<b>Start Time:</b> 3:11 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> restreveg	
<b>Notes:</b> Contracted crew watered native plant restoration site.	

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<b>Visit Date:</b> 6/6/2022	<b>Start Time:</b> 7:48 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> restreveg	
<b>Notes:</b> Contracted crew watered habitat restoration site.	

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## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: South Otay 1 acre (J13N)

Planning Unit: South

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 3

### Qualitative Monitoring Data

Visit Date: 7/23/2021      Start Time: 11:57 AM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: >15

Fairy Shrimp Visible:

Listed Plants Visible? Present

#### New and Ongoing Issues Observed During Visit:

Trash: Ongoing

Tresspass/Unauthorized Use: Ongoing

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Dethatching, Restoration/Revegetation, Fence install, Sign install, Dump cleanup, Trash pickup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Russian thistle, ice plant and invasive grasses cover the sites. Concrete and other debris present. Fence needs to be installed.

Visit Date: 11/16/2021      Start Time: 1:41 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: >15

Fairy Shrimp Visible:

Listed Plants Visible? Wrong\_Time

#### New and Ongoing Issues Observed During Visit:

Trash: Ongoing

Tresspass/Unauthorized Use: Ongoing

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Dethatching, Restoration/Revegetation, Fence install, Sign install, Dump cleanup, Trash pickup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Contracted crew performed weed control and detatching and piled up trash and debris.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: South Otay 1 acre (J13N)

Visit Date: 12/3/2021      Start Time: 2:23 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: >15      Fairy Shrimp Visible:  
Listed Plants Visible? Wrong\_Time

**New and Ongoing Issues Observed During Visit:**

Trash: Ongoing	Tresspass/Unauthorized Use: Ongoing
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, Dethatching, Restoration/Revegetation, Fence install, Sign install, Trash pickup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Site needs dethatching, trash pickup and weed control. Thatch is less dense than surrounding areas because of previous dethatching efforts. Vehicles tracks through site. Needs fencing installed.

Visit Date: 12/3/2021      Start Time: 2:13 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: >15      Fairy Shrimp Visible:  
Listed Plants Visible? Wrong\_Time

**New and Ongoing Issues Observed During Visit:**

Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Dethatching, Weed control, Restoration/Revegetation, Fence install, Sign install, Trash pickup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Checking up on removal of trash piles. Site needs a little more trash pickup, but looks much better. Site needs a lot of dethatching.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: South Otay 1 acre (J13N)

Visit Date: 12/23/2021      Start Time: 12:45 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: 6-15      Fairy Shrimp Visible:  
Listed Plants Visible? Wrong\_Time

**New and Ongoing Issues Observed During Visit:**

Trash: Ongoing	Tresspass/Unauthorized Use: Ongoing
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:**

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Dethatched North area sprouting back with invasive grasses. South area weed control is working on some annual weeds.

Visit Date: 1/14/2022      Start Time: 2:40 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: >16      Fairy Shrimp Visible:  
Listed Plants Visible? absent

**New and Ongoing Issues Observed During Visit:**

Trash: ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: ongoing	Damage from Edge Effects:
Invasive Species in Buffer: ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, Restoration/Revegetation, fence install, trash pickup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Weed control keeping some weeds away and controlling russian thistle and filaree. Needs further weed control. Invasive grasses are abundant.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: South Otay 1 acre (J13N)

Visit Date: 2/28/2022      Start Time: 1:54 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash: ongoing

Tresspass/Unauthorized Use: ongoing

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, dethatching, Restoration/Revegetation, fence install, sign install, dump cleanup, trash pickup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Annual grasses dominate area, but some natives struggle through. Old trash and dumps present. Need fence and sign installation. Future mitigation project still in the works.

Visit Date: 3/9/2022      Start Time: 3:35 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 1-5

Fairy Shrimp Visible:

Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash: ongoing

Tresspass/Unauthorized Use: ongoing

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, dethatching, Restoration/Revegetation, fence install, sign install, trash pickup, dump cleanup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Button celery present and looking good. Annual grasses dominate the area. Weed control is starting to kill the weeds.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: South Otay 1 acre (J13N)

<b>Visit Date:</b> 4/1/2022		<b>Start Time:</b> 2:19 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> 1-5	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b> ongoing		<b>Tresspass/Unauthorized Use:</b> ongoing	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, dethatching, Restoration/Revegetation, fence install, sign install, dump cleanup, trash pickup, Grading/Recontouring, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Some weed control is working, but area still dominated by invasive annual grasses. A few button celery are holding on.			

<b>Visit Date:</b> 4/8/2022		<b>Start Time:</b> 2:27 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> 6-15	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> present			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b> ongoing		<b>Tresspass/Unauthorized Use:</b> ongoing	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, dethatching, Restoration/Revegetation, fence install, sign install, dump cleanup, trash pickup, Grading/Recontouring, Regular patrols recommended			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Grasses are slightly reduced from weed control compared to neighboring parcels. Scattered trash present in Southern area.			



## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: South Otay 1 acre (J13N)

Visit Date: 5/18/2022      Start Time: 2:59 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: >16

Fairy Shrimp Visible:

Listed Plants Visible? absent

**New and Ongoing Issues Observed During Visit:**

Trash: ongoing

Tresspass/Unauthorized Use: ongoing

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, dethatching, Restoration/Revegetation, fence install, dump cleanup, trash pickup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Southern parcel with vernal pools. Some annual weeds present and alive. Annual grasses all dead. Trash pickup needed for little pieces.

Visit Date: 5/27/2022      Start Time: 11:51 AM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: >16

Fairy Shrimp Visible:

Listed Plants 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 Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, dethatching, trash pickup, Restoration/Revegetation, fence install, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Grass thatch covering vernal pools and surrounding areas. Needs restoration, trash pickup and fencing.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: South Otay 1 acre (J13N)

Management Actions Completed	
<b>Visit Date:</b> 11/1/2021	<b>Start Time:</b> 8:07 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, Dethatching, Trash pickup	
<b>Notes:</b> Contracted crew performing weed control and dethatching.	
<b>Visit Date:</b> 11/30/2021	<b>Start Time:</b> 2:02 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Trash pickup, Dump cleanup	
<b>Notes:</b> Contracted crew picked up and disposed of trash piles that were collected during last maintenance visit.	
<b>Visit Date:</b> 12/6/2021	<b>Start Time:</b> 3:37 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, Dethatching	
<b>Notes:</b> City staffed mowed grass thatch and russian thistle.	
<b>Visit Date:</b> 12/13/2021	<b>Start Time:</b> 12:27 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> City staff performed weed control of annual weeds.	
<b>Visit Date:</b> 1/26/2022	<b>Start Time:</b> 1:41 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> City staff performed weed control.	
<b>Visit Date:</b> 2/28/2022	<b>Start Time:</b> 1:51 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control	
<b>Notes:</b> City staff performed weed control.	
<b>Visit Date:</b> 4/8/2022	<b>Start Time:</b> 2:35 PM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> add replace lock, sign install	
<b>Notes:</b> City staff performed lock replacement. City staff performed sign installation.	
<b>Visit Date:</b> 4/25/2022	<b>Start Time:</b> 8:09 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> Weed control, dethatching	
<b>Notes:</b> Contracted crew performed weed control, dethatching and trash pickup.	
<b>Visit Date:</b> 5/27/2022	<b>Start Time:</b> 11:58 AM
<b>Surveyors:</b> Jason Allen	
<b>Action(s) Completed:</b> trash pickup	
<b>Notes:</b> City staff performed trash pickup.	

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Stowe

Planning Unit: North

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: None

### Qualitative Monitoring Data

Visit Date: 4/18/2022

Start Time: 4:09 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: >16

Fairy Shrimp Visible:

Listed Plants Visible? absent

#### New and Ongoing Issues Observed During Visit:

Trash:

Tresspass/Unauthorized Use: ongoing

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, dethatching, Restoration/Revegetation, fence install, sign install, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Annual grasses and weeds in and around pools. Barricades blocking access to northern pools.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Tecolote Canyon (QQ)

Planning Unit: Central

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: None

### Qualitative Monitoring Data

Visit Date: 10/19/2021      Start Time: 3:28 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants Visible? Absent

#### New and Ongoing Issues Observed During Visit:

Trash: Ongoing

Tresspass/Unauthorized Use: Ongoing

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Dethatching, Restoration/Revegetation, Fence install, Sign install, Trash pickup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Add fence and signs to discourage trespass.

Visit Date: 10/19/2021      Start Time: 2:38 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants Visible? Absent

#### New and Ongoing Issues Observed During Visit:

Trash: Ongoing

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Restoration/Revegetation, Fence install, Sign install, Trash pickup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Some stinkwort that was pulled. Some broken glass and other trash on site. Psilocarphus in two pools.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Tecolote Canyon (QQ)

<b>Visit Date:</b> 2/25/2022		<b>Start Time:</b> 9:19 AM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> 1-5	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> absent			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b> ongoing		<b>Tresspass/Unauthorized Use:</b> ongoing	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> fence install, sign install, trash pickup, Weed control, dethatching, Restoration/Revegetation, Regular patrols recommended, Grading/Recontouring			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Vehicle tracks in pools most likely from maintenance vehicles for electrical lines. Annual weeds and grasses present in pools. Some trash present.			

<b>Management Actions Completed</b>			
<b>Visit Date:</b> 10/19/2021		<b>Start Time:</b> 3:00 PM	
<b>Surveyors:</b> Jason Allen			
<b>Action(s) Completed:</b> Weed control			
<b>Notes:</b> Pulled stinkwort and removed.			
<b>Visit Date:</b> 2/24/2022		<b>Start Time:</b> 7:57 AM	
<b>Surveyors:</b> Jason Allen			
<b>Action(s) Completed:</b> fence install, dethatching, Weed control			
<b>Notes:</b> Contracted crew performed weed control, dethatching and fence installation.			

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: West Otay B (J32)

Planning Unit: South

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 12/3/2021      Start Time: 1:22 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: >15

Fairy Shrimp Visible:

Listed Plants Visible? Wrong\_Time

#### New and Ongoing Issues Observed During Visit:

Trash: Ongoing

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control, Dump cleanup, Trash pickup, Regular patrols recommended

Other Management Needs:

Additional Management Actions Recommended:

Notes: Thatch layer around pools. Trash and dumps present in area surrounding preserve. Oncosiphon and Dittrichia from last year present.

Visit Date: 12/23/2021      Start Time: 10:53 AM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: yes

Days Since Last Rain: 6-15

Fairy Shrimp Visible: Absent

Listed Plants Visible? Wrong\_Time

#### New and Ongoing Issues Observed During Visit:

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

Management Needs: Weed control, Sign replacement, Dump cleanup, Trash pickup, Regular patrols recommended

Other Management Needs:

Additional Management Actions Recommended:

Notes: Annual grasses and weeds starting to come up around pools and outer buffer. One pool at South has standing water.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: West Otay B (J32)

Visit Date: 1/14/2022      Start Time: 12:27 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: yes      Days Since Last Rain: >16      Fairy Shrimp Visible: present  
Listed Plants Visible? wrong\_time

**New and Ongoing Issues Observed During Visit:**

Trash:	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: ongoing	Damage from Edge Effects:
Invasive Species in Buffer: ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

Management Needs: Weed control, Regular patrols recommended, sign install

Other Management Needs:

Additional Management Actions Recommended:

Notes: Visited site for USFW, CDFW review.

Visit Date: 1/20/2022      Start Time: 1:23 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: yes      Days Since Last Rain: 1-5      Fairy Shrimp Visible: present  
Listed Plants 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 Supression:
Invasive Species in Pool: ongoing	Damage from Edge Effects:
Invasive Species in Buffer: ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

Management Needs: Weed control, trash pickup, sign install, Regular patrols recommended

Other Management Needs:

Additional Management Actions Recommended:

Notes: Some pools have water. Weeds popping up. Road pool outside fenced area holding water.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: West Otay B (J32)

Visit Date: 3/14/2022      Start Time: 1:19 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Restoration/Revegetation, sign install, Regular patrols recommended, Grading/Recontouring

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Button celery and Otay Mesa mint doing well. Road pools that have been fenced doing well also. Weed control from earlier in season working.



## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: West Otay B (J32)

<b>Management Actions Completed</b>
-------------------------------------

<b>Visit Date:</b> 12/3/2021 <b>Start Time:</b> 1:10 PM <b>Surveyors:</b> Jason Allen <b>Action(s) Completed:</b> Trash pickup, Dump cleanup <b>Notes:</b> Contracted crew picked up trash and dumps. More items to pickup in the future.
--

<b>Visit Date:</b> 12/6/2021 <b>Start Time:</b> 8:06 AM <b>Surveyors:</b> Jason Allen <b>Action(s) Completed:</b> Dump cleanup, Trash pickup <b>Notes:</b> Contracted crew cleaned up old dumps and trash.
---

<b>Visit Date:</b> 12/23/2021 <b>Start Time:</b> 10:45 AM <b>Surveyors:</b> Jason Allen <b>Action(s) Completed:</b> Weed control <b>Notes:</b> City staff performed weed control of annual weeds outside the fence. Some oncosiphon popping up.
--

<b>Visit Date:</b> 1/20/2022 <b>Start Time:</b> 1:20 PM <b>Surveyors:</b> Jason Allen <b>Action(s) Completed:</b> Weed control <b>Notes:</b> City staff performed weed control.
--

<b>Visit Date:</b> 2/2/2022 <b>Start Time:</b> 12:03 PM <b>Surveyors:</b> Jason Allen <b>Action(s) Completed:</b> Weed control <b>Notes:</b> City staff performed weed control.
--

<b>Visit Date:</b> 3/16/2022 <b>Start Time:</b> 11:47 AM <b>Surveyors:</b> Jason Allen <b>Action(s) Completed:</b> Weed control, dethatching <b>Notes:</b> Contracted crew performed weed control and dethatching.
---

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: West Otay C (J32)

Planning Unit: South

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 12/3/2021      Start Time: 1:36 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: >15

Fairy Shrimp Visible:

Listed Plants Visible? Wrong\_Time

**New and Ongoing Issues Observed During Visit:**

Trash: New

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Dethatching, Restoration/Revegetation, Fence install, Sign install, Trash pickup, Grading/Recontouring, Regular patrols recommended, ErosionControl

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Thatch layer around road pools. Additional fence posts needed to restrict access from road pools. Signs needed to direct access around pools.

Visit Date: 12/23/2021      Start Time: 11:43 AM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 6-15

Fairy Shrimp Visible:

Listed Plants Visible? Wrong\_Time

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Restoration/Revegetation, Sign install, Grading/Recontouring, Regular patrols recommended, Dethatching

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** New fence around road pools still intact. Graffiti on one sign. Grass and annual weeds popping up. Thatch removal needed.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: West Otay C (J32)

Visit Date: 1/20/2022      Start Time: 3:05 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: 1-5

Fairy Shrimp Visible:

Listed Plants 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 Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Restoration/Revegetation, sign install, trash pickup, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** No standing water in pools. Grass and weeds in and around pools.

Visit Date: 3/14/2022      Start Time: 1:00 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: yes

Days Since Last Rain: 6-15

Fairy Shrimp Visible: absent

Listed Plants Visible? present

**New and Ongoing Issues Observed During Visit:**

Trash:

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Regular patrols recommended, sign install

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Otay mesa mint and Button celery doing well. Some pools still have standing water with tadpoles. Stinknet present around a few pools.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: West Otay C (J32)

Management Actions Completed
------------------------------

<b>Visit Date:</b> 12/3/2021 <b>Start Time:</b> 1:00 PM
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<b>Surveyors:</b> Jason Allen
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<b>Action(s) Completed:</b> Fence install, ErosionControl
---

<b>Notes:</b> Contracted crew installed fence along edge of path to protect road pools. Crew smoothed out path surface to prevent erosion.
--

<b>Visit Date:</b> 12/6/2021 <b>Start Time:</b> 8:00 AM
---

<b>Surveyors:</b> Jason Allen
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<b>Action(s) Completed:</b> Fence install, Dethatching
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<b>Notes:</b> Contracted crew installing fence around road pools.
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<b>Visit Date:</b> 2/2/2022 <b>Start Time:</b> 9:08 AM
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<b>Surveyors:</b> Jason Allen
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<b>Action(s) Completed:</b> Weed control
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<b>Notes:</b> City staff performed weed control.
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<b>Visit Date:</b> 3/16/2022 <b>Start Time:</b> 7:55 AM
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<b>Surveyors:</b> Jason Allen
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<b>Action(s) Completed:</b> Weed control, dethatching
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<b>Notes:</b> Contracted crew performed weed control and dethatching.
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## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Wruck Canyon (J16-18)

Planning Unit: South

City or Other? City

Managing Department: Parks & Recreation

VPHCP Required Management and Monitoring Level: Level 1

### Qualitative Monitoring Data

Visit Date: 7/23/2021      Start Time: 2:28 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: >15

Fairy Shrimp Visible:

Listed Plants Visible? Absent

**New and Ongoing Issues Observed During Visit:**

Trash: Ongoing

Tresspass/Unauthorized Use:

Damage to Fences and/or Signs: Ongoing

Fire or Damage from Fire Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Dethatching, Restoration/Revegetation, Fence install, Sign install, Dump cleanup, Grading/Recontouring, Recontouring pools, Trash pickup, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Trespassing noticed near vernal pools. Fence needs to be installed around the mesa top.

Visit Date: 12/3/2021      Start Time: 3:19 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no

Days Since Last Rain: >15

Fairy Shrimp Visible:

Listed Plants Visible? Wrong\_Time

**New and Ongoing Issues Observed During Visit:**

Trash: Ongoing

Tresspass/Unauthorized Use: Ongoing

Damage to Fences and/or Signs:

Fire or Damage from Fire Supression:

Invasive Species in Pool: Ongoing

Damage from Edge Effects:

Invasive Species in Buffer: Ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, Dethatching, Restoration/Revegetation, Fence install, Sign install, Trash pickup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Site needs dethatching and trash pickup. Signs of vehicle access into preserve area. Fence and signage needed to restrict access.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Wruck Canyon (J16-18)

Visit Date: 12/23/2021      Start Time: 1:50 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: 6-15      Fairy Shrimp Visible:  
Listed Plants Visible? Wrong\_Time

**New and Ongoing Issues Observed During Visit:**

Trash: Ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs:	Fire or Damage from Fire Supression:
Invasive Species in Pool: Ongoing	Damage from Edge Effects:
Invasive Species in Buffer: Ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, Dethatching, Restoration/Revegetation, Fence install, Sign install, Dump cleanup, Trash pickup, Grading/Recontouring, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Annual weeds popping up. Thatch layer present. Old dump debris. Thick invasive plant thatch surrounding mesa. Mesa needs fence to protect vernal pools.

Visit Date: 2/28/2022      Start Time: 3:22 PM

Surveyors: Jason Allen

**Site Conditions:**

Ponded Water: no      Days Since Last Rain: 6-15      Fairy Shrimp Visible:  
Listed Plants Visible? absent

**New and Ongoing Issues Observed During Visit:**

Trash: ongoing	Tresspass/Unauthorized Use:
Damage to Fences and/or Signs: ongoing	Fire or Damage from Fire Supression:
Invasive Species in Pool: ongoing	Damage from Edge Effects:
Invasive Species in Buffer: ongoing	Hydrological Impacts:
Other issues observed:	
Are other issues new or ongoing?	

**Management Needs:** Weed control, Restoration/Revegetation, fence install, sign install, dump cleanup, trash pickup, Regular patrols recommended, Grading/Recontouring

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Annual weeds present throughout, but also lots of annual wild flowers. Trash present.

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Wruck Canyon (J16-18)

<b>Visit Date:</b> 5/18/2022		<b>Start Time:</b> 3:58 PM	
<b>Surveyors:</b> Jason Allen			
<b>Site Conditions:</b>			
<b>Ponded Water:</b> no		<b>Days Since Last Rain:</b> >16	<b>Fairy Shrimp Visible:</b>
<b>Listed Plants Visible?</b> absent			
<b>New and Ongoing Issues Observed During Visit:</b>			
<b>Trash:</b> ongoing		<b>Tresspass/Unauthorized Use:</b>	
<b>Damage to Fences and/or Signs:</b>		<b>Fire or Damage from Fire Supression:</b>	
<b>Invasive Species in Pool:</b> ongoing		<b>Damage from Edge Effects:</b>	
<b>Invasive Species in Buffer:</b> ongoing		<b>Hydrological Impacts:</b>	
<b>Other issues observed:</b>			
<b>Are other issues new or ongoing?</b>			
<b>Management Needs:</b> Weed control, dethatching, Restoration/Revegetation, trash pickup, dump cleanup, sign install, fence install, Regular patrols recommended, Grading/Recontouring			
<b>Other Management Needs:</b>			
<b>Additional Management Actions Recommended:</b>			
<b>Notes:</b> Tarweed abundant throughout. Annual grasses and weeds are dead. Some trash on edge of mesa.			

<b>Management Actions Completed</b>			
<b>Visit Date:</b> 3/16/2022		<b>Start Time:</b> 11:47 AM	
<b>Surveyors:</b> Jason Allen			
<b>Action(s) Completed:</b> Weed control, dethatching, trash pickup			
<b>Notes:</b> City staff performed weed control, dethatching and trash pickup.			
<b>Visit Date:</b> 5/24/2022		<b>Start Time:</b> 4:45 PM	
<b>Surveyors:</b> Jason Allen			
<b>Action(s) Completed:</b> dethatching, Weed control			
<b>Notes:</b> Contracted crew performed weed control and dethatching.			

## VPHCP Qualitative Monitoring and Management Actions

Fiscal Year: 2022

Complex Name: Eastgate Miramar Associated

Planning Unit: North

City or Other? Other

Managing Department:

VPHCP Required Management and Monitoring Level: None

### Qualitative Monitoring Data

Visit Date: 5/17/2022      Start Time: 3:02 PM

Surveyors: Jason Allen

#### Site Conditions:

Ponded Water: no

Days Since Last Rain: >16

Fairy Shrimp Visible:

Listed Plants 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 Supression:

Invasive Species in Pool: ongoing

Damage from Edge Effects:

Invasive Species in Buffer: ongoing

Hydrological Impacts:

Other issues observed:

Are other issues new or ongoing?

**Management Needs:** Weed control, dethatching, Restoration/Revegetation, trash pickup, Regular patrols recommended

**Other Management Needs:**

**Additional Management Actions Recommended:**

**Notes:** Lots of trash inside fence. Annual weeds throughout. Pampas grass within fenced area.



## **Appendix B-2**

### **2022 Vernal Pool Quantitative Monitoring Datasheets**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 42

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/2/2022

Survey Start Time: 01:57 PM

Survey End Time: 02:15 PM

Surveyors: Sara Allen, Sarah McCutcheon

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:

Species Name	Cover
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Epilobium campestre</i> - smooth boisduvalia	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 10

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	1-5%
<i>Dittrichia graveolens</i> - stinkwort	1-5%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 1-5%

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: 5-10%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 42

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bloomeria crocea</i> - common goldenstar
<i>Bromus diandrus</i> - riggut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Crassula connata</i> - pygmy-weed
<i>Cryptantha</i> sp.
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Dipterostemon capitatus</i> - blue dicks
<i>Dittrichia graveolens</i> - stinkwort
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Lactuca serriola</i> - prickly lettuce
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Simmondsia chinensis</i> - jojoba
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 51

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/2/2022

Survey Start Time: 12:26 PM

Survey End Time: 12:44 PM

Surveyors: Sara Allen, Sarah McCutcheon

VPHCP Covered Species Present: POAB, NAFO, ERAR

Cover of ERAR in Basin: 1-5%

Cover of NAFO in Basin: <1%

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
<i>Baccharis sarothroides</i> - broom baccharis	1-5%
<i>Crassula connata</i> - pygmy-weed	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	1-5%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Epilobium campestre</i> - smooth boisduvalia	50_75
<i>Laennecia coulteri</i> - Coulter's horseweed	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 11

### Nonnative Species in Pool:

Species Name	Cover
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Dittrichia graveolens</i> - stinkwort	1-5%
<i>Erigeron sumatrensis</i> - tropical horseweed	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	5-10%
<i>Pseudognaphalium luteoalbum</i> - fragrant everlasting cudweed	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%
<i>Sonchus oleraceus</i> - common sow thistle	<1%

Cover of Nonnative Species in Basin: 10-25%

Nonnative Species Richness in Basin: 10

Bare Ground Cover in Basin: 1-5%

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

Cover of Litter in Basin: 5-10%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 51

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus diandrus</i> - ripgut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Crassula connata</i> - pygmy-weed
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Dittrichia graveolens</i> - stinkwort
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Encelia californica</i> - California encelia
<i>Epilobium campestre</i> - smooth boisduvalia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia misera</i> - cliff spurge
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Hedypnois rhagadioloides</i> - crete weed
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Navarretia hamata</i> - hooked skunkweed
<i>Peritoma arborea</i> - bladderpod
<i>Phalaris minor</i> - little-seeded canary grass
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Ricinus communis</i> - castor bean
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Zeltnera venusta</i> - California centaury

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 67

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/26/2022

Survey Start Time: 03:05 PM

Survey End Time: 03:19 PM

Surveyors: James Davis, Anahi Mendez Lozano

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: 1-5%

### Other Native Species in Pool:

Species Name	Cover
<i>Baccharis sarothroides</i> - broom baccharis	1-5%
<i>Crassula connata</i> - pygmy-weed	<1%
<i>Cylindropuntia prolifera</i> - coast cholla	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%
<i>Sisyrinchium bellum</i> - western blue-eyed-grass	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 10

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Bromus madritensis</i> - foxtail chess	1-5%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Festuca perennis</i> - rye grass	<1%
<i>Gastridium phleoides</i> - nit grass	1-5%
<i>Lysimachia arvensis</i> - scarlet pimpernel	1-5%
<i>Medicago polymorpha</i> - California burclover	<1%
<i>Phalaris minor</i> - little-seeded canary grass	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 25-50%

Nonnative Species Richness in Basin: 10

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:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 67

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Brassica nigra</i> - black mustard
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Crassula connata</i> - pygmy-weed
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Daucus pusillus</i> - rattlesnake weed
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia misera</i> - cliff spurge
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Gastridium phleoides</i> - nit grass
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Lactuca serriola</i> - prickly lettuce
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Muhlenbergia rigens</i> - deer grass
<i>Navarretia hamata</i> - hooked skunkweed
<i>Phalaris minor</i> - little-seeded canary grass
<i>Plagiobothrys acanthocarpus</i> - adobe popcornflower
<i>Pseudognaphalium biolettii</i> - bicolor cudweed
<i>Rhus integrifolia</i> - lemonade berry
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Silene gallica</i> - windmill pink
<i>Simmondsia chinensis</i> - jojoba
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Zeltnera venusta</i> - California centaury

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 78

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/26/2022

Survey Start Time: 01:04 PM

Survey End Time: 01:45 PM

Surveyors: Sara Allen, Danelle Gadia

VPHCP Covered Species Present: PONU, 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: 10-25%

### Other Native Species in Pool:

Species Name	Cover
<i>Baccharis sarothroides</i> - broom baccharis	<1%
<i>Cylindropuntia prolifera</i> - coast cholla	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	1-5%
<i>Eleocharis macrostachya</i> - pale spike-rush	10-25%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%
<i>Sisyrinchium bellum</i> - western blue-eyed-grass	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 8

### Nonnative Species in Pool:

Species Name	Cover
<i>Avena barbata</i> - slender wild oat	<1%
<i>Beta vulgaris</i> ssp. <i>maritima</i> - sea beet	5-10%
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Bromus madritensis</i> - foxtail chess	1-5%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Festuca perennis</i> - rye grass	<1%
<i>Lamarckia aurea</i> - golden-top	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Phalaris minor</i> - little-seeded canary grass	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 25-50%

Nonnative Species Richness in Basin: 15

Bare Ground Cover in Basin: 25-50%

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

Cover of Litter in Basin: 5-10%

Days Since Last Rain: 0

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 78

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Amsinckia intermedia</i> - common fiddleneck
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Brachypodium distachyon</i> - purple false brome
<i>Brassica nigra</i> - black mustard
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia californica</i> var. <i>californica</i> - snake cholla
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Distichlis spicata</i> - salt grass
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lamarckia aurea</i> - golden-top
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Phalaris minor</i> - little-seeded canary grass
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rhus integrifolia</i> - lemonade berry
<i>Rosa minutifolia</i> - small-leaved rose
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 89

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/26/2022

Survey Start Time: 02:06 PM

Survey End Time: 02:56 PM

Surveyors: Sara Allen, Danelle Gadia

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: 10-25%

### Other Native Species in Pool:

Species Name	Cover
<i>Artemisia californica</i> - California sagebrush	<1%
<i>Cylindropuntia prolifera</i> - coast cholla	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eriogonum fasciculatum</i> - California buckwheat	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%
<i>Stipa lepida</i> - foothill needle grass	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 11

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Festuca perennis</i> - rye grass	<1%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	1-5%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%
<i>Sonchus oleraceus</i> - common sow thistle	<1%

Cover of Nonnative Species in Basin: 25-50%

Nonnative Species Richness in Basin: 9

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: 1-5

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 89

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Atriplex pacifica</i> - south coast saltscale
<i>Avena barbata</i> - slender wild oat
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rosa minutifolia</i> - small-leaved rose
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 96

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/26/2022

Survey Start Time: 02:02 PM

Survey End Time: 02:16 PM

Surveyors: James Davis, Anahi Mendez Lozano

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
<i>Amsinckia intermedia</i> - common fiddleneck	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	5-10%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%
<i>Sisyrinchium bellum</i> - western blue-eyed-grass	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 5

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	1-5%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Gastridium phleoides</i> - nit grass	<1%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Salsola tragus</i> - Russian thistle	<1%

Cover of Nonnative Species in Basin: 5-10%

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: 1-5%

Days Since Last Rain: 1-5

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 96

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Distichlis spicata</i> - salt grass
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Mesembryanthemum crystallinum</i> - crystalline iceplant
<i>Rosa minutifolia</i> - small-leaved rose
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Simmondsia chinensis</i> - jojoba
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 100

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/26/2022

Survey Start Time: 12:33 PM

Survey End Time: 01:11 PM

Surveyors: James Davis, Anahi Mendez Lozano

VPHCP Covered Species Present: PONU, 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: <1%

### Other Native Species in Pool:

Species Name	Cover
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	10-25%
<i>Epilobium campestre</i> - smooth boisduvalia	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	10-25%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 10

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 10-25%

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: 5-10%

Days Since Last Rain: 1-5

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 100

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Mesembryanthemum crystallinum</i> - crystalline iceplant
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass
<i>Yucca schidigera</i> - Mojave yucca

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 295

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/26/2022

Survey Start Time: 10:52 AM

Survey End Time: 10:54 AM

Surveyors: Sara Allen, James Davis, Danelle Gadia, Anahi Mendez Lozano

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:

Species Name	Cover
<i>Baccharis sarothroides</i> - broom baccharis	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	5-10%
<i>Epilobium campestre</i> - smooth boisduvalia	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 7

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Festuca perennis</i> - rye grass	1-5%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%
<i>Sonchus oleraceus</i> - common sow thistle	5-10%

Cover of Nonnative Species in Basin: 10-25%

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: 10-25%

Days Since Last Rain: 1-5

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 295

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Brassica nigra</i> - black mustard
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia californica</i> var. <i>californica</i> - snake cholla
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Distichlis spicata</i> - salt grass
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Malosma laurina</i> - laurel sumac
<i>Mesembryanthemum crystallinum</i> - crystalline iceplant
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stipa pulchra</i> - purple needle grass

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 301

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/27/2022

Survey Start Time: 08:33 AM

Survey End Time: 09:38 AM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

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: 5-10%

### Other Native Species in Pool:

Species Name	Cover
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	1-5%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Erigeron canadensis</i> - horseweed	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Plantago elongata</i> - prairie plantain	<1%
<i>Plantago erecta</i> - dot-seed plantain	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	10-25%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 12

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Gastridium phleoides</i> - nit grass	1-5%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	1-5%
<i>Sonchus oleraceus</i> - common sow thistle	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 12

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: 1-5

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 301

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Atriplex canescens</i> - four-wing saltbush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Brachypodium distachyon</i> - purple false brome
<i>Bromus diandrus</i> - ripgut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia californica</i> var. <i>californica</i> - snake cholla
<i>Daucus pusillus</i> - rattlesnake weed
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Encelia californica</i> - California encelia
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Erodium moschatum</i> - greenstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia misera</i> - cliff spurge
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Mesembryanthemum crystallinum</i> - crystalline iceplant
<i>Mirabilis laevis</i> var. <i>crassifolia</i> - wishbone bush
<i>Plagiobothrys collinus</i> - Cooper's popcornflower
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Pseudognaphalium stramineum</i> - cotton-batting plant
<i>Rhus integrifolia</i> - lemonade berry
<i>Salsola tragus</i> - Russian thistle
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Simmondsia chinensis</i> - jojoba
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass
<i>Yucca schidigera</i> - Mojave yucca

**Notes:** Psilocarphus brevisimus from last year counted as litter.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 445

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/27/2022

Survey Start Time: 09:43 AM

Survey End Time: 10:51 AM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

VPHCP Covered Species Present: PONU, NAFO, ERAR

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: 5-10%

### Other Native Species in Pool:

Species Name	Cover
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Juncus bufonius</i> - toad rush	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	25-50%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 14

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Festuca perennis</i> - rye grass	<1%
<i>Gastridium phleoides</i> - nit grass	<1%
<i>Hypochaeris glabra</i> - smooth cat's-ear	<1%
<i>Lactuca serriola</i> - prickly lettuce	1-5%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%
<i>Pseudognaphalium luteoalbum</i> - fragrant everlasting cudweed	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%
<i>Sonchus oleraceus</i> - common sow thistle	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 14

Bare Ground Cover in Basin: 1-5%

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

Cover of Litter in Basin: 5-10%

Days Since Last Rain: 1-5

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 445

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia californica</i> var. <i>californica</i> - snake cholla
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Erodium moschatum</i> - greenstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Gastridium phleoides</i> - nit grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Mirabilis laevis</i> var. <i>crassifolia</i> - wishbone bush
<i>Rosa minutifolia</i> - small-leaved rose
<i>Simmondsia chinensis</i> - jojoba
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stipa pulchra</i> - purple needle grass
<i>Yucca schidigera</i> - Mojave yucca
<i>Zeltnera venusta</i> - California centaury

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 447

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/27/2022

Survey Start Time: 10:58 AM

Survey End Time: 11:39 AM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

VPHCP Covered Species Present: NAFO, ERAR

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
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Epilobium campestre</i> - smooth boisduvalia	10-25%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 9

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lactuca serriola</i> - prickly lettuce	1-5%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	1-5%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 14

Bare Ground Cover in Basin: 5-10%

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

Cover of Litter in Basin: 50-75%

Days Since Last Rain: 1-5

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 447

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Distichlis spicata</i> - salt grass
<i>Encelia californica</i> - California encelia
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Laennecia coulteri</i> - Coulter's horseweed
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa pulchra</i> - purple needle grass
<i>Verbena menthifolia</i> - mint-leaf vervain
<i>Yucca schidigera</i> - Mojave yucca

**Notes:** *Psilocarphus brevisimus* from last year counted as litter.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 449

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/27/2022

Survey Start Time: 01:02 PM

Survey End Time: 01:45 PM

Surveyors: Amy Mattson, Jonathan Mercado

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: 5-10%

### Other Native Species in Pool:

Species Name	Cover
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Grindelia camporum</i> - gumplant	<1%
<i>Plagiobothrys acanthocarpus</i> - adobe popcornflower	<1%
<i>Plantago elongata</i> - prairie plantain	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	25-50%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 5

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Hypochaeris glabra</i> - smooth cat's-ear	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 9

Bare Ground Cover in Basin: 1-5%

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

Cover of Litter in Basin: 10-25%

Days Since Last Rain: 1-5

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 449

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Avena barbata</i> - slender wild oat
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Calochortus splendens</i> - splendid mariposa lily
<i>Centaurea melitensis</i> - tocalote
<i>Daucus pusillus</i> - rattlesnake weed
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia misera</i> - cliff spurge
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Grindelia camporum</i> - gumplant
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Isocoma menziesii</i> - coastal goldenbush
<i>Lactuca serriola</i> - prickly lettuce
<i>Lepidium nitidum</i> - shining peppergrass
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Peritoma arborea</i> - bladderpod
<i>Plantago erecta</i> - dot-seed plantain
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rhus integrifolia</i> - lemonade berry
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass

**Notes:** *Psilocarphus brevisimus* from last year counted as litter.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 450

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/25/2022

Survey Start Time: 02:15 PM

Survey End Time: 03:10 PM

Surveyors: Sara Allen, Sarah McCutcheon

VPHCP Covered Species Present: PONU, 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: 1-5%

### Other Native Species in Pool:

Species Name	Cover
<i>Baccharis sarothroides</i> - broom baccharis	<1%
<i>Crassula connata</i> - pygmy-weed	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	1-5%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Plagiobothrys acanthocarpus</i> - adobe popcornflower	1-5%
<i>Plantago elongata</i> - prairie plantain	1-5%
<i>Plantago erecta</i> - dot-seed plantain	1-5%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	25-50%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 8

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Hypochaeris glabra</i> - smooth cat's-ear	<1%
<i>Lamarckia aurea</i> - golden-top	<1%
<i>Logfia gallica</i> - daggerleaf cottonrose	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	1-5%

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: 25-50%

Cover of Litter in Basin: 5-10%

Days Since Last Rain: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 450

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Atriplex pacifica</i> - south coast saltscale
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Brassica nigra</i> - black mustard
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Crassula connata</i> - pygmy-weed
<i>Cylindropuntia californica</i> var. <i>californica</i> - snake cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Erodium moschatum</i> - greenstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Hedypnois rhagadioloides</i> - crete weed
<i>Lactuca serriola</i> - prickly lettuce
<i>Lamarckia aurea</i> - golden-top
<i>Logfia arizonica</i> - Arizona cottonrose
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Peritoma arborea</i> - bladderpod
<i>Phacelia cicutaria</i> - caterpillar phacelia
<i>Plagiobothrys acanthocarpus</i> - adobe popcornflower
<i>Plagiobothrys collinus</i> - Cooper's popcornflower
<i>Plantago elongata</i> - prairie plantain
<i>Plantago erecta</i> - dot-seed plantain
<i>Silene gallica</i> - windmill pink
<i>Simmondsia chinensis</i> - jojoba
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stipa pulchra</i> - purple needle grass
<i>Zeltnera venusta</i> - California centaury

## Annual VPHCP Covered Plant Monitoring

**Fiscal Year:** 2022

**Complex Name:** Cal Terraces (North), Otay Mesa Road Parcels (J2)

**VP ID:** 450

**Notes:** Psilocarphus brevisimus from last year counted as litter.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 451

### 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: 3.0

### 2021 Quantitative Monitoring Data

Survey Date: 4/27/2022

Survey Start Time: 01:53 PM

Survey End Time: 02:30 PM

Surveyors: Amy Mattson, Jonathan Mercado

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%

### Other Native Species in Pool:

Species Name	Cover
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Grindelia camporum</i> - gumplant	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 7

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Erodium moschatum</i> - greenstem filaree	1-5%
<i>Phalaris minor</i> - little-seeded canary grass	<1%
<i>Schismus barbatus</i> - Mediterranean schismus	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 50-75%

Nonnative Species Richness in Basin: 15

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

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 451

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Avena barbata</i> - slender wild oat
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Beta vulgaris ssp. maritima</i> - sea beet
<i>Bromus diandrus</i> - ripgut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Erodium moschatum</i> - greenstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Grindelia camporum</i> - gumplant
<i>Lactuca serriola</i> - prickly lettuce
<i>Lycium andersonii</i> - Anderson's desert thorn
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Phalaris minor</i> - little-seeded canary grass
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Pseudognaphalium californicum</i> - California everlasting
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 452

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/27/2022

Survey Start Time: 11:47 AM

Survey End Time: 12:21 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

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: 1-5%

### Other Native Species in Pool:

Species Name	Cover
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 12

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Festuca perennis</i> - rye grass	<1%
<i>Gastridium phleoides</i> - nit grass	<1%
<i>Lamarckia aurea</i> - golden-top	<1%
<i>Logfia gallica</i> - daggerleaf cottonrose	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 18

Bare Ground Cover in Basin: 5-10%

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

Cover of Litter in Basin: 25-50%

Days Since Last Rain: 1-5

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 452

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Brachypodium distachyon</i> - purple false brome
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Convolvulus simulans</i> - small-flowered morning-glory
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Erodium moschatum</i> - greenstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Gastridium phleoides</i> - nit grass
<i>Hedypnois rhagadioloides</i> - crete weed
<i>Lamarckia aurea</i> - golden-top
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lycium andersonii</i> - Anderson's desert thorn
<i>Plantago erecta</i> - dot-seed plantain
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Simmondsia chinensis</i> - jojoba
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa pulchra</i> - purple needle grass

**Notes:**



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 459

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/27/2022

Survey Start Time: 02:37 PM

Survey End Time: 03:30 PM

Surveyors: Amy Mattson, Jonathan Mercado

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: <1%

### Other Native Species in Pool:

Species Name	Cover
<i>Apiastrum angustifolium</i> - mock-parsley	<1%
<i>Deinandra conjugens</i> - Otay tarplant	1-5%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%
<i>Stephanomeria</i> sp.	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 7

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	1-5%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lamarckia aurea</i> - golden-top	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 16

Bare Ground Cover in Basin: 5-10%

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

Cover of Litter in Basin: 10-25%

Days Since Last Rain: 1-5

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 459

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Apiastrum angustifolium</i> - mock-parsley
<i>Artemisia californica</i> - California sagebrush
<i>Avena barbata</i> - slender wild oat
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bergerocactus emoryi</i> - golden-spined cereus
<i>Beta vulgaris</i> ssp. <i>maritima</i> - sea beet
<i>Brachypodium distachyon</i> - purple false brome
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Deinandra conjugens</i> - Otay tarplant
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Erodium moschatum</i> - greenstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Hedypnois rhagadioloides</i> - crete weed
<i>Lactuca serriola</i> - prickly lettuce
<i>Lamarckia aurea</i> - golden-top
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lycium andersonii</i> - Anderson's desert thorn
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Simmondsia chinensis</i> - jojoba
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stipa pulchra</i> - purple needle grass
<i>Zeltnera venusta</i> - California centaury

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 464

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/4/2022

Survey Start Time: 08:17 AM

Survey End Time: 09:09 AM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

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: 1-5%

### Other Native Species in Pool:

Species Name	Cover
<i>Baccharis pilularis</i> - coyote brush	<1%
<i>Baccharis sarothroides</i> - broom baccharis	<1%
<i>Convolvulus simulans</i> - small-flowered morning-glory	1-5%
<i>Cylindropuntia prolifera</i> - coast cholla	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	5-10%
<i>Epilobium campestre</i> - smooth boisduvalia	<1%
<i>Erigeron canadensis</i> - horseweed	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 14

### Nonnative Species in Pool:

Species Name	Cover
<i>Avena barbata</i> - slender wild oat	<1%
<i>Beta vulgaris</i> ssp. <i>maritima</i> - sea beet	<1%
<i>Brassica nigra</i> - black mustard	<1%
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Erodium cicutarium</i> - redstem filaree	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 50-75%

Nonnative Species Richness in Basin: 22

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 464

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Avena fatua</i> - wild oat
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Beta vulgaris</i> ssp. <i>maritima</i> - sea beet
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Convolvulus simulans</i> - small-flowered morning-glory
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Grindelia camporum</i> - gumplant
<i>Lactuca serriola</i> - prickly lettuce
<i>Lycium andersonii</i> - Anderson's desert thorn
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Rhus integrifolia</i> - lemonade berry
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Simmondsia chinensis</i> - jojoba
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 471

### 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: 38.0

### 2021 Quantitative Monitoring Data

Survey Date: 5/4/2022

Survey Start Time: 09:18 AM

Survey End Time: 10:12 AM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

VPHCP Covered Species Present: PONU, NAFO, ERAR

Cover of ERAR in Basin: 5-10%

Cover of NAFO in Basin: <1%

Cover of ORCA in Basin:

Cover of POAB in Basin:

Cover of PONU in Basin: 5-10%

### Other Native Species in Pool:

Species Name	Cover
<i>Baccharis sarothroides</i> - broom baccharis	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Epilobium campestre</i> - smooth boisduvalia	5-10%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 16

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Dittrichia graveolens</i> - stinkwort	<1%
<i>Erodium cicutarium</i> - redstem filaree	1-5%
<i>Erodium moschatum</i> - greenstem filaree	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	1-5%

Cover of Nonnative Species in Basin: 10-25%

Nonnative Species Richness in Basin: 18

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 471

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Avena barbata</i> - slender wild oat
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus diandrus</i> - ripgut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia californica</i> var. <i>californica</i> - snake cholla
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Dittrichia graveolens</i> - stinkwort
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Erodium moschatum</i> - greenstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia misera</i> - cliff spurge
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Hooveria parviflora</i>
<i>Lycium andersonii</i> - Anderson's desert thorn
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Malosma laurina</i> - laurel sumac
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass
<i>Yucca schidigera</i> - Mojave yucca

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 473

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/20/2022

Survey Start Time: 02:37 PM

Survey End Time: 03:47 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

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: 10-25%

### Other Native Species in Pool:

Species Name	Cover
<i>Artemisia californica</i> - California sagebrush	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	1-5%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Pseudognaphalium stramineum</i> - cotton-batting plant	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	10-25%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 18

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Erodium cicutarium</i> - redstem filaree	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Lamarckia aurea</i> - golden-top	<1%
<i>Logfia gallica</i> - daggerleaf cottonrose	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	1-5%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 16

Bare Ground Cover in Basin: 1-5%

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

Cover of Litter in Basin: 5-10%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 473

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bergerocactus emoryi</i> - golden-spined cereus
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Glebionis coronaria</i> - crown daisy
<i>Lactuca serriola</i> - prickly lettuce
<i>Logfia arizonica</i> - Arizona cottonrose
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lycium andersonii</i> - Anderson's desert thorn
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Mirabilis laevis</i> var. <i>crassifolia</i> - wishbone bush
<i>Navarretia hamata</i> - hooked skunkweed
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass
<i>Yucca schidigera</i> - Mojave yucca
<i>Zeltnera venusta</i> - California centaury

Notes:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 483

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/20/2022

Survey Start Time: 03:46 PM

Survey End Time: 04:36 PM

Surveyors: Amy Mattson, Jonathan Mercado

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:

Species Name	Cover
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Epilobium campestre</i> - smooth boisduvalia	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	50_75

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 12

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	1-5%
<i>Erodium cicutarium</i> - redstem filaree	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 11

Bare Ground Cover in Basin: <1%

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

Cover of Litter in Basin: 25-50%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 483

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Allium</i> sp.
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bergerocactus emoryi</i> - golden-spined cereus
<i>Bromus diandrus</i> - ripgut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia californica</i> var. <i>californica</i> - snake cholla
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Dittrichia graveolens</i> - stinkwort
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Grindelia camporum</i> - gumplant
<i>Hainardia cylindrica</i> - barb grass
<i>Hypochoeris glabra</i> - smooth cat's-ear
<i>Lactuca serriola</i> - prickly lettuce
<i>Lamarckia aurea</i> - golden-top
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lycium andersonii</i> - Anderson's desert thorn
<i>Lycium californicum</i> - California box-thorn
<i>Navarretia hamata</i> - hooked skunkweed
<i>Peritoma arborea</i> - bladderpod
<i>Plantago erecta</i> - dot-seed plantain
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Pseudognaphalium stramineum</i> - cotton-batting plant
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads

**Annual VPHCP Covered Plant Monitoring**

**Fiscal Year:** 2022

**Complex Name:** Cal Terraces (North), Otay Mesa Road Parcels (J2)

**VP ID:** 483

<i>Rosa minutifolia</i> - small-leaved rose
<i>Silene gallica</i> - windmill pink
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Spergularia</i> sp.
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass
<i>Zeltnera venusta</i> - California centaury

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 484

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/4/2022

Survey Start Time: 10:22 AM

Survey End Time: 11:01 AM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

VPHCP Covered Species Present: PONU, 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: 5-10%

### Other Native Species in Pool:

Species Name	Cover
<i>Deinandra conjugens</i> - Otay tarplant	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Juncus bufonius</i> - toad rush	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Plagiobothrys</i> sp.	<1%
<i>Pseudognaphalium stramineum</i> - cotton-batting plant	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	<1%
<i>Rhus integrifolia</i> - lemonade berry	<1%
<i>Simmondsia chinensis</i> - jojoba	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 15

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Dittrichia graveolens</i> - stinkwort	<1%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 10

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

Ponded Water Present: yes

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 484

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bergerocactus emoryi</i> - golden-spined cereus
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Crassula connata</i> - pygmy-weed
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra conjugens</i> - Otay tarplant
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Dittrichia graveolens</i> - stinkwort
<i>Encelia californica</i> - California encelia
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia misera</i> - cliff spurge
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Isocoma menziesii</i> - coastal goldenbush
<i>Laennecia coulteri</i> - Coulter's horseweed
<i>Lamarckia aurea</i> - golden-top
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lycium andersonii</i> - Anderson's desert thorn
<i>Mirabilis laevis</i> var. <i>crassifolia</i> - wishbone bush
<i>Navarretia hamata</i> - hooked skunkweed
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rhus integrifolia</i> - lemonade berry
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass
<i>Yucca schidigera</i> - Mojave yucca
<i>Zeltnera venusta</i> - California centaury

## Annual VPHCP Covered Plant Monitoring

**Fiscal Year:** 2022

**Complex Name:** Cal Terraces (North), Otay Mesa Road Parcels (J2)

**VP ID:** 484

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

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

### 2021 Quantitative Monitoring Data

Survey Date: 5/4/2022

Survey Start Time: 11:04 AM

Survey End Time: 11:48 AM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

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: 1-5%

### Other Native Species in Pool:

Species Name	Cover
<i>Deinandra conjugens</i> - Otay tarplant	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	5-10%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	10-25%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 16

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Dittrichia graveolens</i> - stinkwort	<1%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Gastrium phleoides</i> - nit grass	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 19

Bare Ground Cover in Basin: 10-25%

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

Cover of Litter in Basin: 25-50%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 490

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus diandrus</i> - ripgut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia californica</i> var. <i>californica</i> - snake cholla
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra conjugens</i> - Otay tarplant
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Dittrichia graveolens</i> - stinkwort
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Erodium moschatum</i> - greenstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia misera</i> - cliff spurge
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Gastridium phleoides</i> - nit grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lamarckia aurea</i> - golden-top
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lycium andersonii</i> - Anderson's desert thorn
<i>Mammillaria dioica</i> - fish-hook cactus
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Pseudognaphalium biolettii</i> - bicolor cudweed
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rosa minutifolia</i> - small-leaved rose
<i>Silene gallica</i> - windmill pink
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Zeltnera venusta</i> - California centaury



## Annual VPHCP Covered Plant Monitoring

**Fiscal Year:** 2022

**Complex Name:** Cal Terraces (North), Otay Mesa Road Parcels (J2)

**VP ID:** 490

**Notes:** Psilocarphus brevisimus from last year counted as litter.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 502

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/4/2022

Survey Start Time: 12:18 PM

Survey End Time: 01:01 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

VPHCP Covered Species Present: ERAR, NAFO, PONU

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: <1%

### Other Native Species in Pool:

Species Name	Cover
<i>Amblyopappus pusillus</i> - pineapple-weed	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	1-5%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 13

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Dittrichia graveolens</i> - stinkwort	<1%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Gastridium phleoides</i> - nit grass	<1%
<i>Oncosiphon pilulifer</i> - stinknet	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	1-5%

Cover of Nonnative Species in Basin: 1-5%

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: 5-10%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 502

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Avena fatua</i> - wild oat
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia californica</i> var. <i>californica</i> - snake cholla
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Dittrichia graveolens</i> - stinkwort
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia misera</i> - cliff spurge
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Gastidium phleoides</i> - nit grass
<i>Grindelia camporum</i> - gumplant
<i>Lycium andersonii</i> - Anderson's desert thorn
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa pulchra</i> - purple needle grass
<i>Yucca schidigera</i> - Mojave yucca
<i>Zeltnera venusta</i> - California centaury

**Notes:** *Psilocarphus brevisimus* from last year counted as litter.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 509

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/19/2022

Survey Start Time: 03:49 PM

Survey End Time: 04:11 PM

Surveyors: Jason Allen, James Davis, Danelle Gadia, Anahi Mendez Lozano

VPHCP Covered Species Present: PONU, NAFO, ERAR

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: 1-5%

### Other Native Species in Pool:

Species Name	Cover
<i>Deinandra fasciculata</i> - fascicled tarweed	1-5%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	25-50%
<i>Simmondsia chinensis</i> - jojoba	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 17

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	1-5%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Dittrichia graveolens</i> - stinkwort	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Oncosiphon pilulifer</i> - stinknet	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 13

Bare Ground Cover in Basin: 1-5%

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

Cover of Litter in Basin: 1-5%

Days Since Last Rain: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 509

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Apiastrum angustifolium</i> - mock-parsley
<i>Artemisia californica</i> - California sagebrush
<i>Atriplex pacifica</i> - south coast saltscale
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bergerocactus emoryi</i> - golden-spined cereus
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Crassula connata</i> - pygmy-weed
<i>Daucus pusillus</i> - rattlesnake weed
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia misera</i> - cliff spurge
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Lamarckia aurea</i> - golden-top
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lycium andersonii</i> - Anderson's desert thorn
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass
<i>Yucca schidigera</i> - Mojave yucca

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 591

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/19/2022

Survey Start Time: 02:39 PM

Survey End Time: 03:12 PM

Surveyors: Jason Allen, James Davis, Danelle Gadia, Anahi Mendez Lozano

VPHCP Covered Species Present: PONU, 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 Name	Cover
<i>Apiastrum angustifolium</i> - mock-parsley	<1%
<i>Deinandra conjugens</i> - Otay tarplant	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	10-25%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 15

### Nonnative Species in Pool:

Species Name	Cover
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Logfia gallica</i> - daggerleaf cottonrose	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	1-5%

Cover of Nonnative Species in Basin: 10-25%

Nonnative Species Richness in Basin: 14

Bare Ground Cover in Basin: 5-10%

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

Cover of Litter in Basin: 1-5%

Days Since Last Rain: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 591

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Ambrosia pumila</i> - San Diego ambrosia
<i>Apiastrum angustifolium</i> - mock-parsley
<i>Artemisia californica</i> - California sagebrush
<i>Avena barbata</i> - slender wild oat
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bergerocactus emoryi</i> - golden-spined cereus
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Daucus pusillus</i> - rattlesnake weed
<i>Deinandra conjugens</i> - Otay tarplant
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia misera</i> - cliff spurge
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Grindelia camporum</i> - gumplant
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lycium andersonii</i> - Anderson's desert thorn
<i>Malosma laurina</i> - laurel sumac
<i>Navarretia hamata</i> - hooked skunkweed
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Pseudognaphalium luteoalbum</i> - fragrant everlasting cudweed
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rosa minutifolia</i> - small-leaved rose
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stipa lepida</i> - foothill needle grass

## Annual VPHCP Covered Plant Monitoring

**Fiscal Year:** 2022

**Complex Name:** Cal Terraces (North), Otay Mesa Road Parcels (J2)

**VP ID:** 591

<i>Yucca schidigera</i> - Mojave yucca
<i>Zeltnera venusta</i> - California centaury

**Notes:**



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 1310

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/2/2022

Survey Start Time: 10:10 AM

Survey End Time: 10:39 AM

Surveyors: Sara Allen, Sarah McCutcheon

VPHCP Covered Species Present: PONU, 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: 10-25%

### Other Native Species in Pool:

Species Name	Cover
<i>Deinandra conjugens</i> - Otay tarplant	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	1-5%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Juncus bufonius</i> - toad rush	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Osmadenia tenella</i> - osmadenia	<1%
<i>Plantago erecta</i> - dot-seed plantain	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	10-25%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 6

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Erodium cicutarium</i> - redstem filaree	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Festuca perennis</i> - rye grass	<1%
<i>Lamarckia aurea</i> - golden-top	<1%
<i>Logfia gallica</i> - daggerleaf cottonrose	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 12

Bare Ground Cover in Basin: 1-5%

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

Cover of Litter in Basin: 25-50%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 1310

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Crassula connata</i> - pygmy-weed
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra conjugens</i> - Otay tarplant
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia misera</i> - cliff spurge
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Lamarckia aurea</i> - golden-top
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Navarretia hamata</i> - hooked skunkweed
<i>Osmadenia tenella</i> - osmadenia
<i>Plantago elongata</i> - prairie plantain
<i>Plantago erecta</i> - dot-seed plantain
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rosa minutifolia</i> - small-leaved rose
<i>Salvia mellifera</i> - black sage
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass
<i>Yucca schidigera</i> - Mojave yucca

**Notes:** *Psilocarphus brevisimus* from last year counted as litter.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 1321

### 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: 5.0

### 2021 Quantitative Monitoring Data

Survey Date: 5/2/2022

Survey Start Time: 10:54 AM

Survey End Time: 11:45 AM

Surveyors: Sara Allen, Sarah McCutcheon

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%

### Other Native Species in Pool:

Species Name	Cover
<i>Baccharis sarothroides</i> - broom baccharis	1-5%
<i>Deinandra conjugens</i> - Otay tarplant	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Epilobium campestre</i> - smooth boisduvalia	1-5%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Plantago erecta</i> - dot-seed plantain	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 12

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Erigeron sumatrensis</i> - tropical horseweed	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Festuca perennis</i> - rye grass	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	1-5%
<i>Phalaris paradoxa</i> - hood canary grass	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 10-25%

Nonnative Species Richness in Basin: 9

Bare Ground Cover in Basin: 1-5%

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

Cover of Litter in Basin: 5-10%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 1321

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Amsinckia</i> sp.
<i>Artemisia californica</i> - California sagebrush
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Crassula connata</i> - pygmy-weed
<i>Daucus pusillus</i> - rattlesnake weed
<i>Deinandra conjugens</i> - Otay tarplant
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Glebionis coronaria</i> - crown daisy
<i>Lactuca serriola</i> - prickly lettuce
<i>Lycium andersonii</i> - Anderson's desert thorn
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Navarretia hamata</i> - hooked skunkweed
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Peritoma arborea</i> - bladderpod
<i>Phalaris minor</i> - little-seeded canary grass
<i>Phalaris paradoxa</i> - hood canary grass
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rhus integrifolia</i> - lemonade berry
<i>Rosa minutifolia</i> - small-leaved rose
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Yucca schidigera</i> - Mojave yucca

**Notes:** *Psilocarphus brevisimus* from last year counted as litter.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 1713

### 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: 0.5

### 2021 Quantitative Monitoring Data

Survey Date: 4/19/2022

Survey Start Time: 01:15 PM

Survey End Time: 01:46 PM

Surveyors: Jason Allen, James Davis, Danelle Gadia, Anahi Mendez Lozano

VPHCP Covered Species Present: PONU, 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%

### Other Native Species in Pool:

Species Name	Cover
<i>Deinandra fasciculata</i> - fascicled tarweed	1-5%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	10-25%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 11

### Nonnative Species in Pool:

Species Name	Cover
<i>Avena barbata</i> - slender wild oat	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Phalaris minor</i> - little-seeded canary grass	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 13

Bare Ground Cover in Basin: 5-10%

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

Cover of Litter in Basin: 1-5%

Days Since Last Rain: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 1713

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Amsinckia intermedia</i> - common fiddleneck
<i>Artemisia californica</i> - California sagebrush
<i>Avena barbata</i> - slender wild oat
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Crassula connata</i> - pygmy-weed
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Daucus pusillus</i> - rattlesnake weed
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Dittrichia graveolens</i> - stinkwort
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Glebionis coronaria</i> - crown daisy
<i>Hypochoeris glabra</i> - smooth cat's-ear
<i>Lactuca serriola</i> - prickly lettuce
<i>Lepidium nitidum</i> - shining peppergrass
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Navarretia hamata</i> - hooked skunkweed
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Phalaris minor</i> - little-seeded canary grass
<i>Plantago erecta</i> - dot-seed plantain
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Selaginella cinerascens</i> - ashy spike-moss

## Annual VPHCP Covered Plant Monitoring

**Fiscal Year:** 2022

**Complex Name:** Cal Terraces (North), Otay Mesa Road Parcels (J2)

**VP ID:** 1713

<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 1724

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/19/2022

Survey Start Time: 11:32 AM

Survey End Time: 12:03 PM

Surveyors: Jason Allen, Mark Berninger, James Davis, Danelle Gadia, Anahi Mendez Lozano

VPHCP Covered Species Present: 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:

### Other Native Species in Pool:

Species Name	Cover
<i>Baccharis sarothroides</i> - broom baccharis	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	1-5%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Epilobium campestre</i> - smooth boisduvalia	5-10%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 8

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Festuca perennis</i> - rye grass	1-5%
<i>Glebionis coronaria</i> - crown daisy	<1%
<i>Lythrum hyssopifolia</i> - grass poly	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 21

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: >16

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (North), Otay Mesa Road Parcels (J2)

VP ID: 1724

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Amaranthus albus</i> - tumbleweed
<i>Artemisia californica</i> - California sagebrush
<i>Baccharis pilularis</i> - coyote brush
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Beta vulgaris</i> ssp. <i>maritima</i> - sea beet
<i>Brachypodium distachyon</i> - purple false brome
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Dittrichia graveolens</i> - stinkwort
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Encelia californica</i> - California encelia
<i>Epilobium campestre</i> - smooth boisduvalia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia</i> sp.
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Glebionis coronaria</i> - crown daisy
<i>Heteromeles arbutifolia</i> - toyon
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Malosma laurina</i> - laurel sumac
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rhus integrifolia</i> - lemonade berry
<i>Salvia mellifera</i> - black sage
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Tamarix</i> sp.

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

VP ID: 2022

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/13/2022

Survey Start Time: 12:21 PM

Survey End Time: 01:24 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

VPHCP Covered Species Present: 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:

### Other Native Species in Pool:

Species Name	Cover
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	25-50%
<i>Epilobium campestre</i> - smooth boisduvalia	<1%
<i>Lysimachia minima</i> - chaffweed	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 12

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Lythrum hyssopifolia</i> - grass poly	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	1-5%

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: 5-10%

Cover of Litter in Basin: <1%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

VP ID: 2022

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Antirrhinum nuttallianum</i> - Nuttall's Snapdragon
<i>Artemisia californica</i> - California sagebrush
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Calochortus splendens</i> - splendid mariposa lily
<i>Centaurea melitensis</i> - tocalote
<i>Cerastium glomeratum</i> - sticky mouse-ear chickweed
<i>Crassula connata</i> - pygmy-weed
<i>Daucus pusillus</i> - rattlesnake weed
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Helminthotheca echioides</i> - bristly ox-tongue
<i>Hirschfeldia incana</i> - short-pod mustard
<i>Isocoma menziesii</i> - coastal goldenbush
<i>Lycium andersonii</i> - Anderson's desert thorn
<i>Lythrum hyssopifolia</i> - grass poly
<i>Malosma laurina</i> - laurel sumac
<i>Matricaria discoidea</i> - pineapple weed
<i>Navarretia hamata</i> - hooked skunkweed
<i>Peritoma arborea</i> - bladderpod
<i>Phacelia cicutaria</i> - caterpillar phacelia
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Rhus integrifolia</i> - lemonade berry
<i>Rosa minutifolia</i> - small-leaved rose
<i>Simmondsia chinensis</i> - jojoba
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Solanum americanum</i> - white nightshade
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Zeltnera venusta</i> - California centaury

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

VP ID: 2025

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/18/2022

Survey Start Time: 10:11 AM

Survey End Time: 11:08 AM

Surveyors: Amy Mattson, Jonathan Mercado

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: <1%

### Other Native Species in Pool:

Species Name	Cover
<i>Amblyopappus pusillus</i> - pineapple-weed	<1%
<i>Astragalus trichopodus</i> - Santa Barbara milk vetch	<1%
<i>Cryptantha</i> sp.	<1%
<i>Cylindropuntia prolifera</i> - coast cholla	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Epilobium campestre</i> - smooth boisduvalia	1-5%
<i>Frankenia salina</i> - alkali heath	<1%
<i>Lepidium nitidum</i> - shining peppergrass	<1%
<i>Matricaria discoidea</i> - pineapple weed	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%
<i>Stephanomeria diegensis</i> - San Diego wreath-plant	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 13

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Dittrichia graveolens</i> - stinkwort	<1%
<i>Erodium cicutarium</i> - redstem filaree	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Glebionis coronaria</i> - crown daisy	<1%
<i>Helminthotheca echioides</i> - bristly ox-tongue	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Oncosiphon pilulifer</i> - stinknet	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%
<i>Unknown mustard</i>	<1%

## Annual VPHCP Covered Plant Monitoring

**Fiscal Year:** 2022

**Complex Name:** Cal Terraces (South) (J14)

**VP ID:** 2025

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

**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%

**Days Since Last Rain:** >16

**Ponded Water Present:** no

**Dead Species Present in Pool:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

VP ID: 2025

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Amaranthus albus</i> - tumbleweed
<i>Amblyopappus pusillus</i> - pineapple-weed
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Astragalus trichopodus</i> - Santa Barbara milk vetch
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bergerocactus emoryi</i> - golden-spined cereus
<i>Bergia texana</i> - Texas bergia
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Crassula connata</i> - pygmy-weed
<i>Cryptantha</i> sp.
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Dittrichia graveolens</i> - stinkwort
<i>Dudleya edulis</i> - ladies' fingers
<i>Dudleya pulverulenta</i> - chalk dudleya
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Encelia californica</i> - California encelia
<i>Epilobium campestre</i> - smooth boisduvalia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Frankenia salina</i> - alkali heath
<i>Glebionis coronaria</i> - crown daisy
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Juncus bufonius</i> - toad rush
<i>Lepidium nitidum</i> - shining peppergrass
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lycium californicum</i> - California box-thorn
<i>Lysimachia arvensis</i> - scarlet pimpernel

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

VP ID: 2025

<i>Malosma laurina</i> - laurel sumac
<i>Matricaria discoidea</i> - pineapple weed
<i>Mesembryanthemum crystallinum</i> - crystalline iceplant
<i>Muhlenbergia rigens</i> - deer grass
<i>Navarretia hamata</i> - hooked skunkweed
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rhus integrifolia</i> - lemonade berry
<i>Salsola tragus</i> - Russian thistle
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Yucca schidigera</i> - Mojave yucca

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

VP ID: 2039

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/13/2022

Survey Start Time: 01:32 PM

Survey End Time: 02:18 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

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: 25-50%

### Other Native Species in Pool:

Species Name	Cover
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Plagiobothrys</i> sp.	<1%
<i>Plantago elongata</i> - prairie plantain	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 10

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Dittrichia graveolens</i> - stinkwort	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Logfia gallica</i> - daggerleaf cottonrose	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 13

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: 1-5

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

VP ID: 2039

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Apiastrum angustifolium</i> - mock-parsley
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Crassula connata</i> - pygmy-weed
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia misera</i> - cliff spurge
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Gastridium phleoides</i> - nit grass
<i>Hainardia cylindrica</i> - barb grass
<i>Isocoma menziesii</i> - coastal goldenbush
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lycium andersonii</i> - Anderson's desert thorn
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Navarretia hamata</i> - hooked skunkweed
<i>Peritoma arborea</i> - bladderpod
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stipa lepida</i> - foothill needle grass

**Notes:** *Psilocarphus brevisimus* from last year counted as litter.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

VP ID: 2043

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/18/2022

Survey Start Time: 11:13 AM

Survey End Time: 12:23 PM

Surveyors: Amy Mattson, Jonathan Mercado

VPHCP Covered Species Present: PONU, NAFO, ERAR

Cover of ERAR in Basin: <1%

Cover of NAFO in Basin: <1%

Cover of ORCA in Basin:

Cover of POAB in Basin:

Cover of PONU in Basin: <1%

### Other Native Species in Pool:

Species Name	Cover
<i>Amblyopappus pusillus</i> - pineapple-weed	<1%
<i>Crassula aquatica</i> - water pygmyweed	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Epilobium campestre</i> - smooth boisduvalia	1-5%
<i>Heliotropium curassavicum</i> var. <i>oculatum</i> - seaside heliotrope	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%
<i>Zeltnera venusta</i> - California centaury	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 18

### Nonnative Species in Pool:

Species Name	Cover
<i>Dittrichia graveolens</i> - stinkwort	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%

Cover of Nonnative Species in Basin: <1%

Nonnative Species Richness in Basin: 8

Bare Ground Cover in Basin: -999

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

Cover of Litter in Basin: 50-75%

Days Since Last Rain: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

VP ID: 2043

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Amblyopappus pusillus</i> - pineapple-weed
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Astragalus trichopodus</i> - Santa Barbara milk vetch
<i>Baccharis pilularis</i> - coyote brush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bergerocactus emoryi</i> - golden-spined cereus
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Crassula connata</i> - pygmy-weed
<i>Cylindropuntia californica</i> var. <i>californica</i> - snake cholla
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra conjugens</i> - Otay tarplant
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Dicranostegia orcuttiana</i> - Orcutt's bird's-beak
<i>Dittrichia graveolens</i> - stinkwort
<i>Dudleya edulis</i> - ladies' fingers
<i>Dudleya pulverulenta</i> - chalk dudleya
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia misera</i> - cliff spurge
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Heliotropium curassavicum</i> var. <i>oculatum</i> - seaside heliotrope
<i>Hooveria parviflora</i>
<i>Lamarckia aurea</i> - golden-top
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Malosma laurina</i> - laurel sumac
<i>Mammillaria dioica</i> - fish-hook cactus
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Navarretia hamata</i> - hooked skunkweed
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Peritoma arborea</i> - bladderpod
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads

**Annual VPHCP Covered Plant Monitoring**

**Fiscal Year:** 2022

**Complex Name:** Cal Terraces (South) (J14)

**VP ID:** 2043

<i>Rhus integrifolia</i> - lemonade berry
<i>Salsola tragus</i> - Russian thistle
<i>Simmondsia chinensis</i> - jojoba
<i>Stephanomeria diegensis</i> - San Diego wreath-plant
<i>Yucca schidigera</i> - Mojave yucca
<i>Zeltnera venusta</i> - California centaury

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

VP ID: 2044

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/13/2022

Survey Start Time: 02:23 PM

Survey End Time: 03:06 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

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: <1%

### Other Native Species in Pool:

Species Name	Cover
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 7

### Nonnative Species in Pool:

Species Name	Cover
<i>Dittrichia graveolens</i> - stinkwort	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<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%

Cover of Litter in Basin: 10-25%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

VP ID: 2044

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Crassula connata</i> - pygmy-weed
<i>Cylindropuntia californica</i> var. <i>californica</i> - snake cholla
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Dittrichia graveolens</i> - stinkwort
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia misera</i> - cliff spurge
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Isocoma menziesii</i> - coastal goldenbush
<i>Lactuca serriola</i> - prickly lettuce
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lycium andersonii</i> - Anderson's desert thorn
<i>Navarretia hamata</i> - hooked skunkweed
<i>Peritoma arborea</i> - bladderpod
<i>Polygonum monspeliensis</i> - rabbitfoot grass
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Simmondsia chinensis</i> - jojoba
<i>Stipa lepida</i> - foothill needle grass
<i>Yucca schidigera</i> - Mojave yucca

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

VP ID: 2185

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/18/2022

Survey Start Time: 09:29 AM

Survey End Time: 10:03 AM

Surveyors: Amy Mattson, Jonathan Mercado

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

>75%

### Other Native Species in Pool:

Species Name	Cover
<i>Cylindropuntia californica</i> var. <i>californica</i> - snake cholla	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Epilobium campestre</i> - smooth boisduvalia	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 13

### Nonnative Species in Pool:

Species Name	Cover
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Dittrichia graveolens</i> - stinkwort	<1%
<i>Erigeron sumatrensis</i> - tropical horseweed	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%
<i>Unknown mustard</i>	1-5%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 5

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: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

VP ID: 2185

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Amblyopappus pusillus</i> - pineapple-weed
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Amsinckia intermedia</i> - common fiddleneck
<i>Artemisia californica</i> - California sagebrush
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Centaurea melitensis</i> - tocalote
<i>Crassula connata</i> - pygmy-weed
<i>Cryptantha intermedia</i> var. <i>intermedia</i> - common cryptantha
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Dittrichia graveolens</i> - stinkwort
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Glebionis coronaria</i> - crown daisy
<i>Grindelia camporum</i> - gumplant
<i>Iva hayesiana</i> - San Diego marsh-elder
<i>Lepidium nitidum</i> - shining peppergrass
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Navarretia hamata</i> - hooked skunkweed
<i>Plantago erecta</i> - dot-seed plantain
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Salvia apiana</i> - white sage
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa pulchra</i> - purple needle grass
<i>Yucca schidigera</i> - Mojave yucca

**Notes:** *Psilocarphus brevisimus* from last year counted as litter.



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

VP ID: 2189

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/18/2022

Survey Start Time: 08:05 AM

Survey End Time: 09:23 AM

Surveyors: Amy Mattson, Jonathan Mercado

VPHCP Covered Species Present: PONU, NAFO, ERAR

Cover of ERAR in Basin: <1%

Cover of NAFO in Basin: <1%

Cover of ORCA in Basin:

Cover of POAB in Basin:

Cover of PONU in Basin: 5-10%

### Other Native Species in Pool:

Species Name	Cover
<i>Crassula aquatica</i> - water pygmyweed	<1%
<i>Cylindropuntia prolifera</i> - coast cholla	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	1-5%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Epilobium campestre</i> - smooth boisduvalia	10-25%
<i>Eriogonum fasciculatum</i> - California buckwheat	<1%
<i>Frankenia salina</i> - alkali heath	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Plantago elongata</i> - prairie plantain	1-5%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 18

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%
<i>Unknown mustard</i>	25-50%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 8

Bare Ground Cover in Basin: 5-10%

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:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Cal Terraces (South) (J14)

VP ID: 2189

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Amblyopappus pusillus</i> - pineapple-weed
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Brachypodium distachyon</i> - purple false brome
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Dittrichia graveolens</i> - stinkwort
<i>Encelia californica</i> - California encelia
<i>Epilobium campestre</i> - smooth boisduvalia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Frankenia salina</i> - alkali heath
<i>Isocoma menziesii</i> - coastal goldenbush
<i>Iva hayesiana</i> - San Diego marsh-elder
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Navarretia hamata</i> - hooked skunkweed
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Yucca schidigera</i> - Mojave yucca

**Notes:** *Psilocarphus brevissimus* from last year counted as litter. The unknown nonnative in pool is in Brassicaceae.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Carroll Canyon (D5-8)

VP ID: 1077

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/22/2022

Survey Start Time: 12:45 PM

Survey End Time: 01:31 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

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: 1-5%

Cover of PONU in Basin:

### Other Native Species in Pool:

Species Name	Cover
<i>Cuscuta californica</i> - chaparral dodder	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Juncus bufonius</i> - toad rush	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%
<i>Selaginella cinerascens</i> - ashy spike-moss	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 12

### Nonnative Species in Pool:

Species Name	Cover
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Hypochaeris glabra</i> - smooth cat's-ear	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	1-5%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: <1%

Nonnative Species Richness in Basin: 5

Bare Ground Cover in Basin: 5-10%

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

Cover of Litter in Basin: 25-50%

Days Since Last Rain: 0

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Carroll Canyon (D5-8)

VP ID: 1077

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Adenostoma fasciculatum</i> - chamise
<i>Agrostis microphylla</i> - small-leaf bent grass
<i>Apiastrum angustifolium</i> - mock-parsley
<i>Bromus madritensis</i> - foxtail chess
<i>Cuscuta californica</i> - chaparral dodder
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i> - long-stem golden-yarrow
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Navarretia hamata</i> - hooked skunkweed
<i>Pogogyne abramsii</i> - San Diego mesa mint
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Carroll Canyon (D5-8)

VP ID: 1092

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/22/2022

Survey Start Time: 01:35 PM

Survey End Time: 02:03 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

VPHCP Covered Species Present: POAB, ERAR

Cover of ERAR in Basin: 1-5%

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
<i>Agrostis microphylla</i> - small-leaf bent grass	<1%
<i>Cuscuta californica</i> - chaparral dodder	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Juncus bufonius</i> - toad rush	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 11

### Nonnative Species in Pool:

Species Name	Cover
<i>Dittrichia graveolens</i> - stinkwort	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: <1%

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%

Days Since Last Rain: 0

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Carroll Canyon (D5-8)

VP ID: 1092

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Adenostoma fasciculatum</i> - chamise
<i>Bromus madritensis</i> - foxtail chess
<i>Chorizanthe polygonoides</i> var. <i>longispina</i> - long-spined spineflower
<i>Cuscuta californica</i> - chaparral dodder
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Dittrichia graveolens</i> - stinkwort
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i> - long-stem golden-yarrow
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Hooveria parviflora</i>
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Juncus bufonius</i> - toad rush
<i>Navarretia hamata</i> - hooked skunkweed
<i>Pogogyne abramsii</i> - San Diego mesa mint
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Salvia mellifera</i> - black sage
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa pulchra</i> - purple needle grass

**Notes:** *Psilocarphus brevisimus* from last year counted as litter.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Carroll Canyon (D5-8)

VP ID: 1096

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 4/22/2022

Survey Start Time: 02:11 PM

Survey End Time: 02:35 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

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: 1-5%

Cover of PONU in Basin:

**Other Native Species in Pool:**

Species Name	Cover
<i>Agrostis microphylla</i> - small-leaf bent grass	<1%
<i>Cuscuta californica</i> - chaparral dodder	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Juncus bufonius</i> - toad rush	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 9

**Nonnative Species in Pool:**

Species Name	Cover
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<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%

Cover of Litter in Basin: 1-5%

Days Since Last Rain: 0

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Carroll Canyon (D5-8)

VP ID: 1096

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Adenostoma fasciculatum</i> - chamise
<i>Agrostis microphylla</i> - small-leaf bent grass
<i>Apiastrum angustifolium</i> - mock-parsley
<i>Bromus madritensis</i> - foxtail chess
<i>Cuscuta californica</i> - chaparral dodder
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Diplacus aurantiacus</i> - orange bush monkeyflower
<i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i> - long-stem golden-yarrow
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Hooveria parviflora</i>
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Juncus dubius</i> - mariposa rush
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Navarretia hamata</i> - hooked skunkweed
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Psilocarphus brevisimus</i> var. <i>brevisimus</i> - dwarf woollyheads
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle

**Notes:** *Psilocarphus brevisimus* from last year counted as litter.



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Carroll Canyon (D5-8)

VP ID: 1109

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 4/22/2022

Survey Start Time: 02:51 PM

Survey End Time: 03:12 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

VPHCP Covered Species Present: POAB, ERAR

Cover of ERAR in Basin: 10-25%

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 Name	Cover
<i>Cuscuta californica</i> - chaparral dodder	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Juncus bufonius</i> - toad rush	<1%
<i>Juncus dubius</i> - mariposa rush	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 8

**Nonnative Species in Pool:**

Species Name	Cover
<i>Dittrichia graveolens</i> - stinkwort	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	1-5%

Cover of Nonnative Species in Basin: <1%

Nonnative Species Richness in Basin: 3

Bare Ground Cover in Basin: 5-10%

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

Cover of Litter in Basin: 1-5%

Days Since Last Rain: 0

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Carroll Canyon (D5-8)

VP ID: 1109

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Adenostoma fasciculatum</i> - chamise
<i>Crassula connata</i> - pygmy-weed
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Juncus bufonius</i> - toad rush
<i>Juncus dubius</i> - mariposa rush
<i>Navarretia hamata</i> - hooked skunkweed
<i>Pogogyne abramsii</i> - San Diego mesa mint
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Selaginella cinerascens</i> - ashy spike-moss

**Notes:** *Psilocarphus brevisimus* from last year counted as litter.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Carroll Canyon (D5-8)

VP ID: 1740

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/22/2022

Survey Start Time: 11:33 AM

Survey End Time: 12:12 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

VPHCP Covered Species Present: POAB, ERAR

Cover of ERAR in Basin: 50-75%

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
<i>Cuscuta californica</i> - chaparral dodder	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Juncus bufonius</i> - toad rush	<1%
<i>Juncus dubius</i> - mariposa rush	1-5%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 10

### Nonnative Species in Pool:

Species Name	Cover
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	1-5%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 6

Bare Ground Cover in Basin: 10-25%

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

Cover of Litter in Basin: 1-5%

Days Since Last Rain: 0

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Carroll Canyon (D5-8)

VP ID: 1740

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Adenostoma fasciculatum</i> - chamise
<i>Baccharis pilularis</i> - coyote brush
<i>Bromus madritensis</i> - foxtail chess
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Diplacus aurantiacus</i> - orange bush monkeyflower
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Navarretia hamata</i> - hooked skunkweed
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Pseudognaphalium californicum</i> - California everlasting
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Carroll Canyon (D5-8)

VP ID: 1743

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 4/22/2022

Survey Start Time: 10:46 AM

Survey End Time: 11:16 AM

Surveyors: Amy Mattson, Jonathan Mercado

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:**

Species Name	Cover
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	1-5%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Juncus bufonius</i> - toad rush	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 9

**Nonnative Species in Pool:**

Species Name	Cover
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Hypochaeris glabra</i> - smooth cat's-ear	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 6

Bare Ground Cover in Basin: 10-25%

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

Cover of Litter in Basin: 10-25%

Days Since Last Rain: 0

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Carroll Canyon (D5-8)

VP ID: 1743

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Adenostoma fasciculatum</i> - chamise
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Crocانthemum scoparium</i> - peak rush-rose
<i>Cuscuta californica</i> - chaparral dodder
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Hirschfeldia incana</i> - short-pod mustard
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Juncus dubius</i> - mariposa rush
<i>Lactuca serriola</i> - prickly lettuce
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Marah macrocarpa</i> - chilicothe
<i>Navarretia hamata</i> - hooked skunkweed
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle

**Notes:** *Psilocarphus brevisimus* from last year counted as litter.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Carroll Canyon (D5-8)

VP ID: 1746

<b>2003 Baseline Survey Data</b>
----------------------------------

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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 4/22/2022

Survey Start Time: 09:12 AM

Survey End Time: 10:37 AM

Surveyors: Amy Mattson, Jonathan Mercado

VPHCP Covered Species Present: POAB, ERAR

Cover of ERAR in Basin: 10-25%

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
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea	<1%
<i>Cuscuta californica</i> - chaparral dodder	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Juncus bufonius</i> - toad rush	<1%
<i>Juncus dubius</i> - mariposa rush	1-5%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 12

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Dittrichia graveolens</i> - stinkwort	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	1-5%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<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: 10-25%

Cover of Litter in Basin: 1-5%

Days Since Last Rain: 0

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Carroll Canyon (D5-8)

VP ID: 1746

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Adenostoma fasciculatum</i> - chamise
<i>Baccharis pilularis</i> - coyote brush
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Gastridium phleoides</i> - nit grass
<i>Juncus dubius</i> - mariposa rush
<i>Navarretia hamata</i> - hooked skunkweed
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Pseudognaphalium californicum</i> - California everlasting
<i>Pseudognaphalium stramineum</i> - cotton-batting plant
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Solanum</i> sp.
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa pulchra</i> - purple needle grass

**Notes:**



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Clayton Parcel (J2)

VP ID: 876

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/20/2022

Survey Start Time: 08:30 AM

Survey End Time: 09:56 AM

Surveyors: Jason Allen, Jonathan Mercado, Amy Mattson

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: 1-5%

### Other Native Species in Pool:

Species Name	Cover
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed	<1%
<i>Callitriche marginata</i> - winged water-starwort	1-5%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Juncus bufonius</i> - toad rush	1-5%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 12

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	1-5%
<i>Dittrichia graveolens</i> - stinkwort	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	1-5%
<i>Festuca perennis</i> - rye grass	5-10%
<i>Hordeum marinum</i> ssp. <i>gussoneanum</i> - Mediterranean barley	<1%
<i>Hypochaeris glabra</i> - smooth cat's-ear	<1%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Lythrum hyssopifolia</i> - grass poly	10-25%
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant	<1%
<i>Salsola tragus</i> - Russian thistle	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%
<i>Sonchus oleraceus</i> - common sow thistle	<1%

Cover of Nonnative Species in Basin: >75%

Nonnative Species Richness in Basin: 18

Bare Ground Cover in Basin: 1-5%

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

Cover of Litter in Basin: <1%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Clayton Parcel (J2)

VP ID: 876

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Artemisia californica</i> - California sagebrush
<i>Atriplex semibaccata</i> - Australian saltbush
<i>Avena barbata</i> - slender wild oat
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus madritensis</i> - foxtail chess
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Dudleya pulverulenta</i> - chalk dudleya
<i>Encelia californica</i> - California encelia
<i>Erigeron canadensis</i> - horseweed
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Euphorbia misera</i> - cliff spurge
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca perennis</i> - rye grass
<i>Grindelia camporum</i> - gumplant
<i>Hordeum marinum</i> ssp. <i>gussoneanum</i> - Mediterranean barley
<i>Hypochoeris glabra</i> - smooth cat's-ear
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Lythrum hyssopifolia</i> - grass poly
<i>Medicago polymorpha</i> - California burclover
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Mirabilis laevis</i> var. <i>crassifolia</i> - wishbone bush
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Rhus integrifolia</i> - lemonade berry
<i>Salsola tragus</i> - Russian thistle
<i>Salvia apiana</i> - white sage
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Simmondsia chinensis</i> - jojoba
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stipa pulchra</i> - purple needle grass
<i>Yucca schidigera</i> - Mojave yucca

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

VP ID: 1255

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/29/2022

Survey Start Time: 02:44 PM

Survey End Time: 03:15 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

VPHCP Covered Species Present: 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:

### Other Native Species in Pool:

Species Name	Cover
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%
<i>Psilocarphus tenellus</i> - slender woolly-marbles	<1%
<i>Selaginella cinerascens</i> - ashy spike-moss	1-5%
<i>Sisyrinchium bellum</i> - western blue-eyed-grass	<1%
<i>Stipa lepida</i> - foothill needle grass	<1%
<i>Zeltnera venusta</i> - California centaury	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 11

### Nonnative Species in Pool:

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

Cover of Litter in Basin: <1%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

VP ID: 1255

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Adenostoma fasciculatum</i> - chamise
<i>Artemisia californica</i> - California sagebrush
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Heteromeles arbutifolia</i> - toyon
<i>Navarretia hamata</i> - hooked skunkweed
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Quercus dumosa</i> - Nuttall's scrub oak
<i>Rhus integrifolia</i> - lemonade berry
<i>Salvia mellifera</i> - black sage
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

VP ID: 1260

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 4/29/2022

Survey Start Time: 01:55 PM

Survey End Time: 02:41 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

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: 1-5%

Cover of PONU in Basin:

**Other Native Species in Pool:**

Species Name	Cover
<i>Deinandra fasciculata</i> - fascicled tarweed	5-10%
<i>Deschampsia danthonioides</i> - annual hair grass	1-5%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Plantago elongata</i> - prairie plantain	1-5%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%
<i>Sisyrinchium bellum</i> - western blue-eyed-grass	<1%
<i>Stipa lepida</i> - foothill needle grass	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 10

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Gastridium phleoides</i> - nit grass	<1%
<i>Sonchus oleraceus</i> - common sow thistle	<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: 10-25%

Cover of Litter in Basin: 1-5%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

VP ID: 1260

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i> - long-stem golden-yarrow
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Heteromeles arbutifolia</i> - toyon
<i>Navarretia hamata</i> - hooked skunkweed
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Plantago elongata</i> - prairie plantain
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Quercus dumosa</i> - Nuttall's scrub oak
<i>Rhus integrifolia</i> - lemonade berry
<i>Salvia mellifera</i> - black sage
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass

**Notes:** *Psilocarphus brevissimus* from last year counted as litter.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

VP ID: 1264

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/12/2022

Survey Start Time: 12:27 PM

Survey End Time: 12:45 PM

Surveyors: Jason Allen

VPHCP Covered Species Present: 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:

### Other Native Species in Pool:

Species Name	Cover
<i>Crassula connata</i> - pygmy-weed	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	<1%
<i>Selaginella cinerascens</i> - ashy spike-moss	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 7

### Nonnative Species in Pool:

Species Name	Cover
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<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: 1-5%

Days Since Last Rain: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

VP ID: 1264

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Adenostoma fasciculatum</i> - chamise
<i>Baccharis pilularis</i> - coyote brush
<i>Bromus madritensis</i> - foxtail chess
<i>Crassula connata</i> - pygmy-weed
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Isocoma menziesii</i> - coastal goldenbush
<i>Navarretia hamata</i> - hooked skunkweed
<i>Pseudognaphalium californicum</i> - California everlasting
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Quercus dumosa</i> - Nuttall's scrub oak
<i>Rhus integrifolia</i> - lemonade berry
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Stipa lepida</i> - foothill needle grass

Notes:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

VP ID: 1272

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/12/2022

Survey Start Time: 01:25 PM

Survey End Time: 02:37 PM

Surveyors: Jason Allen, Stephanie Ayerdis

VPHCP Covered Species Present: 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:

### Other Native Species in Pool:

Species Name	Cover
<i>Crassula connata</i> - pygmy-weed	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Juncus dubius</i> - mariposa rush	5-10%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%
<i>Psilocarphus tenellus</i> - slender woolly-marbles	<1%
<i>Selaginella cinerascens</i> - ashy spike-moss	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 9

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 6

Bare Ground Cover in Basin: 10-25%

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

Cover of Litter in Basin: 1-5%

Days Since Last Rain: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

VP ID: 1272

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Avena barbata</i> - slender wild oat
<i>Bromus diandrus</i> - ripgut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Crassula connata</i> - pygmy-weed
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Juncus dubius</i> - mariposa rush
<i>Navarretia hamata</i> - hooked skunkweed
<i>Pseudognaphalium biolettii</i> - bicolor cudweed
<i>Pseudognaphalium californicum</i> - California everlasting
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Quercus dumosa</i> - Nuttall's scrub oak
<i>Rhus integrifolia</i> - lemonade berry
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass
<i>Yucca schidigera</i> - Mojave yucca
<i>Zeltnera venusta</i> - California centaury

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

VP ID: 1842

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/12/2022

Survey Start Time: 02:55 PM

Survey End Time: 04:25 PM

Surveyors: Jason Allen, Stephanie Ayerdis

VPHCP Covered Species Present: POAB, ERAR

Cover of ERAR in Basin: <1%

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
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Lasthenia coronaria</i> - royal goldfields	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	<1%
<i>Selaginella cinerascens</i> - ashy spike-moss	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 10

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Gastidium phleoides</i> - nit grass	1-5%

Cover of Nonnative Species in Basin: 1-5%

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%

Days Since Last Rain: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

VP ID: 1842

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Adenostoma fasciculatum</i> - chamise
<i>Avena barbata</i> - slender wild oat
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Cneoridium dumosum</i> - bushrue
<i>Cuscuta californica</i> - chaparral dodder
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i> - long-stem golden-yarrow
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Gastridium phleoides</i> - nit grass
<i>Lasthenia coronaria</i> - royal goldfields
<i>Malosma laurina</i> - laurel sumac
<i>Marah macrocarpa</i> - chilicothe
<i>Navarretia hamata</i> - hooked skunkweed
<i>Pogogyne abramsii</i> - San Diego mesa mint
<i>Salvia mellifera</i> - black sage
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stephanomeria</i> sp.
<i>Stipa lepida</i> - foothill needle grass
<i>Xylococcus bicolor</i> - mission manzanita

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

VP ID: 2468

### 2004 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/12/2022

Survey Start Time: 11:22 AM

Survey End Time: 11:38 AM

Surveyors: Jason Allen

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:

Species Name	Cover
<i>Adenostoma fasciculatum</i> - chamise	<1%
<i>Selaginella cinerascens</i> - ashy spike-moss	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 5

### Nonnative Species in Pool:

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 0

Bare Ground Cover in Basin: 25-50%

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

Cover of Litter in Basin: 1-5%

Days Since Last Rain: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Del Mar Mesa (H 1-10, 13-15, 18-23, 24-26)

VP ID: 2468

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Adenostoma fasciculatum</i> - chamise
<i>Cneoridium dumosum</i> - bushrue
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Quercus dumosa</i> - Nuttall's scrub oak
<i>Rhus integrifolia</i> - lemonade berry
<i>Selaginella cinerascens</i> - ashy spike-moss

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Goat Mesa (J16-18)

VP ID: 1141

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/19/2022

Survey Start Time: 11:03 AM

Survey End Time: 11:10 AM

Surveyors: J.R. Sundberg, Jade Woll

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:

Species Name	Cover
<i>Deinandra fasciculata</i> - fascicled tarweed	1-5%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 2

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	1-5%
<i>Erodium cicutarium</i> - redstem filaree	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 5

Bare Ground Cover in Basin: >75%

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

Cover of Litter in Basin: <1%

Days Since Last Rain: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Goat Mesa (J16-18)

VP ID: 1141

**2021 Quantitative Monitoring Data continued**

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

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Simmondsia chinensis</i> - jojoba

Notes:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Goat Mesa (J16-18)

VP ID: 1142

### 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: 0.0

### 2021 Quantitative Monitoring Data

Survey Date: 5/19/2022

Survey Start Time: 10:51 AM

Survey End Time: 10:59 AM

Surveyors: J.R. Sundberg, Jade Woll

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
<i>Deinandra fasciculata</i> - fascicled tarweed	1-5%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 4

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	1-5%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%

Cover of Nonnative Species in Basin: 10-25%

Nonnative Species Richness in Basin: 5

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: >16

Ponded Water Present: no

Dead Species Present in Pool:

**Annual VPHCP Covered Plant Monitoring**

Fiscal Year: 2022

Complex Name: Goat Mesa (J16-18)

VP ID: 1142

**2021 Quantitative Monitoring Data continued**

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

Species Name
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Salsola tragus</i> - Russian thistle
<i>Simmondsia chinensis</i> - jojoba

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Goat Mesa (J16-18)

VP ID: 1189

### 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: 0.0

### 2021 Quantitative Monitoring Data

Survey Date: 5/19/2022

Survey Start Time: 11:22 AM

Survey End Time: 11:45 AM

Surveyors: J.R. Sundberg, Jade Woll

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
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	50_75

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 9

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Logfia gallica</i> - daggerleaf cottonrose	<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%

Cover of Litter in Basin: <1%

Days Since Last Rain: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Goat Mesa (J16-18)

VP ID: 1189

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Navarretia hamata</i> - hooked skunkweed
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Simmondsia chinensis</i> - jojoba

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Goat Mesa (J16-18)

VP ID: 1775

### 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: 0.0

### 2021 Quantitative Monitoring Data

Survey Date: 5/19/2022

Survey Start Time: 11:48 AM

Survey End Time: 12:03 PM

Surveyors: J.R. Sundberg, Jade Woll

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
<i>Deinandra fasciculata</i> - fascicled tarweed	1-5%
<i>Juncus bufonius</i> - toad rush	<1%
<i>Plagiobothrys</i> sp.	1-5%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	50_75

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 7

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium cicutarium</i> - redstem filaree	1-5%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Salsola tragus</i> - Russian thistle	<1%
<i>Spergularia</i> sp.	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 7

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: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Goat Mesa (J16-18)

VP ID: 1775

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bromus madritensis</i> - foxtail chess
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Lamarckia aurea</i> - golden-top
<i>Lasthenia californica</i> - California goldfields
<i>Mirabilis laevis</i> var. <i>crassifolia</i> - wishbone bush
<i>Plagiobothrys</i> sp.
<i>Rhus integrifolia</i> - lemonade berry
<i>Simmondsia chinensis</i> - jojoba

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Goat Mesa (J16-18)

VP ID: 1920

### 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: 0.0

### 2021 Quantitative Monitoring Data

Survey Date: 5/19/2022

Survey Start Time: 12:05 PM

Survey End Time: 12:15 PM

Surveyors: J.R. Sundberg, Jade Woll

#### 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:

Species Name	Cover
<i>Deinandra fasciculata</i> - fascicled tarweed	1-5%
<i>Plagiobothrys</i> sp.	1-5%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	10-25%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 5

#### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium cicutarium</i> - redstem filaree	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lamarckia aurea</i> - golden-top	<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: 5-10%

Cover of Litter in Basin: <1%

Days Since Last Rain: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Goat Mesa (J16-18)

VP ID: 1920

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Plagiobothrys</i> sp.
<i>Simmondsia chinensis</i> - jojoba

Notes:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Goat Mesa (J16-18)

VP ID: 2642

<b>2005 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 5/19/2022

Survey Start Time: 10:30 AM

Survey End Time: 10:45 AM

Surveyors: J.R. Sundberg, Jade Woll

VPHCP Covered Species Present: 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:

**Other Native Species in Pool:**

Species Name	Cover
<i>Deinandra fasciculata</i> - fascicled tarweed	1-5%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Plagiobothrys</i> sp.	<1%
<i>Simmondsia chinensis</i> - jojoba	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 5

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

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: 10-25%

Cover of Litter in Basin: 1-5%

Days Since Last Rain: >16

Ponded Water Present: no

Dead Species Present in Pool:

**Annual VPHCP Covered Plant Monitoring**

Fiscal Year: 2022

Complex Name: Goat Mesa (J16-18)

VP ID: 2642

**2021 Quantitative Monitoring Data continued**

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

Species Name
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Greystone Torrey Highlands (H39)

VP ID: 1177

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/29/2022

Survey Start Time: 12:36 PM

Survey End Time: 01:18 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

VPHCP Covered Species Present: POAB, ERAR

Cover of ERAR in Basin: 1-5%

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
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Opuntia littoralis</i> - coast prickly-pear	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 12

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Dittrichia graveolens</i> - stinkwort	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	5-10%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 25-50%

Nonnative Species Richness in Basin: 11

Bare Ground Cover in Basin: 1-5%

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

Cover of Litter in Basin: 5-10%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Greystone Torrey Highlands (H39)

VP ID: 1177

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Artemisia californica</i> - California sagebrush
<i>Baccharis pilularis</i> - coyote brush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Dittrichia graveolens</i> - stinkwort
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i> - long-stem golden-yarrow
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Geranium californicum</i> - California geranium
<i>Heteromeles arbutifolia</i> - toyon
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Lactuca serriola</i> - prickly lettuce
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Pogogyne abramsii</i> - San Diego mesa mint
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Yucca schidigera</i> - Mojave yucca

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Lopez Ridge (B7-8)

VP ID: 706

### 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: 2.0

Baseline Cover of PONU: 0.0

### 2021 Quantitative Monitoring Data

Survey Date: 4/29/2022

Survey Start Time: 10:00 AM

Survey End Time: 11:40 AM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

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
<i>Allium haematochiton</i> - red-skin onion	<1%
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	5-10%
<i>Hordeum intercedens</i> - bobtail barley	1-5%
<i>Juncus bufonius</i> - toad rush	<1%
<i>Muilla maritima</i> - common muilla	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Opuntia littoralis</i> - coast prickly-pear	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%
<i>Selaginella cinerascens</i> - ashy spike-moss	<1%
<i>Zeltnera venusta</i> - California centaury	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 21

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Hypochaeris glabra</i> - smooth cat's-ear	<1%

Cover of Nonnative Species in Basin: <1%

Nonnative Species Richness in Basin: 9

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Lopez Ridge (B7-8)

VP ID: 706

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Adenostoma fasciculatum</i> - chamise
<i>Allium haematochiton</i> - red-skin onion
<i>Apiastrum angustifolium</i> - mock-parsley
<i>Avena barbata</i> - slender wild oat
<i>Bloomeria clevelandii</i> - San Diego goldenstar
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Clarkia purpurea</i> ssp. <i>quadrivulnera</i> - four-spot
<i>Crassula connata</i> - pygmy-weed
<i>Crocanthemum scoparium</i> - peak rush-rose
<i>Daucus pusillus</i> - rattlesnake weed
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Dipterostemon capitatus</i> - blue dicks
<i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i> - long-stem golden-yarrow
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Galium angustifolium</i> ssp. <i>angustifolium</i> - narrow leaved bedstraw
<i>Hedypnois rhagadioloides</i> - crete weed
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Malosma laurina</i> - laurel sumac
<i>Microseris douglasii</i> ssp. <i>platycarpha</i> - small-flowered microseris
<i>Muilla maritima</i> - common muilla
<i>Navarretia hamata</i> - hooked skunkweed
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Osmadenia tenella</i> - osmadenia
<i>Pentachaeta aurea</i> ssp. <i>aurea</i> - golden-rayed pentachaeta
<i>Pogogyne abramsii</i> - San Diego mesa mint
<i>Primula clevelandii</i> - padre's shooting star
<i>Pseudognaphalium californicum</i> - California everlasting
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Sonchus oleraceus</i> - common sow thistle

**Annual VPHCP Covered Plant Monitoring**

**Fiscal Year:** 2022

**Complex Name:** Lopez Ridge (B7-8)

**VP ID:** 706

<i>Stipa pulchra</i> - purple needle grass
<i>Zeltnera venusta</i> - California centaury

**Notes:** Psilocarphus brevisimus from last year counted as litter.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Lopez Ridge (B7-8)

VP ID: 712

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/29/2022

Survey Start Time: 08:54 AM

Survey End Time: 09:48 AM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

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
<i>Crassula aquatica</i> - water pygmyweed	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	1-5%
<i>Juncus bufonius</i> - toad rush	<1%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Osmadenia tenella</i> - osmadenia	<1%
<i>Pentachaeta aurea</i> ssp. <i>aurea</i> - golden-rayed pentachaeta	<1%
<i>Phalaris lemmonii</i> - Lemmon's canary grass	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%
<i>Selaginella cinerascens</i> - ashy spike-moss	<1%
<i>Sisyrinchium bellum</i> - western blue-eyed-grass	<1%
<i>Zeltnera venusta</i> - California centaury	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 18

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Hypochaeris glabra</i> - smooth cat's-ear	<1%

Cover of Nonnative Species in Basin: <1%

Nonnative Species Richness in Basin: 10

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Lopez Ridge (B7-8)

VP ID: 712

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Adenostoma fasciculatum</i> - chamise
<i>Avena barbata</i> - slender wild oat
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Ceanothus tomentosus</i> - Ramona-lilac
<i>Centaurea melitensis</i> - tocalote
<i>Clarkia purpurea</i> ssp. <i>quadrivulnera</i> - four-spot
<i>Crocanthemum scoparium</i> - peak rush-rose
<i>Daucus pusillus</i> - rattlesnake weed
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i> - long-stem golden-yarrow
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Galium aparine</i> - goose grass
<i>Hedypnois rhagadioloides</i> - crete weed
<i>Hooveria parviflora</i>
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Malosma laurina</i> - laurel sumac
<i>Navarretia hamata</i> - hooked skunkweed
<i>Osmadenia tenella</i> - osmadenia
<i>Pentachaeta aurea</i> ssp. <i>aurea</i> - golden-rayed pentachaeta
<i>Pseudognaphalium californicum</i> - California everlasting
<i>Sisymbrium irio</i> - London rocket
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass
<i>Zeltnera venusta</i> - California centaury

**Notes:** *Psilocarphus brevisimus* from last year counted as litter.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 4256

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/21/2022

Survey Start Time: 08:59 AM

Survey End Time: 10:09 AM

Surveyors: JR Sundberg, Kayo Valenti, Jade Woll

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: 1-5%

Cover of PONU in Basin:

### Other Native Species in Pool:

Species Name	Cover
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea	<1%
<i>Clarkia purpurea</i> ssp. <i>quadrivulnera</i> - four-spot	<1%
<i>Crassula aquatica</i> - water pygmyweed	10-25%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	5-10%
<i>Holocarpha virgata</i> ssp. <i>elongata</i> - graceful tarplant	<1%
<i>Juncus bufonius</i> - toad rush	<1%
<i>Plagiobothrys acanthocarpus</i> - adobe popcornflower	<1%
<i>Pogogyne abramsii</i> - San Diego mesa mint	5-10%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%
<i>Psilocarphus tenellus</i> - slender woolly-marbles	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 18

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	1-5%
<i>Erodium botrys</i> - long-beak filaree/storksbill	5-10%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Hypochaeris glabra</i> - smooth cat's-ear	1-5%
<i>Lythrum hyssopifolia</i> - grass poly	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	1-5%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 11

Bare Ground Cover in Basin: >75%

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:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 4256

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Adenostoma fasciculatum</i> - chamise
<i>Artemisia californica</i> - California sagebrush
<i>Avena</i> sp.
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Clarkia purpurea</i> ssp. <i>quadrivulnera</i> - four-spot
<i>Croton setiger</i> - doveweed
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Dittrichia graveolens</i> - stinkwort
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Holocarpha virgata</i> ssp. <i>elongata</i> - graceful tarplant
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Stipa pulchra</i> - purple needle grass

**Notes:** Gopher mounds throughout.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 4596

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/21/2022

Survey Start Time: 11:07 AM

Survey End Time: 11:20 AM

Surveyors: J. R. Sundberg

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: 1-5%

Cover of PONU in Basin:

### Other Native Species in Pool:

Species Name	Cover
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Holocarpha virgata</i> ssp. <i>elongata</i> - graceful tarplant	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 6

### Nonnative Species in Pool:

Species Name	Cover
<i>Avena</i> sp.	<1%
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Hypochaeris glabra</i> - smooth cat's-ear	1-5%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 6

Bare Ground Cover in Basin: 50-75%

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:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 4596

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Artemisia californica</i> - California sagebrush
<i>Avena</i> sp.
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bloomeria</i> sp.
<i>Bromus madritensis</i> - foxtail chess
<i>Dipterostemon capitatus</i> - blue dicks
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Holocarpha virgata</i> ssp. <i>elongata</i> - graceful tarplant
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Malosma laurina</i> - laurel sumac
<i>Polypogon monspeliensis</i> - rabbitfoot grass

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 5352

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/21/2022

Survey Start Time: 11:06 AM

Survey End Time: 11:42 AM

Surveyors: Kayo Valenti, Jade Woll

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
<i>Crassula aquatica</i> - water pygmyweed	<1%
<i>Croton setiger</i> - doveweed	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 11

### Nonnative Species in Pool:

Species Name	Cover
<i>Avena</i> sp.	<1%
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	1-5%
<i>Hypochaeris glabra</i> - smooth cat's-ear	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 8

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: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 5352

### 2021 Quantitative Monitoring Data continued

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

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Adenostoma fasciculatum</i> - chamise
<i>Artemisia californica</i> - California sagebrush
<i>Avena</i> sp.
<i>Baccharis sarothroides</i> - broom baccharis
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea
<i>Bromus diandrus</i> - ripgut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Holocarpha virgata</i> ssp. <i>elongata</i> - graceful tarplant
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Selaginella cinerascens</i> - ashy spike-moss

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 5355

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/21/2022

Survey Start Time: 11:26 AM

Survey End Time: 11:44 AM

Surveyors: J. R. Sundberg

#### **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:**

Species Name	Cover
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea	<1%
<i>Crassula aquatica</i> - water pygmyweed	5-10%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Plagiobothrys acanthocarpus</i> - adobe popcornflower	1-5%
<i>Plantago elongata</i> - prairie plantain	1-5%
<i>Plantago erecta</i> - dot-seed plantain	1-5%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 9

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

Species Name	Cover
<i>Erodium botrys</i> - long-beak filaree/storksbill	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 3

Bare Ground Cover in Basin: >75%

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:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 5355

### 2021 Quantitative Monitoring Data continued

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

Species Name
<i>Acacia</i> sp.
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Artemisia californica</i> - California sagebrush
<i>Baccharis sarothroides</i> - broom baccharis
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea
<i>Bromus madritensis</i> - foxtail chess
<i>Croton setiger</i> - doveweed
<i>Dittrichia graveolens</i> - stinkwort
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Galium angustifolium</i> ssp. <i>angustifolium</i> - narrow leaved bedstraw
<i>Malosma laurina</i> - laurel sumac
<i>Selaginella cinerascens</i> - ashy spike-moss

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 5356

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/21/2022

Survey Start Time: 02:39 PM

Survey End Time: 02:51 PM

Surveyors: J. R. Sundberg

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: <1%

Cover of PONU in Basin:

### Other Native Species in Pool:

Species Name	Cover
<i>Acmispon americanus</i> var. <i>americanus</i> - Spanish lotus	<1%
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea	<1%
<i>Crassula aquatica</i> - water pygmyweed	1-5%
<i>Croton setiger</i> - doveweed	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Plagiobothrys acanthocarpus</i> - adobe popcornflower	<1%
<i>Psilocarpus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 7

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Dittrichia graveolens</i> - stinkwort	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	10-25%
<i>Hypochaeris glabra</i> - smooth cat's-ear	5-10%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 6

Bare Ground Cover in Basin: >75%

Cover of Rocks/Cobble in Basin: <1%

Cover of Litter in Basin: <1%

Days Since Last Rain: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 5356

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Avena</i> sp.
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bromus diandrus</i> - ripgut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Croton setiger</i> - doveweed
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Hirschfeldia incana</i> - short-pod mustard
<i>Holocarpha virgata</i> ssp. <i>elongata</i> - graceful tarplant
<i>Pogogyne abramsii</i> - San Diego mesa mint
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rumex crispus</i> - curly dock
<i>Uropappus lindleyi</i> - silver puffs

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 5358

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/21/2022

Survey Start Time: 02:52 PM

Survey End Time: 03:09 PM

Surveyors: J. R. Sundberg

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: 10-25%

Cover of PONU in Basin:

### Other Native Species in Pool:

Species Name	Cover
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea	<1%
<i>Castilleja exserta</i> ssp. <i>exserta</i> - purple owl's clover	<1%
<i>Crassula aquatica</i> - water pygmyweed	1-5%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Downingia cuspidata</i> - toothed downingia	1-5%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Phalaris lemmonii</i> - Lemmon's canary grass	<1%
<i>Pilularia americana</i> - American pillwort	5-10%
<i>Pogogyne abramsii</i> - San Diego mesa mint	10-25%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 10

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Dittrichia graveolens</i> - stinkwort	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	1-5%
<i>Hypochaeris glabra</i> - smooth cat's-ear	1-5%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 8

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: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 5358

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Avena</i> sp.
<i>Baccharis sarothroides</i> - broom baccharis
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea
<i>Bromus diandrus</i> - ripgut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Castilleja exserta</i> ssp. <i>exserta</i> - purple owl's clover
<i>Centaurea melitensis</i> - tocalote
<i>Cyperus eragrostis</i> - tall flatsedge
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Hirschfeldia incana</i> - short-pod mustard
<i>Holocarpha virgata</i> ssp. <i>elongata</i> - graceful tarplant
<i>Hordeum</i> sp.
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Pogogyne abramsii</i> - San Diego mesa mint
<i>Pseudognaphalium biolettii</i> - bicolor cudweed
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 5363

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/21/2022

Survey Start Time: 03:21 PM

Survey End Time: 03:46 PM

Surveyors: J. R. Sundberg

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: 1-5%

Cover of PONU in Basin:

### Other Native Species in Pool:

Species Name	Cover
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Holocarpha virgata</i> ssp. <i>elongata</i> - graceful tarplant	<1%
<i>Plagiobothrys acanthocarpus</i> - adobe popcornflower	<1%
<i>Plantago elongata</i> - prairie plantain	5-10%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 12

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	5-10%
<i>Lythrum hyssopifolia</i> - grass poly	1-5%

Cover of Nonnative Species in Basin: 10-25%

Nonnative Species Richness in Basin: 8

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: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 5363

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Baccharis sarothroides</i> - broom baccharis
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Croton setiger</i> - doveweed
<i>Daucus pusillus</i> - rattlesnake weed
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Hirschfeldia incana</i> - short-pod mustard
<i>Holocarpha virgata</i> ssp. <i>elongata</i> - graceful tarplant
<i>Plagiobothrys acanthocarpus</i> - adobe popcornflower
<i>Pogogyne abramsii</i> - San Diego mesa mint
<i>Pseudognaphalium californicum</i> - California everlasting

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 5369

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/21/2022

Survey Start Time: 02:29 PM

Survey End Time: 02:55 PM

Surveyors: Kayo Valenti, Jade Woll

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
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea	<1%
<i>Crassula aquatica</i> - water pygmyweed	5-10%
<i>Croton setiger</i> - doveweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Holocarpha virgata</i> ssp. <i>elongata</i> - graceful tarplant	<1%
<i>Microseris douglasii</i> ssp. <i>platycarpha</i> - small-flowered microseris	<1%
<i>Phalaris lemmonii</i> - Lemmon's canary grass	<1%
<i>Plagiobothrys acanthocarpus</i> - adobe popcornflower	<1%
<i>Pogogyne abramsii</i> - San Diego mesa mint	10-25%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%
<i>Psilocarphus tenellus</i> - slender woolly-marbles	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 12

### Nonnative Species in Pool:

Species Name	Cover
<i>Avena</i> sp.	<1%
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Hypochaeris glabra</i> - smooth cat's-ear	1-5%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%
<i>Spergularia bocconi</i> - Boccone's sand-spurrey	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 13

Bare Ground Cover in Basin: 25-50%

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

Cover of Litter in Basin: <1%

Days Since Last Rain: 0

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 5369

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Avena</i> sp.
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bloomeria clevelandii</i> - San Diego goldenstar
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea
<i>Bromus diandrus</i> - ripgut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Dittrichia graveolens</i> - stinkwort
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Gazania linearis</i> - treasure flower
<i>Hirschfeldia incana</i> - short-pod mustard
<i>Holocarpha virgata</i> ssp. <i>elongata</i> - graceful tarplant
<i>Pseudognaphalium biolettii</i> - bicolor cudweed
<i>Rumex crispus</i> - curly dock
<i>Stebbinsoseris heterocarpa</i> - grassland silverpuffs

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

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

### 2021 Quantitative Monitoring Data

Survey Date: 4/21/2022

Survey Start Time: 01:38 PM

Survey End Time: 02:24 PM

Surveyors: J. R. Sundberg, Kayo Valenti, Jade Woll

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
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea	<1%
<i>Castilleja exserta</i> ssp. <i>exserta</i> - purple owl's clover	<1%
<i>Cyperus eragrostis</i> - tall flatsedge	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Plagiobothrys acanthocarpus</i> - adobe popcornflower	<1%
<i>Plantago elongata</i> - prairie plantain	1-5%
<i>Plantago erecta</i> - dot-seed plantain	<1%
<i>Psilocarpus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 15

### Nonnative Species in Pool:

Species Name	Cover
<i>Avena</i> sp.	<1%
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Gazania linearis</i> - treasure flower	<1%
<i>Lythrum hyssopifolia</i> - grass poly	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%

Cover of Nonnative Species in Basin: 25-50%

Nonnative Species Richness in Basin: 14

Bare Ground Cover in Basin: 10-25%

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:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 5371

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Avena</i> sp.
<i>Baccharis sarothroides</i> - broom baccharis
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea
<i>Bromus diandrus</i> - ripgut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Gazania linearis</i> - treasure flower
<i>Holocarpa virgata</i> ssp. <i>elongata</i> - graceful tarplant
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Malosma laurina</i> - laurel sumac
<i>Marah macrocarpa</i> - chilicothe

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 5388

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/21/2022

Survey Start Time: 10:28 AM

Survey End Time: 10:46 AM

Surveyors: J. R. Sundberg

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: 1-5%

Cover of PONU in Basin:

### Other Native Species in Pool:

Species Name	Cover
<i>Bloomeria clevelandii</i> - San Diego goldenstar	<1%
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea	1-5%
<i>Crassula aquatica</i> - water pygmyweed	1-5%
<i>Crassula connata</i> - pygmy-weed	1-5%
<i>Deschampsia danthonioides</i> - annual hair grass	5-10%
<i>Holocarpha virgata</i> ssp. <i>elongata</i> - graceful tarplant	<1%
<i>Hooveria parviflora</i>	<1%
<i>Pilularia americana</i> - American pillwort	<1%
<i>Plagiobothrys acanthocarpus</i> - adobe popcornflower	<1%
<i>Pogogyne abramsii</i> - San Diego mesa mint	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%
<i>Selaginella cinerascens</i> - ashy spike-moss	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 9

### Nonnative Species in Pool:

Species Name	Cover
<i>Avena barbata</i> - slender wild oat	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Dittrichia graveolens</i> - stinkwort	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Festuca perennis</i> - rye grass	<1%
<i>Hypochaeris glabra</i> - smooth cat's-ear	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 7

Bare Ground Cover in Basin: >75%

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:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 5388

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Artemisia californica</i> - California sagebrush
<i>Avena barbata</i> - slender wild oat
<i>Bloomeria clevelandii</i> - San Diego goldenstar
<i>Bromus diandrus</i> - ripgut grass
<i>Bromus madritensis</i> - foxtail chess
<i>Crassula connata</i> - pygmy-weed
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Dittrichia graveolens</i> - stinkwort
<i>Downingia cuspidata</i> - toothed downingia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Gastridium phleoides</i> - nit grass
<i>Holocarpha virgata</i> ssp. <i>elongata</i> - graceful tarplant
<i>Hooveria parviflora</i>
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Malosma laurina</i> - laurel sumac
<i>Pilularia americana</i> - American pillwort
<i>Plagiobothrys acanthocarpus</i> - adobe popcornflower
<i>Pogogyne abramsii</i> - San Diego mesa mint
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Selaginella cinerascens</i> - ashy spike-moss

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 5423

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/21/2022

Survey Start Time: 10:30 AM

Survey End Time: 10:51 AM

Surveyors: Kayo Valenti, Jade Woll

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: 1-5%

Cover of PONU in Basin:

### Other Native Species in Pool:

Species Name	Cover
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea	<1%
<i>Crassula aquatica</i> - water pygmyweed	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Downingia cuspidata</i> - toothed downingia	1-5%
<i>Navarretia hamata</i> - hooked skunkweed	<1%
<i>Osmadenia tenella</i> - osmadenia	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%
<i>Stebbinsoseris heterocarpa</i> - grassland silverpuffs	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 14

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Hypochaeris glabra</i> - smooth cat's-ear	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 7

Bare Ground Cover in Basin: >75%

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:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 5423

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Adenostoma fasciculatum</i> - chamise
<i>Artemisia californica</i> - California sagebrush
<i>Bloomeria</i> sp.
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Erodium</i> sp.
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Hooveria parviflora</i>
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Selaginella cinerascens</i> - ashy spike-moss

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 6351

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
--

Survey Date: 4/21/2022

Survey Start Time: 11:55 AM

Survey End Time: 12:19 PM

Surveyors: J. R. Sundberg, Kayo Valenti, Jade Woll

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: <1%

Cover of PONU in Basin:

**Other Native Species in Pool:**

Species Name	Cover
<i>Deschampsia danthonioides</i> - annual hair grass	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 6

**Nonnative Species in Pool:**

Species Name	Cover
<i>Avena</i> sp.	<1%
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Gastridium phleoides</i> - nit grass	1-5%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 5

Bare Ground Cover in Basin: >75%

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

Cover of Litter in Basin: <1%

Days Since Last Rain: >16

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 6351

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Avena</i> sp.
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bromus diandrus</i> - riggut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Croton setiger</i> - doveweed
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Malosma laurina</i> - laurel sumac
<i>Quercus berberidifolia</i> - scrub oak

**Notes:** Soil crust included in bare ground cover.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 6384

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/21/2022

Survey Start Time: 03:03 PM

Survey End Time: 03:45 PM

Surveyors: Kayo Valenti, Jade Woll

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: 25-50%

Cover of PONU in Basin:

### Other Native Species in Pool:

Species Name	Cover
<i>Brodiaea Orcuttii</i> - Orcutt's brodiaea	<1%
<i>Croton setiger</i> - doveweed	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Downingia cuspidata</i> - toothed downingia	1-5%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Lysimachia minima</i> - chaffweed	<1%
<i>Phalaris lemmonii</i> - Lemmon's canary grass	<1%
<i>Plagiobothrys acanthocarpus</i> - adobe popcornflower	25-50%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%
<i>Zeltnera venusta</i> - California centaury	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 16

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	1-5%
<i>Lythrum hyssopifolia</i> - grass poly	<1%
<i>Polypogon interruptus</i> - ditch beard grass	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 4

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: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Montgomery Field (N5-6)

VP ID: 6384

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Avena</i> sp.
<i>Bloomeria</i> sp.
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Hirschfeldia incana</i> - short-pod mustard
<i>Holocarpha virgata</i> ssp. <i>elongata</i> - graceful tarplant
<i>Pseudognaphalium biolettii</i> - bicolor cudweed
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa pulchra</i> - purple needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Nobel Drive (X5)

VP ID: 666

<b>2003 Baseline Survey Data</b>		
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: 0.0	

<b>2021 Quantitative Monitoring Data</b>		
Survey Date: 4/22/2022	Survey Start Time: 08:06 AM	Survey End Time: 08:47 AM
Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado		
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:**

Species Name	Cover
<i>Crassula aquatica</i> - water pygmyweed	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	1-5%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Juncus bufonius</i> - toad rush	<1%
<i>Plagiobothrys</i> sp.	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 8

**Nonnative Species in Pool:**

Species Name	Cover
<i>Cotula coronopifolia</i> - brass-buttons	<1%
<i>Dittrichia graveolens</i> - stinkwort	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Hypochaeris glabra</i> - smooth cat's-ear	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%
<i>Spergularia villosa</i> - hairy sand-spurrey	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 6

Bare Ground Cover in Basin: 10-25%

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

Cover of Litter in Basin: 50-75%

Days Since Last Rain: 0

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Nobel Drive (X5)

VP ID: 666

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Baccharis pilularis</i> - coyote brush
<i>Bromus diandrus</i> - ripgut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Crassula connata</i> - pygmy-weed
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Dittrichia graveolens</i> - stinkwort
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Lactuca serriola</i> - prickly lettuce
<i>Malosma laurina</i> - laurel sumac
<i>Navarretia hamata</i> - hooked skunkweed
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Silene gallica</i> - windmill pink
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stephanomeria diegensis</i> - San Diego wreath-plant
<i>Stephanomeria exigua</i> - small wreath-plant

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Otay Lakes (K5)

VP ID: 208

<b>2003 Baseline Survey Data</b>		
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	

<b>2021 Quantitative Monitoring Data</b>		
Survey Date: 5/23/2022	Survey Start Time: 10:16 AM	Survey End Time: 10:46 AM
Surveyors: Andrew Smisek, J. R. Sundberg		
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:**

Species Name	Cover
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 10

**Nonnative Species in Pool:**

Species Name	Cover
<i>Avena fatua</i> - wild oat	<1%
<i>Bromus hordeaceus</i> - soft chess	5-10%
<i>Bromus madritensis</i> - foxtail chess	1-5%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Erodium cicutarium</i> - redstem filaree	1-5%
<i>Festuca perennis</i> - rye grass	<1%

Cover of Nonnative Species in Basin: 10-25%

Nonnative Species Richness in Basin: 9

Bare 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: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Otay Lakes (K5)

VP ID: 208

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Avena fatua</i> - wild oat
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Isocoma menziesii</i> - coastal goldenbush
<i>Sisyrinchium bellum</i> - western blue-eyed-grass

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Otay Lakes (K5)

VP ID: 656

<b>2003 Baseline Survey Data</b>
----------------------------------

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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 5/23/2022

Survey Start Time: 01:21 PM

Survey End Time: 01:44 PM

Surveyors: Andrew Smisek, J. R. Sundberg

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
<i>Deinandra fasciculata</i> - fascicled tarweed	1-5%
<i>Isocoma menziesii</i> - coastal goldenbush	1-5%
<i>Lysimachia minima</i> - chaffweed	<1%
<i>Sisyrinchium bellum</i> - western blue-eyed-grass	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 10

**Nonnative Species in Pool:**

Species Name	Cover
<i>Avena fatua</i> - wild oat	<1%
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium cicutarium</i> - redstem filaree	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 6

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

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Otay Lakes (K5)

VP ID: 656

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Sisyrinchium bellum</i> - western blue-eyed-grass

**Notes:** Soil crust included in bare ground cover.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Otay Lakes (K5)

VP ID: 891

<b>2003 Baseline Survey Data</b>
----------------------------------

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

<b>2021 Quantitative Monitoring Data</b>
--

Survey Date: 5/23/2022

Survey Start Time: 12:18 PM

Survey End Time: 12:44 PM

Surveyors: Andrew Smisek, J. R. Sundberg

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
<i>Cryptantha</i> sp.	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	1-5%
<i>Plantago erecta</i> - dot-seed plantain	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	<1%
<i>Selaginella cinerascens</i> - ashy spike-moss	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 11

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium cicutarium</i> - redstem filaree	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Lamarckia aurea</i> - golden-top	<1%
<i>Phalaris minor</i> - little-seeded canary grass	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 8

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: >16

Ponded Water Present: no

Dead Species Present in Pool:

# Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Otay Lakes (K5)

VP ID: 891

**2021 Quantitative Monitoring Data continued**

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

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Croton setiger</i> - doveweed
<i>Cryptantha</i> sp.
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Lactuca serriola</i> - prickly lettuce
<i>Lepidium nitidum</i> - shining peppergrass
<i>Rhus integrifolia</i> - lemonade berry
<i>Selaginella cinerascens</i> - ashy spike-moss

**Notes:** Soil crust included in bare ground cover.

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Otay Lakes (K5)

VP ID: 892

<b>2003 Baseline Survey Data</b>
----------------------------------

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

<b>2021 Quantitative Monitoring Data</b>
--

Survey Date: 5/23/2022

Survey Start Time: 12:45 PM

Survey End Time: 01:12 PM

Surveyors: Andrew Smisek, J. R. Sundberg

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:**

Species Name	Cover
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Deschampsia danthonioides</i> - annual hair grass	1-5%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Lasthenia californica</i> - California goldfields	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	25-50%
<i>Trichostema lanatum</i> - woolly blue curls	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 8

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Erodium cicutarium</i> - redstem filaree	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Phalaris minor</i> - little-seeded canary grass	<1%
<i>Spergularia bocconi</i> - Boccone's sand-spurrey	<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: 5-10%

Cover of Litter in Basin: 5-10%

Days Since Last Rain: >16

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Otay Lakes (K5)

VP ID: 892

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Artemisia californica</i> - California sagebrush
<i>Avena fatua</i> - wild oat
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Isocoma menziesii</i> - coastal goldenbush
<i>Selaginella cinerascens</i> - ashy spike-moss

**Notes:** total covers for all categories except covered species were missing from original form, data filled in 8/24/2023 based on other data recorded and 2021 record for pool

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Otay Lakes (K5)

VP ID: 1801

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/23/2022

Survey Start Time: 11:21 AM

Survey End Time: 11:40 AM

Surveyors: Andrew Smisek, J. R. Sundberg

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
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Marsilea vestita</i> - hairy waterclove	<1%
<i>Phalaris lemmonii</i> - Lemmon's canary grass	<1%
<i>Sisyrinchium bellum</i> - western blue-eyed-grass	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 6

### Nonnative Species in Pool:

Species Name	Cover
<i>Avena fatua</i> - wild oat	<1%
<i>Bromus hordeaceus</i> - soft chess	5-10%
<i>Bromus madritensis</i> - foxtail chess	5-10%
<i>Erodium cicutarium</i> - redstem filaree	5-10%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Hypochaeris glabra</i> - smooth cat's-ear	<1%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 10-25%

Nonnative Species Richness in Basin: 7

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: >16

Ponded Water Present: no

Dead Species Present in Pool:

# Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Otay Lakes (K5)

VP ID: 1801

**2021 Quantitative Monitoring Data continued**

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

Species Name
<i>Adenostoma fasciculatum</i> - chamise
<i>Avena fatua</i> - wild oat
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Croton setiger</i> - doveweed
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Peritoma arborea</i> - bladderpod
<i>Sisyrinchium bellum</i> - western blue-eyed-grass

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1577

<b>2003 Baseline Survey Data</b>		
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	

<b>2021 Quantitative Monitoring Data</b>		
Survey Date: 5/13/2022	Survey Start Time: 10:45 AM	Survey End Time: 11:13 AM
Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado, Dan Monroe		
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:**

Species Name	Cover
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 3

**Nonnative Species in Pool:**

Species Name	Cover
<i>Brassica nigra</i> - black mustard	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Glebionis coronaria</i> - crown daisy	1-5%
<i>Helminthotheca echioides</i> - bristly ox-tongue	25-50%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 50-75%

Nonnative Species Richness in Basin: 13

Bare Ground Cover in Basin: 10-25%

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

Cover of Litter in Basin: 1-5%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1577

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Avena fatua</i> - wild oat
<i>Brassica nigra</i> - black mustard
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Euphorbia misera</i> - cliff spurge
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Glebionis coronaria</i> - crown daisy
<i>Helminthotheca echioides</i> - bristly ox-tongue
<i>Isocoma menziesii</i> - coastal goldenbush
<i>Matricaria discoidea</i> - pineapple weed
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rhus integrifolia</i> - lemonade berry
<i>Simmondsia chinensis</i> - jojoba
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1580

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/13/2022

Survey Start Time: 09:46 AM

Survey End Time: 10:41 AM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado, Dan Monroe

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:

Species Name	Cover
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Juncus bufonius</i> - toad rush	<1%
<i>Matricaria discoidea</i> - pineapple weed	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 3

### Nonnative Species in Pool:

Species Name	Cover
<i>Brassica nigra</i> - black mustard	<1%
<i>Bromus madritensis</i> - foxtail chess	1-5%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Gastridium phleoides</i> - nit grass	1-5%
<i>Glebionis coronaria</i> - crown daisy	<1%
<i>Helminthotheca echioides</i> - bristly ox-tongue	1-5%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Lamarckia aurea</i> - golden-top	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	5-10%
<i>Sonchus oleraceus</i> - common sow thistle	<1%

Cover of Nonnative Species in Basin: 50-75%

Nonnative Species Richness in Basin: 21

Bare Ground Cover in Basin: 1-5%

Cover of Rocks/Cobble in Basin: <1%

Cover of Litter in Basin: 10-25%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1580

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia misera</i> - cliff spurge
<i>Euphorbia peplus</i> - petty spurge
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Glebionis coronaria</i> - crown daisy
<i>Helminthotheca echioides</i> - bristly ox-tongue
<i>Isocoma menziesii</i> - coastal goldenbush
<i>Lactuca serriola</i> - prickly lettuce
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Rhus integrifolia</i> - lemonade berry
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1595

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
--

Survey Date: 4/28/2022

Survey Start Time: 09:38 AM

Survey End Time: 09:50 AM

Surveyors: James Davis, Anahi Mendez Lozano

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
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 1

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Lysimachia arvensis</i> - scarlet pimpernel	1-5%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 6

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1595

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia serpens</i> - matted sandmat
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1596

<b>2003 Baseline Survey Data</b>
----------------------------------

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

<b>2021 Quantitative Monitoring Data</b>
--

Survey Date: 4/28/2022

Survey Start Time: 10:16 AM

Survey End Time: 10:26 AM

Surveyors: James Davis, Anahi Mendez Lozano

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
<i>Cylindropuntia prolifera</i> - coast cholla	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%
<i>Sisyrinchium bellum</i> - western blue-eyed-grass	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 1

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lysimachia arvensis</i> - 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: 10-25%

Cover of Litter in Basin: 1-5%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1596

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Simmondsia chinensis</i> - jojoba
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1598

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 4/28/2022

Survey Start Time: 11:11 AM

Survey End Time: 11:25 AM

Surveyors: James Davis, Anahi Mendez Lozano

VPHCP Covered Species Present: 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:

**Other Native Species in Pool:**

Species Name	Cover
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%
<i>Sisyrinchium bellum</i> - western blue-eyed-grass	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 4

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Helminthotheca echioides</i> - bristly ox-tongue	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Phalaris paradoxa</i> - hood canary grass	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 9

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1598

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Artemisia californica</i> - California sagebrush
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Helminthotheca echioides</i> - bristly ox-tongue
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Mirabilis laevis</i> var. <i>crassifolia</i> - wishbone bush
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Simmondsia chinensis</i> - jojoba
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1599

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 4/28/2022

Survey Start Time: 11:57 AM

Survey End Time: 12:09 PM

Surveyors: James Davis, Anahi Mendez Lozano

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
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 3

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 6

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1599

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Artemisia californica</i> - California sagebrush
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Helminthotheca echioides</i> - bristly ox-tongue
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Mirabilis laevis</i> var. <i>crassifolia</i> - wishbone bush
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rhus integrifolia</i> - lemonade berry
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Zeltnera venusta</i> - California centaury

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1600

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/28/2022

Survey Start Time: 01:16 PM

Survey End Time: 01:24 PM

Surveyors: Stephanie Ayerdis, James Davis

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
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 1

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Festuca perennis</i> - rye grass	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 7

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1600

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lamarckia aurea</i> - golden-top
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Pseudognaphalium biolettii</i> - bicolor cudweed
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rhus integrifolia</i> - lemonade berry
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1601

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 4/28/2022

Survey Start Time: 01:53 PM

Survey End Time: 01:59 PM

Surveyors: Stephanie Ayerdis, James Davis

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
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	<1%
<i>Selaginella cinerascens</i> - ashy spike-moss	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 1

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lysimachia arvensis</i> - 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: 5-10%

Cover of Litter in Basin: 1-5%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1601

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia serpens</i> - matted sandmat
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rhus integrifolia</i> - lemonade berry
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1602

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 4/28/2022

Survey Start Time: 02:39 PM

Survey End Time: 02:46 PM

Surveyors: Sara Allen, Anahi Mendez Lozano

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
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 2

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Festuca perennis</i> - rye grass	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%

Cover of Nonnative Species in Basin: 1-5%

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%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1602

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus diandrus</i> - riggut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia serpens</i> - matted sandmat
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Pseudognaphalium biolettii</i> - bicolor cudweed
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rhus integrifolia</i> - lemonade berry
<i>Simmondsia chinensis</i> - jojoba
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1603

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 4/28/2022

Survey Start Time: 02:11 PM

Survey End Time: 02:18 PM

Surveyors: Sara Allen, Anahi Mendez Lozano

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:

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 1

Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	1-5%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%
<i>Sonchus oleraceus</i> - common sow thistle	<1%

Cover of Nonnative Species in Basin: 10-25%

Nonnative Species Richness in Basin: 7

Bare Ground Cover in Basin: 5-10%

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

Cover of Litter in Basin: 1-5%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1603

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bromus diandrus</i> - ripgut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Helminthotheca echioides</i> - bristly ox-tongue
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Rhus integrifolia</i> - lemonade berry
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1604

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/28/2022

Survey Start Time: 10:12 AM

Survey End Time: 10:28 AM

Surveyors: Sara Allen, Stephanie Ayerdis

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
<i>Baccharis sarothroides</i> - broom baccharis	<1%
<i>Cylindropuntia prolifera</i> - coast cholla	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%
<i>Stipa lepida</i> - foothill needle grass	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 5

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Festuca perennis</i> - rye grass	<1%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	1-5%

Cover of Nonnative Species in Basin: 10-25%

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: 1-5%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1604

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Atriplex pacifica</i> - south coast saltscale
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Isocoma menziesii</i> - coastal goldenbush
<i>Lactuca serriola</i> - prickly lettuce
<i>Lamarckia aurea</i> - golden-top
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Rhus integrifolia</i> - lemonade berry
<i>Salsola tragus</i> - Russian thistle
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1606

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 4/28/2022

Survey Start Time: 11:11 AM

Survey End Time: 11:20 AM

Surveyors: Sara Allen, Stephanie Ayerdis

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
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 1

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 9

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1606

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Isocoma menziesii</i> - coastal goldenbush
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Pseudognaphalium biolettii</i> - bicolor cudweed
<i>Rhus integrifolia</i> - lemonade berry
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass
<i>Zeltnera venusta</i> - California centaury

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1607

### 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: 1.0

### 2021 Quantitative Monitoring Data

Survey Date: 4/28/2022

Survey Start Time: 11:10 AM

Survey End Time: 12:01 PM

Surveyors: Sara Allen, Stephanie Ayerdis

VPHCP Covered Species Present: PONU, 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: <1%

### Other Native Species in Pool:

Species Name	Cover
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	<1%
<i>Sisyrinchium bellum</i> - western blue-eyed-grass	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 3

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 6

Bare Ground Cover in Basin: 10-25%

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

Cover of Litter in Basin: 5-10%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1607

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1608

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 4/28/2022

Survey Start Time: 11:52 AM

Survey End Time: 01:15 PM

Surveyors: Sara Allen, Anahi Mendez Lozano

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
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 2

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 6

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1608

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rhus integrifolia</i> - lemonade berry
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1609

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 4/28/2022

Survey Start Time: 01:36 PM

Survey End Time: 01:44 PM

Surveyors: Sara Allen, Anahi Mendez Lozano

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
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 1

**Nonnative Species in Pool:**

Species Name	Cover
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 8

Bare Ground Cover in Basin: 25-50%

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

Cover of Litter in Basin: 1-5%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1609

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Acacia</i> sp.
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Mirabilis laevis</i> var. <i>crassifolia</i> - wishbone bush
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rhus integrifolia</i> - lemonade berry
<i>Simmondsia chinensis</i> - jojoba
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1666

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/28/2022

Survey Start Time: 02:27 PM

Survey End Time: 02:42 PM

Surveyors: Stephanie Ayerdis, James Davis

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
<i>Cylindropuntia prolifera</i> - coast cholla	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 3

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<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: 10-25%

Cover of Litter in Basin: 5-10%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1666

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Avena barbata</i> - slender wild oat
<i>Baccharis salicifolia</i> - mule fat
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium brachycarpum</i> - short-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Erodium moschatum</i> - greenstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Isocoma menziesii</i> - coastal goldenbush
<i>Lactuca serriola</i> - prickly lettuce
<i>Lamarckia aurea</i> - golden-top
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Rhus integrifolia</i> - lemonade berry
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Simmondsia chinensis</i> - jojoba
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1667

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/11/2022

Survey Start Time: 01:15 PM

Survey End Time: 01:39 PM

Surveyors: Amy Mattson, Jonathan Mercado

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
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	<1%
<i>Sisyrinchium bellum</i> - western blue-eyed-grass	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 2

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<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: 10-25%

Cover of Litter in Basin: <1%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1667

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Avena fatua</i> - wild oat
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium brachycarpum</i> - short-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia minima</i> - chaffweed
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1668

### 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

Baseline Cover of PONU: 5.0

### 2021 Quantitative Monitoring Data

Survey Date: 5/11/2022

Survey Start Time: 02:52 PM

Survey End Time: 03:17 PM

Surveyors: Amy Mattson, Jonathan Mercado

VPHCP Covered Species Present: PONU, 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: 1-5%

### Other Native Species in Pool:

Species Name	Cover
<i>Deschampsia danthonioides</i> - annual hair grass	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	5-10%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 3

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Festuca perennis</i> - rye grass	<1%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	1-5%
<i>Lythrum hyssopifolia</i> - grass poly	<1%

Cover of Nonnative Species in Basin: 10-25%

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: 1-5%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1668

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Atriplex pacifica</i> - south coast saltscale
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia serpens</i> - matted sandmat
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Hainardia cylindrica</i> - barb grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Mirabilis laevis</i> var. <i>crassifolia</i> - wishbone bush
<i>Salsola tragus</i> - Russian thistle
<i>Salvia mellifera</i> - black sage
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1669

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 5/13/2022

Survey Start Time: 08:06 AM

Survey End Time: 08:41 AM

Surveyors: Amy Mattson, Jonathan Mercado

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
<i>Cylindropuntia prolifera</i> - coast cholla	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 3

Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Festuca perennis</i> - rye grass	<1%
<i>Gastridium phleoides</i> - nit grass	<1%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%

Cover of Nonnative Species in Basin: 10-25%

Nonnative Species Richness in Basin: 10

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1669

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus diandrus</i> - riggut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Deschampsia danthonioides</i> - annual hair grass
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia</i> sp.
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Pogogyne abramsii</i> - San Diego mesa mint
<i>Salsola tragus</i> - Russian thistle
<i>Salvia mellifera</i> - black sage
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1670

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 5/11/2022

Survey Start Time: 02:19 PM

Survey End Time: 02:44 PM

Surveyors: Amy Mattson, Jonathan Mercado

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:

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 3

Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Festuca perennis</i> - rye grass	1-5%
<i>Gastridium phleoides</i> - nit grass	1-5%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%

Cover of Nonnative Species in Basin: 10-25%

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%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1670

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Gastridium phleoides</i> - nit grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Mirabilis laevis</i> var. <i>crassifolia</i> - wishbone bush
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Pseudognaphalium biolettii</i> - bicolor cudweed
<i>Rhus integrifolia</i> - lemonade berry
<i>Salsola tragus</i> - Russian thistle
<i>Salvia mellifera</i> - black sage
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1671

### 2003 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/11/2022

Survey Start Time: 01:49 PM

Survey End Time: 02:13 PM

Surveyors: Amy Mattson, Jonathan Mercado

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
<i>Cylindropuntia prolifera</i> - coast cholla	<1%
<i>Isocoma menziesii</i> - coastal goldenbush	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 3

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	1-5%

Cover of Nonnative Species in Basin: 10-25%

Nonnative Species Richness in Basin: 12

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1671

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Acacia</i> sp.
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Rhus integrifolia</i> - lemonade berry
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1672

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 5/13/2022

Survey Start Time: 08:44 AM

Survey End Time: 09:05 AM

Surveyors: Amy Mattson, Jonathan Mercado

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:

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 4

Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Festuca perennis</i> - rye grass	5-10%
<i>Lactuca serriola</i> - prickly lettuce	<1%

Cover of Nonnative Species in Basin: 10-25%

Nonnative Species Richness in Basin: 6

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1672

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Avena barbata</i> - slender wild oat
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Simmondsia chinensis</i> - jojoba
<i>Stipa diegoensis</i> - San Diego needle grass
<i>Stipa lepida</i> - foothill needle grass

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1673

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 5/13/2022

Survey Start Time: 09:08 AM

Survey End Time: 09:30 AM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado, Dan Monroe

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:

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 2

Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Festuca perennis</i> - rye grass	<1%

Cover of Nonnative Species in Basin: 10-25%

Nonnative Species Richness in Basin: 8

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1673

### 2021 Quantitative Monitoring Data continued

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Atriplex pacifica</i> - south coast saltscale
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium brachycarpum</i> - short-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Simmondsia chinensis</i> - jojoba
<i>Stipa lepida</i> - foothill needle grass

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1675

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/11/2022

Survey Start Time: 12:37 PM

Survey End Time: 01:09 PM

Surveyors: Amy Mattson, Jonathan Mercado

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
<i>Cylindropuntia prolifera</i> - coast cholla	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 2

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus diandrus</i> - ripgut grass	<1%
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Lamarckia aurea</i> - golden-top	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Schismus barbatus</i> - Mediterranean schismus	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<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: 1-5%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1675

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Avena barbata</i> - slender wild oat
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus diandrus</i> - ripgut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Rhus integrifolia</i> - lemonade berry
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Simmondsia chinensis</i> - jojoba
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1676

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 5/11/2022

Survey Start Time: 12:12 PM

Survey End Time: 12:36 PM

Surveyors: Amy Mattson, Jonathan Mercado

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
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 2

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	5-10%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Schismus barbatus</i> - Mediterranean schismus	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 10

Bare Ground Cover in Basin: 5-10%

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:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1676

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Beta vulgaris ssp. maritima</i> - sea beet
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia serpens</i> - matted sandmat
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Glebionis coronaria</i> - crown daisy
<i>Isocoma menziesii</i> - coastal goldenbush
<i>Lactuca serriola</i> - prickly lettuce
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Phalaris minor</i> - little-seeded canary grass
<i>Rhus integrifolia</i> - lemonade berry
<i>Salsola tragus</i> - Russian thistle
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stipa lepida</i> - foothill needle grass

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1677

<b>2003 Baseline Survey Data</b>
----------------------------------

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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 5/11/2022

Survey Start Time: 11:20 AM

Survey End Time: 11:50 AM

Surveyors: Amy Mattson, Jonathan Mercado

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
<i>Cylindropuntia prolifera</i> - coast cholla	1-5%
<i>Sisyrinchium bellum</i> - western blue-eyed-grass	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 3

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Lamarckia aurea</i> - golden-top	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 25-50%

Nonnative Species Richness in Basin: 7

Bare Ground Cover in Basin: 10-25%

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

Cover of Litter in Basin: 1-5%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1677

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Beta vulgaris</i> ssp. <i>maritima</i> - sea beet
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Encelia californica</i> - California encelia
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia serpens</i> - matted sandmat
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Glebionis coronaria</i> - crown daisy
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Lactuca serriola</i> - prickly lettuce
<i>Lamarckia aurea</i> - golden-top
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Rhus integrifolia</i> - lemonade berry
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Yucca schidigera</i> - Mojave yucca

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1678

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 5/11/2022

Survey Start Time: 10:55 AM

Survey End Time: 11:17 AM

Surveyors: Amy Mattson, Jonathan Mercado

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
<i>Cylindropuntia prolifera</i> - coast cholla	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 2

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Euphorbia serpens</i> - matted sandmat	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lactuca serriola</i> - prickly lettuce	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 7

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1678

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Beta vulgaris</i> ssp. <i>maritima</i> - sea beet
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia serpens</i> - matted sandmat
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Glebionis coronaria</i> - crown daisy
<i>Lactuca serriola</i> - prickly lettuce
<i>Lamarckia aurea</i> - golden-top
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Mesembryanthemum crystallinum</i> - crystalline iceplant
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Rhus integrifolia</i> - lemonade berry
<i>Salsola tragus</i> - Russian thistle
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1679

<b>2003 Baseline Survey Data</b>
----------------------------------

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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 5/11/2022

Survey Start Time: 10:25 AM

Survey End Time: 10:53 AM

Surveyors: Amy Mattson, Jonathan Mercado

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
<i>Eleocharis macrostachya</i> - pale spike-rush	25-50%
<i>Juncus bufonius</i> - toad rush	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 4

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Lythrum hyssopifolia</i> - grass poly	<1%

Cover of Nonnative Species in Basin: <1%

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: 5-10%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1679

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Beta vulgaris</i> ssp. <i>maritima</i> - sea beet
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Euphorbia</i> sp.
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Lamarckia aurea</i> - golden-top
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Pseudognaphalium stramineum</i> - cotton-batting plant
<i>Rhus integrifolia</i> - lemonade berry
<i>Salsola tragus</i> - Russian thistle
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Simmondsia chinensis</i> - jojoba
<i>Sisyrinchium bellum</i> - western blue-eyed-grass
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1684

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 5/11/2022

Survey Start Time: 09:56 AM

Survey End Time: 10:19 AM

Surveyors: Amy Mattson, Jonathan Mercado

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
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 2

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	1-5%
<i>Erodium botrys</i> - long-beak filaree/storksbill	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 6

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1684

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Artemisia californica</i> - California sagebrush
<i>Atriplex pacifica</i> - south coast saltscale
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lamarckia aurea</i> - golden-top
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Mirabilis laevis</i> var. <i>crassifolia</i> - wishbone bush
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Rhus integrifolia</i> - lemonade berry
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1685

<b>2003 Baseline Survey Data</b>
----------------------------------

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

<b>2021 Quantitative Monitoring Data</b>
--

Survey Date: 5/11/2022

Survey Start Time: 09:35 AM

Survey End Time: 09:48 AM

Surveyors: Amy Mattson, Jonathan Mercado

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
<i>Bahiopsis laciniata</i> - San Diego viguiera	1-5%
<i>Encelia californica</i> - California encelia	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 4

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	25-50%
<i>Bromus madritensis</i> - foxtail chess	1-5%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	5-10%
<i>Lactuca serriola</i> - prickly lettuce	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 2

Bare Ground Cover in Basin: <1%

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

Cover of Litter in Basin: >75%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1685

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Acmispon glaber</i> var. <i>glaber</i> - deerweed
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Helminthotheca echioides</i> - bristly ox-tongue
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Polypogon monspeliensis</i> - rabbitfoot grass
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus oleraceus</i> - common sow thistle

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1688

<b>2003 Baseline Survey Data</b>
----------------------------------

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

<b>2021 Quantitative Monitoring Data</b>
--

Survey Date: 5/11/2022

Survey Start Time: 09:06 AM

Survey End Time: 09:27 AM

Surveyors: Amy Mattson, Jonathan Mercado

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
<i>Eleocharis macrostachya</i> - pale spike-rush	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 3

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Festuca perennis</i> - rye grass	<1%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 3

Bare Ground Cover in Basin: 1-5%

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

Cover of Litter in Basin: 1-5%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1688

### 2021 Quantitative Monitoring Data continued

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Glebionis coronaria</i> - crown daisy
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Simmondsia chinensis</i> - jojoba

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1689

<b>2003 Baseline Survey Data</b>
----------------------------------

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

<b>2021 Quantitative Monitoring Data</b>
--

Survey Date: 5/11/2022

Survey Start Time: 08:50 AM

Survey End Time: 09:05 AM

Surveyors: Amy Mattson, Jonathan Mercado

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:

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 4

Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Festuca perennis</i> - rye grass	<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: 5-10%

Cover of Litter in Basin: 1-5%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1689

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Glebionis coronaria</i> - crown daisy
<i>Lactuca serriola</i> - prickly lettuce
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Rhus integrifolia</i> - lemonade berry
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1691

<b>2003 Baseline Survey Data</b>
----------------------------------

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

<b>2021 Quantitative Monitoring Data</b>
--

Survey Date: 5/6/2022

Survey Start Time: 03:15 PM

Survey End Time: 03:28 PM

Surveyors: Amy Mattson, Jonathan Mercado

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:

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 1

Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Festuca perennis</i> - rye grass	<1%

Cover of Nonnative Species in Basin: 25-50%

Nonnative Species Richness in Basin: 5

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1691

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Atriplex pacifica</i> - south coast saltscale
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Encelia californica</i> - California encelia
<i>Erodium brachycarpum</i> - short-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Rhus integrifolia</i> - lemonade berry
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Simmondsia chinensis</i> - jojoba

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1692

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/11/2022

Survey Start Time: 08:10 AM

Survey End Time: 08:38 AM

Surveyors: Amy Mattson, Jonathan Mercado

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
<i>Eleocharis macrostachya</i> - pale spike-rush	10-25%
<i>Juncus bufonius</i> - toad rush	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 3

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Festuca perennis</i> - rye grass	<1%
<i>Lythrum hyssopifolia</i> - grass poly	1-5%

Cover of Nonnative Species in Basin: 5-10%

Nonnative Species Richness in Basin: 8

Bare Ground Cover in Basin: 5-10%

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

Cover of Litter in Basin: 1-5%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1692

### 2021 Quantitative Monitoring Data continued

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Atriplex pacifica</i> - south coast saltscale
<i>Bromus hordeaceus</i> - soft chess
<i>Croton setiger</i> - doveweed
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia serpens</i> - matted sandmat
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Heteromeles arbutifolia</i> - toyon
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Rhus integrifolia</i> - lemonade berry
<i>Salsola tragus</i> - Russian thistle
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Simmondsia chinensis</i> - jojoba

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1693

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 5/6/2022

Survey Start Time: 02:45 PM

Survey End Time: 03:04 PM

Surveyors: Amy Mattson, Jonathan Mercado

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:

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 1

Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Bromus madritensis</i> - foxtail chess	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Lamarckia aurea</i> - golden-top	<1%

Cover of Nonnative Species in Basin: 25-50%

Nonnative Species Richness in Basin: 5

Bare Ground Cover in Basin: 1-5%

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

Cover of Litter in Basin: 1-5%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1693

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia</i> sp.
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Heteromeles arbutifolia</i> - toyon
<i>Lactuca serriola</i> - prickly lettuce
<i>Lamarckia aurea</i> - golden-top
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1694

<b>2003 Baseline Survey Data</b>		
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	

<b>2021 Quantitative Monitoring Data</b>		
Survey Date: 5/6/2022	Survey Start Time: 02:20 PM	Survey End Time: 02:42 PM
Surveyors: Amy Mattson, Jonathan Mercado		
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:	
<u>Other Native Species in Pool:</u>		
Cover of Other Native Species in Basin:	Other Native Species Richness in Basin: 1	
<u>Nonnative Species in Pool:</u>		
Species Name	Cover	
<i>Bromus madritensis</i> - foxtail chess	10-25%	
<i>Erodium botrys</i> - long-beak filaree/storksbill	1-5%	
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%	
Cover of Nonnative Species in Basin: 1-5%	Nonnative Species Richness in Basin: 4	
Bare Ground Cover in Basin: >75%	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:		

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	10-25%
<i>Erodium botrys</i> - long-beak filaree/storksbill	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1694

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Atriplex pacifica</i> - south coast saltscale
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Heteromeles arbutifolia</i> - toyon
<i>Lactuca serriola</i> - prickly lettuce
<i>Lamarckia aurea</i> - golden-top
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1696

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 5/6/2022

Survey Start Time: 01:33 PM

Survey End Time: 02:07 PM

Surveyors: Amy Mattson, Jonathan Mercado

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
<i>Cylindropuntia prolifera</i> - coast cholla	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 2

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Festuca perennis</i> - rye grass	<1%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	1-5%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 10-25%

Nonnative Species Richness in Basin: 10

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1696

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia</i> sp.
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Rhus integrifolia</i> - lemonade berry
<i>Salvia mellifera</i> - black sage
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus oleraceus</i> - common sow thistle

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1697

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 5/6/2022

Survey Start Time: 01:05 PM

Survey End Time: 01:36 PM

Surveyors: Amy Mattson, Jonathan Mercado

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
<i>Cylindropuntia prolifera</i> - coast cholla	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 2

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%

Cover of Nonnative Species in Basin: 25-50%

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: 5-10%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1697

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia serpens</i> - matted sandmat
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Festuca perennis</i> - rye grass
<i>Heteromeles arbutifolia</i> - toyon
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Rhus integrifolia</i> - lemonade berry
<i>Salvia mellifera</i> - black sage
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Simmondsia chinensis</i> - jojoba

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1698

### 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: 1.0

### 2021 Quantitative Monitoring Data

Survey Date: 5/6/2022

Survey Start Time: 11:54 AM

Survey End Time: 12:30 PM

Surveyors: Amy Mattson, Jonathan Mercado

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
<i>Cylindropuntia prolifera</i> - coast cholla	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 2

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Bromus madritensis</i> - foxtail chess	1-5%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Lamarckia aurea</i> - golden-top	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Phalaris minor</i> - little-seeded canary grass	<1%
<i>Phalaris paradoxa</i> - hood canary grass	<1%

Cover of Nonnative Species in Basin: 10-25%

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%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1698

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Heteromeles arbutifolia</i> - toyon
<i>Lactuca serriola</i> - prickly lettuce
<i>Lamarckia aurea</i> - golden-top
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Rhus integrifolia</i> - lemonade berry
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Stipa lepida</i> - foothill needle grass
<i>Stipa pulchra</i> - purple needle grass

**Notes:**

# Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1699

## 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

## 2021 Quantitative Monitoring Data

Survey Date: 5/6/2022

Survey Start Time: 11:31 AM

Survey End Time: 11:49 AM

Surveyors: Amy Mattson, Jonathan Mercado

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:

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 1

## Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	10-25%
<i>Bromus madritensis</i> - foxtail chess	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	10-25%
<i>Lactuca serriola</i> - prickly lettuce	<1%

Cover of Nonnative Species in Basin: 50-75%

Nonnative Species Richness in Basin: 7

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1699

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Heteromeles arbutifolia</i> - toyon
<i>Lactuca serriola</i> - prickly lettuce
<i>Lamarckia aurea</i> - golden-top
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Rhus integrifolia</i> - lemonade berry
<i>Salvia mellifera</i> - black sage
<i>Simmondsia chinensis</i> - jojoba

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1700

### 2003 Baseline Survey Data

Baseline Cover of ERAR: 75.0

Baseline Cover of NAFO: 2.0

Baseline Cover of ORCA: 0.0

Baseline Cover of POAB: 0.0

Baseline Cover of PONU: 5.0

### 2021 Quantitative Monitoring Data

Survey Date: 5/6/2022

Survey Start Time: 10:45 AM

Survey End Time: 11:28 AM

Surveyors: Amy Mattson, Jonathan Mercado

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%

### Other Native Species in Pool:

Species Name	Cover
<i>Cylindropuntia prolifera</i> - coast cholla	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 4

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Mesembryanthemum crystallinum</i> - crystalline iceplant	10-25%
<i>Salsola tragus</i> - Russian thistle	<1%

Cover of Nonnative Species in Basin: 25-50%

Nonnative Species Richness in Basin: 8

Bare Ground Cover in Basin: 5-10%

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

Cover of Litter in Basin: 1-5%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1700

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Heterotheca grandiflora</i> - telegraph weed
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Rhus integrifolia</i> - lemonade berry
<i>Salsola tragus</i> - Russian thistle
<i>Simmondsia chinensis</i> - jojoba
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1701

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
--

Survey Date: 5/6/2022

Survey Start Time: 10:17 AM

Survey End Time: 10:40 AM

Surveyors: Amy Mattson, Jonathan Mercado

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:

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 2

Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Lamarckia aurea</i> - golden-top	<1%

Cover of Nonnative Species in Basin: 10-25%

Nonnative Species Richness in Basin: 9

Bare Ground Cover in Basin: 5-10%

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

Cover of Litter in Basin: <1%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1701

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Hainardia cylindrica</i> - barb grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lamarckia aurea</i> - golden-top
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Phalaris paradoxa</i> - hood canary grass
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Rhus integrifolia</i> - lemonade berry
<i>Salvia mellifera</i> - black sage
<i>Simmondsia chinensis</i> - jojoba
<i>Stipa pulchra</i> - purple needle grass

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1702

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
--

Survey Date: 5/6/2022

Survey Start Time: 09:40 AM

Survey End Time: 10:12 AM

Surveyors: Amy Mattson, Jonathan Mercado

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:

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 3

Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	10-25%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Lactuca serriola</i> - prickly lettuce	<1%

Cover of Nonnative Species in Basin: 10-25%

Nonnative Species Richness in Basin: 9

Bare Ground Cover in Basin: 5-10%

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

Cover of Litter in Basin: <1%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1702

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Peritoma arborea</i> - bladderpod
<i>Phalaris paradoxa</i> - hood canary grass
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Rhus integrifolia</i> - lemonade berry
<i>Salvia mellifera</i> - black sage
<i>Simmondsia chinensis</i> - jojoba

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1703

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 5/4/2022

Survey Start Time: 03:25 PM

Survey End Time: 03:42 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

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
<i>Cylindropuntia prolifera</i> - coast cholla	<1%
<i>Ferocactus viridescens</i> - San Diego barrel cactus	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 4

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	10-25%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium</i> sp.	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	5-10%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 50-75%

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: 1-5%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1703

<b>2021 Quantitative Monitoring Data continued</b>
--

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

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium cicutarium</i> - redstem filaree
<i>Erodium</i> sp.
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Hordeum murinum</i> - wall barley
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Peritoma arborea</i> - bladderpod
<i>Rhus integrifolia</i> - lemonade berry
<i>Salsola tragus</i> - Russian thistle
<i>Simmondsia chinensis</i> - jojoba
<i>Stipa miliacea</i> var. <i>miliacea</i> - smilo grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1705

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/4/2022

Survey Start Time: 02:49 PM

Survey End Time: 03:19 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

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
<i>Cylindropuntia prolifera</i> - coast cholla	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 4

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Euphorbia serpens</i> - matted sandmat	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Festuca perennis</i> - rye grass	<1%
<i>Glebionis coronaria</i> - crown daisy	<1%
<i>Lactuca serriola</i> - prickly lettuce	1-5%
<i>Lysimachia arvensis</i> - scarlet pimpernel	5-10%
<i>Phalaris minor</i> - little-seeded canary grass	<1%
<i>Polypogon monspeliensis</i> - rabbitfoot grass	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 50-75%

Nonnative Species Richness in Basin: 11

Bare Ground Cover in Basin: 1-5%

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

Cover of Litter in Basin: 5-10%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1705

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus diandrus</i> - ripgut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Euphorbia serpens</i> - matted sandmat
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Glebionis coronaria</i> - crown daisy
<i>Heteromeles arbutifolia</i> - toyon
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Rhus integrifolia</i> - lemonade berry
<i>Salvia mellifera</i> - black sage
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Simmondsia chinensis</i> - jojoba

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1706

### 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: 10.0

### 2021 Quantitative Monitoring Data

Survey Date: 5/4/2022

Survey Start Time: 02:14 PM

Survey End Time: 02:44 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

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:

Species Name	Cover
<i>Baccharis sarothroides</i> - broom baccharis	5-10%
<i>Deinandra fasciculata</i> - fascicled tarweed	<1%
<i>Erigeron canadensis</i> - horseweed	<1%
<i>Matricaria discoidea</i> - pineapple weed	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 2

### Nonnative Species in Pool:

Species Name	Cover
<i>Brassica nigra</i> - black mustard	<1%
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Centaurea melitensis</i> - tocalote	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Glebionis coronaria</i> - crown daisy	5-10%
<i>Hainardia cylindrica</i> - barb grass	<1%
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant	<1%
<i>Salsola tragus</i> - Russian thistle	<1%
<i>Schismus barbatus</i> - Mediterranean schismus	<1%

Cover of Nonnative Species in Basin: 1-5%

Nonnative Species Richness in Basin: 11

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1706

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Avena barbata</i> - slender wild oat
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus diandrus</i> - ripgut grass
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Centaurea melitensis</i> - tocalote
<i>Encelia californica</i> - California encelia
<i>Erigeron canadensis</i> - horseweed
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Euphorbia maculata</i> - spotted spurge
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Glebionis coronaria</i> - crown daisy
<i>Helminthotheca echioides</i> - bristly ox-tongue
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Matricaria discoidea</i> - pineapple weed
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Pogogyne nudiuscula</i> - Otay mesa mint
<i>Rhus integrifolia</i> - lemonade berry
<i>Salsola tragus</i> - Russian thistle
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1708

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/4/2022

Survey Start Time: 01:45 PM

Survey End Time: 02:11 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

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: 5-10%

### Other Native Species in Pool:

Species Name	Cover
<i>Erigeron canadensis</i> - horseweed	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 2

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	<1%
<i>Bromus madritensis</i> - foxtail chess	1-5%
<i>Carrichtera annua</i> - Ward's weed	<1%
<i>Erodium cicutarium</i> - redstem filaree	1-5%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	1-5%
<i>Phalaris minor</i> - little-seeded canary grass	1-5%
<i>Schismus barbatus</i> - Mediterranean schismus	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 50-75%

Nonnative Species Richness in Basin: 10

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1708

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Avena barbata</i> - slender wild oat
<i>Baccharis pilularis</i> - coyote brush
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Carrichtera annua</i> - Ward's weed
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Euphorbia maculata</i> - spotted spurge
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Rhus integrifolia</i> - lemonade berry
<i>Salsola tragus</i> - Russian thistle
<i>Salvia mellifera</i> - black sage
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle
<i>Sonchus oleraceus</i> - common sow thistle
<i>Stipa lepida</i> - foothill needle grass

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1709

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 5/6/2022

Survey Start Time: 08:20 AM

Survey End Time: 09:00 AM

Surveyors: Amy Mattson, Jonathan Mercado

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%

### Other Native Species in Pool:

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 3

### Nonnative Species in Pool:

Species Name	Cover
<i>Avena barbata</i> - slender wild oat	<1%
<i>Bromus hordeaceus</i> - soft chess	25-50%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	5-10%
<i>Lactuca serriola</i> - prickly lettuce	<1%

Cover of Nonnative Species in Basin: 50-75%

Nonnative Species Richness in Basin: 16

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1709

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Atriplex semibaccata</i> - Australian saltbush
<i>Avena barbata</i> - slender wild oat
<i>Avena fatua</i> - wild oat
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Carrichtera annua</i> - Ward's weed
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Glebionis coronaria</i> - crown daisy
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Phalaris minor</i> - little-seeded canary grass
<i>Rhus integrifolia</i> - lemonade berry
<i>Salsola tragus</i> - Russian thistle
<i>Salvia mellifera</i> - black sage
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1710

<b>2003 Baseline Survey Data</b>
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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

<b>2021 Quantitative Monitoring Data</b>
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Survey Date: 5/6/2022

Survey Start Time: 09:12 AM

Survey End Time: 09:38 AM

Surveyors: Amy Mattson, Jonathan Mercado

VPHCP Covered Species Present: 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:

**Other Native Species in Pool:**

Species Name	Cover
<i>Cylindropuntia prolifera</i> - coast cholla	<1%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 2

**Nonnative Species in Pool:**

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	10-25%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	<1%
<i>Lactuca serriola</i> - prickly lettuce	<1%
<i>Lysimachia arvensis</i> - scarlet pimpernel	<1%
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant	<1%

Cover of Nonnative Species in Basin: 50-75%

Nonnative Species Richness in Basin: 8

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: 6-15

Ponded Water Present: no

Dead Species Present in Pool:



## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: Robinhood Ridge (J4-5)

VP ID: 1710

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Artemisia californica</i> - California sagebrush
<i>Atriplex semibaccata</i> - Australian saltbush
<i>Avena barbata</i> - slender wild oat
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Calystegia macrostegia</i> - island morning glory
<i>Carrichtera annua</i> - Ward's weed
<i>Centaurea melitensis</i> - tocalote
<i>Cylindropuntia prolifera</i> - coast cholla
<i>Encelia californica</i> - California encelia
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Erodium cicutarium</i> - redstem filaree
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Ferocactus viridescens</i> - San Diego barrel cactus
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Lactuca serriola</i> - prickly lettuce
<i>Lysimachia arvensis</i> - scarlet pimpernel
<i>Mesembryanthemum nodiflorum</i> - slender-leaved iceplant
<i>Opuntia littoralis</i> - coast prickly-pear
<i>Rhus integrifolia</i> - lemonade berry
<i>Salsola tragus</i> - Russian thistle
<i>Salvia mellifera</i> - black sage
<i>Schismus barbatus</i> - Mediterranean schismus
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Simmondsia chinensis</i> - jojoba
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle

**Notes:**

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: South Otay 1 acre (J13N)

VP ID: 1235

<b>2003 Baseline Survey Data</b>		
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	

<b>2021 Quantitative Monitoring Data</b>		
Survey Date: 4/20/2022	Survey Start Time: 11:37 AM	Survey End Time: 11:59 AM
Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado		
<b>VPHCP Covered Species Present:</b>		
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:**

Species Name	Cover
<i>Eleocharis macrostachya</i> - pale spike-rush	1-5%
<i>Malvella leprosa</i> - alkali-mallow	1-5%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 3

**Nonnative Species in Pool:**

Species Name	Cover
<i>Avena barbata</i> - slender wild oat	<1%
<i>Festuca perennis</i> - rye grass	50_75
<i>Hordeum marinum</i> ssp. <i>gussoneanum</i> - Mediterranean barley	<1%
<i>Phalaris minor</i> - little-seeded canary grass	<1%
<i>Sonchus asper</i> ssp. <i>asper</i> - prickly sow thistle	<1%

Cover of Nonnative Species in Basin: 25-50%

Nonnative Species Richness in Basin: 10

Bare Ground Cover in Basin: 1-5%

Cover of Rocks/Cobble in Basin: <1%

Cover of Litter in Basin: 10-25%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: South Otay 1 acre (J13N)

VP ID: 1235

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Atriplex semibaccata</i> - Australian saltbush
<i>Avena barbata</i> - slender wild oat
<i>Bromus diandrus</i> - riggut grass
<i>Bromus madritensis</i> - foxtail chess
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Erodium cicutarium</i> - redstem filaree
<i>Hordeum marinum</i> ssp. <i>gussoneanum</i> - Mediterranean barley
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Lepidium nitidum</i> - shining peppergrass
<i>Malvella leprosa</i> - alkali-mallow
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: South Otay 1 acre (J13N)

VP ID: 2339

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/20/2022

Survey Start Time: 11:02 AM

Survey End Time: 11:22 AM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

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
<i>Cressa truxillensis</i> - alkali weed	<1%
<i>Eleocharis macrostachya</i> - pale spike-rush	5-10%
<i>Malvella leprosa</i> - alkali-mallow	5-10%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	1-5%

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 7

### Nonnative Species in Pool:

Species Name	Cover
<i>Erodium cicutarium</i> - redstem filaree	<1%
<i>Festuca perennis</i> - rye grass	50_75
<i>Hordeum marinum</i> ssp. <i>gussoneanum</i> - Mediterranean barley	1-5%

Cover of Nonnative Species in Basin: 50-75%

Nonnative Species Richness in Basin: 7

Bare Ground Cover in Basin: 1-5%

Cover of Rocks/Cobble in Basin: <1%

Cover of Litter in Basin: 10-25%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: South Otay 1 acre (J13N)

VP ID: 2339

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Avena barbata</i> - slender wild oat
<i>Bromus madritensis</i> - foxtail chess
<i>Cressa truxillensis</i> - alkali weed
<i>Eleocharis macrostachya</i> - pale spike-rush
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca perennis</i> - rye grass
<i>Hordeum marinum</i> ssp. <i>gussoneanum</i> - Mediterranean barley
<i>Malvella leprosa</i> - alkali-mallow

Notes:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: West Otay C (J32)

VP ID: 1545

### 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

### 2021 Quantitative Monitoring Data

Survey Date: 4/20/2022

Survey Start Time: 01:00 PM

Survey End Time: 01:58 PM

Surveyors: Jason Allen, Amy Mattson, Jonathan Mercado

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: 5-10%

### Other Native Species in Pool:

Species Name	Cover
<i>Baccharis sarothroides</i> - broom baccharis	<1%
<i>Cryptantha</i> sp.	<1%
<i>Deinandra fasciculata</i> - fascicled tarweed	5-10%
<i>Erigeron canadensis</i> - horseweed	<1%
<i>Myosurus minimus</i> ssp. <i>apus</i> - little mouse tail	<1%
<i>Plantago elongata</i> - prairie plantain	<1%
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads	50_75

Cover of Other Native Species in Basin:

Other Native Species Richness in Basin: 6

### Nonnative Species in Pool:

Species Name	Cover
<i>Bromus hordeaceus</i> - soft chess	1-5%
<i>Bromus madritensis</i> - foxtail chess	<1%
<i>Erodium botrys</i> - long-beak filaree/storksbill	<1%
<i>Festuca myuros</i> - rattail sixweeks grass	1-5%
<i>Lamarckia aurea</i> - golden-top	<1%
<i>Logfia gallica</i> - daggerleaf cottonrose	<1%
<i>Lythrum hyssopifolia</i> - grass poly	<1%
<i>Sonchus oleraceus</i> - common sow thistle	<1%
<i>Spergularia</i> sp.	<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%

Cover of Litter in Basin: 25-50%

Days Since Last Rain: 6-15

Ponded Water Present: no

Dead Species Present in Pool:

## Annual VPHCP Covered Plant Monitoring

Fiscal Year: 2022

Complex Name: West Otay C (J32)

VP ID: 1545

<b>2021 Quantitative Monitoring Data continued</b>
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**Associated Species in Buffer: (Buffer = 20 foot or 6 meter radius around basin perimeter)**

Species Name
<i>Ambrosia chenopodiifolia</i> - San Diego bur-sage
<i>Artemisia californica</i> - California sagebrush
<i>Atriplex semibaccata</i> - Australian saltbush
<i>Baccharis pilularis</i> - coyote brush
<i>Baccharis sarothroides</i> - broom baccharis
<i>Bahiopsis laciniata</i> - San Diego viguiera
<i>Bromus hordeaceus</i> - soft chess
<i>Bromus madritensis</i> - foxtail chess
<i>Deinandra fasciculata</i> - fascicled tarweed
<i>Eriogonum fasciculatum</i> - California buckwheat
<i>Erodium botrys</i> - long-beak filaree/storksbill
<i>Eryngium aristulatum</i> var. <i>parishii</i> - San Diego button-celery
<i>Festuca myuros</i> - rattail sixweeks grass
<i>Hypochaeris glabra</i> - smooth cat's-ear
<i>Lactuca serriola</i> - prickly lettuce
<i>Lamarckia aurea</i> - golden-top
<i>Logfia gallica</i> - daggerleaf cottonrose
<i>Myosurus minimus</i> ssp. <i>apus</i> - little mouse tail
<i>Oncosiphon pilulifer</i> - stinknet
<i>Peritoma arborea</i> - bladderpod
<i>Plantago elongata</i> - prairie plantain
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i> - dwarf woollyheads
<i>Selaginella cinerascens</i> - ashy spike-moss
<i>Spergularia bocconi</i> - Boccone's sand-spurrey
<i>Uropappus lindleyi</i> - silver puffs

**Notes:**

# **Appendix C-1**

## **2022 Vernal Pool Management Photolog**





**Photo 1.** Weeds growing in vernal pool.



**Photo 2.** Weeds removed from vernal pool.



**Photo 3.** Illegal dump debris around vernal pool.

**Appendix C-1 - 2022 Vernal Pool Management Photolog  
Cal Terraces (North) (City), Otay Mesa Road Parcels**

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**Photo 4.** Contracted crew performing weed control.



**Photo 5.** Vernal pool with focal species.

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**Photographic Documentation**  
Photos 4 & 5

**Appendix C-1 - 2022 Vernal Pool Management Photolog  
Cal Terraces (North) (City), Otay Mesa Road Parcels**

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**Photo 6.** Contracted crew performing fence repair.

**Appendix C-1 - 2022 Vernal Pool Management Photolog  
Cal Terraces (South) (City), Otay Mesa Road Parcels**

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**Photo 7.** Vernal pool filled with water.



**Photo 8.** Trash picked up from inside and outside complex.

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**Photographic Documentation**  
Photos 7 & 8

## Appendix C-1 - 2022 Vernal Pool Management Photolog Calle de Vida (City)

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**Photo 9.** Fence and sign installed to restrict access to vernal pools.



**Photo 10.** Vernal pool with focal species.

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**Photographic Documentation**  
Photos 9 & 10



**Photo 11.** Trash picked up from inside complex.



**Photo 12.** Trash picked up from inside complex.



**Photo 13.** Dry vernal pool.





**Photo 14.** Vernal pool with focal species.



**Photo 15.** Vernal pool with focal species.



**Photo 16.** Vernal pool with focal species.



**Photo 17.** Contracted crew removing trash and performing weed control.



**Photo 18.** Contracted crew removing trash.



**Photo 19.** City staff performing weed control.



Photo 20. Contracted crew performing kiosk installation.



**Photo 21.** Dry vernal pool.



**Photo 22.** Weeds invading vernal pool.



**Photo 23.** Vernal pool filled with water.



**Photo 24.** Fence damaged.



**Photo 25.** City staff performing gate installation.





**Photo 26.** City staff performing gate installation.



**Photo 27.** Contracted crew performing trash pickup.



**Photo 28.** Illegal vegetation clearing.



**Photo 29.** Vernal pool with vegetation.



**Photo 30.** Fence installed to restrict access to vernal pools.



**Photo 31.** Contracted crew performing weed control.



**Photo 32.** Contracted crew performing weed control.



**Photo 33.** Vernal pool with focal species.



**Photo 34.** Contracted crew performing weed control.



**Photo 35.** City staff performed weed control.



**Photo 36.** Contracted crew performing weed control.



**Photo 37.** Vernal pool with vegetation.



**Photo 38.** Vernal pool with vegetation.





**Photo 39.** Vernal pool with vegetation.



**Photo 40.** Vernal pool with focal species.



**Photo 41.** Entomology study of pollinators.

**Appendix C-1 - 2022 Vernal Pool Management Photolog  
Mission Trails Regional Park**

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**Photo 42.** Fence with vernal pool.



**Photo 43.** Fence relocated outside vernal pool.

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**Photographic Documentation**  
Photos 42 & 43



**Photo 44.** Vernal pool with vegetation.



**Photo 45.** Vernal pool with vegetation.



**Photo 46.** Fence to restrict access from vernal pools.

Appendix C-1 - 2022 Vernal Pool Management Photolog  
Ocean View Hills Pkwy (City)

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Photo 47. Sign to restrict access to vernal pools.



Photo 48. Vernal pool with vegetation.

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Photographic Documentation  
Photos 47 & 48



Photo 49. Sign to restrict access to vernal pools.



Photo 50. Contracted staff performing plant installation.



**Photo 51.** City staff installing plant protectors.





Photo 52. Contracted staff performing trash pickup.



Photo 53. City staff performed sign replacement and fence repair.



**Photo 54.** Contracted crew performing weed control.



**Photo 55.** Trash inside vernal pool preserve.



**Photo 56.** Shooting target inside vernal pool preserve.



**Photo 57.** Contracted crew performing fence installation.



**Photo 58.** Contracted crew performing habitat restoration.



**Photo 59.** Contracted crew performing trash pickup.



**Photo 60.** Contracted crew performing plant installation.

## Appendix C-1 - 2022 Vernal Pool Management Photolog South Otay 1 Acre

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Photo 61. Contracted crew performing weed control.



Photo 62. Illegal trails through vernal pools.

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Photographic Documentation  
Photos 61 & 62



**Photo 63.** City staff performing weed control.





**Photo 64.** City staff installed barricades to block access into vernal pools.



**Photo 65.** Vernal pool with vegetation.



**Photo 66.** Dry vernal pool.



**Photo 67.** Contracted crew performing fence installation.



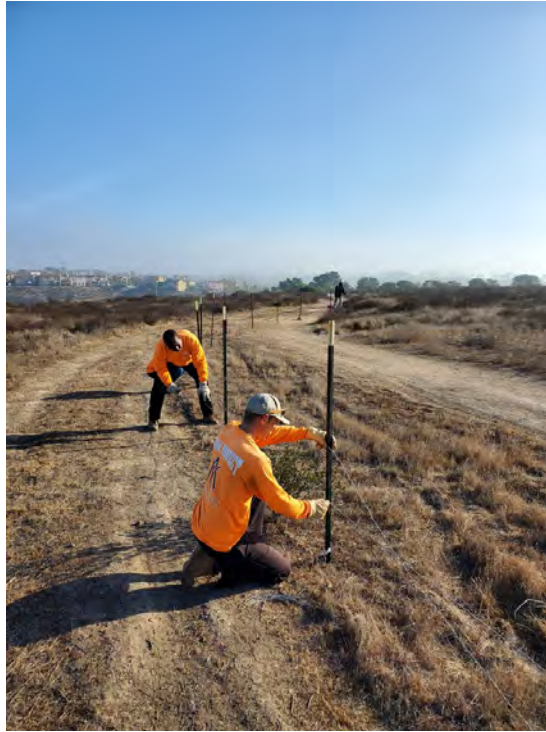
**Photo 68.** Vernal pool with focal species.



**Photo 69.** Vernal pools filled with water.



**Photo 70.** Contracted crew performing fence installation.



**Photo 71.** Contracted crew performing fence installation.



**Photo 72.** Fence installed to restrict access to vernal pools.



**Photo 73.** Vernal pool with vegetation.

## **Appendix C-2**

### **2022 Vernal Pool Monitoring Photolog**

**Appendix C-2 - 2022 Vernal Pool Monitoring Photolog  
Cal Terraces (North) (City), Otay Mesa Road Parcels**

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**Photo 1. Pool 100**



**Photo 2. Pool 1310**

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**Photographic Documentation**  
Photos 1 & 2



**Appendix C-2 - 2022 Vernal Pool Monitoring Photolog  
Cal Terraces (North) (City), Otay Mesa Road Parcels**

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**Photo 3.** Pool 1321



**Photo 4.** Pool 1713

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**Photographic Documentation**  
Photos 3 & 4

**Appendix C-2 - 2022 Vernal Pool Monitoring Photolog  
Cal Terraces (North) (City), Otay Mesa Road Parcels**

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**Photo 5.** Pool 1724



**Photo 6.** Pool 295

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**Photographic Documentation**  
Photos 5 & 6



Photo 7. Pool 301



Photo 8. Pool 42

**Appendix C-2 - 2022 Vernal Pool Monitoring Photolog  
Cal Terraces (North) (City), Otay Mesa Road Parcels**

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**Photo 9. Pool 445**



**Photo 10. Pool 447**

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**Photographic Documentation**  
Photos 9 & 10

**Appendix C-2 - 2022 Vernal Pool Monitoring Photolog  
Cal Terraces (North) (City), Otay Mesa Road Parcels**

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**Photo 11.** Pool 449



**Photo 12.** Pool 450

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**Photographic Documentation**  
Photos 11 & 12

**Appendix C-2 - 2022 Vernal Pool Monitoring Photolog  
Cal Terraces (North) (City), Otay Mesa Road Parcels**

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**Photo 13.** Pool 451



**Photo 14.** Pool 452

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**Photographic Documentation**  
Photos 13 & 14

**Appendix C-2 - 2022 Vernal Pool Monitoring Photolog  
Cal Terraces (North) (City), Otay Mesa Road Parcels**

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**Photo 15.** Pool 459



**Photo 16.** Pool 464

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**Photographic Documentation**  
Photos 15 & 16

**Appendix C-2 - 2022 Vernal Pool Monitoring Photolog  
Cal Terraces (North) (City), Otay Mesa Road Parcels**

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**Photo 17.** Pool 471



**Photo 18.** Pool 473

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**Photographic Documentation**  
Photos 17 & 18



**Appendix C-2 - 2022 Vernal Pool Monitoring Photolog  
Cal Terraces (North) (City), Otay Mesa Road Parcels**

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**Photo 19.** Pool 483



**Photo 20.** Pool 484

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**Photographic Documentation**  
Photos 19 & 20

**Appendix C-2 - 2022 Vernal Pool Monitoring Photolog  
Cal Terraces (North) (City), Otay Mesa Road Parcels**

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**Photo 21.** Pool 490



**Photo 22.** Pool 502

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**Photographic Documentation**  
Photos 21 & 22

**Appendix C-2 - 2022 Vernal Pool Monitoring Photolog  
Cal Terraces (North) (City), Otay Mesa Road Parcels**

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**Photo 23.** Pool 509



**Photo 24.** Pool 51

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**Photographic Documentation**  
Photos 23 & 24

**Appendix C-2 - 2022 Vernal Pool Monitoring Photolog  
Cal Terraces (North) (City), Otay Mesa Road Parcels**

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**Photo 25.** Pool 591



**Photo 26.** Pool 67

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**Photographic Documentation**  
Photos 25 & 26

**Appendix C-2 - 2022 Vernal Pool Monitoring Photolog  
Cal Terraces (North) (City), Otay Mesa Road Parcels**

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**Photo 27. Pool 78**



**Photo 28. Pool 89**

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**Photographic Documentation**  
Photos 27 & 28



**Photo 29.** Pool 96



Photo 30. Pool 2022



Photo 31. Pool 2025



Photo 32. Pool 2039



Photo 33. Pool 2043





Photo 34. Pool 2044



Photo 35. Pool 2185



Photo 36. Pool 2189



Photo 37. Pool 1077



Photo 38. Pool 1092



Photo 39. Pool 1096



Photo 40. Pool 1109



Photo 41. Pool 1740



Photo 42. Pool 1743



**Photo 43.** Pool 1746



**Photo 44.** Pool 876



Photo 45. Pool 1255



Photo 46. Pool 1260





Photo 47. Pool 1264



Photo 48. Pool 1272



Photo 49. Pool 1842



Photo 50. Pool 2468



**Photo 51.** Pool 1141



**Photo 52.** Pool 1142



Photo 53. Pool 1189



Photo 54. Pool 1775



Photo 55. Pool 1920



Photo 56. Pool 2642



**Photo 57.** Pool 1177



**Photo 58.** Pool 706



**Photo 59.** Pool 712



Photo 60. Pool 4256



Photo 61. Pool 4596





Photo 62. Pool 5352



Photo 63. Pool 5355



**Photo 64.** Pool 5356



**Photo 65.** Pool 5358



Photo 66. Pool 5363



Photo 67. Pool 5369



Photo 68. Pool 5371



Photo 69. Pool 5388



Photo 70. Pool 5423



Photo 71. Pool 6351



Photo 72. Pool 6384



**Photo 73.** Pool 666



**Photo 74.** Pool 208



**Photo 75.** Pool 656





**Photo 76.** Pool 891



**Photo 77.** Pool 892 NW



**Photo 78.** Pool 892 West



**Photo 79.** Pool 1801



Photo 80. Pool 1577



Photo 81. Pool 1580



Photo 82. Pool 1595



Photo 83. Pool 1596



**Photo 84.** Pool 1598



**Photo 85.** Pool 1599



**Photo 86.** Pool 1600



**Photo 87.** Pool 1601



**Photo 88.** Pool 1602



**Photo 89.** Pool 1603



**Photo 90.** Pool 1604



**Photo 91.** Pool 1606





**Photo 92.** Pool 1607



**Photo 93.** Pool 1608



**Photo 94.** Pool 1609



**Photo 95.** Pool 1666



Photo 96. Pool 1667



Photo 97. Pool 1668



**Photo 98.** Pool 1669



**Photo 99.** Pool 1670



**Photo 100.** Pool 1671



**Photo 101.** Pool 1672



**Photo 102.** Pool 1673



**Photo 103.** Pool 1675



**Photo 104.** Pool 1676



**Photo 105.** Pool 1677



**Photo 106.** Pool 1678



**Photo 107.** Pool 1679





**Photo 108.** Pool 1684



**Photo 109.** Pool 1685



**Photo 110.** Pool 1688



**Photo 111.** Pool 1689



**Photo 112.** Pool 1691



**Photo 113.** Pool 1692



**Photo 114.** Pool 1693



**Photo 115.** Pool 1694



**Photo 116.** Pool 1696



**Photo 117.** Pool 1697



**Photo 118.** Pool 1698



**Photo 119.** Pool 1699



**Photo 120.** Pool 1700



**Photo 121.** Pool 1701



**Photo 122.** Pool 1702



**Photo 123.** Pool 1703





**Photo 124.** Pool 1705



**Photo 125.** Pool 1706



**Photo 126.** Pool 1708



**Photo 127.** Pool 1709



Photo 128. Pool 1710



**Photo 129.** Pool 1235



**Photo 130.** Pool 2339

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**Photographic Documentation**  
Photos 129 & 130



**Photo 131.** Pool 1545

# **Appendix D**

## **Private Property Compliance Tracking**

**APPENDIX D: Private Property Compliance Tracking**

Project	Associated Plan	Maintenance Requirements	Monitoring Requirements	Success Criteria	Reporting Requirements <sup>1</sup>	2022 Status
Handler	Mitigated Negative Declaration (Section V.9 Vernal Pool Management Plan)	<ul style="list-style-type: none"> <li>• Weed control (see success standards)</li> <li>• Fence and sign repair</li> <li>• Trash and debris removal</li> <li>• Remedial measures (invasive plant control, erosion control, additional fencing and vehicle barriers, seeding)</li> <li>• 2 general maintenance visits per year</li> <li>• Monthly weed control visits from</li> </ul>	<ul style="list-style-type: none"> <li>• Monitoring visits 4 times per year (fall, January, March, May)</li> <li>• Photographs at established photo points taken at each visit</li> <li>• Species cover and richness taken in pool and upland areas</li> <li>• Detailed status notes on maintenance needs</li> </ul>	<ul style="list-style-type: none"> <li>• Bent grass (<i>Agrostis</i> sp.) and Italian ryegrass (<i>Lolium multiflorum</i>) ≤1% cover</li> <li>• Total nonnative weed cover within pools ≤5%</li> <li>• Total nonnative weed cover in upland area ≤5%</li> <li>• Total nonnative grass cover in upland area ≤25%</li> </ul>	<ul style="list-style-type: none"> <li>• Following the final monitoring visit each year, the VP monitor shall prepare a letter evaluating the state of the preserved vernal pool habitat to date, along with any recommended remedial measures.</li> <li>• Copies of the letter will be submitted to the MSCP, EAS, MMC, and other City staff, as appropriate.</li> </ul> <p><i>MMRP</i></p>	Grading permits issued 2019-2020; No reports 2020; Status report vernal pool restoration/ mitigation submitted January 15, 2022.
Mesa Norte	Mesa Norte Vernal Pool Mitigation Plan (1998)	<ul style="list-style-type: none"> <li>• Fence and sign repair will be conducted in perpetuity</li> <li>• Trash and debris removal</li> <li>• Remedial measures (invasive eradication, erosion control, additional fencing and vehicle barriers, fire suppression/damage repair, trampling repair)</li> <li>• 2 weed control visits during spring (general and vernal pool basin)</li> </ul>	<ul style="list-style-type: none"> <li>• No monitoring requirements outlined in the VPHCP for this complex.</li> </ul>	<ul style="list-style-type: none"> <li>• Maintain existing habitat conditions consistent with the Mesa Norte Vernal Pool Mitigation Plan</li> </ul>	<ul style="list-style-type: none"> <li>• City to work with property owner to assess implementation of the Mesa Norte Vernal Pool Mitigation Plan and provide annual reporting.</li> </ul> <p><i>MP</i></p>	Closed out; No further action; No VPHCP monitoring requirement; Staff conducted site visit on April 28, 2023 to follow up on management activities at the site. City Development Services Department (DSD) Mitigation Monitoring and Coordination (MMC) addressing management enforcement in 2022-23.
Rhodes Crossing	Rhodes Crossing Habitat Management Plan (2010)	<ul style="list-style-type: none"> <li>• 2 weed control visits during (once in January/February and again in April/May)</li> <li>• Fence and sign repair, as-needed and informed by general quarterly surveys</li> </ul>	<ul style="list-style-type: none"> <li>• Created and preserved vernal pools within the preserve areas will be visited twice during the rainy season (Feb-April) each year for 10 years to assess their condition. After 10 years they will be visited once per year.</li> <li>• Each pool will be monitored and a species list will be created, including presence of exotics and cover estimates for each species</li> <li>• Quarterly general surveys to document condition and extent of VPs</li> <li>• The baseline vegetation/sensitive resources map will be updated every 5 years and submitted to the agencies</li> </ul>	<ul style="list-style-type: none"> <li>• 'Zero Tolerance Species' to be removed within 2 weeks of discovery</li> <li>• 'Moderate Tolerance Species' to be removed when cover increases 15% over baseline</li> </ul>	<ul style="list-style-type: none"> <li>• A report summarizing the status of the preserve, the results of the surveys, and all major actions taken since the last assessment will be provided to the USFWS, CDFG, and City each year by January 15.</li> <li>• Report will include information on extent and overall health of habitats present within, changes to health or distribution of sensitive plant and animal species observed (provided on digital map), observed changes resulting from natural or man-made causes, management issues/tasks addressed during the last year, and tasks identified for the next year.</li> <li>• Report will also compare most recent data with previous years, and identify appropriate remedial measures as needed. If any vegetation community or sensitive species is declining, the report will outline a plan for its recovery.</li> <li>• Report will also include updated digital-format maps of vegetation and sensitive species. The City's HMP Admin will be responsible for distributing.</li> </ul> <p><i>HMP</i></p>	Alden submitted the year 6 vernal pool restoration/mitigation report received in March of 2023. Report will be included in 2023 AR

Project	Associated Plan	Maintenance Requirements	Monitoring Requirements	Success Criteria	Reporting Requirements <sup>1</sup>	2022 Status
Salk Institute	Habitat Management Plan (2008)	<ul style="list-style-type: none"> <li>• 2 weed control visits annually in the spring</li> <li>• Trash removal visits every other month</li> <li>• Ongoing maintenance of barrier along Torrey Pines Scenic Drive</li> </ul>	<ul style="list-style-type: none"> <li>• Baseline inventory of quality and quantity of vernal pools (2008)</li> <li>• 2 monitoring visits per year during the rainy season (Feb-April); create species list with cover estimates</li> </ul>	<ul style="list-style-type: none"> <li>• Maintain existing habitat conditions consistent with the Salk Institute Master Plan Habitat Management Plan</li> <li>• 'Zero Tolerance Species' to be removed within 2 weeks of discovery</li> <li>• 'Moderate Tolerance Species' to be removed when cover increases 15% over baseline</li> </ul>	<ul style="list-style-type: none"> <li>• Reports due every other year by the 15th of January following the end of the preceding calendar year</li> <li>• Copies provided to Salk Institute, USFWS, CDFW, and the City.</li> <li>• The report will document: existing conditions in the preserve, wildlife use of the preserve, significant changes within the preserve, and recommended remedial measures.</li> <li>• Report will include: summary of management actions; summary of results of annual surveys; locations of sensitive species detected within the preserve; description of exotic species removal measures (with before and after photos); description of proposed exotic species removal tasks for the following year; site maps showing areas of concern; photo documentation of any significant management issues or biological observations.</li> </ul> <p><i>HMP</i></p>	Project grading, VP mitigation and protection of VP complete. Project closed out; City has not received reporting of long term management activities; In perpetuity reporting not included in project entitlement
Shaw Lorenz	Vernal Pool Management Plan Shaw-Lorenz Project (2007)	<ul style="list-style-type: none"> <li>• All weeding within and adjacent to pools will be performed by hand; no herbicide use</li> <li>• Weeding to occur twice per year, generally in Spring</li> <li>• Removal of trash, regularly or at intervals</li> <li>• Installation and repair of protective fencing, signage, direct-light shields, drainage ditches and swales</li> <li>• No brush management will be conducted within Mitigation Site and Conserved areas containing depressional features (except Lot; however no brush management within the basin)</li> </ul>	<ul style="list-style-type: none"> <li>• Annual quantitative monitoring (species richness and vegetative cover) for CSS restoration; stratified random sampling with maps provided</li> </ul>	<ul style="list-style-type: none"> <li>• 5 years of success criteria for upland restoration/enhancement areas will include: the appropriate species richness and cover criteria for all five years of monitoring; 0% weed cover for Cal-IPC High or Moderate and &lt;5% relative cover of all other exotic weed species.</li> <li>• Container plant survival &gt;80% of the initial plantings for the first five years. At the end of Years 1 and 2, all dead plants will be replaced unless their function has been replaced by natural recruitment</li> </ul>	<ul style="list-style-type: none"> <li>• Annual reports will be submitted to the Service by Sept. 1 of each year of the 5-year monitoring program.</li> <li>• Reports will assess both the attainment of yearly success criteria and progress toward the final success criteria.</li> <li>• The reports will summarize the project's compliance with all Service biological opinion conservation measures and terms and conditions.</li> </ul> <p><i>BO</i></p>	Grading complete: project closed out. Versatile fairy shrimp issue; RECON working with USFWS. Follow up to be provided 2023



Project	Associated Plan	Maintenance Requirements	Monitoring Requirements	Success Criteria	Reporting Requirements <sup>1</sup>	2022 Status
Merge 56	Merge 56 Development Project Vernal Pool Mitigation Plan (2016)	<ul style="list-style-type: none"> <li>• 5 year maintenance program; monthly site visits</li> <li>• Trash Removal during maintenance events</li> <li>• Weed control within and adjacent to the vernal pools will be performed with hands; no herbicide use within 5 feet of vernal pools</li> <li>• Weeding in uplands of vernal pools will be removed by hand or with small machinery, focused herbicide application may be used</li> <li>• Container stock, native grass plugs, and transplanted sensitive plants will be hand watered at least twice a month, as needed, during the first 2 years of maintenance and monitoring</li> </ul>	<ul style="list-style-type: none"> <li>• Vernal pools - monthly inspections during Year 1, every other month during Year 2, and every 3 months during the remainder of the monitoring period</li> <li>• Fairy Shrimp - Wet season monitoring conducted every other week during the rainy season; Dry Season sampling of Fairy Shrimp egg presence and density will be measured</li> <li>• Annual Monitoring visits of vernal pools will be conducted near the end of the rainy season; including photo documentation; identification of all plant species, and estimation of species richness and relative vegetative cover of native/non-native plants</li> </ul>	<ul style="list-style-type: none"> <li>• 5 year success criteria for upland and vernal pool restoration areas will include the appropriate species richness and cover criteria of all five years of monitoring (Table 14); for re-established vernal pool &lt;1% for Cal-IPC High or Moderate and &lt;5% relative cover of all other exotic weed species; for enhanced Vernal pool/Upland 0% weed cover for Cal-IPC High or Moderate, and &lt;5% relative cover of all other weed species</li> <li>• Hatched Fairy Shrimp and gravid density of restored pools must not differ significantly from the control pools for 3 wet seasons</li> </ul>	<ul style="list-style-type: none"> <li>• Annual reports will be submitted by August 31 of each year</li> <li>• These will include data collected throughout the year, data from the annual monitoring visit, comparisons of the monitoring data for the years that data are collected, and any recommendations for future work</li> </ul>	City requested years 1-3 be provided for inclusion in the VPHCP Annual Report. Report submittal anticipated in 2023 reporting year.

<sup>1</sup>Reporting requirements are derived from associated plans; plan type acronyms listed for each set of requirements are defined as follows: *BO* = Biological Opinion; *HMP* = Habitat Management Plan; *MP* = Mitigation Plan; *MMRP* = Mitigation Monitoring

## **Appendix E**

### **Handler Commercial & Otay Mesa Road Vernal Pool Maintenance**

January 15, 2022

Mr. Michael Shoemaker  
 BDM Investments, LLC  
 9223 La Jolla Farms Road  
 La Jolla, CA 92037

Subject: Handler Commercial & Otay Mesa Road Vernal Pool Maintenance

Dear Mr. Shoemaker:

This report summarizes the maintenance activities conducted for the 7.41-acre preserve area associated with the Handler Commercial & Otay Mesa Road project in the City of San Diego, as identified in the Long-Term Vernal Pool Management Plan for the project.

**LOCATION**

The approximately 7.4 acre site is located south of State Route [SR] 905) and east of Caliente Avenue in the City of San Diego (Figures 1 & 2).

**ACTIVITIES CONDUCTED**

All work was conducted under the direction of the monitoring biologist from August 24, 2021 – December 20, 2021 (Table 1). Fence posts and signs were installed along the site perimeter to delineate limits and inform the public that the area is an environmental preserve. Trash and debris present were removed. Non-native vegetation within the preserve area also was removed with the use of mechanical line trimmers. Cut vegetation was raked up and removed. The ground surface also was dethatched with landscape rakes to remove built up non-native vegetative matter. Pre- and post-weeding photographs were taken during the weed removal effort (attached). All removed material was disposed of at a legal landfill.

<b>Table 1 Work Conducted</b>	
<b>Date</b>	<b>Task</b>
8/24/21	Bid inspection, site review
9/23/21	Access & flag, posts/signs, dethatching, debris disposal
9/28/21	Day one brush cutting, dethatching, debris disposal
9/30/21	Removal, dethatching, debris disposal
10/7/21	Removal, dethatching, debris disposal
10/11/21	Removal, dethatching, debris disposal
10/12/21	Removal, dethatching, debris disposal
10/13/21	Removal, dethatching, debris disposal
10/14/21	Removal, dethatching, debris disposal (haul 2 loads)
10/18/21	Removal, dethatching, debris disposal

<b>Table 1 (continued)</b>	
<b>Work Conducted</b>	
<b>Date</b>	<b>Task</b>
10/19/21	Removal, dethatching, debris disposal
10/20/21	Removal, dethatching, debris disposal
10/21/21	Removal, dethatching, debris disposal
10/28/21	Removal, dethatching, debris disposal
10/29/21	Removal, dethatching, debris disposal
11/2/21	Hauling
11/4/21	Brushing & hauling
11/8/22	Raking
11/10/21	Raking
11/11/21	Haul material to landfill
11/15/21	Raking
11/22/21	Haul material to landfill
12/7/21	Rake & landfill
12/8/21	Rake & landfill
12/11/21	Rake & landfill
12/20/21	Final hauling

**RESULTS**

Overall, the site is in good condition. Prior to cleanup, the entire area was dominated by a dense cover of non-native grasses and forbs. There was no evidence of recent dumping or other unauthorized activities on site during the cleanup effort but there was some scattered trash that had been present for some time.

The fence posts and signs are installed along the perimeter where there is not an adjacent fence for the Caltrans preserve area.

The vernal pools are present and in much the same disturbed condition as recorded in the 2003 Biological Technical Report for the Handler Otay Mesa Commercial Project. It was a dry season with little rainfall; therefore, more focused vernal pool data could not be collected this year (pools were dry). The pools have been dethatched and the non-native grasses removed so that they are in a better condition to hold and retain water in the next rainy season.

No additional remedial measures are recommended at this time.

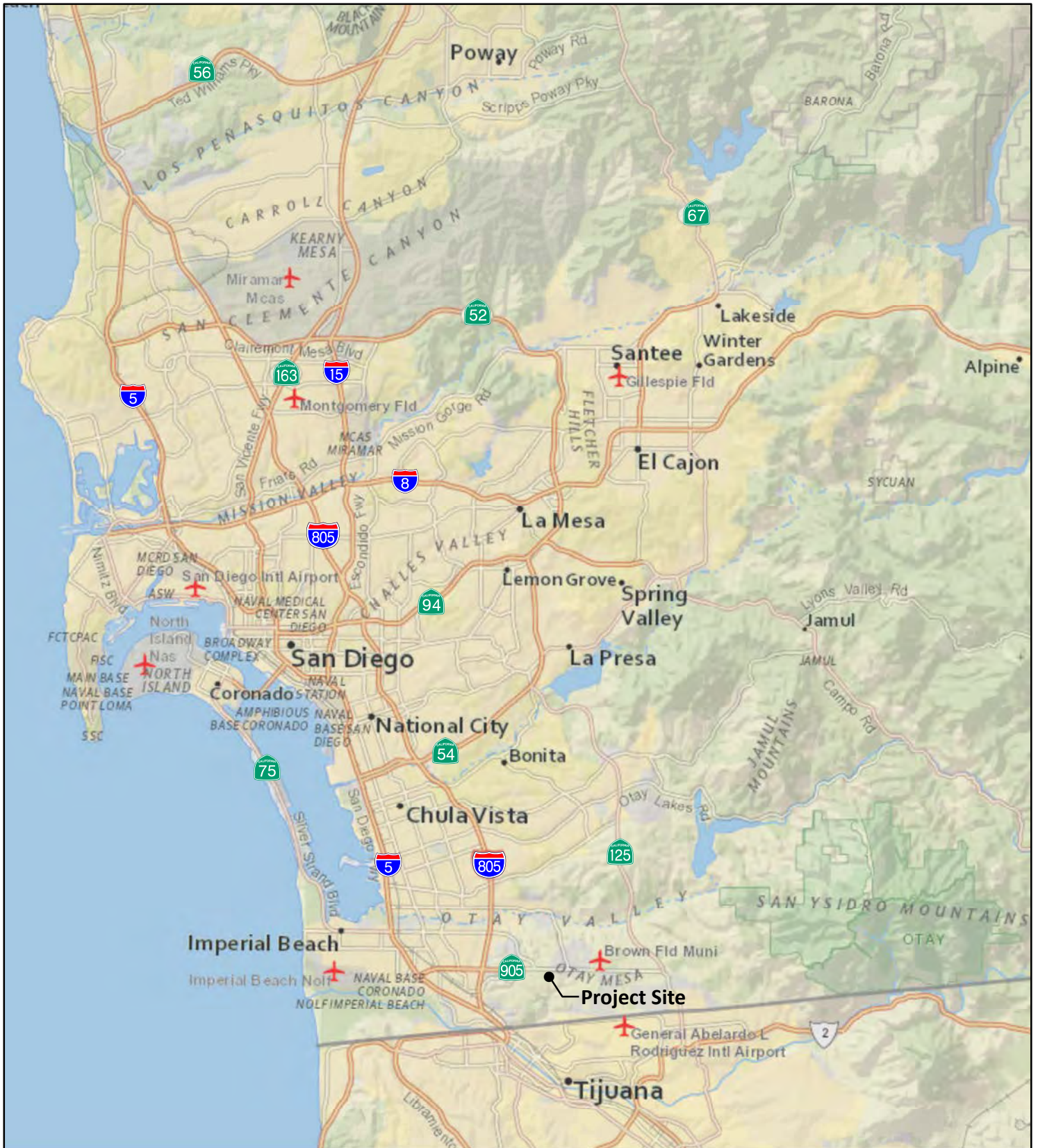
Please contact me if you have any questions regarding this letter.

Sincerely,



Greg Mason  
Senior Biologist

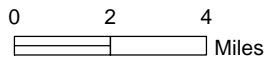
Attachments: Figure 1 - Regional Location  
Figure 2 - Project Location  
Figure 3 – Preserve Cleanup Area  
Representative Photographs



**Figure 1**

**Regional Location**

HANDLER PRESERVE CLEANUP EFFORT

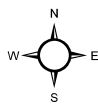




**Figure 2**

**Project Location**



HANDLER PRESERVE CLEANUP EFFORT



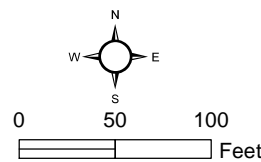
0 1,000 2,000  
Feet





-  Preserve Boundary
-  Photo Location

Aerial Photo: Nearmap 1/2/2022



**Figure 3**

**Preserve Cleanup Area**

HANDLER PRESERVE CLEANUP EFFORT



## Representative Photographs



Photo Point 1 - 8/24/21



Photo Point 2 – 8/24/21



Photo Point 4 – 8/24/21



Photo Point 5 – 8/24/21



Photo Point 6 – 8/24/21



Photo Point 8 – 8/24/21



Photo Point 9 – 8/24/21



Photo Point 10 – 8/24/21



Photo Point 11 – 8/24/21



Photo Point 1 - 9/28/21



Photo Point 3 – 9/28/21



Photo Point 7 – 9/23/21



Photo Point 15 – 9/28/21



Photo Point 16 – 9/28/21



Photo Point 9 – 9/30/21



Photo Point 7 – 10/7/21





Photo Point 8 – 10/7/21



Photo Point 2 – 11/4/21



Photo Point 3 – 11/4/21



Photo Point 14 – 11/11/21



Photo Point 13 – 12/7/21



Photo Point 12 – 12/11/21



Photo Point 1 – 12/20/21



Photo Point 2 – 12/20/21



Photo Point 17 – 12/20/21

