Devil's Gate Reservoir Restoration Project Fourth Quarter Compliance Report Activities Occurring Between October 2022 and December 2022

Submitted to:

Dr. David Lin California Dept. of Fish & Wildlife/R5 4665 Lampson Avenue, Suite C Los Alamitos, CA 90720

Prepared for:

Mitzi Kim Rios Los Angeles County Public Works Stormwater Engineering Division 900 S. Fremont Avenue Alhambra, CA 91803

Prepared by:

ECORP Consulting, Inc. 2861 Pullman Street Santa Ana, CA 92705

March 2023



CONTENTS

1.0	INTRO	DUCTION	1
	1.1	Purpose	
2.0		ED ACTIVITIES	
2.0	2.1	Biological Monitoring	
	_,,		
	2.2	Project Construction Activities	
	2.3	Habitat Restoration Activities	3
	2.4	Adaptive Management Activities	
3.0	SATISFA	ACTION OF ITP CONDITIONS	4
4.0	MITIGA	TION MONITORING AND REPORTING PROGRAM	4
LIST OF	TABLE	<u>s</u>	
Table 1	. Monito	ors Onsite During Work Days	2
Table 2	. Devil's	Gate Mitigation Monitoring and Reporting Program	5

LIST OF APPENDICES

Appendix A: Construction Monitoring Logs

Appendix B: Habitat Restoration Monitoring Logs

Appendix C: Adaptive Management Report for the Invasive Shot Hole Borer Tree Removal

Appendix D: City Protected Tree Survey - Addendum

LIST OF ACRONYMS AND ABBREVIATIONS

Term	Description
CDFW	California Department of Fish and Wildlife
CNDDB	California Natural Diversity Database
ESA	Environmentally Sensitive Area
ITP	Incidental Take Permit
LACFCD	Los Angeles County Flood Control District
LACPW	Los Angeles County Department of Public Works
MMRP	Mitigation Monitoring and Reporting Program
USFWS	U.S. Fish and Wildlife Service

1.0 INTRODUCTION

1.1 Purpose

This Quarterly Compliance Report was prepared to document the activities that occurred at the Devil's Gate Reservoir Restoration Project (Project) site located in the city of Pasadena, Los Angeles County, California during the fourth quarter of 2022 (October through December). This Quarterly Compliance Report satisfies Condition 6.7 in the Incidental Take Permit (ITP) No. 2081-2016-031-05 that was issued for the Project from the California Department of Fish and Wildlife (CDFW), dated July 16, 2018.

Condition 6.7 in the ITP states:

"The Designated Representative or Designated Biologist shall compile the observation and inspection records identified in Condition of Approval 6.6 into a Quarterly Compliance Report during time periods when Initial Sediment Removal and Habitat Restoration activities have occurred. Quarterly Compliance Reports and a copy of the MMRP table with notes showing the current implementation status of each mitigation measure shall be submitted to CDFW's Regional Representative and Headquarters CESA Program."

This is the seventeenth report (Quarterly Compliance Report Number 17) submitted in accordance with ITP Condition number 6.7. This report covers activities that were conducted at the Project site between October 1 and December 31, 2022.

2.0 COVERED ACTIVITIES

2.1 Biological Monitoring

Per Condition 6.6 in the ITP, "The Designated Biologist shall be on site daily when Covered Activities occur and when Covered Species are present, and weekly when Covered Species have potential to be present."

Per Condition 2.10a of the Streambed Alteration Agreement "...the Permittee shall have the Designated Biologist on site daily when protected species may be present to ensure that no impacts occur to protected species that are not authorized."

Per Conservation Measure 10 of the USFWS Informal Section 7 Consultation "If construction occurs between September 1 to March 14 (outside of the vireo breeding and nesting season), a designated construction monitor will conduct twice weekly inspections of the project site.

Daily monitoring of construction activities by a Designated Biologist occurred when ground-disturbing activities were taking place at the Project site. Daily monitoring of restoration activities was ongoing during the fourth quarter. Table 1 shows Project working dates and the biological monitors that were present on each date.

1

Date	Construction Monitors	Restoration Monitors
10/0/000		
10/3/2022	No Work	Michael Walsh, Josh Harris
10/4/2022	Jill Coumoutso*	Michael Walsh, Maddy Panzino
10/5/2022	Carla Marriner*	Alec Mang, Maddy Panzino
10/6/2022	Verity Richardson	Alec Mang, Josh Harris
10/7/2022	Eliza McLean	Alec Mang, Verity Richardson
10/10/2022	No Work – Indigenous Peoples' Day	Michael Walsh, Maddy Panzino
10/11/2022	Eliza McLean	Michael Walsh, Maddy Panzino
10/12/2022	Eliza McLean	Alec Mang, Verity Richardson
10/13/2022	Jill Coumoutso*	Alec Mang, Josh Harris
10/14/2022	Jill Coumoutso*	Alec Mang, Josh Harris
10/17/2022	Jill Coumoutso*	Dawn Garcia, Verity Richardson
10/18/2022	Jill Coumoutso*	Dawn Garcia, Maddy Panzino
10/19/2022	Eliza McLean	Alec Mang, Carter Warwick
10/20/2022	Carter Warwick	Alec Mang, Verity Richardson
10/21/2022	Carter Warwick	Alec Mang, Josh Harris
10/24/2022	Carter Warwick	Michael Walsh, Maddy Panzino
10/25/2022		Michael Walsh, Maddy Panzino
10/26/2022		Alec Mang, Carla Marriner
10/27/2022		Alec Mang, Carter Warwick
10/28/2022		Alec Mang, Carter Warwick
10/31/2022		Michael Walsh
11/1/2022		Michael Walsh, Carter Warwick
11/2/2022		Alec Mang, Eliza McLean
11/3/2022		Alec Mang, Carter Warwick
11/4/2022		Alec Mang, Carter Warwick
11/7/2022		Michael Walsh
11/8/2022		No Work due to weather
11/9/2022		Alec Mang, Carter Warwick
11/10/2022		Alec Mang, Josh Harris
11/11/2022		Alec Mang, Carter Warwick
11/14/2022		Michael Walsh, Eliza McLean
11/15/2022		Michael Walsh, Eliza McLean
11/16/2022		Alec Mang, Eliza McLean
11/17/2022		Alec Mang, Maddy Panzino
11/18/2022		Alec Mang, Carter Warwick
11/21/2022		Dawn Garcia, Maddy Panzino
11/22/2022		Dawn Garcia, Eliza McLean
11/23/2022		Alec Mang, Josh Harris
11/24/2022	No Construction Activities Occurred	No Work - Thanksgiving
11/25/2022		No Work - Day After Thanksgiving
11/28/2022		Michael Walsh, Carter Warwick
11/29/2022		Michael Walsh, Carla Marriner
11/30/2022		Alec Mang, Eliza McLean
12/1/2022	Ī	Alec Mang, Eliza McLean
12/2/2022	Ī	Alec Mang, Maddy Panzino
12/5/2022	Ţ	Michael Walsh, Verity Richardson
12/6/2022	Ī	Michael Walsh, Eliza McLean
12/7/2022	Ī	Carley Adams, Maddy Panzino
12/8/2022	ļ	Verity Richardson, Eliza McLean
12/9/2022	ļ	Carter Warwick, Maddy Panzino
12/12/2022	l l	Verity Richardson, Eliza McLean
12/13/2022		Carla Marriner, Eliza McLean

Table 1. Monitors Onsite During Work Days.							
Date	Construction Monitors	Restoration Monitors					
12/14/2022		Carley Adams, Eliza McLean					
12/15/2022		Maddy Panzino, Eliza McLean					
12/16/2022		Maddy Panzino, Eliza McLean					
12/19/2022		Alden Lovaas, Maddy Panzino					
12/20/2022		Alexandra Dorough, Eliza McLean					
12/21/2022		Maddy Panzino, Eliza McLean					
12/22/2022		Carla Marriner, Josh Harris					
12/23/2022		Eliza McLean, Josh Harris					
12/26/2022		No Work – Christmas Day					
12/27/2022		Carter Warwick, Eliza McLean					
12/28/2022		Alden Lovaas, Eliza McLean					
12/29/2022		Alden Lovaas, Josh Harris					
12/30/2022		Carter Warwick, Eliza McLean					

*LBV Designated Biologist

2.2 Project Construction Activities

The following Project construction activities were conducted onsite during this reporting period:

- Project construction activities in the form of annual maintenance activities including sediment hauling continued through October 24, 2022.
- Sediment Removal hauling activities included the loading of sediment within the Project site into bottom-dump haul trucks using excavators and front loaders.
- Small areas of emergent vegetation were cleared using bulldozers, skid steers and front loaders in preparation for hauling activities. All areas were surveyed prior to removal and all vegetation removal was within the Project boundaries and monitored by the Designated Biologist on site.

Construction monitoring logs from this quarter detailing daily activities are included in Appendix A.

2.3 Habitat Restoration Activities

The following habitat restoration activities were conducted onsite during this reporting period:

- Restoration activities continued from October 1, 2022 through December 31, 2022.
- Low-growing non-native plants including perennial pepperweed (*Lepidium latifolium*), black mustard (*Brassica nigra*), lamb's quarters (*Chenopodium album*), poison hemlock (*Conium maculatum*), brome grass (*Bromus* sp.), ripgut brome (*Bromus diandrus*), red-stemmed filaree (*Erodium cicutarium*), smilograss (*Piptatherum miliaceum*), sweet alyssum (*Lobularia maritima*), Bermuda grass (*Cynodon dactylon*), pokeberry (*Phytolacca americana*), tree tobacco (*Nicotiana glauca*), castor bean (*Ricinus communis*), Jerusalem thorn (*Parkinsonia acuelata*), redshank (*Persicaria maculosa*), corn (*Zea mays*), tomato (*Solanum lycopersicum*), Himalayan blackberry (*Rubus armeniacus*), dodder (*Cascuta* sp.), short podded mustard (*Hirschfeldia incana*), white horehound (*Marrubium vulgare*), and tree of heaven (*Alianthus altissima*), were removed from DG-

- 1, DG-W-1 (Johnson Field), DG-W-1, DG-W-2 Mining Pit and Mining Pit Outlet, DG-2, DG-2 New Channels, DG-2-WOUS, DG-2B, DG-3A, DG-4, DG-4A, DG-4B, DG-4-WOUS, DG-4 Drainage, DG-4 Sheetflow, DG-4C, DG-5 DG-EMA East Side, DG-EMA West Side, and Flint Wash Temporary Impact Area onsite restoration areas and the side slopes of the basin, by hand pulling, using hand tools (shovels, hoes, rakes and clippers) and using weed whackers and chainsaws on occasion. Pulled plants were removed from restoration sites daily and placed into onsite dumpsters that were emptied regularly.
- Native plants including dodder (Cascutta californica), annual burweed (Ambrosia acanthacarpa), horseweed (Erigeron canadensis), and rough cockleburr (Xanthium strumarium) were removed to reduce competition for nutrients and water for planted container plants.
- Collected and planted cuttings of mulefat [Baccharis salicifolia], and willow [Salix sp.] in basins in DG-2.
- Maintained and monitored irrigation system, and watered cuttings.

Habitat restoration monitoring logs for this quarter detailing daily activities are included in Appendix B.

2.4 Adaptive Management Activities

During the fourth quarter reporting period LACPW completed the removal of trees located within the mitigation areas that were identified as being infested with the invasive short hole borer (ISHB). The purpose of the removal of the trees infested with ISHB was to eliminate the beetle-infested material from the mitigation areas and to minimize the spread of this invasive beetle species. Only larger existing trees in the mitigation areas that were dead or in a condition unlikely to recover were removed and none of the container plants or stakes that were installed as part of the habitat restoration implementation effort were included in the removal effort as they did not show any signs of infestation. An Adaptive Management Report for the ISHB tree removal activities was prepared and is included in Appendix C. An addendum to the City Protected Tree Survey Report for the additional trees removed is included in Appendix D.

3.0 SATISFACTION OF ITP CONDITIONS

All provisions in the ITP were adhered to during Project activities conducted during this reporting period. No non-compliances were documented during this reported period. No direct or indirect take to listed species or Covered Species occurred during this reporting period. The next Quarterly Compliance Report will cover the next reporting period from January 1 to March 31, 2023.

4.0 MITIGATION MONITORING AND REPORTING PROGRAM

Per Condition 6.7 of the ITP, Table 2 presents the Mitigation Monitoring and Reporting Program table that was prepared for the Recirculated Portions of the Final Environmental Impact Report with notes showing the current implementation status of each mitigation measure.

MITIGATION MONITORING AND REPORTING PROGRAM Devil's Gate Reservoir Sediment Removal and Management Project							
	Monitoring			Level of Significance		Verification of C	Compliance
Mitigation Measure	Implementation Phase*	Phase*	Enforcement Agency	After Mitigation	Initial	Date	Remarks
BIOLOGICAL RESOURCES			T			144/00/40	To us it is
MM BIO – 1: A qualified biological monitor shall be present during initial ground- or vegetation-disturbing project-related activities to provide measures and monitor for wildlife in harm's way. This includes initial ground- or vegetation-disturbing project-related activities at the annual start of each year of sediment removal or maintenance activities. Following initial project-related activities, a qualified monitoring biologist shall be present as necessary to maintain the implemented protection measures and monitor for additional species in harm's way. These protection measures shall include, as appropriate: redirecting wildlife, identifying areas that may require exclusionary devices (e.g., fencing), or capturing and relocating wildlife outside the work area. Any captured species shall be relocated to adjacent appropriate habitat that is contiguous to adjacent habitat and not impacted by project-related disturbance activities.	Pre-Sediment Removal; Sediment Removal; Reservoir Management	Pre-Sediment Removal; Sediment Removal; Reservoir Management	Los Angeles County Flood Control District	Less than significant		11/28/18 - ongoing	A qualified biologist was present during all initial ground- or vegetation-disturbing construction relate activities occurred during the 2022 fourth quarter reporting period. A qualified biologist continued to be present durin restoration activities requirin vegetation removal during the 2022 fourth quarter reporting period. See Table 1 for detail
MM BIO – 2: Within 90 days prior to ground-disturbing activities, a sensitive species educational briefing shall be conducted by a qualified biologist for construction personnel. The biologist will identify all sensitive resources that may be encountered onsite, and construction personnel will be instructed to avoid and report any sightings of sensitive species to the Los Angeles County Flood Control District (LACFCD) or the monitoring biologist. Educational briefings shall be repeated annually for the duration of the sediment removal.	Final Plans and Specifications; Pre-Sediment Removal; Sediment Removal; Reservoir Management	Pre-Sediment Removal; Sediment Removal; Reservoir Management	Los Angeles County Flood Control District	Less than significant		11/28/18 - ongoing	An initial training was conducted on the first day of construction (Nov 28, 2018). Additional trainings were provided on an as-needed basis to new project personr afterwards during the 2022 fourth quarter reporting perio
MM BIO – 3: Within 90 days prior to ground-disturbing activities, a preconstruction survey shall be conducted by a qualified biologist for the presence of any sensitive species in harm's way, including coast range newt, southwestern pond turtle, and two-striped garter snake. If sensitive species are observed in harm's way, the qualified biologist will develop and implement appropriate protection measures for that species. These protection measures shall include, as appropriate: redirecting the species, constructing exclusionary devices (e.g., fencing), or capturing and relocating wildlife outside the work area. Preconstruction surveys shall be repeated annually for the duration of the sediment removal. Observations of special status species made during these surveys shall be recorded onto a California Natural Diversity Database (CNDDB) field data sheet and submitted to CDFW for inclusion into the CNDDB.	Pre-Sediment Removal; Sediment Removal; Reservoir Management	Pre-Sediment Removal; Sediment Removal; Reservoir Management	Los Angeles County Flood Control District	Less than significant		11/01/18 - 11/27/18, 3/15/19 - 4/14/19, 3/1/20 - 5/19/20, 3/17/21-3/26/21 07/19/22-07/28/22	Breeding season surveys for least Bell's vireo were completed in the third quarter reporting period. Preconstruction surveys for sensitive species ahead of annual maintenance activitie were conducted by qualified biologists on July 19, 25, 26, and 28 2022. No preconstruction surveys took place during the fourth quart of 2022.
MM BIO – 4: LACFCD, in consultation with a qualified biologist, will employ bird exclusionary measures (e.g., mylar flagging) prior to the start of bird breeding season to prevent birds nesting within established boundaries of the project. Prior to commencement of sediment removal activities within bird breeding season (March 1-August 31), a preconstruction bird nesting survey shall be conducted by a qualified biologist for the presence of any nesting bird within 300 feet of the construction work area. The surveys shall be conducted 30 days prior to the disturbance of suitable nesting habitat by a qualified biologist with experience in conducting nesting bird surveys. The surveys shall continue on a weekly basis with the last survey being conducted no more than three days prior to the initiation of clearance/construction work. Preconstruction surveys shall be repeated annually for the duration of the sediment removal. If an active nest is found, the qualified biologist will develop and implement appropriate protection measures for that nest. These protection measures shall include, as appropriate, construction of exclusionary devices (e.g., netting) or avoidance buffers. The biologist shall have the discretion to adjust the buffer area as appropriate based on the proposed construction activity, the bird species involved, and the status of the nest and nesting activity; but shall be no less than 30 feet. Work in the buffer area can	Final Plans and Specifications; Pre- Sediment Removal; Sediment Removal; Reservoir Management	Pre-Sediment Removal; Sediment Removal; Reservoir Management	Los Angeles County Flood Control District	Less than significant		3/15/19 - 4/14/19, 3/16/20 - 5/19/20 3/1/21-4/16/21 7/28/22-8/30/22	Preconstruction surveys for nesting birds were complete during the third quarter of 2022. Active bird nests within 500 feet of the Project site were documented and appropriate no-work buffers were established. Designate Biologists monitored Project construction and restoration activities daily during the nesting season. The fourth quarter reporting period is outside of the nesting bird season.

5

March 2023 2017-116.006

Table 2. Devil's Gate Mitigation Monitoring and Reporting Program	MITIGATION MO	DNITORING AND REPORTING	G PROGRAM				
Devil's Gate Reservoir Sediment Removal and Management Project							
Mitigation Measure	Implementation Phase*	Monitoring Phase*	Enforcement Agency	Level of Significance After Mitigation	Verification of 0	Compliance Remarks	
resume once the nest is determined to be inactive by the monitoring biologist.		111.000		7 to: mga.to.	miliar Bato	Romano	
resume once the nest is determined to be inactive by the monitoring biologist. MM BIO – 5: Within 30 days prior to commencement of vegetation or structure removal activities, a preconstruction bat survey shall be conducted by a qualified biologist for the presence of any roosting bats. Acoustic recognition technology shall be used if feasible and appropriate. If either a bat maternity roost or hibernacula (structures used by bats for hibernation) are present, a qualified biologist will develop and implement appropriate protection measures for that maternity roost or hibernacula. These protection measures shall include, as appropriate: safely evicting non-breeding bat hibernacula, establishment of avoidance buffers, or replacement of roosts at a suitable location. These measures shall also include as appropriate: • To the extent feasible, trees that have been identified as roosting sites shall be removed or relocated between October 1 and February 28. • When trees must be removed during the maternity roost season (March 1 to September 30), a qualified bat specialist shall conduct a preconstruction survey to identify those trees proposed for disturbance that could provide hibernacula or nursery colony roosting habitat for bats. • Trees identified as potentially supporting an active nursery roost shall be inspected by a qualified biologist no greater than seven days prior to tree disturbance to determine presence or absence of roosting bats. • Trees determined to support active maternity roosts will be left in place until the end of the maternity season (September 30). • If bats are not detected in a tree, but the qualified biologist determined that roosting bats may still be present, trees shall be removed as follows: • Pushing the tree down with heavy machinery instead of felling the tree with a chainsaw. • First pushing the tree down with heavy machinery instead of felling the tree with a chainsaw. • First pushing the tree of read to remain in place for 24 to 48 hours until inspected by the qualified b	Final Plans and Specifications; Pre- Sediment Removal; Sediment Removal; Reservoir Management	Pre-Sediment Removal; Sediment Removal; Reservoir Management	Los Angeles County Flood Control District	Less than significant	11/06/18 – 11/08/18 10/05/23-10/10/23	Preconstruction bat surveys were conducted prior to the initiation of project activities the fourth quarter of 2018. Additional preconstruction is surveys were conducted ahead of ISHB tree remova activities during the 2022 fourth quarter reporting per The report for these survey included as an attachment of Appendix C.	
prepare a summary report for LACFCD. MM BIO – 6: Riversidean Alluvial Fan Sage Scrub habitat shall be restored and/or enhanced at a 1:1 ratio by acreage. LACFCD, with the help of professional restoration ecologists, will develop the means and methods of successful restoration and enhancement of this sensitive habitat. Measures to achieve not less than a 1:1 replacement, or no net loss, of Riversidean Alluvial Fan Sage Scrub shall include but not be limited to the following: • Conduct a vegetation survey within the impact area prior to commencement of vegetation removal activities to verify the impact acreage of Riversidean Alluvial Fan Sage Scrub. • Identify and map the selected mitigation areas where Riversidean Alluvial Fan Sage Scrub will be enhanced or restored using aerial photographs. Priority for mitigation site locations shall be onsite, offsite within Arroyo Seco subwatershed, and offsite within the greater Los Angeles River watershed. • Select offsite reference sites where Riversidean Alluvial Fan Sage Scrub is the established plant community. The reference sites where Riversidean Alluvial Fan Sage Scrub is the established plant community. The reference sites will be used to establish the necessary performance standards to which the mitigation site will be measured. Performance standard parameters will include percent cover of native plant species, percent cover of nonnative and invasive plant species, and native plant species richness (number of different plant species). • Prepare and implement a site-specific Habitat Restoration Plan that will result in the successful restoration and enhancement at the selected mitigation sites. The Habitat Restoration Plan, at a minimum, shall include guidelines and specifications for the following: • Site-specific container plant (if applicable) and seed palettes, • Irrigation plan,	Reservoir Management Prepare Habitat Restoration Plan Identify/Map Mitigation Sites Install Plant Materials Monitor Installation Install Irrigation, if Necessary Prepare As-Built Report Conduct Maintenance Prepare Monitoring Reports	Reservoir Management Identify Reference Sites Conduct Qualitative and Quantitative Monitoring Conduct Maintenance Implement Adaptive Management Measures, if Necessary Prepare Monitoring Reports Prepare Annual Reports Achieve Mitigation Site Sign- Off	Los Angeles County Flood Control District	Less than significant	11/19/18 - ongoing	Restoration activities were continued during the 2022 fourth quarter reporting per	

able 2. Devil's Gate Mitigation Monitoring and Reporting Program	MITIGATION MO	ONITORING AND REPORTING	PROGRAM					
		ir Sediment Removal and Mar						
Mitigation Measure		Monitoring	Enforcement Agency	Level of Significance		Verification of	mpliance	
witigation weasure	Implementation Phase*	Phase*	Enforcement Agency	After Mitigation	Initial	Date	Remarks	
 Nonnative and invasive plant species removal, 								
 Maintenance and monitoring schedule, 								
 Qualitative and quantitative monitoring methodologies, 								
 Selection criteria of reference sites, 								
 Performance standards of the mitigation sites, 								
 Monitoring reports and annual reports schedule, 								
Mitigation long-term management plan, and								
o Funding description for implementation and long-term management.								
Prepare an as-built plan after the installation of the plant and seed materials has been completed								
to document the acreage of each restored or enhanced plant community on the mitigation sites								
and to show that not less than a 1:1 replacement of sensitive habitats has been achieved.								
Quantitatively monitor the mitigation sites until the performance standards have been met and								
restoration and enhancement of not less than 1:1 replacement of Riversidean Alluvial Fan Sage Scrub has been achieved.								
Implement adaptive management measures if, during monitoring, the mitigation sites do not								
demonstrate measurable progress toward achieving the necessary performance standards or if								
unforeseen circumstances damage the mitigation sites. Adaptive management measures will								
include but not be limited to:								
o Correctively re-grade areas if hydrologic or other conditions negatively affect the mitigation								
sites,								
 Add soil amendments if problem soils may be inhibiting plant growth, Replant if plant survival is low or to increase plant species cover or diversity, 								
o Install different plant species for plant species that are not surviving, and								
o Close trails or install barriers if human-caused impacts are damaging the mitigation sites.								
 Implement and monitor the required mitigation at alternative sites, chosen based on same priority 								
methodology, if the mitigation sites do not achieve the performance standards after the								
implementation of adaptive management measures. LACFCD shall conduct qualitative and								
annual quantitative monitoring and prepare annual monitoring reports until the established								
performance standards are achieved.								
Ensure the allocation and encumbrance of the funding necessary to implement the Habitat								
Restoration Plan, adaptive management measures, alternative mitigation sites (if necessary),								
and long-term management and protection of the mitigation sites.	Des Carlles and Damas and	Due Coding out Downson	Landan Amerika Carreta Florid			10/02/2010	D	
IM BIO – 7: Within 90 days prior to ground-disturbing activities, a qualified biologist shall conduct a tree urvey within the project footprint to identify native city- protected trees that would be removed or	Pre-Sediment Removal; Sediment Removal;	Pre-Sediment Removal; Sediment Removal;	Los Angeles County Flood Control District	Less than significant		10/02/2018 – 10/05/2018	were conducted prior to the	
otentially affected by the Proposed Project, native city-protected trees that would be removed or	Reservoir Management	Reservoir Management	Control District			10/03/2016	initiation of project activition	
ity-protected trees that will require root zone protection. LACFCD would replace native city-protected trees	Reservoir ividinagement	reservoir iviariagement					the fourth quarter of 2018	
nat cannot be avoided. The replacement is expected to be at a 1:1 ratio by canopy acreage. The biological	Conduct Tree Survey	Identify Reference Sites					surveys related to this	
nonitor shall implement measures to protect the root zone of oak trees that may be impacted immediately	 Identify and Protect Oak 	Conduct Qualitative and					measure were required d	
djacent to the project site and along access roads. The acreage occupied by the canopies of the native	Tree Root Zones	Quantitative Monitoring					the 2022 fourth quarter	
ity-protected trees to be removed will determine the appropriate level of tree replacement. LACFCD shall	 Identify/Map Mitigation 	 Conduct Maintenance 					reporting period. Restorat	
dentify tree replacement areas that are no less than the acreage of the native city-protected tree canopies	Sites	Implement Adaptive					activities were continued	
be removed. Priority for tree replacement locations shall be onsite, offsite within Arroyo Seco	Prepare Habitat Restoration	Management Measures, if					during the 2022 fourth qu	
ubwatershed, and offsite within the greater Los Angeles River watershed. The number of replacement	Plan	Necessary • Prepare Monitoring Reports					reporting period. An	
rees installed by LACFCD will be greater than the number of trees to be removed should the replacement ree be smaller and younger than the tree to be removed. LACFCD shall monitor the survival of the	Install Plant MaterialsMonitor Installation	Prepare Monitoring ReportsPrepare Annual Reports					addendum to the City- Protected tree survey rep	
ee be smaller and younger than the tree to be removed. LACFOD shall monitor the survival of the eplacement trees for five years and replace those that do not survive within the monitoring period,	Install Irrigation, if Necessary	Achieve Mitigation Site Sign-Off					was prepared to account	
nsuring that not less than 1:1 ratio of replacement, or no net loss, has been achieved.	Prepare As-Built Report	January and Sagar One					additional trees removed	
	Conduct Maintenance						during the ISHB tree removed	
	Prepare Monitoring Reports						activities. This report is	
							included in Appendix D.	

Table 2. Devil's Gate Mitigation Monitoring and Reporting Program MITIGATION MONITORING AND REPORTING PROGRAM Devil's Gate Reservoir Sediment Removal and Management Project Level of Significance Verification of Compliance Monitoring Mitigation Measure Implementation Phase* **Enforcement Agency** Phase* After Mitigation Date Remarks Initial o Replant if plant survival is low or to increase plant species cover or diversity, Install different plant species for plant species that are not surviving, and Close trails or install barriers if human-caused impacts are damaging the mitigation sites. Implement and monitor the required mitigation at alternative sites if the mitigation sites do not achieve the performance standards after the implementation of adaptive management measures. LACFCD shall conduct qualitative and annual quantitative monitoring and prepare annual monitoring reports until the established performance standards are achieved. Ensure the allocation and encumbrance of the funding necessary to implement the Habitat Restoration Plan, adaptive management measures, alternative mitigation sites (if necessary), and long-term management and protection of the mitigation sites. Submit a report of the monitoring results annually following implementation of the restoration and enhancement activities at the mitigation sites, to resource agencies as required by the Section 401 Certification, Section 404 permit, and a Streambed Alteration Agreement until the mitigation sites

have met the performance standards.

^{*}The Implementation and Monitoring phases are broken down into four categories: Final Plans and Specifications; Pre- Sediment Removal; and Reservoir Management. "Final Plans and Specifications" indicates that the mitigation measure must be incorporated into the final approved design, plans, and specifications for the project. "Pre- Sediment Removal" refers to all aspects of the Sediment Removal phase. "Reservoir Management" refers to all aspects of the Reservoir Management phase.

LIST OF APPENDICES

Appendix A: Construction Monitoring Logs

Appendix B: Habitat Restoration Monitoring Logs

Appendix C: Adaptive Management Report for the Invasive Shot Hole Borer Tree Removal

Appendix D: City Protected Tree Survey - Addendum

APPENDIX A

Construction Monitoring Logs

Devil's Gate Biological Monitoring Log Biologist/Monitor: Jill Coumoutso Date of Log: October 4, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	07:00	64 °F	0-3 MPH	0 %
End of Day	15:00	85 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Construction Monitoring

•			A	
(:On	etru	iction	Activ	/ItV

Loading sediment into dump trucks for us removal from site. Skip loader, excavator, three bulldozers, water truck and dump trucks.

dump trucks.
Did you observe any special-status species? ☐ Yes ☑ No
Were any least Bell's Vireo detected? □ Yes ☑ No
List of species observed while monitoring: NUWO, RTHA, BEWR, CASJ, ACWO, CAQU, WCSP, BUSH, CALT, SPTO, CORA, California Ground squirrel, Western whiptail
Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No
Lan Forting

Log Entry

Sediment being removed from two large dirt piles. Skiploader loading into dump trucks at southern most pile, and excavator loading from larger northern most dirt pile.

Additional Comments

N/A

Signature

fill Curwents



Loading_sediment_into_dump_truck_faceSW.jpg -118.17223411944445 34.191866149999996



Excavator_loading_sediment_into_truck_faceW.jpg -118.17196439722223 34.19232729444444



Bulldozer_compling_dirt_for_excavator_faceNW.jpg -118.17224363888889 34.19201742777778



Bulldozer_creating_dirt_mound_for_removal_faceSW.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carla Marriner

Company: ECORP Date of Log: October 5, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	59 °F	0-3 MPH	30 %
End of Day	15:05	86 °F	0-3 MPH	10 %

What Type of Monitoring is Being Conducted?

Construction Monitoring

Construction Activity:

- 1. Piling up & hauling dirt.
- 2. Three dozers: two D8 and one D7; one front loader/excavator; two water trucks; 5-10 dump trucks
- 3. Los Angeles (LA) County Public works PM; operators

Did v	vou observe	any special-stat	us species?	Yes ☑	No
-------	-------------	------------------	-------------	--------------	----

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

BUSH, HOFI, CASJ, SOSP, Coyote, CORA, NUWO, CALT, BEWR, NOMO, MODO, SPTO, ANHU, AMKR, BLPH, LEGO, KILL, RTHA, Western fence lizard, Side blotched lizard, Coastal whiptail

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0630: Arrived onsite & talked to one of the operators. Work will primarily occur within the northern and middle portions of the reservoir.

1500: Ground disturbance/soil removal activities ended for the day.

Additional Comments

N/A

Signature



Sediment_removal_activities_within_basin_facingSW.jpg -118.17153780555556 34.192615527777775



Front_loader_loading_dumptrucks_facingSE.jpg -118.17228162500001 34.192951055555554



D8_at_northern_end_FacingW.jpg -118.1710683 34.19475872222222



soilpiles_equipmemt_northernportion_facingN.jpg -118.17248735277778 34.19200309166666

Devil's Gate Biological Monitoring Log Biologist/Monitor: Verity Richardson

Company: ECORP
Date of Log: October 6, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	63 °F	0-3 MPH	100 %
End of Day	15:10	82 °F	4-6 MPH	40 %

What Type of Monitoring is Being Conducted?

Construction Monitoring

Construction Activity:

- 1. Loading and hauling dirt.
- 2. One excavator, track tracked dozers, one front loader, one skid steer, two water trucks, one road cleaner, 25 haulage trucks (dump trucks)
- 3. Los Angeles County Public Works (LACPW)

Did you observe any special-status species? ☐ Yes ☑ No	
Were any least Bell's Vireo detected? □ Yes ☑ No	

List of species observed while monitoring:

ACWO, CASJ, SOSP, CORA, Amazona sp., KILL, CALT, GBHE, MODO, RTHA, NUWO, COHA, coastal whiptail, California ground squirrel, common side blotched lizard, monarch butterfly, cabbage white butterfly, Coyote, western honey bee

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Loa Entry

- 0630: Arrived on site combination lock not part of link.
- 0700: Conducted pre-works construction sweep.
- 0720: Monitored crew moving dirt into piles at northern end of site.
- 0845: Swept main entrance road to check for wildlife activity on road and in vicinity.
- 0920: Swept main exit road to check for wildlife activity on road and in vicinity.
- 0945: Monitoring loading and hauling activities.
- 1125: Swept main exit road to check for wildlife activity on road and in vicinity.
- 1155: Swept main entrance road to check for wildlife activity on road and in vicinity.
- 1220: Monitored ground disturbance activities.
- 1352: Observed coastal whiptail.
- 1415: Swept main exit road to check for wildlife activity on road and in vicinity.
- 1445: Swept main entrance road to check for wildlife activity on road and in vicinity.
- 1510: End of monitoring.

Additional Comments

N/A

Signature





TrackedDozer_Excavator_GradingNend_facingN_100622.jpg -118.17198975000001 34.19253752777777



ExcavatorLoadingHaulageTruck_facingN_100622.jpg -118.17226467500001 34.19269905555555



HaulingDirt_Grading_spraying_facingN_100622.jpg -118.17220898611112 34.192643472222215



LoadingHaulageTrucks_facingE_100622.jpg -118.17259672222222 34.192787055555556

Devil's Gate Biological Monitoring Log Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: October 7, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:45	61 °F	0-3 MPH	100 %
End of Day	15:00	87 °F	4-6 MPH	20 %

What Type of Monitoring is Being Conducted?

Construction Monitoring

Cons	truct	ion A	ctiv	ity:

- 1. Sediment removal, grading.
- 2. Four dozers, one excavator, two water trucks.
- 3. Operators from Public Works.

Did you observe any special-status species? ☐ Ye	es ⊻	No
--	------	----

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

CALT, RCPA, CORA, WCSP, SAVS, CASJ, CAKI, MODO, SOSP, YRWA, BUSH, OATI, BEWR, DOWO, common side-blotched lizard, California ground squirrel, western tiger swallowtail

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0645: Arrived on site.

0710: Crew headed into reservoir.

0710-1500: Monitored sediment removal and grading.

1500: Crew finished work for the day. Left site.

Additional Comments

N/A

Signature

Elza Medern



Dozer_loading_sediment_facingNW.jpg -118.17239011111111 34.19188686111111



Excavator_loading_sediment_facingNW.jpg -118.17199530555555 34.19228372222222



Grading_facingSW.jpg -118.170887425 34.19381411111111



Mid_reservoir_end_of_day_facingNW.jpg -118.17174320555556 34.19234049999999

Devil's Gate Biological Monitoring Log Biologist/Monitor: Eliza McLean

Company: ECORP
Date of Log: October 11, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:45	63 °F	0-3 MPH	100 %
End of Day	15:00	76 °F	4-6 MPH	75 %

What Type of Monitoring is Being Conducted?

Construction Monitoring

Construction Activity:

- 1. Sediment removal, grading
- 2. 3 dozers, 1 frontloader, 1 excavator, 1 water truck
- 3. ISCO and Public Works operators

Did y	ou observe	any s	pecial-status	species? □	Yes ☑	No
-------	------------	-------	---------------	------------	--------------	----

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

CALT, RCPA, WCSP, CASJ, WEME, BUSH, YRWA, California ground squirrel, common side-blotched lizard

Did You Observe any Non-Compliance Issues? \square Yes \boxdot No

Log Entry

0645: Arrived on site.

0705: Crew headed into reservoir.

0705-1500: Monitored sediment removal.

1500: Crew finished work for the day. Left site.

Additional Comments

N/A

Signature

(Mg 72) sen



Grading_N_Reservoir_facingNW.jpg -118.17081741666667 34.19403886111111



Sediment_removal_facingSE.jpg -118.17216872222222 34.19347025



Sediment_removal_facingE.jpg -118.17241015277779 34.192870013888886



Mid_reservoir_end_of_day_facingSW.jpg -118.17075613055556 34.19409308333333

Devil's Gate Biological Monitoring Log Biologist/Monitor: Eliza McLean

Company: ECORP
Date of Log: October 12, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:45	65 °F	0-3 MPH	25 %
End of Day	15:00	80 °F	7-9 MPH	35 %

What Type of Monitoring is Being Conducted?

Construction Monitoring

Construction Activity:

- 1. Sediment removal, grading
- 2. Dozers, front loader, excavator, water truck
- 3. ISCO and Public Works operators

Did v	vou observe	any special-stat	us species?	Yes ☑	No
-------	-------------	------------------	-------------	--------------	----

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

RCPA, CALT, CASJ, WCSP, HOFI, BUSH, YRWA, AMRO, CORA, RTHA, California ground squirrel, common side-blotched lizard

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0645: Arrived on site.

0705: Crew headed into reservoir.

0705-1500: Monitored sediment removal and grading.

1500: Crew finished work for the day. Left site.

Additional Comments

N/A

Signature

Clipa The Jan



Grading_facingW.jpg -118.17082275 34.19400283333333



Sediment_removal_facingSE.jpg



Piling_sediment_facingE.jpg



Mid_reservoir_end_of_day_facingNW.jpg -118.17163255555556 34.19246208333333

Devil's Gate Biological Monitoring Log Biologist/Monitor: Jill Coumoutso

Company: ECORP
Date of Log: October 13, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	07:00	64 °F	0-3 MPH	100 %
End of Day	15:00	75 °F	0-3 MPH	25 %

What Type of Monitoring is Being Conducted?

Construction Monitoring

	ucti		

Compile sediment into mounds for removal from site. One excavator, two bulldozers, two skip loaders, water truck, dump trucks, one grader

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

CALT, ACWO, NOFL, CAQU, CASJ, HOFI, NOMO, BUSH, CORA, RTHA, WCSP, BEWR, MODO, OATI, KILL, RCPA, California ground squirrel, Side-blotched lizard

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

Excavator and skid loader collecting sediment from one pile and loading up dump trucks for removal from site. Grader and bulldozers grading and compiling sediment into two piles.

Additional Comments

N/A

Signature

All Ches



Excavator_loading_sediment_into_dumptruck_faceW.jpg -118.17152056944445 34.19265958333333



Grading_compiling_sediment_faceW.jpg -118.17146381944445 34.19302983333333



Skiploader_loading_dumptruck_faceS.jpg -118.17153280000001 34.19300415

Devil's Gate Biological Monitoring Log Biologist/Monitor: Jill Coumoutso

Company: ECORP Date of Log: October 14, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:45	63 °F	0-3 MPH	100 %
End of Day	15:00	75 °F	0-3 MPH	25 %

What Type of Monitoring is Being Conducted?

Construction Monitoring

Co	nstr	uctio	n A	ctiv	itv:
~		actio	, ,		,

Grading and compiling sediment into mounds for removal. Two bulldozers, two skip loaders, excavator, water truck, dump trucks

Did you observe any special-status species? □ Yes ☑ No

List of species observed while monitoring:

Were any least Bell's Vireo detected? ☐ Yes ☑ No

BEWR, CORA, WCSP, AMCR, RSHA, KILL, COYE, BGGN, CASJ, ACWO, CALT, BUSH, CAQU, Desert cottontail, Western whiptail (2), Side blotched lizard

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

Working from three sediment piles. Excavator collecting from one pile and skip loaders collecting from other two piles.

Additional Comments

N/A

Signature

fle (ozes



Excavator_filling_truck_with_sediment_facingW.jpg -118.1715235 34.19245330555555



Dump_trucks_lining_up_to_collect_sediment_facingS.jpg -118.17227597222222 34.19205647222222



Bulldozer_grading_compile_sediment_facingNW.jpg -118.17165631666667 34.192414674999995



Skiploader_filling_dump_truck_facingN.jpg -118.17131035 34.19305130555555

Devil's Gate Biological Monitoring Log Biologist/Monitor: Jill Coumoutso

Company: ECORP
Date of Log: October 17, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	07:00	68 °F	0-3 MPH	0 %
End of Day	15:00	81 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Construction Monitoring

Construction Activity: Grading taking place two bulldozers, one skid steer, one skip loader, one grader, water truck
Did you observe any special-status species? □ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

SOSP, CALT, WCSP, CASJ, NOFL, BEWR, YRWA, HOFI, BGGN, BLPH, CATH, NOMO, RTHA, OATI, CORA, RCPA, Side-blotched lizard

Did You Observe any Non-Compliance Issues? \square Yes \boxdot No

Log Entry

Two Bulldozers grading on site, one on North end and one on south end. Starting to compile sediment into pile on north end. Grader and skid steer both grading, skip loader moving boulders

Additional Comments

N/A

Signature

Ew Com



Bulldozer_grading_faceS.jpg -118.17277550833334 34.191088602777775



Bulldozer_grading_faceN.jpg -118.17149939722222 34.19301925



Skid_steer_grading_faceNW.jpg -118.17071959444445 34.19407168055555



Compile_sediment_faceN.jpg -118.171371166666667 34.193304472222216

Devil's Gate Biological Monitoring Log Biologist/Monitor: Jill Coumoutso Company: ECORP

Date of Log: October 18, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:45	63 °F	0-3 MPH	0 %
End of Day	15:00	88 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Construction Monitoring

Construction Activity:
Grading, compile sediment, creating ramp. Three bulldozers, two skip loaders, one grader, two water trucks.
Did you observe any special-status species? □ Yes ☑ No
Were any least Bell's Vireo detected? □ Yes ☑ No
List of species observed while monitoring:
CALT, CORA, WCSP, HOFI, AMKE, AMCR, RSHA, BEWR, CASJ, BGGN, OATI, Side-blotched lizard, Californi ground squirrel
Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No
Log Entry

Grading, sediment compiling and removal, ramp was created near North end.

Additional Comments

N/A

Signature

Sw Cers



Bulldozer_creating_ramp_facingSW.jpg -118.17085075 34.19384097222222



Skiploader_loading_sediment_into_truck_facingS.jpg -118.17252598611111 34.19160016666666



Bulldozer_grading_facingSE.jpg -118.17320911111112 34.191500766666664



Ramp_created_in_hillside_facingW.jpg -118.17152009722223 34.19265483333333

Devil's Gate Biological Monitoring Log Biologist/Monitor: Eliza McLean

Company: ECORP
Date of Log: October 19, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:45	71 °F	0-3 MPH	0 %
End of Day	15:00	91 °F	4-6 MPH	5 %

What Type of Monitoring is Being Conducted?

Construction Monitoring

Construction Activity:

- 1. Sediment removal.
- 2. Two dozers, one front loader, one motor grader, one excavator, two water truck
- 3. Isco and Public Works operators.

Did you observe	any special-status	species? □	Yes ☑	No
-----------------	--------------------	------------	--------------	----

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

CALT, RCPA, CORA, BLPH, WCSP, YRWA, MODO, HOFI, CASJ, California ground squirrel, common side-blotched lizard, Western toad

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0645: Arrived on site.

0705: Crew headed into reservoir.

0705-1500: Monitored sediment removal.

1500: Crew finished work for the day. Left site.

Additional Comments

N/A

Signature

Close M



Piling_sediment_facingNW.jpg -118.17216409722222 34.19213669444444



Piling_sediment_facingSW.jpg -118.17253661111111 34.191604972222216



Grading_facingE.jpg -118.1722506 34.1930183333333



Mid_reservoir_end_of_day_facingS.jpg -118.17075071111111 34.19408030555555

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carter Warwick

Company: ECORP
Date of Log: October 20, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:40	68 °F	0-3 MPH	15 %
End of Day	15:00	88 °F	4-6 MPH	10 %

What Type of Monitoring is Being Conducted?

Construction Monitoring

Con	stru	ıction	Acti	vity	

Sediment removal, grading, and construction of north access road. Two dozers, two haul trucks, one loader, two water trucks.

Did you observe any special-status species? □ Yes ☑ No
Were any least Bell's Vireo detected? □ Yes ☑ No
List of species observed while monitoring: AMCR, HOFI, CASJ, KILL, BUSH, WCSP, MODO, CAKI, Amazona spp, coyote, fence lizard, whiptail
Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

- 0640: On site.
- 0705: Roads and work area clear.
- 0710: Equipment moving. Two dozers. one moving material near East drainage channel. One pushing sediment on

North side.

- 0730: Loader and haul truck enter site.
- 0750: Blade and bobcat grading equipment storage area and access road.
- 0830: Complete road check. Sediment loaded into haul trucks and taken to North access road.
- 0900: Dozer grading East edge of basin, up against East EMA slope. Monitored to keep work in project area.
- 1000: Continuing to haul sediment to North access road.
- 1030: Compacting slope at North access road.
- 1115: Complete road check.
- 1130: Lunch.
- 1215: Grading sediment near new North access road with dozers.
- 1445: End work, equipment headed back to storage area.

Additional Comments

N/A

()



North_access_road_facingSW.jpg



Loading_haul_trucks_facingNW.jpg



Compacting_north_access_road_facingSW.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carter Warwick

Company: ECORP
Date of Log: October 21, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:45	61 °F	0-3 MPH	0 %
End of Day	15:00	80 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Construction Monitoring

Construction	Activity:
--------------	-----------

Two dozers, two loaders, two work trucks, two water trucks. Grading sediment on North side.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

Amazona spp., AMCR, WCSP, BUSH, KILL, CATO, CASJ, BEWR, MODO, cottontail, fence lizard, whiptail

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

- 0645: On site.
- 0705: Road check complete. Work area clear.
- 0715: Equipment moving. Two dozers pushing sediment on North side by new access road.
- 0800: Exit roads clear.
- 0835: Loader picking rocks from East slope up against EMA area. Monitored to keep work in appropriate boundary.
- 0900: Rocks being moved to North edge to outline mound supporting a telephone pole in the work area.
- 1030: Road check complete.
- 1130: Crew takes lunch.
- 1245: Road check complete. Dozers continue to grade sediment on North side.
- 1445: Equipment moving back to storage area. End work.

Additional Comments

N/A



Dozers_grading_facingNE.jpg



Loader_picking_rocks_facingSW.jpg



Devil's Gate Biological Monitoring Log Biologist/Monitor: Carter Warwick

Company: ECORP Date of Log: October 24, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:45	52 °F	0-3 MPH	0 %
End of Day	08:35	56 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Construction Monitoring

Construction .	Activity:
----------------	-----------

Public works crew. Demobilizing equipment.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

WCSP, HOFI, Amazona spp., AMCR

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

- 0645: On site.
- 0700: Roads and work area clear.
- 0715: No crew on site. Contact Tony Rothwell who said maintenance work was complete and the plan for the day was to move equipment out using North exit by JPL. No equipment will be operating in basin.
- 0745: Public works crew arrive. Confirm plan to demobilize equipment.
- 0815: Exit roads checked.
- 0830: Spoke to Maddy (restoration monitoring) who agreed to periodically check roads being used to demobilize.
- 0835: Depart.

Additional Comments

N/A



Equipment_storage_area_facingSW.jpg

APPENDIX B

Habitat Restoration Monitoring Logs

Devil's Gate Biological Monitoring Log Biologist/Monitor: Michael Walsh Company: Stillwater

Date of Log: October 3, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	59 °F	0-3 MPH	0 %
End of Day	13:45	79 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Natures Image crew of five weeding by hand and with line trimmers in DG-4A/DG-4.

Yellow warbler

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

LEGO, BUSH, RCPA, WREN, HAWO, CALT, AMCR, HOFI, EUST, BEWR, ANHU, MODO, ALHU, OATI, ACWO, WEBL, CASJ, DEJU, BLPH, NUWO, ROPI, CORA, SOSP, WIWA, GHOW, YEWA, RSHA, CAQU, CAKI, RTHA, California ground squirrel, Western fence lizard, orb weaver.

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: Surveyed work area while crew gathered tools.

0650: Crew began weeding DG-4A and the edges of DG-4 on the far southeastern corner of DG-4A (the "primrose" clearing). Three crew members used line trimmers; primary targets were Chenopodium album and Pepperweed. Crew also removed some aggressive native forbs which include Ambrosia acanthacarpa, Erigeron canadensis, and Xanthium strumarium because they will likely plant this area and those species will compete with container plants for sunlight/water/nutrient resources.

1045: Crew member opened large in-ground Yellowjacket hive, escaped before being stung. Advised crew to avoid by 30 feet.

Additional Comments



photo_1-20221003-before_weeding_facingW.jpg -118.176445888888889 34.189452994444444



photo_2-20221003-after_weeding_facingW.jpg -118.1763865 34.189438325

Devil's Gate Biological Monitoring Log Biologist/Monitor: Josh Harris

Company: ECORP
Date of Log: October 3, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	04:45	57 °F	0-3 MPH	0 %
End of Day	14:45	83 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Weed removal within DG-2; focus on removing Cuscata californica from container plants.
- 2. None
- 3. Gothic; crew of eight plus Cesar Olmos (foreman).

Did you observe any special-status species? $\square \ \ \text{Yes} \ \boxdot \ \ \text{No}$

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

RCPA, ACWO, CASJ, ALHU, COHA, LEGO, BEWR, CAQU, WCSP, CALT, WIWA, SOSP, WREN, BLPH, SPTO, common side blotched lizard, whiptail

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

- 0545: Arrived on site. Carley and Maddi arrive, we drive down to Johnson Field to meet Gothic crew.
- 0610: Found out crew would be arriving at 0630.
- 0630: Gothic crew arrives. Carley, Maddi and I go ahead to clear DG-2. Crews plan was to focus on removing Cuscata californica from container plants.
- 0710: Carley and Maddi leave.
- 0748: Spoke to Cesar, said the crew would be turning on some valves for the irrigation system. Crew was trying to catch up on work after being off for a week.
- 0845: Crew takes a break.
- 1115: Crew continues to pull Cuscata californica within DG-2.
- 1145: Crew takes lunch.
- 1237: Crew returns from lunch.
- 1245: Cesar said he was sending two workers to rake pulled vegetation from the channels.
- 1400: Crew continues with pulling Cuscata californica.
- 1434: Crew cleaning up.
- 1444: Crew leaving site.

Additional Comments

N/A



Before_weed_removal_within_DG-2_area_facing_northeast.jpg -118.17110695555556 34.19317765277778



Weed_removal_during_within_DG-2_facing_northeast.jpg



After_weed_removal_within_DG-2_facing_northeast.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Michael Walsh Company: Stillwater

Date of Log: October 4, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	63 °F	0-3 MPH	0 %
End of Day	14:45	86 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Cor	าstr	uctior	ı Acti	vitv:

Natures Image crew of six hand pulling weeds in DG-4/DG-4A

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

WREN, ACWO, RCPA, NUWO, WCSP, CALT, AMCR, COHA, LEGO, SOSP, RSHA, HOFI, NOFL, BUSH, BLPH, EUCD, MODO, CAKI, San Diego gopher snake, southern pacific rattlesnake, California chorus frog, Western toad, WEME, SPTO, WEBL.

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: Surveyed work area while crew set up.

0645: Monitored weeding in DG-4A and DG-4. Crew continued as they had yesterday, pushing through areas which had been staked to remove Chenopodium and pepperweed (and aggressive native forbs where required).

1030: Crew member reported finding a large rattlesnake, advised crew to avoid.

1300: Worked on inventory of staked areas.

1430: Crew began wrapping up pulling while I inspected the site.

Additional Comments

N/A



photo_1-20221004-before_weeding_facingS.jpg -118.17663866666668 34.189422102777776



photo_2-20221004-after_weeding_facingS.jpg -118.176614111111112 34.18948961111111



photo_3-20221004-before_weeding_facingN.jpg -118.176472933333334 34.18949798888889



photo_4-20221004-after_weeding_facingN.jpg -118.17645652777779 34.18958018611111

Devil's Gate Biological Monitoring Log Biologist/Monitor: Maddy Panzino

Company: ECORP
Date of Log: October 4, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	62 °F	0-3 MPH	0 %
End of Day	14:30	87 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Irrigation and dodder removal.
- 2. Hoses, buckets, hand tools.
- 3. Gothic landscaping, Caesar Olmos and crew of ten.

Did you observe a	ny special-status s	species? 🗆 `	Yes 	No
-------------------	---------------------	--------------	-------------	----

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

Desert cottontail, California ground squirrel, side blotch lizard, Western fence lizard, coastal whiptail, RCPA, BEWR, CATH, ACWO, CORA, AMCR, SOSP, WCSP, RTHA, CASJ, CALT, HOFI, SPTO, BGGN, ANHU, BLPH, BUSH

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: Arrive on site.

0645: Attend morning tailboard. Crew to be removing dodder and catching up on irrigation.

0650 crew begins work in Johnson field and DG-2 areas, irrigating with hoses/buckets and removing dodder by hand.

0650-1430: Monitored crew while work continued. No corrective action required.

Additional Comments

N/A



CrewBeginningDodderRemoval.jpg -118.17213780555556 34.19042267499999



IrrigatingCuttings.jpg -118.17090525555557 34.19138428611111



WateredCuttingsDG-2.jpg -118.17197513333333 34.190180372222216



DodderRemovalJohnsonField.jpg -118.17194519444445 34.19160655555555

Devil's Gate Biological Monitoring Log Biologist/Monitor: Maddy Panzino

Company: ECORP
Date of Log: October 5, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	60 °F	0-3 MPH	0 %
End of Day	14:31	86 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Cor	าstr	uctior	ı Acti	vitv:

- 1. Dodder removal.
- 2. Hand shovels, hoes.
- 3. Gothic Landscape, Cesar Olmos and crew of five.

Did you observe any special-status species? $\ensuremath{\mathbb{Z}}$ Yes $\ensuremath{\square}$ No

Yellow warbler

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

Desert cottontail, side blotch lizard, Western fence lizard, coastal whiptail, RCPA, BEWR, CATH, ACWO, CORA, AMCR, SOSP, WCSP, RTHA, CASJ, CALT, HOFI, SPTO, BGGN, ANHU, BLPH, BUSH, COYE, WREN, YRWA, NUWO, YEWA, CAKI

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630 Arrive on site.

0650: Crew begins work in Johnson Field removing dodder by hand.

1100: Observed female yellow warbler foraging on telegraph weed near north fence of Johnson field.

1430: Crew finishes work for the day.

1435: Depart site.

Additional Comments

N/A

Signature

Mon



Dodder_Removal_Mulefat.jpg -118.17193741666667 34.1917642777777



Irragated_Mulefat_JohnsonField.jpg -118.17147293333333 34.19077561111111



Dodder_Removal_CoyoteBush.jpg -118.17211974166668 34.191890066666666

Devil's Gate Biological Monitoring Log Biologist/Monitor: Alec Mang

Company: Stillwater
Date of Log: October 5, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	60 °F	0-3 MPH	0 %
End of Day	14:30	83 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity: Natures Image crew of four hand pulling weeds in DG-4A.
Did you observe any special-status species? □ Yes ☑ No
Were any least Bell's Vireo detected? □ Yes ☑ No
List of species observed while monitoring: AMCR, WCSP, ANHU, SOSP, RSHA, ACWO, CALT, SPTO, MODO, WREN, CASJ, CAQU, CORA.
Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: I cleared the work area. Crew began pulling at 0705. The crew worked in DG-4A and moved West towords the primrose fields. Crew stopped pulling at 1430 and began cleanup.

Additional Comments

N/A



photo_VegetationRemoval_before_facingW-.jpg -118.17646452777778 34.189608880555554



photo_2-VegetationRemoval_before_facing_W-.jpg -118.17652340000001 34.18955331944444



photo_3-VegetationRemoval_After_facingW-.jpg -118.17646183333333 34.18965721111111



photo_4-VegetationRemoval_After_facingW-.jpg -118.17654755555556 34.189586399999996

Devil's Gate Biological Monitoring Log Biologist/Monitor: Josh Harris

Company: ECORP
Date of Log: October 6, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	86 °F	0-3 MPH	100 %
End of Day	14:50	82 °F	4-6 MPH	34 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Co	nstr	uctio	n Ac	tivit	v:

- 1. Pulling Cuscata californica and watering container plants in DG-2.
- None.
- 3. Gothic; eight crew members plus Cesar Olmos (foreman).

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

BEWR, NOMO, LEGO, RCPA, ACWO, CALT, WCSP, CASJ, CATH, GBHE, WEBL, SPTO, RCKI, HOWR, YRWA

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

- 0630: Arrived on site at the same time as several workers.
- 0640: Spoke to Cesar about work and work area. Crew would continue to pull Cuscata californica in DG-2 and water container plants.
- 0655: Crew beginning work.
- 0739: Checked on crew watering container planes and crew pulling Cuscata californica.
- 0915: Break.
- 0930: Return from break.
- 1200: Lunch.
- 1238: Return from lunch.
- 1335: Spotted rattlesnake within DG-2. Informed Cesar Olmos and a handful of crew members in the area.

Additional Comments

N/A



Crews_beggining_to_water_plants_facing_northeast.jpg



Before_weeding_in_DG-2_facing_southwest.jpg



Crew_during_weeding_effort_in_DG-2_facing_south.jpg

Company: Stillwater
Date of Log: October 6, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	62 °F	0-3 MPH	100 %
End of Day	14:30	79 °F	4-6 MPH	15 %

What Type of Monitoring is Being Conducted?
Restoration Monitoring

Restoration Activity:
Natures Image crew of five hand pulling weeds in DG-4A.

Did you observe any special-status species? □ Yes ☑ No

Were any least Bell's Vireo detected? □ Yes ☑ No

List of species observed while monitoring:
WREN, LEGO, AMCR, CORA, RSHA, BUSH, RSHA, OCWA, BEWR.

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630 I cleared the work area. Crew began pulling at 0700. The crew worked in DG-4A and moved West towords the primrose fields. Crew stopped pulling at 1430 and began cleanup.

Additional Comments

N/A



photo_1-VegetationRemoval_before_facingW-.jpg -118.17658768055556 34.18959706944444



photo_2-VegetationRemoval_during_facingE-.jpg -118.17674341666667 34.18956631944444



photo_3-VegetationRemoval_during_facingW-.jpg -118.17672841666668 34.18968646111111



photo_4-VegetationRemoval_after_facing_W-.jpg -118.17659272222222 34.189613861111106

Devil's Gate Biological Monitoring Log Biologist/Monitor: Verity Richardson

Company: ECORP
Date of Log: October 7, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:20	62 °F	0-3 MPH	100 %
End of Day	15:00	89 °F	0-3 MPH	20 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Restoration Activity:

- 1. Maintaining restoration areas: Removing non-natives from Johnson's field and south of Johnson field.
- 2. Hand tools hoes, rakes, clippers etc.
- 3. Gothic landscaping, Cesar Olmos (foreman) plus nine crew

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

Cottontail, Southern pacific rattlesnake, cabbage white, California ground squirrel, carpenter bee, coastal whiptail, common side blotched lizard, western toad, CAQU, MALL, RTHA, ACWO, ANHU, CORA, parrot sp., CALT, SOSP, WCSP, WREN, CASJ, BLPH

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0620: Met crew at Johnson Field.

0630: Tailboard meeting.

0645: Crew begin removing dodder, wild carrot, non-native grass, from Johnson's field and area South. Collecting into bags and removing from the site.

1139: Observed coastal whiptail.

1500: End of day.

Additional Comments

N/A



RemovingDodder_restablishingWaterbasins_100722.jpg -118.17227802777778 34.18995942777777



RemovingDodderfromRestorationArea_100722.jpg -118.17231392777778 34.18987213888889



RemovingNonNatives_100722.jpg -118.172278666666667 34.1900111111111104



WeedRemoval_100722.jpg -118.1717349638889 34.19021346111111

Company: Stillwater Date of Log: October 7, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	59 °F	0-3 MPH	0 %
End of Day	11:00	81 °F	4-6 MPH	0 %

Day	00.30	59 F	0-3 MFTT	0 %			
End of Day	11:00	81 °F	4-6 MPH	0 %			
	What Type of Monitoring is Being Conducted? Restoration Monitoring						
Restoration Activity: Natures Image crew of six hand pulling weeds in DG-4A.							

Were any least Bell's Vireo detected? ☐ Yes ☑ No

Did you observe any special-status species? ☐ Yes ☑ No

List of species observed while monitoring:

LEGO, WCSP, CALT, CASJ, WREN, AMCR, CORA, SOSP, ACWO, BUSH, Coyote.

Did You Observe any Non-Compliance Issues? $\square \ \mbox{Yes} \ \ensuremath{\mathbb{Z}} \ \mbox{No}$

Log Entry

0630: I cleared the work area.

0700: The crew began pulling weeds. The crew focused on clearing vegetation around irrigation lines and around planted trees. The crew continued working in DG-4A working west into the primrose fields.

Additional Comments

N/A



photo_1-VegetationRemoval_before_facingS-.jpg -118.17692222222223 34.18957222222222



photo_2-VegetationRemoval_after_facingS-.jpg -118.17697222222223 34.18968611111111

Devil's Gate Biological Monitoring Log Biologist/Monitor: Michael Walsh Company: Stillwater

Date of Log: October 10, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	64 °F	4-6 MPH	100 %
End of Day	13:48	78 °F	0-3 MPH	20 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Restoration Activity:

Natures Image crew of six weeding DG-4A

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, WREN, LEGO, CASJ, WCSP, CALT, CAQU, RSHA, NOFL, ACWO, WEME, RCPA, MODO, CAKI, BUSH, ANHU, southern pacific rattlesnake, western toad, western fence lizard, common side blotched lizard, California ground squirrel, HOFI, ECDO,

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: Cleared work area for crew.

0650: Crew began weeding DG-4A in the "primrose" area just next to the trail. Areas which had been staked were being choked out by aggressive native herbs (*Erigeron canadensis*, *Ambrosia acanthacarpa*, *Xanthium strumarium*), so the crew removed those where appropriate along with pepperweed, poison hemlock, and tree of heaven.

0730: A crew member reported a Yellowjacket hive, advised crew to avoid area.

1200: Observed a juvenile southern pacific rattlesnake next to the parking lot. Advised crew to take a path which avoids that area.

1345 Crew wrapped up for day, left site.

Additional Comments

N/A



photo_1-20221010-before_weeding_facingW.jpg -118.17696447222222 34.18959619444444



photo_2-20221010-after_weeding_facingW.jpg -118.176947583333334 34.18962802777777



photo_3-20221010-before_weeding_facingE.jpg -118.176944833333334 34.189999924999995



photo_4-20221010-after_weeding_facingE.jpg -118.17688541666668 34.19003075

Devil's Gate Biological Monitoring Log Biologist/Monitor: Maddy Panzino

Company: ECORP
Date of Log: October 10, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	61 °F	0-3 MPH	100 %
End of Day	14:35	80 °F	0-3 MPH	10 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Restoration Activity:

- 1. Dodder and pepper weed removal, irrigation system repair.
- 2. Hand tools (hoes, shovels, rakes, pliers, etc.).
- 3. Gothic landscape, Cesar Olmos and crew of six landscapers.

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

Desert cottontail, California ground squirrel, western toad, side blotch lizard, western fence lizard, coastal whiptail, gopher snake, Red-crowned parrot, CATH, ACWO, CORA, AMCR, SOSP, WCSP, RTHA, COHA, CASJ, CALT, HOFI, SPTO, BGGN, ANHU, NOMO, BLPH, BUSH, COYE, WREN, YRWA

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

- 0630: Arrive on site.
- 0655: Crew begins work in Johnson Field and DG-2, pulling weeds (pepper weed) and removing dodder by hand.
- 1000: Two crew member fix leak in irrigation system.
- 1300: Crew begins pulling weeds in EMA east side.
- 1430: Crew finishes work for the day.
- 1440: Depart site.

Additional Comments

N/A

Signature

Mornin



Removing_Pepperweed.jpg -118.17225692777778 34.18995489722222



Maintenance_DG-2Area.jpg -118.17228686111112 34.189348555555554



Removing_Dodder.jpg -118.17228007777778 34.19003161111111



Weed_AbatemetEMA.jpg -118.17373009722223 34.18771430555555

Devil's Gate Biological Monitoring Log Biologist/Monitor: Michael Walsh

Company: Stillwater
Date of Log: October 11, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	62 °F	0-3 MPH	100 %
End of Day	13:45	74 °F	0-3 MPH	35 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Restoration Activity:

Natures Image crew of six weeding DG-4A.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

RSHA, BUSH, SPTO, COHA, CAQU, CASJ, AMCR, BEWR, LEGO, BLPH, NOFL, RTHA, MODO, ROPI, ACWO, CALT, NUWO, WCSP, YRWA, WEBL, WEME, ECDO, ANHU, WREN, RCPA, HAWO, RCKI, BGGN, HUVI, DEJU, OATI.

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: Surveyed work area while crew set up.

0650: Crew began weeding DG-4A near the perimeter trail (the 'primrose' area).

1200: A Cooper's hawk made a kill near crew, but the bird appeared visibly agitated. Moved crew south to next clearing, gave the area a brief survey.

1245: Checked and the COHA was still eating. Told crew we would not continue working in that vicinity for rest of day; and that cleanup should only be limited to piles which were adjacent to the trail and out of line of site.

1330: Monitored the removal of these tarps; was done quietly and by hand. Kubota was pushed in neutral for ~100 feet before starting so it didn't get scared off.

Additional Comments

Did not take an after photo because it was too close to the hawk mentioned above; did not want to scare it away from its kill.



photo_1-20221011-before_weeding_facingN.jpg -118.17689936111111 34.19013195833333



photo_2-20221011-hauling_tarps.jpg -118.17538168333334 34.192398930555555

Devil's Gate Biological Monitoring Log Biologist/Monitor: Maddy Panzino

Company: ECORP Date of Log: October 11, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:40	61 °F	0-3 MPH	100 %
End of Day	14:30	77 °F	0-3 MPH	60 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Restoration Activity:

- 1. Irrigation maintenance, some weeding and dodder removal.
- 2. Hand tools (shovels, rakes, hoes, etc.)
- 3. Gothic landscape, Cesar Olmos and crew of nine landscapers.

Did you observe any special-status species? \square Yes \boxdot No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

Monarch butterfly, western toad, side blotch lizard, western fence lizard, coastal whiptail, RCPA, CATH, ACWO, CORA, AMCR, SOSP, WCSP, RTHA, COHA, CASJ, CATO, HOFI, SPTO, BGGN, ANHU, NOMO, BLPH, BUSH, COYE, WREN, YRWA, CAQU, RCKI, OATI, Desert cottontail, California ground squirrel

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: Arrive on site.

0640: Crew begins work in EMA east side area, pulling nonnative weeds with hand tools.

0720: Spoke with Tony Rothwell from public works. Public works doesn't want the Gothic truck to be down in the basin area (in the way of haul trucks) during sediment removal activities.

0730-1420: Gothic crew begins maintenance activities in DG-2, attending to irrigation system. Crew cut back/ removed some ambrosia to better access irrigation system. Also planted some mulefat and willow propagations where ambrosia was. Small amounts of dodder and weed removal was done throughout the day.

1430: Crew finishes work for the day.

1435: Depart site.

Additional Comments

N/A



EMA_before_weeding_facingN.jpg -118.17381416666667 34.18788852777777



Container_Plant_Maintenance_DG-2.jpg -118.17291070833333 34.188470205555554



Irrigation_Maintenance_DG-2.jpg -118.17204268611111 34.19106166666666



Planting_Willow_DG-2.jpg -118.17270540833334 34.18895296666666

Devil's Gate Biological Monitoring Log Biologist/Monitor: Verity Richardson

Company: ECORP Date of Log: October 12, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:20	64 °F	0-3 MPH	20 %
End of Day	14:55	82 °F	0-3 MPH	60 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Restoration Activity:

- 1. Removal of non-native vegetation.
- 2. Hand tools hoes, clippers, shovel.
- 3. Cesar Olmos, Jonathan, and eight crew members.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

RCPA, CALT, CATH, CORA, WREN, CASJ, ACWO, LEGO, BUSH, RTHA, Side- blotched lizard, Western toad, California ground squirrel, cottontail, harvester ant, Western honey bee, bee fly, monarch butterfly, coastal whiptail, cabbage white butterfly, Western tiger swallowtail,

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0620: Arrived on site.

0630: Tail gate meeting with crew.

0645: Began pulling non-natives in DG-2 and DG-2-WOUS, primarily dodder and tree of heaven.

1139: Observed coastal whiptail.

1435: Carrying bags of removed vegetation back to the dump.

1455: End of monitoring.

Additional Comments

N/A



Removing_Dodder_DG-2_101222.jpg -118.17252279166667 34.19027723333333



Worker_removing_dodder_101222.jpg -118.17257356944445 34.190781861111105



Restoring_irrigation_basins_DG-2_101222.jpg -118.171751611111112 34.19016736111111



Restoring_basins_removing_Dodder_101222.jpg -118.17175822222222 34.19017683333333

Company: Stillwater
Date of Log: October 12, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	61 °F	0-3 MPH	75 %
End of Day	13:30	76 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Restoration Activity: Natures Image crew of five pulling weeds in DG-4A "primrose field".
Did you observe any special-status species? □ Yes ☑ No
Were any least Bell's Vireo detected? □ Yes ☑ No
List of species observed while monitoring: LEGO, CAQU, CALT, ACWO, WCSP, CASJ, MODO, SOSP, BUSH, BEWR, WREN, alligator lizard, coyote
Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

- 0630: I cleared the work area.
- 0700: The crew began pulling weeds around the East edges of "primrose".
- 0830: I checked under vegetation piles left from the previous day. I moved one alligator lizard out from under the pile.
- 0915: One crew member cleaning up vegetation piles. The rest of the crew continued pulling weeds.
- 1330: The crew stopped pulling a began cleanup.

Additional Comments

N/A

Signature

AIPE MAS



photo_1-VegetationRemoval_before_facingE.jpg -118.176650444444445 34.19034198888889



photo_2-VegetationRemoval_during_facingW.jpg -118.17697380555556 34.19068305555555



photo_3-VegetationRemoval_after_facingE.jpg -118.176662333333334 34.190319036111106

Devil's Gate Biological Monitoring Log Biologist/Monitor: Josh Harris

Company: ECORP
Date of Log: October 13, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	57 °F	0-3 MPH	100 %
End of Day	14:43	79 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

R	esto	ration	Activ	/itv

- 1. Water line and container plant maintenance
- 2. None. Hand tools were used.
- 3. Gothic; Cesar Olmos (foreman) plus ten crew members.

Did you observe ar	y special-status s	species? 🗆 🖰	Yes ☑	No
--------------------	--------------------	--------------	--------------	----

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

KILL, CATH, CALT, ACWO, CASJ, CORA, HOSP, RCPA, RSHA, BUSH, OATI, WCSP, BEWR

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

- 0615: Arrived on site.
- 0630: Crew members begin arriving.
- 0640: Spoke to Cesar about the plan for the day. He said they would be fixing water lines and basins of container plants in DG-2 and DG-2B.
- 0645: Site walk of area.
- 0728: Crew began fixing basins of container plants and fixing water lines to plants.
- 1145: Lunch.
- 1245: Return from lunch.
- 1259: Crew is continuing to fix basins and watering container plants.
- 1415: Cesar says the crew will pick up where they left off tomorrow.
- 1420: Crew cleaning up.
- 1433: Crew leaving site while I finish my log.

Additional Comments

N/A

Signature

M



Prior_to_maintanece_of_basins.jpg



After_maintenance_of_basins.jpg



Crew_fixing_basins_and_irrigation_facing_south.jpg

Company: Stillwater Date of Log: October 13, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	59 °F	0-3 MPH	100 %
End of Day	14:00	78 °F	4-6 MPH	0 %

Did You Observe any Non-Compliance Issues? □ Yes ☑ No
List of species observed while monitoring: BUSH, CASJ, WREN, ACWO, AMCR, CALT, CAQU, SOSP, WCSP.
Were any least Bell's Vireo detected? □ Yes ☑ No
Did you observe any special-status species? ☐ Yes ☑ No
Restoration Activity: Natures Image crew of six hand pulling weeds in DG-4 East of "primrose".
Restoration Monitoring

Log Entry

0630: I cleared the work area.

0700: The crew began pulling weeds in the forested area East of "primrose". The crew continued pulling until 1400 and then stopped for cleanup.

Additional Comments

N/A



photo_1-VegetationRemoval_before_facingS.jpg



photo_2-VegetationRemoval_before_facingE.jpg



photo_3-VegetationRemoval_after_facingS.jpg



photo_4-VegetationRemoval_after_facingE.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Josh Harris

Company: ECORP
Date of Log: October 14, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	61 °F	0-3 MPH	100 %
End of Day	14:09	76 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Container plant basin and water line maintenance in DG-2 areas.
- 2. None. Hand tools only.
- 3. Gothic; Cesar Olmos (foreman) and ten crew members.

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

RSHA, CASJ, GHOW, LEGO, BEWR, RCPA, BUSH, ANHU, CALT, WIWA, GBHE, WCSP, HOSP, NOMO, CATH

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

- 0625: Crew members begin to arrive.
- 0640: I clear the work areas within DG-2.
- 0700: Crew begins to work in DG-2 and DG-2B. Crew is fixing water lines and basins of container plants.
- 0745: Three crew members switch to pulling Cuscata californica in DG-2 WOUS.
- 0845: Break.
- 1130: Spoke with Cesar before he left for the day. Said the crew would continue with the work until the end of the day.
- 1230: Lunch.
- 1300: Return from lunch.
- 1400: Crew is cleaning up.

Additional Comments

N/A



Basin_prior_to_fixing.jpg



Basin_after_being_fixed.jpg



Crew_pulling_cuscata_within_DG-2_WOUS_facing_north.jpg

Company: Stillwater
Date of Log: October 14, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	59 °F	0-3 MPH	100 %
End of Day	11:00	67 °F	4-6 MPH	100 %

Day			<u> </u>
What Type of Monitoring Restoration Monitoring	ng is Being Conducted?		
Restoration Activity: Natures Image crew of	five hand pulling weeds in DG	3-4.	
Did you observe any s	special-status species? 🗆 🗅	Yes ☑ No	
Were any least Bell's \	Vireo detected? □ Yes ☑ N	No	
List of species observ	•		
CASJ, ACWO, MODO,	LEGO, SOSP, WCSP, BUSH	I, CORA, RTHA.	
Did You Observe any	Non-Compliance Issues? □] Yes ☑ No	

Log Entry

0630: I cleared the area for work. The crew began weeding at 0650 in DG-4 on the edge of "primrose". Crew stopped weeding at 1100 and began cleanup.

Additional Comments

N/A

Signature

1/11/10



photo_1-VegetationRemoval_before_facingE-.jpg



photo_2-VegetationRemoval_before_facingE-.jpg



photo_3-VegetationRemoval_after_facingE-.jpg -118.17670823611111 34.19069733333333



photo_4-VegetationRemoval_after_facingE-.jpg -118.17677787777778 34.19059783333333

Devil's Gate Biological Monitoring Log Biologist/Monitor: Verity Richardson

Company: ECORP Date of Log: October 17, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:20	56 °F	0-3 MPH	30 %
End of Day	14:52	83 °F	0-3 MPH	15 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Restoration Activity:

- 1. Removing non-native vegetation.
- 2. Hand tools (hoes).
- 3. Cesar, Jonathan plus eight crew members.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

ACWO, CASJ, COHA, CALT, RCPA, CAQU, SOSP,

Coastal whiptail, California ground squirrel, Monarch butterfly, side-blotched lizard, Western toad, Western honey bee, cabbage white butterfly

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0620: Arrived on site.

0640: Tailboard meeting.

0650: Crew began pulling dodder from Johnson's Field and reshaping basins around plants.

1255: Coastal whiptail observed basking on irrigation pipe.

1435: Crew began collecting bags of vegetation and took to exit.

1450: End of monitoring.

Additional Comments

N/A



ReshapingBasins_JohnsonsField_101722.jpg -118.17179639444446 34.1920250555555554



RemovingDodder_JohnsonsField_101722.jpg -118.171127761111112 34.191268655555554

Devil's Gate Biological Monitoring Log Biologist/Monitor: Dawn Garcia

Company: Stillwater
Date of Log: October 17, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	56 °F	0-3 MPH	0 %
End of Day	14:30	81 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Nature's Image (IT) Genero, Ed, Linda, Carlos, Ryan hand pulling. Another NI crew of four plus Raul helping in DG-4 site covered with chenopodium.

Did you observe any special-status species? ☐ Yes ☑ No

List of species observed while monitoring:

Were any least Bell's Vireo detected? ☐ Yes ☑ No

RCPA flying west, AMCR flying east (big numbers at dawn), Western toads very cold in AM, still some 1" size. CALT, NOFL, WREN, NUWO, BEWR, HOFI, ANHU, BUSH, COHA (adult), CORA, SPTO, ACWO, LEGO, BUSH, WREN, WCSP, SOSP, CSJA, BLPH, RSHA, BTPI, RCKI, AMGO, OATI, 30+parakeet flyover with red on face, ORJU, BANO feather, many lizards.

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0645: Crew starts weeding east of primrose mostly dead pepperweed. Avoiding patches of poision oak. Crew of two comes in and weeds dense understory of chenopodium. Some native nettle, blackberry and mugwort mixed in 0830 all crew in southern most part of DG-4A. Continued here the rest of the day.

Additional Comments

Potential snake burrow but dig by coyote (?) in DG4A site where crew works. Looks unused and overgrown. Found a Barn Owl feather here too. Plucking post had multiple species killed here including western tanager and quail.





Pre-weeding_site_facing_N_DG4.jpg -118.17642368055556 34.1906920555555



Pre-weeding_DG4A_southern_area.jpg -118.17735446111112 34.18906052777778



post-weedingDG4A_southern_area.jpg -118.17730972222223 34.189062111111106



Wildlife_use_of_weeded_areas_raptor_pluck_post.jpg -118.17644322222223 34.190675166666665

Devil's Gate Biological Monitoring Log Biologist/Monitor: Maddy Panzino

Company: ECORP Date of Log: October 18, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	62 °F	0-3 MPH	0 %
End of Day	14:30	89 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Irrigation maintenance, container plant maintenance, watering.
- 2. Hand tools (shovels, rakes, etc.).
- 3. Gothic landscape, Cesar Olmos, and crew of nine landscapers.

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

Monarch butterfly, Western toad, side blotch lizard, Western fence lizard, coastal whiptail, RCPA, CATH, ACWO, CORA, AMCR, SOSP, WCSP, RTHA, CASJ, CALT, HOFI, SPTO, ANHU, NOMO, BLPH, BUSH, COYE, WREN, CAQU, TUVU, California ground squirrel

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

06:30: Arrive on site.

06:45: Crew begins work in Johnson field, maintaining irrigation lines and dirt rings around container plants.

Myapin

12:45: Crew begins work in DG-2, doing the same maintenance activities.

14:30: Crew finishes work for the day.

14:35: Depart site.

Additional Comments

N/A



Fixing_Irrigation_Line_Johnson_Field.jpg -118.17182646111111 34.19091363055555



Planter_Maintanence_Johnson_Field.jpg -118.1717354888889 34.191080630555554



Planter_After_Maintanence.jpg -118.17158950833334 34.19136651388889



Watering_Johnson_Field.jpg -118.17085929444445 34.191390166666665

Devil's Gate Biological Monitoring Log Biologist/Monitor: Dawn Garcia

Company: Stillwater
Date of Log: October 18, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	60 °F	0-3 MPH	0 %
End of Day	13:30	89 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Co	nstr	uctio	n Act	ivitv
CU	เเจน	ucuvi	ו הטנ	IVILV.

Natures Image crew of eight with Raul, handpulling weeds.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

HOFI, CALT, LEGO, AMCR, RCPA, SPTO, BEWR, CSJA, NUWO, EUST, ANHU, NOFL, ACWO, COHA (young), SOSP, BNOW (another feather found weeding area). RSHA, YRWA, WCSP, CORA, CALT, RCKI, SPTO, WTSW, BUSH, NOMO, ALHU, BTGR, alligator, side-blotched, fence lizards, gopher snake, BLPH, HOWR, TOWA, OCWA, OATI

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0645: Head down to DG4A, South site to resume handpulling invasives. Plenty of natives here too including nettle, mugwort, blackberry. Crew all here. Linda checks irrigation.

0830: I walk the site at crew break. Find large dark, fat tailed snake. No rattling.

0900: Rest of day, crew continues east, covering a lot of ground. Edwardo finds a small gopher snake. Carlos finds a large alligator lizard.

Additional Comments

heated up last 2 days.



pre-weeding_section_facing_north.jpg -118.17730763888889 34.189059880555554



pre-weeding_facingW_DG4A.jpg -118.17716381944444 34.18885906944444



post_weeding_facing_N.jpg -118.17728827777778 34.18901561111111



Example_of_multiple_post_weeded_areas_DG4A.jpg -118.17723497222222 34.18885623055555

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carter Warwick

Company: ECORP
Date of Log: October 19, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	66 °F	0-3 MPH	0 %
End of Day	14:30	92 °F	4-6 MPH	5 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Gothic crew, Caesar, Jonathan

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

WCSP, LEGO, HOFI, BUSH, BEWR, COYE, AMCR, CALT, CASJ, RSHA, ACWO, KILL, BLPH, MODO, cottontail, California ground squirrel, whiptail, western fence lizard

Did You Observe any Non-Compliance Issues? \square Yes \boxdot No

Log Entry

0650: Tailboard. Caesar said the crew planned to mostly do detail work and fix irrigation in DG-2. Not many nonnatives left for them to pull.

0845: Crew break.

0945: Continuing detail work, mostly pulling dodder and fixing irrigation.

1100: Hauling dead ambrosia out of DG-2 to dumpster.

1146: Crew lunch.

1315: Continuing to remove dodder and dead vegetation.

1430: End work.

Additional Comments

N/A



Gothic_crew_facingW.jpg



Irrigation_work_facingN.jpg

Company: Stillwater
Date of Log: October 19, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	69 °F	0-3 MPH	0 %
End of Day	13:30	86 °F	4-6 MPH	0 %

Wh	at T	уре	of	Moı	nitor	ing is	Being	Conducted?	,
_									

Restoration Monitoring	
Construction Activity: Natures Image crew of six weeding in DG-4 and DG-4A.	
Did you observe any special-status species? □ Yes ☑ No	
Were any least Bell's Vireo detected? □ Yes ☑ No	
List of species observed while monitoring: RSHA, CASJ, CAQU, WREN, ANHU, SOSP, WCSP, MODO, LEGO, BUSH, ACWO, AMCR, coyote.	
Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No	

Log Entry

0630: I cleared the area for work. One coyote den was found during pre-clearance and crews stayed clear of that area

0700: The crews began weeding.

0900: Tree removal crews showed up and began work in the "mining pit". Our crew was far enough south to not be in the way of any tree removal activities.

1330: Crews stopped weeding and began cleanup.

Additional Comments

N/A



photo_1-Vegetation_Removal_before_facingW-.jpg -118.17708758333333 34.18927034166666



photo_2-Vegetation_Removal_before_facingE-.jpg -118.17687656944445 34.18928880555555



photo_3-Vegetation_Removal_after_facingW-.jpg -118.17704098611111 34.18924526944444



photo_4-Vegetation_Removal_after_facingE.jpg -118.17686127777779 34.189260194444444

Devil's Gate Biological Monitoring Log Biologist/Monitor: Verity Richardson

Company: ECORP Date of Log: October 20, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:20	68 °F	0-3 MPH	80 %
End of Day	14:45	89 °F	0-3 MPH	40 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Removing non-native (poison hemlock) and dodder from restoration areas (Johnson's field, DG-2, DG-2-WOUS), restoring basins around plants.
- 2. Hand tools e.g. hoes, rakes, shovels.
- 3. Gothic Cesar Olmos with nine workers.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

ACWO, COHA, CASJ, ALHU, CALT, CAQU, ANHU, Coyote, western toad, cottontail, side-blotched lizard, California ground squirrel, monarch butterfly

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0620: Arrived on site met crew.

0635: Tailboard meeting.

0710: Crew began pulling dodder and poison hemlock from Johnson's field, DG-2 and DG-2 WOUS.

1425: Moving collected vegetation in bags to dumpster.

1440: End of monitoring.

Additional Comments

N/A



Restoring_Basins_DG-2-WOUS_102022.jpg -118.17230525833334 34.18989700833333



Removing_Dodder_and_Poison_Hemlock_DG-2-WOUS_102022.jpg -118.17226304444445 34.18990674166666



Crew_removing_dodder_DG-2_102022.jpg -118.1723975 34.190640305555554

Company: Stillwater
Date of Log: October 20, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	67 °F	0-3 MPH	25 %
End of Day	01:30	81 °F	4-6 MPH	15 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Col	nstri	iction	Activ	itv:

Natures Image crew of six removing weeds in DG-4A near the bank of the basin.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, WREN, KILL, BUSH, CALT, WEBL, RTHA, ACWO, CAQU, CASJ

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: I cleared the area for work.

0650: The crew began pulling weeds in DG-4A working East toward the basin.

1330: The crew stopped weeding and began cleanup.

Additional Comments

N/A

Signature

Ar M



photo_1-Vegetation_Removal_before_facingE.jpg



photo_2-Vegetation_Removal_after_facingE.jpg -118.17644026111111 34.189250055555554



photo_3-Vegetation_Removal_before_facingS.jpg



photo_4-Vegetation_Removal_after_facingS.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Josh Harris

Company: ECORP
Date of Log: October 21, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:24	59 °F	0-3 MPH	0 %
End of Day	14:23	80 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction	Activity:
--------------	-----------

- 1. Fixing irrigation lines to container plants, fixing container plant basins and pulling weeds.
- 2. Hand tools only.
- 3. Gothic; crew of nine plus Cesar Olmos (foreman).

Did you observe any special-status species? ☐ Yes ☑	IN
---	----

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

CATH, KİLL, LEGO, CASJ, ACWO, RSHA, RCPA, BUSH, RCKI, SPTO, WCSP, CALT, YRWA, BEWR, Side blotched lizard, California ground squirrel

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

- 0624: Arrived on site. Several crew members here sitting in their cars.
- 0644: Crew has a tailboard with Cesar.
- 0648: Spoke to Cesar, said the plan was to fix irrigation lines to plants, fixing basins of container plants and pull nonnatives
- 0700: Crew begins pulling Lepidium latifolium behind water tank in DG-3A.
- 0728: Crew fixing container plant basins in DG-2.
- 0747: Cesar said he was heading out for the day. The crew would continue with the rest of the work.
- 0845: Break.
- 0918: Crew back from break.
- 1032: Crew continues with same work in DG-2.
- 1230: Lunch.
- 1316: Crew returns from lunch.
- 1416: Crew cleaning up.

Additional Comments

N/A



Non-natives_prior_to_weeding_DG-3A.jpg



DG-3A_after_non-natives_are_pulled.jpg



DG-3A_during_weeding_facing_north.jpg



Container_plant_after_being_fixed.jpg

Company: Stillwater
Date of Log: October 21, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	60 °F	0-3 MPH	0 %
End of Day	11:00	73 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction	Activity:
--------------	-----------

Natures Image (NI) crew of six pulling weeds in DG-4A along the side slope of the basin.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

BUSH, ACWO, HOFI, WREN, AMCR, CALT, BLPH, BEWR.

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: I cleared the area.

0700: The crew began weeding.

0830: Edison tree crews arrived to trim along the west road under the power lines. Tree crews blocked most of the road making it difficult to get NI vehicles close. Most of the crew began removing tarped vegetation around 1000 due to the long walk. NI crew finished weeding at 1100 and began cleanup.

Additional Comments

N/A

Signature

AIPC MAD



photo_1-Vegetation_Removal_before_facingS.jpg



photo_2-Vegetation_Removal_after_facingS.jpg



photo_3-Vegetation_Removal_before_facingW.jpg



photo_4-Vegetation_Removal_after_facingW.jpg -118.1765414 34.18891934722222

Devil's Gate Biological Monitoring Log Biologist/Monitor: Michael Walsh

Company: Stillwater
Date of Log: October 24, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	51 °F	4-6 MPH	0 %
End of Day	14:00	73 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Co	nstr	uctio	n A	ctiv	itv:

Natures Image crew of six weeding in DG-4 with hand tools.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

WREN, CALT, BUSH, AMCR, RCPA, WEBL, ACWO, NUWO, CASJ, MODO, WBNU, ANHU, SOSP, NOMO, WEME, WCSP, DEJU, NOFL, San Diego alligator lizard, California ground squirrel

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: Surveyed work area while crew set up.

0645: Crew began weeding DG-4. Work area was a phase one planted area just south of the lowest DG-4A clearing, primary targets were *Chenopodium album* and *Lepidium latifolium*. Some Smilo grass in area. Keyed out *Persicaria lapathifolia* with Jepson manual- advised crew not to remove.

1200: Crew moved to a DG-4 planted area adjacent to the trail. Primary targets were Himalayan blackberry and smilo grass. Re educated crew on difference between native and nonnative blackberries; both were on site.

1345: Crew began wrapping up while I inspected the site.

Additional Comments

Found a new invasive species for the site- 3 *Phytolacca americana* plants. Had crew remove them carefully; this is the first recent sighting of that species on site to my knowledge.



photo_1-20221024-before_weeding_facingS.jpg -118.17718608333334 34.188755538888884



photo_2-20221024-after_weeding_facingS.jpg -118.17719034444445 34.18875212499999



photo_3-20221024-pre_weeding_facingE.jpg -118.1775478888889 34.18925589722222



photo_4-20221024-post_weeding_facing_E.jpg -118.177528388888889 34.189234166666665

Devil's Gate Biological Monitoring Log Biologist/Monitor: Maddy Panzino

Company: ECORP Date of Log: October 24, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	53 °F	0-3 MPH	0 %
End of Day	14:30	73 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Con	stru	ıction	Acti	vity:

- 1. Weed abatement in EMA, container plant maintenance in DG-2.
- 2. Hand tools (shovels, rakes, etc.).
- 3. Gothic landscape, Cesar Olmos and crew of ten landscapers.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

Monarch butterfly, western toad, side blotch lizard, western fence lizard, coastal whiptail, RCPA, CATH, ACWO, CORA, AMCR, SOSP, WCSP, RTHA, CASJ, CALT, HOFI, SPTO, ANHU, YRWA, NOMO, BLPH, BUSH, COHA, WREN, CAQU, TUVU, RCKI, WTSW, desert cottontail, California ground squirrel

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: Arrive on site.

0655: Crew begins work on southern end of DG-2, maintaining dirt rings around container plants.

0740: Confirmed that construction will not occur in the basin today, Crew begins weed abatement in Episodic maintenance area (EMA) using hand tools.

1400: Crew begins loading pulled weeds into truck.

1430: Crew finishes work for the day.

1435: Depart site.

Additional Comments

N/A

Signature

Mogrus



EMA_Before_facingN.jpg -118.17378716666667 34.18790634166666



EMA_During_facingN.jpg -118.17375016666666 34.18788030555555



EMA_After_facingN.jpg -118.17376658333333 34.18789004722222



EMA_After_facingS.jpg -118.17300465833334 34.18954947222222

Devil's Gate Biological Monitoring Log Biologist/Monitor: Michael Walsh

Company: Stillwater
Date of Log: October 25, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	53 °F	0-3 MPH	0 %
End of Day	13:30	74 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Natures Image crew of ten hand pulling weeds in DG-4 near the basin slope.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

CALT, BGGN, AMCR, SOSP, WCSP, BUSH, HOFI, LEGO, RCPA, KILL, NOFL, CORA, NUWO, CAQU, COHA, RSHA, BTYW, AMKE, BEWR, YRWA, ACWO, RCKI, San Diego alligator lizard, California ground squirrel

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0630: Surveyed work area while crew set up.

0655: Crew began weeding DG-4/DG-4A near the edge of the basin; primary target was *Chenopodium album*. One crew member on irrigation. Noted a lot of *Tamarisk* sp. seedlings on the bottom of the basin slope, see photograph.

0730: Relocated a large San Diego alligator lizard.

0900: Found a coyote den, advised crew to avoid. Appeared active.

1200: Three crew members began removing tarps while rest of crew continued. Crew was allowed to park the Kubota and a work truck near the weeding area in the basin. Specifically explained that nobody was to drive into the EMA or the non-vegetated channel inside of it; showed drivers exactly where they were allowed to park.

1315: Whole crew moved onto cleanup, inspected site.

Additional Comments

N/A



photo_1-20221025-pre_weeding_facingS.jpg -118.17651902777779 34.188914436111105



photo_2-20221025-post_weeding_facingS.jpg -118.176615111111112 34.188953444444444



photo_3-20221025-Tamarisk_in_basin_facingN.jpg -118.176728333333334 34.18807721388889

Devil's Gate Biological Monitoring Log Biologist/Monitor: Maddy Panzino

Company: ECORP Date of Log: October 25, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	53 °F	0-3 MPH	0 %
End of Day	14:15	75 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Weed abatement in EMA and side slopes.
- 2. Hand tools (shovels, rakes, etc.).
- 3. Gothic landscape, Cesar Olmos and crew of ten landscapers

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

western toad, side blotch lizard, western fence lizard, RCPA, CATH, ACWO, CORA, AMCR, SOSP, WCSP, RTHA, CASJ, CALT, HOFI, SPTO, ANHU, YRWA, BLPH, BUSH, HOWR, BEWR, CAQU, RCKI, AMPI, desert cottontail, California ground squirrel

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: Arrive on site.

0655: Crew continues weed abatement effort in Episodic maintenance area (EMA) using hand tools.

0800: Crew moves to side slopes EMA near dam for weed abatement.

1330: Crew begins weed abatement near Altadena drainage.

1410: Crew finishes weeding for the day.

1415: Depart site.

Additional Comments

N/A



EMA_before_facingN.jpg -118.17298455555556 34.1903992583333



EMA_after_facingNE.jpg -118.17302830555556 34.19031758333333



EMA-SideSlopes_facingS.jpg -118.17452622222223 34.18618791666666



Altadena_weeding_facingW.jpg -118.17315944444445 34.18728881111111

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carla Marriner

Company: ECORP Date of Log: October 26, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:40	52 °F	0-3 MPH	30 %
End of Day	14:30	74 °F	4-6 MPH	10 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Weed removal; irrigation check; trash removal; general maintenance activities occurring within restoration site Southeast (SE) and East (E).
- 2. Hand tools.
- 3. Gothic landscape Cesar and crew ~11 workers.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

RTHA, COHA, CASJ, BEWR, HOFI, BUSH, CALT, AMCR, Amazonia sp., LEGO, YRWA, WCSP, SOSP, WREN, MODO, CATH, OCWA, RSHA, CORA, CAQU, BHGR, Squirrel, Cottontail, Western fence lizard, Painted lady butterfly, Monarch butterfly

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Loa Entry

- 0645: Met with landscape contractor. Crew mobilized to the SE portion of restoration site to remove weeds.
- 0700: Started walking the perimeter of restoration sites with Cesar.
- 0730: Maintenance activities occurring including irrigation valves checks.
- 0845: Crew-break

Maintenance activities - bio monitoring: Crew has been working on the restoration site removing dodder from shrubs and tree branches and other small weeds - picking up trash, fixing irrigation valves.

- 1150: Lunch break.
- 1230: Maintenance activities continue on the eastern portion.
- 1230-1430: Monitored weed removal the rest of the day/coordinated activities with landscape contractor.
- 1430: End of maintenance activities for the day.

Additional Comments

N/A



Weeding_activities_facingS.jpg -118.17249773055556 34.18941172222222



Mulefat_cuttings.jpg -118.17250692500001 34.18935372777777



View_of_restorarion_site_SE_facingN.jpg -118.17275879166667 34.188894194444444



Contractor_removing_Nonnative_dodder_.jpg -118.17194806111111 34.19054181944444

Devil's Gate Biological Monitoring Log Biologist/Monitor: Alec Mang

Company: Stillwater
Date of Log: October 26, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	51 °F	0-3 MPH	0 %
End of Day	14:00	73 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Did You Observe any Non-Compliance Issues? \square Yes \boxtimes No

Restoration Monitoring

Construction Activity: Natures Image crew of six pulling weeds in DG-4A and one crew member on irrigation.
Did you observe any special-status species? □ Yes ☑ No
Were any least Bell's Vireo detected? □ Yes ☑ No
List of species observed while monitoring: MODO, CASJ, ACWO, BTYW, BUSH, HUVI, RSHA, AMCR, BEWR, HOFI, SOSP.

Log Entry

0630: I cleared the area. One coyote den was found, and I created at 25-foot buffer. Crews began weeding at 0710 in DG-4A along the basin and worked their way south.

1315: Crew drove Natures Image truck into basin to load up vegetation. Crews stopped pulling at 1400.

Additional Comments

N/A



photo_CoyoteDen-facingW.jpg -118.17672163888889 34.18873987222222



photo-VegetationRemoval-before-facingS.jpg



photo_VegetationRemoval_after_facingS.jpg -118.17693265555556 34.18873033333333

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carter Warwick Date of Log: October 27, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	54 °F	0-3 MPH	0 %
End of Day	14:30	74 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Gothic restoration crew.

Did you observe any special-status species? $\square \ \ \text{Yes} \ \boxdot \ \ \text{No}$

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

WCSP, RSHA, AMCR, CALT, CATH, SOSP, LEGO, BLPH, WREN, NOMO, HOFI, AMKE, Amazona spp., coyote, BGGN, ACWO, NOFL, RCKI

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0645: Tailboard.

0650: Begin working on backside of DG-2. Fixing basins and irrigation. Removing small sections of dodder.

0930: Crew break.

1000: Continue dodder removal.

1130: Checking irrigation for damage from animals.

1200: Lunch.

1230: Continue to remove dodder on back side of DG-2.

1420: End work.

1430: Depart.

Additional Comments

N/A



Maintained_irrigation_basin.jpg



Dodder_removal_facingE.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Alec Mang

Company: Stillwater
Date of Log: October 27, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	51 °F	0-3 MPH	0 %
End of Day	13:30	70 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

· ·
Construction Activity: Natures Image (NI) crew of six weeding in DG-4 and one NI crew member on irrigation.
Did you observe any special-status species? □ Yes ☑ No
Were any least Bell's Vireo detected? □ Yes ☑ No
List of species observed while monitoring: SBMU, YRWA, BLPH, AMCR, CALT, CORA, WCSP, MODO, BEWR, HOFI, SOSP.
Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: I surveyed the work areas.

0700: The crew finished off weeding where they left off the day before in DG-4A.

0745: We moved to the far South end in DG4 along the basin ramp. The crew worked their way back north along the ramp

1330: The crew stopped weeding and began cleanup.

Additional Comments

N/A

Signature

AriM



photo_1-VegetationRemoval-before-facingW.jpg



photo_2-VegetationRemoval-during-facingS.jpg



photo_3-VegetationRemoval-after-facingW.jpg -118.17684776388889 34.18676

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carter Warwick

Company: ECORP Date of Log: October 28, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	54 °F	0-3 MPH	0 %
End of Day	14:30	76 °F	4-6 MPH	40 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Gothic restoration crew.

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

BLPH, WCSP, LEGO, Amazona spp., ACWO, CATH, CASJ, HOFI, AMCR, RCKI, CALT, BGGN, ANHU, RSHA, NOFL, cottontail, California ground squirrel, western fence lizard, whiptail

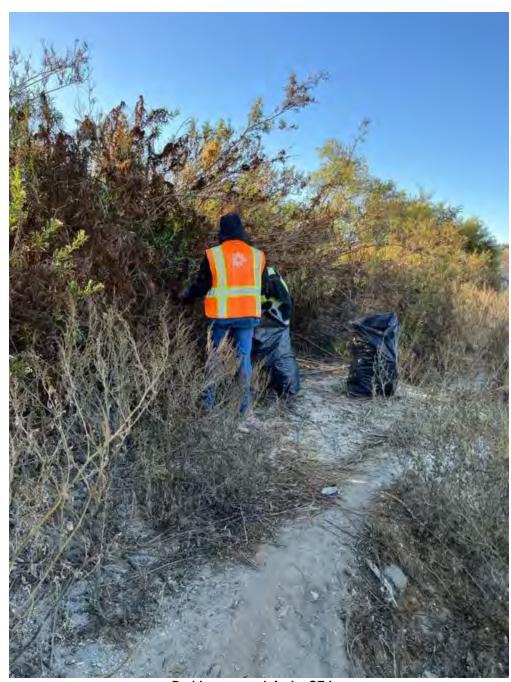
Did You Observe any Non-Compliance Issues? \square Yes \boxdot No

Log Entry

- 0630: On site. Crew having issues with lock on North side, drove around to use South access.
- 0705: Work starts in DG-2. Continuing to do detail work, removing small sections of dodder. Continue checking irrigation.
- 0830: Bagging removed vegetation to be hauled out.
- 0930: Crew break.
- 1000: Continue removing dodder.
- 1100: Cesar departs.
- 1200: Lunch.
- 1230: Checking basins/irrigation/pulling dodder.
- 1330: Bagging up removed vegetation to be hauled out.
- 1430: End of work.

Additional Comments

N/A



Dodder_removal_facingSE.jpg



DG-2_after_dodder_removal_facingNE.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Alec Mang

Company: Stillwater
Date of Log: October 28, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	54 °F	0-3 MPH	0 %
End of Day	11:00	72 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction A	ctivity:
----------------	----------

Natures Image (NI) crew of seven weeding in DG-4 and one crew member on irrigation.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, ŚOSP, BLPH, WEME, AMKE, COHĀ, WTSW, CALT, CASJ, BEWR, BUSH, ACWO, HOFI, MODO, RCPA, WCSP, KILL, YRWA.

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0630: I cleared the area for work.

0700: The crew began weeding at the south end working their way North. Crew stopped weeding at 1100 and began cleanup.

Additional Comments

N/A



photo_1-Vegetation_Removal_before_facingN.jpg



photo_2-Vegetation_Removal_during_facingN.jpg



photo_3-Vegetation_Removal_after_facingN.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Michael Walsh

Company: Stillwater
Date of Log: October 31, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	57 °F	0-3 MPH	20 %
End of Day	13:45	79 °F	4-6 MPH	80 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Natures Image (NI) crew of eight weeding in the Flint wash.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

RCPA, AMCR, SOSP, YRWA, CALT, WREN, BUSH, BEWR, ACWO, NOFL, HOFI, COHA, NUWO, EUST, BTPI, LEGO, ANHU, MGWA, BLPH, WCSP, KILL, CORA, coyote, California ground squirrel, desert cottontail

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0630: Arrived on site, coordinated with foremen.

0645: Surveyed work area.

0655: Cleared crew to weed the Flint wash. Clearly delineated borders of the polygon so the crew knew where to weed since this area is new to them. Primary weeds were: *Chenopodium album*, pepperweed, and castor bean. Natives were sparse, but included *Ambrosia acanthacarpa*, *Salix goodingii* and mulefat. Identified several coyote dens, most looked inactive or sparsely used. Had crew avoid working directly near the openings or standing over them.

1330: crew began wrapping up while I inspected the site.

Additional Comments

Macgillivary's warbler (very uncommon, but not special-status) observed in flint wash.



photo_1-20221031-pre_weeding_facingS.jpg -118.17661158333334 34.186369005555555



photo_2-20221031-post_weeding_facingS.jpg -118.17662452777778 34.18639630833333



photo_3-20221031-pre_weeding_facingNE.jpg -118.17659344444445 34.186386049999996



photo_4-20221031-post_weeding_facingNE.jpg -118.1765855138889 34.18636579166667

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carter Warwick

Company: ECORP
Date of Log: November 1, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	57 °F	0-3 MPH	10 %
End of Day	14:30	70 °F	4-6 MPH	15 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Coi	าstr	uctio	n Ac	tivity	v :

Gothic crew, removing dodder throughout Johnson field and DG-2.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

WCSP, CATH, ACWO, RSHA, CASJ, AMCR, coyote, CALT, BUSH, RCKI, cottontail, MODO, NOFL, NOMO, SPTO, BGGN, western fence lizard, whiptail

Did You Observe any Non-Compliance Issues? \square Yes \boxdot No

Log Entry

0630: On site.

0645: Tailboard. Crew doing some watering on NE side of Johnson field. Still some dodder spread sparsely though out DG2 and Johnson field.

0930: Crew break.

1000: Continue watering individual basins.

1430: Depart site.

Additional Comments

N/A

Signature

1/1/1



Photo_1_irrigated_basins_facingE.jpg



photo_2-removed_dodder.jpg



photo_3-watering_materials_facingSW.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Michael Walsh

Company: Stillwater
Date of Log: November 1, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	55 °F	4-6 MPH	7 %
End of Day	13:45	68 °F	0-3 MPH	15 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction	Activity:
--------------	-----------

Natures Image crew of nine weeding the Flint Wash, foreman Genaro.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

ACWO, CORA, YRWA, RSHA, RCPA, BLPH, HOFI, WCSP, SOSP, EUST, LEGO, WTSW, CASJ, coyote, desert cottontail, fox squirrel.

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0630: Surveyed work area while crew set up.

0650: Cleared crew to work in Flint Wash. Numerous new/less common weeds in channel included barnyard grass, *Persicaria maculosa* (P. lapathifolia, a native, also present), Zea mays (corn), *Solanum lycopersicum* (tomato), palm trees, castor bean and tree tobacco. Monitored weeding. A possibility active coyote den was avoided by 20 feet. 1000: Some crew members went slightly east, up the hill. Primary target in this area was *Chenopodium album*, some pepperweed.

1330: Crew wrapped up while I inspected the site.

Additional Comments

N/A



photo_1-20221101-before_facingS.jpg -118.17628022222223 34.186363727777774



photo_2-20221101-after_facingS.jpg -118.17626458333334 34.186357916666665



photo_3-20221101-before_facingW.jpg -118.17616982222222 34.186357486111106



photo_4-20221101-after_facingW.jpg -118.17584136111111 34.186356436111105

Devil's Gate Biological Monitoring Log

Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: November 2, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	56 °F	4-6 MPH	95 %
End of Day	09:15	57 °F	4-6 MPH	100 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction	Activity:
--------------	-----------

- 1. Removing dodder.
- 2. Shears, rakes.
- 3. Crew of eight, Gothic Landscaping.

Did	l you o	bserve a	any spec	ial-status	species?	' 🗆 '	Yes ☑	No
-----	---------	----------	----------	------------	----------	-------	-------	----

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

Bullfrog, desert cottontail, RSHA, CALT, ACWO, WCSP, AMCR, YRWA, CASJ

Did You Observe any Non-Compliance Issues? \square Yes \boxdot No

Log Entry

0615: Arrived on site.

0630: Tailboard meeting.

0700: Crew started work: removing dodder from native vegetation.

0845: Started raining. Crew took a break to wait out the rain.

0915: Crew and I left site due to rain. Restoration will continue as usual tomorrow.

Additional Comments

N/A

Signature

LAP M



Rain_break_facingNW.jpg -118.1713951388889 34.19227430555555

Company: Stillwater Date of Log: November 2, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	53 °F	0-3 MPH	100 %
End of Day	14:00	65 °F	4-6 MPH	100 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity: Natures Image crew of six weeding in DG4 West of the truck ramp.
Did you observe any special-status species? ☐ Yes ☑ No
Were any least Bell's Vireo detected? □ Yes ☑ No
List of species observed while monitoring:

BLPH, KILL, AMCR, RSHA, YRWA, HOFI, BEWR, RCPA.

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

Crew planned to weed in the Flint Wash area but the creek was flowing and blocking access to the area (photo 1). We continued weeding in DG-4A on the South side just West of the truck ramp. 0930-1010: Crew stopped work to avoid moderate downpour. Work picked up again at 1015. Crew continued working North and ended at 1400.

Additional Comments

N/A



photo_1-FlintWash_facingE-.jpg



photo_2-VegetationRemoval_before_facingN.jpg



photo_3-Vegetation_Removal_after_facingN-.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carter Warwick

Company: ECORP
Date of Log: November 3, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	48 °F	4-6 MPH	30 %
End of Day	14:30	62 °F	7-9 MPH	30 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Co	nstr	uction	Acti	vity:

Gothic crew. Weed removal on East restoration site.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

WREN, LEGO, CASJ, Amazona spp, AMCR, BUSH, HOFI, RSHA, MODO, HETH, NOFL, ACWO, CALT, BGGN, KILL, western fence lizard, whiptail

Did You Observe any Non-Compliance Issues? \square Yes \boxtimes No

Log Entry

- 0630: On site.
- 0710: Tailboard and safety briefing for crew.
- 0725: Crew begins detail work on West side of DG-2.
- 0930: Break.
- 1000: Continue detail work.
- 1030: Haul out bags of clippings to dumpster North of Johnson Field.
- 1200: Lunch.
- 1230: Checking irrigation and watering individual basins.
- 1300: Continue detail work, removing dodder.
- 1420: End work.
- 1430: Depart site.

Additional Comments

N/A

Signature

2//



photo_1-crew_safety_meeting.jpg



photo_2-dodder_clippings_facingNW.jpg



photo_3-new_irrigated_basin_facingE.jpg

Company: Stillwater
Date of Log: November 3, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	48 °F	7-9 MPH	15 %
End of Day	13:45	63 °F	10-12 MPH	0 %

J				1		
End of Day	13:45	63 °F	10-12 MPH	0 %		
What Type of Monitoring is Being Conducted? Restoration Monitoring						

Restoration Monitoring
Construction Activity: Natures Image (NI) crew of nine weeding in DG-4 on the South end.
Did you observe any special-status species? ☐ Yes ☑ No
Were any least Bell's Vireo detected? □ Yes ☑ No
List of species observed while monitoring: CALT, YRWA, KILL, WCSP, SOSP, HOFI, BLPH, MODO, CORA, RSHA.
Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: I checked Flint Wash and determined it was still unsafe to cross (pic 1). The crew continued working at the South end in DG-4 at 0715. Crew continued working North and stopped weeding at 1345 and began cleanup.

Additional Comments

N/A



photo_1-Flint_Wash-facingE.jpg



photo_2-Vegetation_Removal_before-facingN-.jpg



photo_3-Vegetation_Removal_after-facingN_.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carter Warwick

Company: ECORP
Date of Log: November 4, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	49 °F	0-3 MPH	40 %
End of Day	14:30	67 °F	4-6 MPH	35 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Со	nstr	uctio	n Ac	tivit	v:

Gothic crew, East side restoration. Removing weeds.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

HOFI, WCSP, RSHA, CASJ, BGGN, ACWO, NOFL, WREN, ANHU, AMCR, AMKE, MODO, BUSH

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: On site.

0645: Tailboard.

0650: Crew begins removing dodder. Not much left to be removed. Small detail work. 0900: Crew break.

0930: Dodder removal along middle stretch of Johnson Field.

1045: Checking irrigation for leaks.

1100: Cesar departs.

1130: Crew lunch.

1200: Continue detail work along W side of DG-2, some small patches of dodder.

1415: End work.

1430: Depart site.

Additional Comments

N/A



photo_1-dodder_removal_in_DG2_facingN.jpg



photo_2-work_area_post_removal_facingE.jpg

Company: Stillwater
Date of Log: November 4, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	45 °F	0-3 MPH	0 %
End of Day	11:00	64 °F	4-6 MPH	0 %

Day				- 7-5
What Type of Restoration N	of Monitoring is Beir Monitoring	ng Conducted?		
Constructio Natures Imag	•	weeding at Flint Wash.		
Did you obs	erve any special-sta	atus species? □ Yes ☑ N	lo	
Were any le	ast Bell's Vireo dete	cted? □ Yes ☑ No		
•	ies observed while i CASJ, CALT, YRW	monitoring: A, MODO, OATI, SOSP, WO	CSP, RCPA, coyote.	
Did You Obs	serve any Non-Com	pliance Issues? ☐ Yes ☑	No	

Log Entry

Flint wash was finally dry enough to continue work. 0630 I checked for safe crossing and cleared the area for weeding.

0700: The crew began weeding on the East side of the upper bank of Flint Wash. I kept crews 20 feet away from steep banks along the wash for safety. I found coyote burrows, most old and one possibly active on the Northeast side of the upper bank, crews avoided this area. Crew stopped weeding at 1100.

Additional Comments

N/A

Signature

Arc Mass



photo_1-Vegetation_Removal_before-facingE-.jpg



photo_2-Vegetation_Removal_during-facingS-.jpg



photo_3-Vegetation_Removal_after-facingE-.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Michael Walsh

Company: Stillwater
Date of Log: November 7, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	57 °F	4-6 MPH	100 %
End of Day	11:15	57 °F	4-6 MPH	100 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction	Activity:
--------------	-----------

Natures Image crew of eight weeding in DG-4B.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

WCSP, AMCR, NOFL, ACWO, CALT, RSHA, CASJ, BUSH, WBNU, RCKI, BEWR, SPTO.

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: Coordinated with Foremen on plan for day; moved to DG-4B from flint wash; rain was decided to be too big a hazard for working there.

0645: Monitored weeding in DG-4B. Primary target was perennial pepperweed and Cuscuta growing on container plants. Raining on and off for day, crew would wait out heavier events in nearby cars.

1100: Called work for the day- rain got too heavy. Photographed site and left.

Additional Comments

N/A



photo_1-20221107-pre_weeding_facingN.jpg -118.17513266666667 34.19198506944444



photo_2-20221107-post_weeding_facingN.jpg -118.17511733333333 34.19204656944444



photo_3-20221107-pre_weeding_facingS.jpg -118.1751254 34.19197709444444



photo_4-20221107-post_weeding_facingS.jpg -118.17513041666668 34.19203234722222

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carter Warwick

Company: ECORP
Date of Log: November 9, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	48 °F	0-3 MPH	0 %
End of Day	02:30	62 °F	7-9 MPH	5 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Gothic crew, East side restoration.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

HOFI, AMCR, Amazona spp, CASJ, CATH, CALT, ACWO, BGGN, WCSP, NOFL, RCKI, MALL, KILL, CORA, BUSH, RSHA

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

- 0630: On site.
- 0655: Tailboard. Plan is to continue detail work. Not many new weeds despite recent rain.
- 0830: Fixing basins after rain erosion.
- 0930: Crew break.
- 1000: Continue basin work.
- 1200: Crew lunch.
- 1230: Continue detail work in Johnson Field.
- 1330: Fixing basins on North slope of Johnson Field.
- 1420: End work.
- 1430: Depart site

Additional Comments

N/A



photo_1-reservoir_basin_facing_SW.jpg



photo_2-Johnson_Field_basin_work_facingE.jpg



photo_3-basin_after_restoration.jpg

Company: Stillwater
Date of Log: November 9, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	50 °F	0-3 MPH	25 %
End of Day	14:00	59 °F	7-9 MPH	15 %

What Type of Monitoring	is Being	Conducted?
Restoration Monitoring		

Construction Activity:
Natures Image crew of nine hand pulling weeds.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:
COHA, CORA, CAQU, HOFI, CALT, SPTO, SOSP, YRWA.

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: We began in the North end in the chaparral area. I cleared the area and the crew began weeding at 0700. Mostly small patches of mustard in the area. The crew fanned out over DG-4 working South. By 1330 they reached the SE edge of the chaparral area and continued cleaning around the planted mulefat. Crew stopped weeding at 1400 and began cleanup.

Additional Comments

Electrical pole on fire at the North West corner by the horse stables. Fire crews and Edison arrived around 0945. Fire put out around 1030. Fire contained to the pole.



photo_1-Vegetation_Removal_Start_Area_facingS-.jpg



photo_2-Vegetation_Removal_during_facingS_.jpg



photo_3-Vegetation_Removal_End_Area_facingN_.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Josh Harris

Company: ECORP
Date of Log: November 10, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:32	43 °F	0-3 MPH	0 %
End of Day	14:38	65 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Cor	าstr	uctior	ı Acti	vitv:

- 1. Container plant basin maintenance.
- 2. No equipment used. Hand tools only.
- 3. Gothic; Cesar (foreman) plus eight workers.

Did y	ou observe	any special	-status spe	cies?	Yes ☑	No
-------	------------	-------------	-------------	-------	--------------	----

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

ACWO, CALT, RCPA, RTHA, CASJ, RUHU, BGGN, BEWR, HOFI, MODO, BLPH, RCKI, YRWA, CAQU, NOMO, CORA California ground squirrel

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

- 0632: Arrived on site. Several crew members already here.
- 0638: Tailboard. Crew will be focusing on fixing container plant basins that have degraded during the rain storm.
- 0645: Crew began work.
- 0824: Crew continuing to work within Johnson Field fixing basins.
- 0845: Break.
- 1100: Crew continuing with basin maintenance.
- 1145: Lunch.
- 1311: Five crew members break off to conduct maintenance in DG-2.
- 1424: Cleaning up.

Additional Comments

N/A

Signature

A//



Crew_conducting_basin_maintenance_facing_west.jpg



Crew_fixing_basins_and_pulling_dodder_facingNW.jpg



Finished_product_of_basin_maintenance.jpg

Company: Stillwater
Date of Log: November 10, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	44 °F	0-3 MPH	0 %
End of Day	14:00	62 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Con	struc	tion A	Activ	itv:
vuii	Ju uu	11011 <i>r</i>	へしいり	ILV.

Natures Image crew of nine pulling weeds in DG-4.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

WCSP, RCPA, CAQU, ACWO, SOSP, SPTO, CALT, CATH, MODO, BLPH, TUVU, AMCR, BUSH, BEWR, coyote.

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: I cleared the area for work.

0700: Crew began working in the mulefat patch at the end of DG-4 chaparral area. Crew finished this area around 0800 and moved to the North West corner of the chaparral area, pulling newly sprouting mustard all about a foot tall (pic 3). Crew stopped weeding at 1400 and began cleanup.

Additional Comments

N/A



photo_1-Vegetation_Removal_start_mulefat_facingE-.jpg





photo_3-Vegetation_Removal_mustard_facingS.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carter Warwick

Company: ECORP
Date of Log: November 11, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	47 °F	0-3 MPH	30 %
End of Day	02:30	69 °F	4-6 MPH	60 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Gothic crew, east side restoration.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

WCSP, AMCR, CORA, HOFI, ACWO, CANG, MALL, KILL, CALT, NOFL, BGGN, RSHA, BUSH

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: On site.

0645: Tailboard. Some horehound popping up on Northwest side of Johnson Field, crew will start there. They would like to repair basins on West slope but still too slick after rains.

0930: Break.

1000: Continue detail work in Johnson Field.

1200: Crew lunch.

1230: Detail work in DG-2.

1300: Checking irrigation for leaks.

1415: End work.

1430: Depart site.

Additional Comments

N/A



photo_1-horehound_to_be_removed.jpg



photo_2-horehound_removal_facingSW.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Alec Mang

Company: Stillwater
Date of Log: November 11, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	46 °F	0-3 MPH	15 %
End of Day	12:00	63 °F	0-3 MPH	15 %

What	Туре	of Monito	ring is	Being	Conducted?
Rasto	ration	Monitoring	١		

Nestoration Workshing
Construction Activity: Natures Image crew of five pulling weeds in DG-4 and DG-4C.
Did you observe any special-status species? ☐ Yes ☑ No
Were any least Bell's Vireo detected? □ Yes ☑ No
,
List of species observed while monitoring:
AMCR, WCSP, BEWR, CALT, ACWO, CASJ, MODO, CAKI, CANG, MALL, KILL, RSHA, HOFI, Coyote.
Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0630: I began clearing the work area. The crew began weeding at 0700 in DG-4/DG-4C along the hillside West of the mining pit. The crew worked their way from North and ended near the parking lot at 1100 and began cleanup. 1115-1200: I did the bi-weekly photo points task.

Additional Comments

N/A

Signature

Avels



photo_1-Vegetation_Removal_begining_Area-facingS-.jpg





photo_3-Vegetation_Removal_after_facingE_.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Michael Walsh

Company: Stillwater
Date of Log: November 14, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	46 °F	0-3 MPH	0 %
End of Day	14:00	69 °F	7-9 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Natures Image crew of 13 weeding in DG-W-2 mining pit with hand tools and an electric saw.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

RSHA, YRWA, ACWO, WCSP, CALT, AMCR, CASJ, HOFI, BUSH, RCKI, NOFL, CAQU, BEWR, CATH, BGGN, LISP, CAKI, LEGO, MODO, California ground squirrel, Common side blotched lizard, Western toad, Coastal whiptail, RCPA.

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0630: Arrived on site, surveyed work area while crew mobilized.

0645: Crew began weeding DG-W-2 mining pit. Primary target was pepperweed, which was still very short in stature and scattered. Crew also removed horse weed from planting basins in an area where it was very thick and re-formed them.

1000: Crew removed a nonnative palo verde sapling (DBH 1.5) using a motorized saw.

1230: Found a large leak in mining pit, advised crew to repair. Crew was nearing south end of mining pit.

1350: Crew began wrapping up while I surveyed the site.

Additional Comments

N/A



photo_1-20221114-pre_weeding_facingN.jpg -118.17421861111112 34.193665277777775



photo_2-20221114-post_weeding_facingN.jpg -118.17395963888889 34.19368797222222



photo_3-20221114-pre_basin_maintenance_facingE.jpg -118.17376761944445 34.19362751111111



photo_4-20221114-post_basin_maintenance_facingE.jpg -118.17373023333334 34.19366123333333

Devil's Gate Biological Monitoring Log

Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: November 14, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	46 °F	0-3 MPH	0 %
End of Day	14:45	67 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Ca	nstr	ucti	on A	Acti	vitv
		••••	• • • •		,

- 1. Mounding dirt around container plants to increase water retention, removing dodder.
- 2. Hand tools.
- 3. Crew of eight, Gothic Landscaping.

Did you observe any special-status species? \square Yes \boxdot No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

CANG, SOSP, RCPA, RWBL, WCSP, HOFI, KILL, GCKI, CALT, CASJ, MALL, California ground squirrel, Desert cottontail, Western fence lizard

Did You Observe any Non-Compliance Issues? \square Yes \boxdot No

Log Entry

0615: Arrived on site.

0630: Tailboard meeting.

0645: Crew headed to work area, started working.

0645-1430: Monitored restoration.

1430: Crew finished work for the day.

1445: Left site.

Additional Comments

N/A

Signature

Elyn W



Dirt_mounding_facingW.jpg -118.17278372222222 34.18881613888889



Dirt_mounding_facingS.jpg -118.17265467777779 34.189038966666665



Removed_dodder_facingS.jpg -118.172271883333334 34.19005801666666



Vegetation_to_be_removed_facingNE.jpg -118.17233559444445 34.18981329444444

Devil's Gate Biological Monitoring Log Biologist/Monitor: Michael Walsh

Company: Stillwater
Date of Log: November 15, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	48 °F	4-6 MPH	0 %
End of Day	13:45	68 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Cor	าstr	uctior	ı Acti	vitv:

Natures Image crew of nine weeding DG-W-2 mining pit, DG-4, DG-4 WOUS.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

CAQU, CASJ, YRWA, AMCR, WCSP, CALT, DEJU, ACWO, CANG, MALL, BUSH, RCPA, BGGN, KILL, AMWI, AMCO, HOFI, RNDU, BUFF, RUDU, REDH, CASJ, RSHA, NOFL, CORA, WEBL, CAKI, LEGO, EUST, BLPH, NUWO, CATH, ECDO, MODO, EAGR, OATI, ALHU, RTHA, SAPH, WEME, RCKI, WREN, WBNU, BEWR, ANHU, HETH, OCWA, California ground squirrel, common side blotched lizard, western fence lizard.

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0630: Arrived on site, surveyed work area while crew set up.

0645: Crew began weeding DG-W-2 mining pit. Primary targets were poison hemlock and pepperweed, both of which were very scattered. Crew quickly worked through mining pit.

0900: Crew moved to the far northern end of DG-4 WOUS, headed south. Similar targets/density, work continued to move very fast.

1335: Crew began wrapping up for the day, they had finished most of DG-4 WOUS.

Additional Comments

N/A



photo_1-20221115-pre_weeding_facingW.jpg -118.174386544444445 34.19250238888888



photo_2-20221115-post_weeding_facingW.jpg -118.17442558333333 34.192437972222216

Devil's Gate Biological Monitoring Log

Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: November 15, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	47 °F	0-3 MPH	0 %
End of Day	14:45	70 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Mounding dirt for water retention; removing dodder, pepperweed, carrot.
- 2. Hand tools.
- 3. Crew of ten, Gothic Landscaping

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

RCPA, CALT, HOFI, AMCR, YRWA, VESP, WCSP, CANG, WREN, HOLA, SAPH, CASJ, Western fence lizard.

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0615: Arrived on site.

0630: Tailboard meeting.

0645: Crew headed to work area, started work.

0645-1430: Monitored restoration.

1430: Crew finished work for the day.

1445: Left site.

Additional Comments

N/A

Signature

Clár Mz



Carrot_sp_to_be_removed_facingN.jpg -118.17234527777778 34.190020591666666



Mounding_dirt_facingSE.jpg -118.17169102222223 34.190236



Nonnative_to_be_removed_facingE.jpg -118.17159040277778 34.19052388055555



Dodder_to_be_removed_facingNE.jpg -118.1723320388889 34.18969611111111

Devil's Gate Biological Monitoring Log

Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: November 16, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	54 °F	7-9 MPH	0 %
End of Day	14:45	71 °F	7-9 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction	Activity:
--------------	-----------

- 1. Mounding dirt around natives for water retention, removing nonnatives.
- 2. Hand tools.
- 3. Crew of ten, Gothic Landscaping.

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

YRWA, HOFI, ANHU, RCKI, AMCR, CALT, RTHA, CASJ, California ground squirrel, Western fence lizard

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0615: Arrived on site.

0630: Tailboard meeting.

0645: Crew headed to work area, started work.

0645-1430: Monitored restoration.

1430: Crew finished work for the day.

1445: Left site.

Additional Comments

N/A

Signature

Clyc Mz



Filled_in_ruts_facingS.jpg -118.17363654166667 34.18616815555555



Sapling_exclusion_fence_facingSE.jpg -118.172896344444445 34.18853026666666



Planted_cuttings_facingE.jpg -118.17288045000001 34.18855113055555



Removed_lambs_quarters_facingW.jpg -118.17286065 34.18862291666667

Devil's Gate Biological Monitoring Log Biologist/Monitor: Alec Mang

Company: Stillwater
Date of Log: November 16, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	55 °F	4-6 MPH	0 %
End of Day	14:00	71 °F	4-6 MPH	0 %

What	Type of	Monitoring	is Beina	Conducted?
	. , po o.		9	oonaaotoa.

Restoration Monitoring

Construction	Activity:
--------------	-----------

Natures Image crew of six pulling weeds.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

CALT, ACWO, CASJ, RCKI, AMCO, CANG, MALL, AMWI, LEGO, BUSH, SAPH, RSHA, SPTO, DEJU, BLPH, AMCR, CORA, RTHA, WCSP, ALHU, Coyote.

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0630: I cleared the area for work and crews began weeding at 0700 in DG-4B/DG-4 along the parking area working their way South.

1200: The crew moved into boulder and began weeding there until 1400.

Additional Comments

N/A



photo_1-VegetationRemoval-during-facingN-.jpg



photo_2-VegetationRemoval-during-facing-S_.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Maddy Panzino

Company: ECORP

Date of	Log:	November	17, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	45 °F	0-3 MPH	0 %
End of Day	14:30	73 °F	4-6 MPH	5 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Irrigation maintenance, container plant maintenance.
- 2. Hand tools (shovels, rakes, etc.)
- 3. Gothic landscape, Cesar Olmos and crew of nine landscapers.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

western fence lizard, side-blotched lizard, LEGO, RCKI, MODO, ACWO, CORA, AMCR, SOSP, BEWR, WCSP, RTHA, CASJ, CALT, HOFI, KILL, ANHU, NOMO, BLPH, BUSH, WREN, CAQU, NOFL, coyote, California ground squirrel, desert cottontail

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

06:30: Arrive on site.

06:45: crew begins work in Johnson Field, staking irrigation lines to direct flow of water and fixing leaks. Also maintaining dirt rings around container plants.

07:30: Worker found a dead CALT in container plant in Johnson Field. He said this was the second dead CALT he's found this week.

14:30: Crew finishes work in Johnson Field for the day.

14:35: Depart site.

Additional Comments

N/A

Signature

Mrgm



Irrigation_Leak_Johnson_Field.jpg -118.17187712500001 34.19210993611111



CALT_carcass_Johnson_Field.jpg -118.17209087222223 34.19163725



Irrigation_Maintainence_Johnson_Field.jpg -118.171691944444445 34.192135444444444



Irrigation_Line_Repaired.jpg -118.17186621388889 34.19211320555555

Devil's Gate Biological Monitoring Log Biologist/Monitor: Alec Mang

Company: Stillwater
Date of Log: November 17, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	48 °F	4-6 MPH	0 %
End of Day	14:00	70 °F	4-6 MPH	0 %

Day	14.00	70 1	4-0 1011 11	0 78
What Type of Restoration	of Monitoring is Beir Monitoring	ng Conducted?		
Construction Natures Ima	•	ding at boulder (DG-4A).		
Did you obs	serve any special-sta	ntus species? □ Yes ☑ N	lo	
Were any le	ast Bell's Vireo dete	cted? □ Yes ☑ No		
	ies observed while r ., CANG, CASJ, CAL	<u> </u>	HOFI, YRWA, CAQU, SAPH, F	RCKI, WBNU, CAKI.
Did You Ob	serve any Non-Com	pliance Issues? ☐ Yes ☑	No	
	ed the work area. Cregan cleanup.	ws continue working "bould	der" today and moving south. C	Crews stopped weeding at

Additional Comments

N/A

Signature

Jens



photo_1-Vegetation_Removal_before_facingE_.jpg



photo_2_Vegetation_Removal_during_facingE_.jpg



photo_3_Vegetation_Removal_after_facingE_.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carter Warwick

Company: ECORP
Date of Log: November 18, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	48 °F	0-3 MPH	0 %
End of Day	12:15	67 °F	0-3 MPH	15 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Gothic crew, east side restoration.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, WCSP, CASJ, MALL, CANG, WREN, HOFI, GBHE, KILL, RCKI, SAPH, CALT, BGGN, SOSP, ACWO, BLPH, NOFL, RTHA

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0630: On site.

0645: Tailboard. Plan to check entirety of irrigation system for leaks. Not many weeds to be pulled, only small detail

work. Cesar to depart immediately for another site.

0900: Crew break. 0930: Working in South section by construction staging area. Detail work.

1100: Move back to detail work in DG2. Small sections of dodder.

1215: End work.

Additional Comments

N/A



photo_1-irrigation_work.jpg



photo_2-checking_irrigation_facingS.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Alec Mang

Company: Stillwater
Date of Log: November 18, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	49 °F	0-3 MPH	0 %
End of Day	11:00	67 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction	Activity:
--------------	-----------

Natures Image crew of four pulling weeds in DG-4A.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, LEGO, CALT, NOFL, CASJ, HOFI, ANHU, TUVU, RSHA, RCKI, BGGN, BUFF, MALL, CANG, KILL, BLPH, YRWA, CAQU, CORA, coyote.

Did You Observe any Non-Compliance Issues? \square Yes \boxdot No

Log Entry

0630: I cleared the area for work.

0650: Crews began weeding in "boulder" picking up from previous day. Crews continued moving south through the open field of "boulder".

1100: Crews began clean up.

Additional Comments

N/A

Signature

Ale A



photo_1-Vegetation_Removal_during_facingN_.jpg



photo_2-Vegetation_Removal_during_facing-S-.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Dawn Garcia

Company: Stillwater
Date of Log: November 21, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	45 °F	0-3 MPH	10 %
End of Day	14:00	72 °F	4-6 MPH	50 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Restoration, Natures Image crew weeding at boulder area. Genero, Edwardo, Linda, Ryan. Using hula hoes and shovels to weed in compact ground at boulder.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

WCSP, ALHU, ANHU, AMCR, CALT, RCPA, HOFI, BUSH, BEWR, NOFL, NUWO, ACWO, CSJA, WREN, LEGO, SOSP, YRWA, SPTO, RCKI, BGGN, CAQU, RSHA, COHA, RTHA, PUFI.
In reservoir: REDH, BUFF, HOME, CANG, MALL, RUDU, RNDU, AMCO, EAGR, KILL, AMPI

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0630: Meet with crew, recap last weeks activities.

0645: Survey the day's weeding area at boulder DG-4A. Crew starts at 0700. The ground is frosty and compact. They work in the same area all day. Progress is slower, but detailed, because weeds are small. Birds (YRWA,WCSP,CALT, BLPH, BUSH, RCKI) are foraging in the area post weeded spots. BLPH using shovel handle as perch during crew break! Crew finished pulling at 1330, break, then cleanup.

Additional Comments

the site looks really good from N -S and I was able to traverse through it. There are thousands of seedlings sprouting throughout the restoration and it is difficult to differentiate in mixed patches (photo 3). The crew will wait on these areas until the plants are larger.

Signature

MÉN



photo_1Small_numerous_patches_of_pepperweed_for_removal.jpg -118.17484950000001 34.19042994444444



photo_2Boulder__weeding_area_looking_north.jpg -118.17482969444445 34.19041436111111



photo_3Mixed_emerging_seedlings.jpg -118.17512697222223 34.190889166666665



photo_4post-weeding_pepperweed_removal.jpg -118.17486427777779 34.190472899999996

Devil's Gate Biological Monitoring Log Biologist/Monitor: Maddy Panzino

Company: ECORP

Date of Log: November 21, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	50 °F	0-3 MPH	0 %
End of Day	14:30	73 °F	4-6 MPH	70 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Irrigation maintenance, container plant maintenance.
- 2. Hand tools (shovels, rakes, etc.).
- 3. Gothic landscape, Crew of six landscapers.

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

western fence lizard, CANG, MALL, CALT, BGGN, YRWA, RCKI, SPTO, ACWO, CORA, AMCR, SOSP, BEWR, WCSP, RTHA, CASJ, HOFI, ANHU, BUSH, WREN, coyote, California ground squirrel, desert cottontail

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

06:30: Arrive on site.

06:50: Crew begins maintenance activities in DG-2.

08:00-9:30: Crew does a walk through of EMA side slopes and pulls any weeds they see.

10:00: Crew resumes maintenance activities in DG-2.

12:30: Crew re-staked irrigation line on south end of east side slopes that had fallen.

14:30: Crew finishes work for the day.

14:35: Depart site.

Additional Comments

N/A



Container_Plant_Maintenance_DG2.jpg -118.172706855555556 34.188961066666664



Weed_Abatement_EMA.jpg -118.17280248611111 34.19070458333333



Repaired_Irrigation_Line.jpg -118.17305762222223 34.18695797222222

Devil's Gate Biological Monitoring Log

Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: November 22, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	52 °F	4-6 MPH	15 %
End of Day	14:45	71 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Cor	าstr	uctior	ı Acti	vitv:

- 1. Removing nonnatives, irrigation.
- 2. Hand tools.
- 3. Crew of six, Gothic Landscaping.

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

CALT, WCSP, CASJ, SPTO, ANHU, HETH, SOSP, WREN, RCKI, CANG, CORA, KILL, AMCO, MALL, RTHA

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0615: Arrived on site.

0630: Tailboard meeting.

0645: Crew headed to work area, started working.

0645-1430: Monitored restoration.

1430: Crew finished work for the day.

1445: Left site.

Additional Comments

N/A

Signature

Elya Ma



Irrigation_on_facingNW.jpg -118.17167872222223 34.19206676111111



Carrot_sp_to_be_removed_facingW.jpg -118.17232258333334 34.1900346



Nonnatives_to_be_removed_facingE.jpg -118.17229151666668 34.18993916666666



Flowering_elderberry_facingNE.jpg -118.17256763888889 34.18946401388889

Devil's Gate Biological Monitoring Log Biologist/Monitor: Dawn Garcia

Company: Stillwater
Date of Log: November 22, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	49 °F	0-3 MPH	5 %
End of Day	14:00	72 °F	4-6 MPH	5 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:	
Raul foreman brings crew of two	, plus regular four. Natures Image.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

In reservoir: CANG, MALL, REDU, RUDU, AMCO, KILL. In restoration: BLPH, LEGO, CAKI, NOFL, NUWO, ACWO, SOSP, WCSP, CHSP, YRWA, WEBL, HOFI, MODO, BTPI, BEWR, BGGN, BUSH, CALT, SPTO, RSHA, CATH, SAPH. Many small and quick lizards moving around as the day heats up.

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: Crew meets and continues at boulder. Crew of six using hand hoes and shovels continue to pull pepperweed. Linda weeds/irrigates the tire wash. Irrigated plants are growing well, invasive chenopodium is surrounding plant wells and pulled until lunch time. After lunch crew move South across the trail to weed and rake under mulefat. DG-4. I remove old nest buffer flags. Crew stops weeding at 1345. Clean up and haul the rest of the day.

Additional Comments

Geese are gone both afternoons, I dont know where they go. Many small songbirds are using the recently weeded areas, on the ground and plants.



Weeding_continues_in_boulder_DG-4A_lookingNW.jpg -118.17482825 34.190477055555554



Reservoir_provides_waterfowl_habitat.jpg -118.1747456388889 34.19035461944444



Linda_weeds_SW_planted_area.jpg -118.178152555555556 34.18665898055555



DG4A_maintenance_South_of_Boulder_lookingW.jpg -118.17506261111112 34.1901321

Devil's Gate Biological Monitoring Log Biologist/Monitor: Josh Harris

Company: ECORP
Date of Log: November 23, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:23	44 °F	0-3 MPH	0 %
End of Day	13:55	73 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Co	nstr	uctio	n A	ctiv	itv:

- 1. Weed abatement; crew focused on pulling Eriodum cicutarium, Lepidium latifolium, Marrubium vulgare.
- 2. Hand tools.
- 3. Gothic; crew of ten plus Cesar Olmos (foreman).

Did you observe any special-status species? $\hfill\Box$ Yes $\hfill \boxtimes$ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

BEWR, CANG, WCSP, RCKI, CASJ, AMCR, BGGN, ACWO, CALT, ANHU, HOFI, LEGO, MALL, WEKI, SPTO, CAQU

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

- 0623: Arrived on site. Several crew members already here, waiting in their cars.
- 0630: Tailboard. Crew would be working on side slopes (episodic maintenance). The focus would be to work northeast and pull all non-natives.
- 0700: Arrived at side slopes. Crew began working.
- 0845: Break.
- 0912: Cesar leaving the site. He said the crew would continue with weed abatement along the side slope then into DG-1.
- 1019: Crew split up. Four crew members are working within DG-1 working northeast pulling non-natives. Remaining crew went with Johnathon to conduct work within DG-2.
- 1100: DG-2 crew rejoins with crew working northeast in DG-1.
- 1145: Lunch.
- 1245: Crew returns from lunch.
- 1300: Crew would be shifting back to Johnson Field for the remainder of the day.
- 1315: Johnathon takes one crew member with him to turn off the water.

Additional Comments

N/A



Nicotiana_glauca_that_was_pulled.jpg



Crew_working_along_side_slope_facing_west.jpg



Devil's Gate Biological Monitoring Log Biologist/Monitor: Alec Mang

Company: Stillwater
Date of Log: November 23, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	51 °F	0-3 MPH	0 %
End of Day	12:00	71 °F	4-6 MPH	0 %

What	Type of	f Monito	rina is	Beina	Conducted?
vviiat	i ypc o	WOITIC	nnig is	Denig	Conducted:

Restoration Monitoring

Restoration Monitoring
Construction Activity: Natures Image crew of seven pulling weeds. Tools used: shovels, trowels and rakes.
Did you observe any special-status species? ☐ Yes ☑ No
Were any least Bell's Vireo detected? ☐ Yes ☑ No
List of species observed while monitoring:
YRWA, BUSH, RCKI, CANG, MALL, CALT, CASJ, AMCR, RTHA.
Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0630: I cleared the area for work. Crew began working at 0700 in DG-4 just south of boulder. Crews finished weeding at 1200 and began cleanup. I also took the bi-weekly photo report.

Additional Comments

N/A

Signature

Jen ~



photo_1-Vegetation_Removal_before_facing_W_.jpg



Vegetation_Removal_facing_S_during-.jpg



photo_3-Vegetation_Removal_facing_S_after_.jpg -118.17517513888889 34.19023882222222

Devil's Gate Biological Monitoring Log Biologist/Monitor: Michael Walsh

Company: Stillwater
Date of Log: November 28, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	48 °F	0-3 MPH	100 %
End of Day	14:00	61 °F	4-6 MPH	100 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Natures Image crew of nine weeding in DG-4.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, CALT, CASJ, ACWO, NOFL, HOFI, BUSH, AMCR, CORA, RCPA, WREN, YRWA, CATH, RSHA, BEWR, western fence lizard, California ground squirrel, CAKI.

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: Cleared crew to work in DG-4 south of the boulder clearing.

0645: Gave a new Natures Image employee WEAP training.

0720: Resumed monitoring weed removal. Primary targets were pepperweed and mustard. Noted that basin is now empty of water. New crew member given tour of site by Raul and Generro until 0830, after which he joins the weeding crew.

1200: A Natures Image crew member informed me that an irrigation timer was stolen from the fence line between 9 and 12, it was discovered while coming back from break.

1345: Crew began wrapping up, inspected site.

Additional Comments

N/A



photo_1-20221128-pre_weeding_facingS.jpg -118.17532677777778 34.19011506944444



photo_2-20221128-post_weeding_facingS.jpg -118.17533894444445 34.190093936111104

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carter Warwick

Company: ECORP
Date of Log: November 28, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	51 °F	0-3 MPH	100 %
End of Day	14:20	56 °F	0-3 MPH	75 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Gothic restoration crew, east side restoration.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

WCSP, Amazona spp, AMCR, WREN, RCKI, CALT, BGGN, HOFI, RTHA, NOFL, BUSH, ACWO

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

- 0630: On-site.
- 0705: Crew begins working just North of staging area at Johnson field.
- 0720: Jonathan relays that the bathrooms and some of the irrigation lines had been vandalized over the long weekend.
- 0815: Cesar arrives. Crew working their way north towards JPL.
- 0900: Break.
- 0930: Work resumes on north side. Small detail work.
- 1200: Lunch.
- 1230: Work resumes in Johnson field. Checking irrigation and detail work.
- 1420: End work.

Additional Comments

N/A



photo_1-crew_working_north_side_facingN.jpg



photo_2-detail_work_facing_NW.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Michael Walsh

Company: Stillwater Date of Log: November 29, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	45 °F	4-6 MPH	30 %
End of				

	11110	Tomporataro (T)	Willia Range (iiii 11)	Oloda Gover (70)		
Start of Day	06:30	45 °F	4-6 MPH	30 %		
End of Day	14:00	58 °F	4-6 MPH	100 %		
What Type of Monitoring is Being Conducted?						

What Type of Monitoring is Being Conducted? Restoration Monitoring
Construction Activity: Natures Image (NI) crew of eight weeding DG-4, DG-4A.
Did you observe any special-status species? ☐ Yes ☑ No
Were any least Bell's Vireo detected? □ Yes ☑ No
List of species observed while monitoring: RSHA, NOFL, AMCR, YRWA, ACWO, BEWR, CALT, SOSP, COHA, HOFI, NUWO, ANHU, AMRO, CASJ, WREN, BUSH, BLPH, WCSP, RCPA, CAKI, California ground squirrel.
Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0630: Cleared crew to work in DG-4 and DG-4A while they set up.

0645: Monitored weeding in DG-4A and DG-4. In DG-4A, crew targeted resprouting pepperweed moving up irrigation rows, some patches of native Phacelia cicutaria. In DG-4, crew worked to clean up planting basins which had some pepperweed and poison hemlock.

1345: Crew began wrapping up, I surveyed site and picked up trash etc. Crew had mostly finished the patch of DG-4A they were working in.

Additional Comments

N/A



photo_1-20221129-pre_weeding_basin_facingS.jpg -118.17550015 34.19005512222222



photo_2-20221129-post_weeding_basin_facingS.jpg -118.17546129166666 34.19015394444444



photo_3-20221129-pre_weeding_facingN.jpg -118.17548093333333 34.19047548333333



photo_4-20221129-post_weeding_facingN.jpg -118.17545630555556 34.19048866666666

Devil's Gate Biological Monitoring Log

Biologist/Monitor: Carla Marriner Company: ECORP

Date of Log: November 29, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	46 °F	0-3 MPH	20 %
End of Day	14:30	61 °F	0-3 MPH	20 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Weed removal; irrigation check; trash removal & general maintenance activities.
- 2. Hand tools.
- 3. Cesar project manager (PM); crew ten people.

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

COHA, MODO, WCSP, MODO, HOFI, CALT, SCJA, CAQU, CATH, AMCR, ANHU, BGGN, RTHA, OCWA, BEWR, RSHA, ACWO, BLPH, SAPH, YRWA, AMKE, Squirrel, Western fence lizard

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0630: Arrived at Johnson Field.

0640: Crew arrived onsite & started planning activities for the day. Trash removal, irrigation, NNG will be conducted throughout the day.

0700: Crew started weed removal activities on the SE portion of the restoration site.

0730: Part of the crew moved to the southern portion to pick up trash.

0830: Crew is removing nonnative species and checking irrigation valves along the SE portion of the restoration site.

0900: Break.

0930-1200: Crew continued conducting maintenance activities - NNG and pepperweed removal.

1200: Lunch break.

1230 -1430: Crew continued working near slopes and SE portion removing nonnative herbaceous species/general maintenance activities.

Additional Comments

N/A



photo_1-nonnative_herbaceous_species_removal_facingS.jpg -118.1723065138889 34.18939498333333



photo_2_crew_removing_trash_facingSW.jpg -118.17407725000001 34.186175380555554



photo_3_crewirrigating_mulefat_cuttings_facingS.jpg -118.17177689444445 34.19045915555555



photo_4_cleaning_mulefat_shrub_basin.jpg -118.17214087222223 34.191407375

Devil's Gate Biological Monitoring Log

Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: November 30, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	44 °F	0-3 MPH	85 %
End of Day	14:45	59 °F	7-9 MPH	75 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Cor	าstr	uctior	ı Acti	vitv:

- 1. Removing nonnatives, irrigation.
- 2. Hand tools.
- 3. Crew of eight, Gothic Landscaping.

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, OATI, YRWA, WCSP, CALT, HOFI, VESP, CEWA, desert cottontail.

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0615: Arrived on site.

0630: Tailboard meeting.

0645: Crew headed to work area, started working.

0645-1430: Monitored restoration.

1430: Crew finished work for the day.

1445: Left site.

Additional Comments

N/A

Signature

Elya Mc



Weeding_facingSE.jpg -118.17342609722223 34.18652327777777



Watering_plants_facingN.jpg -118.17328296666668 34.1866697555555

Devil's Gate Biological Monitoring Log Biologist/Monitor: Alec Mang

Company: Stillwater
Date of Log: November 30, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	58 °F	0-3 MPH	100 %
End of Day	14:00	62 °F	0-3 MPH	15 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity: Natures Image crew of eight pulling weeds in DG-4, DG-4A.
Did you observe any special-status species? \square Yes \square No
Were any least Bell's Vireo detected? □ Yes ☑ No
List of species observed while monitoring: KILL, ACWO, CASJ, CALT, WCSP, SOSP, SPTO, RCPA, BUSH, AMCR, coyote.

Did You Observe any Non-Compliance Issues? $\square \ \mbox{Yes} \ \ensuremath{\mathbb{Z}} \ \mbox{No}$

Log Entry

0630: I cleared the area for work.

0700: Crews began weeding along the East side of "boulder". Crews moved though the forested area moving East and ended at 1400 to begin cleanup.

Additional Comments

N/A



photo_1-VegetationRemoval-during-facing-W_.jpg



photo_2-VegetationRemoval-before-facing-E_.jpg



photo_3-VegetationRemoval-after-facing-E-.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Eliza McLean

Company: ECORP
Date of Log: December 1, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	47 °F	4-6 MPH	100 %
End of Day	14:45	54 °F	4-6 MPH	100 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

ľΛn	Ctrii	Ction	~~	• • • •	/I#\/
CUII	อน น	ction			/ILV

- 1. Removing nonnatives, irrigation.
- 2. Hand tools.
- 3. Crew of eight, Gothic Landscaping.

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

HOFI, HOSP, YRWA, CALT, CASJ, OATI, ACWO, AMCR, CAQU, ANHU, RTHA, desert cottontail, coyote.

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0615: Arrived on site.

0630: Tailboard meeting.

0645: Crew headed to work area, started work.

0645-1430: Monitored restoration.

1430: Crew finished work for the day.

1445: Left site.

Additional Comments

N/A

Signature

Sta m



Walkway_raked_facing\$W.jpg -118.17228871111112 34.189969069444444



Nonnatives_facingE.jpg -118.17230372222222 34.189876013888885

Devil's Gate Biological Monitoring Log

Biologist/Monitor: Alec Mang Company: Stillwater Date of Log: December 1, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	48 °F	0-3 MPH	100 %
End of Day	13:30	54 °F	0-3 MPH	100 %

End of Day	13:30	54 °F	0-3 MPH	100 %
What Type Restoration	of Monitoring is Beir Monitoring	ng Conducted?		
Construction Natures Ima	on Activity: ge crew of six pulling	weeds.		
Did you obs	serve any special-sta	atus species? □ Yes ☑ N	0	
Were any le	ast Bell's Vireo dete	ected? □ Yes ☑ No		
	ies observed while i /O, RCPA, CALT, CA	•	MCR, RTHA, RSHA, SPTO,	BUSH.
Did You Ob	serve any Non-Com	pliance Issues? □ Yes ☑	No	
			'00 in DG4 on the East side ju pulling and began cleanup.	ıst South of the parking lot.

Additional Comments

N/A

Signature

Archi



photo_1-VegetationRemoval-before-facingW_.jpg



photo_2-VegetationRemoval-after-facingW_.jpg



photo_3-VegetationRemoval-during-facingW_.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Maddy Panzino

Company: ECORP
Date of Log: December 2, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	08:10	49 °F	0-3 MPH	100 %
End of Day	13:35	56 °F	0-3 MPH	100 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Irrigation maintenance, container plant maintenance and planting.
- 2. Hand tools (shovels, hoes, etc.).
- 3. Gothic landscape, Cesar Olmos and crew of nine.

Did you observe	any special-status	species? □	Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

CALT, ACWO, CORA, CATH, SOSP, WCSP, RTHA, CASJ, HOFI, ANHU, BUSH, California ground squirrel.

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

- 0810: Arrived on site, crew are waiting in their cars for the rain to stop.
- 0930: Crew begins work in DG-2, doing rounds to check for weeds or irrigation lines that need repair. Irrigation was not turned on today due to rain.
- 1000: Two workers plant what appears to be two mulefat cuttings on east side of DG-2.
- 1315: Crew begins gathering tools to put away.
- 1330: Crew finished work for the day.
- 1335: Depart site.

Additional Comments

N/A

Signature

Magno



Container_Plant_Maintainence_DG-2.jpg -118.17226709166667 34.19004638888889



Planting_DG-2.jpg -118.17198379166668 34.18999422222222

Devil's Gate Biological Monitoring Log Biologist/Monitor: Alec Mang

Company: Stillwater
Date of Log: December 2, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	48 °F	0-3 MPH	100 %
End of Day	11:00	52 °F	0-3 MPH	100 %

What Type of Monitoring	is Being	Conducted?
Restoration Monitoring		

Construction Activity: Natures Image crew of six pulling weeds.
Did you observe any special-status species? ☐ Yes ☑ No
Were any least Bell's Vireo detected? □ Yes ☑ No
List of species observed while monitoring: RSHA, DEJU, ACWO, MODO, MALL, BUSH, RCKI, coyote.
Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0630: I cleared the area for work. Crews began weeding at 0715 in DG-4 North of "primrose" pulling hemlock and small patches of mustard, right along the edge of DG-4A. We had light rain in the morning which ended around 0930. Crews continued weeding until 1100 and then began cleanup after lunch.

Additional Comments

N/A

Signature

Jan



photo_1-VegetationRemoval-before-facing-E_.jpg



photo_2-VegetationRemoval-during-facing-E_.jpg



Devil's Gate Biological Monitoring Log Biologist/Monitor: Verity Richardson

Company: ECORP
Date of Log: December 5, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	56 °F	0-3 MPH	70 %
End of Day	14:40	60 °F	0-3 MPH	50 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Restoration removing invasive weeds primarily poison hemlock.
- 2. Hand tools hoes.
- 3. Gothic landscaping Cesar, Jonathan and crew of six.

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

CALT, YRWA, CORA, ACWO, RTHA, CASJ, ANHU, red-crowned parrot, RCKI, cottontail, western fence lizard, western toad, BLPH

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

- 0630: Arrived on site, attended tailboard.
- 0655: Crew began pulling and hoeing poison hemlock at the southern end of DG-2-WOUS.
- 0730: Met with Michael Walsh from Stillwater to discuss protocol for west side monitoring.
- 0800: Continued monitoring poison hemlock removal in DG-2-WOUS.
- 1015: Crew began removing poison hemlock in the West section of DG-2.
- 1045: Jonathan was stung by a European honeybee.
- 1120: Crew split between removing hemlock in DG-2 and DG-2-WOUS.
- 1240: Crew split between removing hemlock in DG-2 and DG-2 new channels.
- 1440: End of monitoring.

Additional Comments

N/A



Hoeing_poisonhemlock_DG2_120522_facingN.jpg -118.1724679 34.18929472222222



Hand_pulling_Invasives_DG-2_120522_facingNE.jpg -118.17248969444445 34.189409427777775



Hand_Pulling_Poison_hemlcock_DG2WOUS_facingS_120522.jpg -118.17229873611112 34.18992273333333



Hoeing_poison_hemlock_DGWOUS2_facingS_120522.jpg -118.17228960277778 34.18996908333333

Devil's Gate Biological Monitoring Log Biologist/Monitor: Michael Walsh

Company: Stillwater Date of Log: December 5, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	49 °F	0-3 MPH	50 %
End of Day	14:00	59 °F	4-6 MPH	10 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

$C \sim$	neti	uction	Activ	vitv	,.
υU	เเรน	uction	ACU	νιιν	1.

Natures Image crew of seven weeding DG-4 and DG-4 drainage.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

WCSP, ACWO, CATH, NUWO, CALT, AMCR, RSHA, BUSH, RCPA, CASJ, WBNU, LEGO, DEJU, OATI, MODO, ANHU, RCKI, desert cottontail, fox squirrel, WREN, RTHA.

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

- 0630: Arrived on site. Crew began getting ready, discussed plan for day with foreman Genarro.
- 0650: Monitored weeding in DG-4/DG-4 drainage; slightly east of DG-5. Primary target was poison hemlock; 1/2 of which was still holding seed. Some pepperweed in area.
- 0730: Met with Verity Richardson for a touch-base before ECORP takes over.
- 0750: Resumed monitoring.
- 1200: Took Linda and Ed around the site, marked all phase 1 irrigation boxes with red flags; crew is to begin doing bimonthly watering for the marked boxes.
- 1345: Crew began wrapping up while I inspected the site.

Additional Comments

N/A



photo_1-20221205-pre_weeding_facingE.jpg -118.17592902777778 34.19070936111111



photo_2-20221205-post_weeding_facingE.jpg -118.17598019444445 34.19070470833333



photo_3-20221205-pre_weeding_facingN.jpg -118.1759548888889 34.190721527777775



photo_4-20221205_post_weeding_facingN.jpg -118.17587936111111 34.190845777777774

Devil's Gate Biological Monitoring Log Biologist/Monitor: Michael Walsh

Company: Stillwater
Date of Log: December 6, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	45 °F	4-6 MPH	20 %
End of Day	14:00	57 °F	4-6 MPH	30 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction	Activity:
--------------	-----------

Natures Image crew of seven weeding in DG-4 drainage; DG-4.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

CAKI, CATH, WCSP, BUSH, AMCR, YRWA, ACWO, RSHA, ANHU, MODO, WREN, HOFI, CALT, NOFL, BGGN, BEWR, CASJ, DEJU, OATI, COHA, RTHA, California ground squirrel, western toad.

Did You Observe any Non-Compliance Issues? \square Yes \boxdot No

Log Entry

0630: Arrived on site. Tailgate with crew.

0650: Monitored weeding in DG-4 and DG-4 drainage. Primary targets were Tree of heaven, poison hemlock, and perennial pepperweed. Talked to crew about not tilling dirt to remove seedlings still in cotyledon stage.

1345: Crew began wrapping up while I inspected the site for water bottles etc.

Additional Comments

N/A



photo_1-20221206-pre_weeding_facingS.jpg -118.17585522222222 34.19063518611111



photo_2-20221206-post_weeding_facingS.jpg -118.17584652777778 34.19062073055555



photo_3-20221206-pre_weeding_facingS.jpg -118.17586942777778 34.19052740555555



photo_4-20221206-post_weeding_facingS.jpg -118.17586486111112 34.19051908333333

Devil's Gate Biological Monitoring Log

Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: December 6, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	45 °F	4-6 MPH	50 %
End of Day	14:45	57 °F	4-6 MPH	50 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Removing nonnatives, irrigation.
- 2. Hand tools.
- 3. Crew of eight, Gothic Landscaping.

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, RTHA, EUCD, CASJ, YRWA, RCKI, CANG, CALT, WCSP, ACWO, ALHU, OATI, BLPH

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0615: Arrived on site.

0630: Tailboard meeting.

0645: Crew headed to work area, started working.

0645-1430: Monitored restoration. 1430: Crew finished work for the day.

1445: Left site.

Additional Comments

N/A

Signature

Elja Me Jeny



Horehound_to_be_removed_facingE.jpg -118.17224200000001 34.18938166666666



Nonnative_grass_to_be_removed_facingW.jpg -118.1722891388889 34.18941222222222

Devil's Gate Biological Monitoring Log Biologist/Monitor: Maddy Panzino

Company: ECORP
Date of Log: December 7, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	40 °F	0-3 MPH	5 %
End of Day	14:25	58 °F	4-6 MPH	40 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Irrigation maintenance, container plant maintenance, weed abatement.
- 2. Hand tools (shovels, rakes, etc.).
- 3. Gothic landscape, Cesar Olmos and crew of nine landscapers.

Did you observe any special-status species? \square Yes \boxdot No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

Western fence lizard, BGGN, CALT, ACWO, CORA, AMCR, CAQU, NOFL, SOSP, WCSP, RTHA, CASJ, HOFI, YRWA, ANHU, BUSH, RCKI, BEWR, California ground squirrel, desert cottontail tail, coyote, pocket gopher, fox squirrel

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

06:30: Arrive on site.

07:00: Crew begins weed abatement (mostly poison hemlock and horehound) in DG-2, west of Johnson field. The crew bags pulled weeds as they move through an area.

09:30: Crew begins watering container plants on east side of Johnson Field.

10:30: Crew begins weed abatement on north edge of Johnson Field.

12:45: Crew begins weed abatement on east edge of Johnson Field.

14:20: Crew finishes work for the day, begins throwing away weeds.

14:30: Depart site.

Additional Comments

N/A

Signature

Mfayma



Weed_Abatement_DG-2.jpg -118.17222025833334 34.19133772222222



After_Weeding_DG-2.jpg -118.17236311111111 34.1915836666666666



Weed_Abatement.jpg -118.17203632500001 34.19204158333333



Watering_JohnsonField.jpg -118.171011311111112 34.19131447222222

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carley Adams

Company: ECORP
Date of Log: December 7, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	49 °F	0-3 MPH	2 %
End of Day	14:00	59 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Natures Image crew used hand tools to remove nonnative weeds in DG-4 and DG-4A. Crew consisted of one foreman (Genero) and seven laborers.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

CALT, AMCR, RSHA, BEWR, YRWA, CASJ, ANHU, RCKI, ACWO, NOMO, RTHA

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0630: Conducted sweep of work area.

0650: Monitored weed removal in DG-4 and DG-4A. Targeted weeds included CONMAC (Conium maculatum),

LEPLAT (Lepidium latifolium), AILALT (Ailanthus altissima), and BRANIG (Brassica nigra).

1400: Biologist left site for the day.

Additional Comments

N/A



Weed_removal_before_facingS.jpg -118.17613638888889 34.19030978888888



Weed_removal_during_facingS.jpg -118.17609216666668 34.19027118333333



Weed_removal_during_facingN.jpg -118.17600469444444 34.19023928888888



Weed_removal_after_facingS.jpg -118.176099944444445 34.19034411111111

Devil's Gate Biological Monitoring Log Biologist/Monitor: Verity Richardson

Company: ECORP
Date of Log: December 8, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	45 °F	0-3 MPH	0 %
End of Day	14:42	62 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Removing nonnative plants primarily poison hemlock and perennial pepperweed in DG-4, DG-4A and DG-4 sheetflow, DG-4 drainage.
- 2. Pulling by hand (mostly) 2 crew members had hoes in the afternoon (from 1).
- 3. Raul, Genaro with crew of ten.

Did you observe any special-status species? \square Yes $\overline{\lor}$ No	

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

ACWO, CALT, CASJ, YRWA, CORA, Red-crowned parrot, RCKI, SAPH, WCSP, ANHU, SPTO, Western fence lizard, western toad, California ground squirrel,

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

Monitoring on the west side

0630: Met with Genaro who showed me the area that the crew are planning to work in. Swept area prior to crew arriving.

0650: Crew began pulling poison hemlock and perennial pepperweed in DG-4 and DG-4 sheetflow.

0710: Gave WEAP presentation to two new crew members (Cesar Figueroa and Matthew).

0730: Two new crew joined the crew removing poison hemlock and perennial pepperweed in DG-4, DG-4A and DG-4 sheetflow.

1000: Crew periodically removed tarps full of plant material from the site to the truck.

1230: Crew continued in DG-4, DG-4A and DG-4 sheetflow. Three crew members moved into DG-4 drainage.

Additional Comments

N/A



Crew_Pulling_Poison_Hemlock_DG4Sheetflow_facingS.jpg -118.17617625000001 34.18952905555555



Removing_And_Bagging_Poison_Hemlock_DG-4A_facingN.jpg -118.17641680555556 34.18942761111111



Crew_Removing_Material_from_site_DG-4_facingS.jpg -118.1761521388889 34.18952890833333



Natures_Image_Crew_hand_pulling_Poison_Hemlock_DG-4drainage-facingSE.jpg -118.17624744444444 34.18930814722222

Devil's Gate Biological Monitoring Log

Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: December 8, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	40 °F	0-3 MPH	0 %
End of Day	14:45	60 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Cor	าstr	uctior	ı Acti	vitv:

- 1. Removing nonnatives, irrigation.
- 2. Hand tools.
- 3. Crew of ten, Gothic Landscape.

Did you observe any special-status species? $\square \ \ \text{Yes} \ \boxdot \ \ \text{No}$

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, RCPA, CALT, WCSP, CASJ, YRWA, OATI, RTHA, ACWO, BLPH, California ground squirrel.

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0615: Arrived on site.

0630: Tailboard meeting.

0645: Crew started working in Johnson Field.

0645-1430: Monitored restoration.

1430: Crew finished work for the day.

1445: Left site.

Additional Comments

N/A

Signature

Clya My Zz



Phacelia_groundcover_facingW.jpg -118.17200777222223 34.189854491666665



Curly_dock_to_be_removed_facingN.jpg -118.17220248611112 34.18949450833333

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carter Warwick

Company: ECORP
Date of Log: December 9, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	41 °F	0-3 MPH	0 %
End of Day	13:30	56 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Gothic Crew, east side restoration.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, WCSP, BGGN, BUSH, HOFI, ACWO, CALT, RCKI

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: On site.

0645: Tailboard.

0700: Begin work in DG-2. Some pepperweed popping up.

0900: Crew takes a break.

0930: Return to weed removal in DG-2.

1130: Lunch.

1215: Resume work. Small detail work, not much to be pulled.

1330: Crew no longer pulling weeds, going to clean up.

1335: Depart site.

Additional Comments

N/A



photo_1-pepperweed_removal_facingE.jpg



photo_2-DG-2_area_post_weed_removal_facingN.jpg

Company: ECORP
Date of Log: December 9, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	40 °F	0-3 MPH	0 %
End of Day	13:45	60 °F	7-9 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Weed abatement, irrigation maintenance.
- 2. Hand tools (shovels, rakes, etc.).
- 3. Nature's Image, Raul Fernandez and crew of ten landscapers.

Did you observe any special-status species? $\hfill \square$ Yes $\hfill \square$ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

Side-blotch lizard, RCPA (Red-crowned parrot), MODO, NOMO, BHGR, LEGO, CALT, CATH, ACWO, CORA, AMCR, BLPH, CAQU, CAKI, SOSP, WCSP, CASJ, HOFI, YRWA, ANHU, BUSH, RCKI, BEWR, WREN, California ground squirrel, desert cottontail tail, coyote, pocket gopher, wood rat (midden)

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

06:30: Arrive on site.

07:00: Crew begins weed abatement (e.g. horehound, perennial pepperweed, poison hemlock, black mustard, brome grasses) in DG-4, south of the staging area, along trail's edge.

07:45: New dumpster arrived onsite; two workers load yesterday's weeds into dumpster.

10:00: Crew continues weed abatement and irrigation maintenance effort, moving southward, and working near trail's edge.

13:45: Crew finishes pulling weeds for the day and begins clean up.

13:50: Depart site.

Additional Comments

N/A

Signature

mtoyn



Weed_Abatement_DG-4.jpg -118.17646022222223 34.19149833333333



DG-4_Weeds_before.jpg -118.176252875 34.19139598333333



DG-4_Weeds_after.jpg -118.17625204444445 34.191361875



Irrigation_Maintenance_DG-4.jpg -118.17679150000001 34.19071319444444

Devil's Gate Biological Monitoring Log Biologist/Monitor: Verity Richardson

Company: ECORP
Date of Log: December 12, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:40	44 °F	0-3 MPH	100 %
End of Day	14:50	51 °F	0-3 MPH	50 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Removing nonnative vegetation from DG-4 including perennial pepperweed, poison hemlock, shortpod mustard.
- 2. Hand pulling, hand tools e.g. hoes.
- 3. Nature's Image Genero plus 15 crew members.

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

ACWO, CALT, CORA, RCKI, CASJ, WCSP

Cottontail, western fence lizard, western toad, pocket gopher

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0640: Met crew on site, waited for rain to stop.

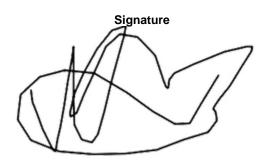
0825: Two crew began hoeing nonnatives (perennial pepperweed, poison hemlock, shortpod mustard) from northern end of DG-4

0900: 15 crew hoeing / hand pulling from northern end of DG-4 and reinstating basins around planted plants.

1440: End of monitoring, removed tarps from the site.

Additional Comments

N/A





Removing_Nonnative_Plants_With_Hoes_facingW_121222.jpg -118.17199316666667 34.19517444444444



Redefining_irrigation_basins_removing_nonnatives_facingNW_121222.jpg -118.17278348333333 34.19510124999999



Removing_nonnatives_DG4_facingNE_121222.jpg -118.17234702777779 34.19525372222222



Removing_nonnatives_facingNE_121222.jpg -118.17240780555557 34.19501855555555

Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: December 13, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	37 °F	4-6 MPH	0 %
End of Day	14:45	54 °F	0-3 MPH	5 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Can	etri	ıctior	ι Δα	·tiv	itv
COII	Sut	101101	1 74	, LI V	ııy

- 1. Removing nonnatives, irrigation.
- 2. Hand tools.
- 3. Crew of ten, Gothic Landscape.

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

CORA, CASJ, CALT, SOSP, BEWR, YRWA, WCSP, HOFI, coyote, cottontail, California ground squirrel

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0615: Arrived on site.

0630: Tailboard meeting.

0645: Crew started working in DG-2.

0645-1430: Monitored restoration.

1430: Crew finished work for the day.

1445: Left site.

Additional Comments

N/A

Signature

Clya Me



Conium_to_be_removed_facingNE.jpg -118.172269666666666 34.189843805555554



Phacelia_and_nonnatives_facingE.jpg -118.17227791666667 34.18983845555555

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carla Marriner

Company: ECORP

Date of Log: December 13, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:40	38 °F	0-3 MPH	0 %
End of Day	14:00	53 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1) Restoration activities (nonnative/invasive species removal).
- 2) Hand tools.
- 3) Nature's Image; Seven people; Genaro onsite coordinating work with the crew.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

LEGO, MODO, ANHU, HOSP, CORA, HOFI, AMCR, WCSP, EUST, CALT, BLPH, Squirrel, NOMO, RTHA, CASJ, BEWR, CAQU, NOFL, RCKI, COHA, SOSP, CATH,

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0650: Maintenance activities started on the western side - monitored weed removal

0800-1100: Crew continued removing nonnative species such as mustard and poison hemlock within the middle portion of the western side.

1100: Lunch break.

1200-1345: Monitored weed and trash removal - crew piling up weeds and hauling them off.

1400: End of the day.

Additional Comments

N/A



photo_weed_removal_facingW.jpg -118.17460050000001 34.1917612777777



photo_2_weeding_middle_portion_of_western_side_facingS.jpg -118.17422672222223 34.191661027777776



photo_3_piles_of_mustard_facingW.jpg -118.17457441666667 34.19159630555555

Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: December 14, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	39 °F	0-3 MPH	0 %
End of Day	14:15	58 °F	0-3 MPH	5 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Removing nonnatives.
- 2. Hand tools.
- 3. Crew of seven, Nature's Image.

Did you observe any special-status species? $\square \ \ \text{Yes} \ \boxdot \ \ \text{No}$

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, RCPA, CASJ, CALT, YRWA, HOFI, RCKI, BEWR, WCSP, SPTO, ANHU, SOSP, NOFL, ACWO, RTHA, desert cottontail, California ground squirrel, coyote, western fence lizard

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0615: Arrived on site.

0630: Tailboard meeting.

0645: Crew started working in DG-4B, moving south toward DG-4.

0645-1400: Monitored restoration.

1415: Left site.

Additional Comments

N/A



Nonnatives_dug_up_facingNW.jpg -118.17509616666668 34.19201008333333



Nonnatives_dug_up_facingW.jpg -118.17527619444445 34.191858877777776

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carley Adams

Company: ECORP

Date of Log: December 14, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	31 °F	0-3 MPH	2 %
End of Day	14:30	56 °F	0-3 MPH	10 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Gothic crew used hand tools to remove nonnative weeds on the side slopes and in DG-1. Crew consisted of one foreman (Caesar) and nine laborers.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

MODO, BLPH, WCSP, ANHU, CASJ, RSHA, CALT, ACWO, RCKI, AMCR, YRWA, desert cottontail, western fence lizard

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: Arrived onsite and conducted sweep of work area.

0650: Crew began removing weeds in DG-1 and on the side slopes. Targeted weed species included *Erodium cicutarium* (EROCIC), *Brassica nigra* (BRANIG), and nonnative grasses.

1430: Biologist left the site for the day.

Additional Comments

N/A



Weed_removal_during_on_side_slope.jpg -118.17171108333334 34.19259291666666



Weed removal_during_facingNW.jpg -118.17050565000001 34.19400938888889



Weed removal_after_facingNW.jpg -118.17076307500001 34.19401897222222

Company: ECORP
Date of Log: December 15, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	40 °F	0-3 MPH	0 %
End of Day	13:35	58 °F	4-6 MPH	100 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Weed abatement, irrigation maintenance.
- 2. Hand tools (shovels, rakes, etc.).
- 3. Nature's Image, crew of seven landscapers.

Did you observe any special-status species? \square	Yes ☑	No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

RTHA, RSHA, AMRO, LEGO, CALT, CATH, ACWO, CORA, AMCR, SOSP, WCSP, CASJ, HOFI, YRWA, ANHU, BUSH, RCKI, BEWR, California ground squirrel, desert cottontail, coyote, pocket gopher, wood rat (midden)

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

06:30: Arrive on site.

07:00: Crew begins weed abatement (e.g. horehound, perennial pepperweed, poison hemlock, black mustard, brome grasses) in DG-4 and DG-4A, east of DG-4 drainage.

10:00: Crew continues weed abatement and irrigation maintenance effort, working in the same area and moving south.

13:30: Crew finishes pulling weeds for the day and goes on break. Genaro indicates to me the crew is finished weeding for the day and will begin cleaning up after the break.

Mygu

13:35: Depart site.

Additional Comments

N/A



Before_DG-4.jpg -118.17580665 34.19002280555555



During_Weed_abatement_DG-4.jpg -118.17583209722223 34.18999736111111



After_DG-4.jpg -118.17581419444446 34.19001712777777

Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: December 15, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	42 °F	0-3 MPH	0 %
End of Day	14:45	58 °F	0-3 MPH	100 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Cor	าstr	uctior	ı Acti	vitv:

- 1. Removing nonnatives, irrigation.
- 2. Hand tools.
- 3. Crew of ten, Gothic Landscape.

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, RCPA, EUCD, YRWA, ACWO, HOFI, RCKI, PUFI, NOMO, WCSP, BGGN, BLPH, CASJ, CALT

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0615: Arrived on site.

0630; Tailboard meeting.

0645: Crew started working in DG-1.

0645-1430: Monitored restoration.

1430: Crew finished work for the day.

1445: Left site.

Additional Comments

N/A



Dug_up_nonnatives_facingNW.jpg -118.169478694444445 34.19515381944444



Dug_up_nonnatives_facingSW.jpg -118.16914531388889 34.19532941666667

Company: ECORP

Date of Log: December 16, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	48 °F	0-3 MPH	30 %
End of Day	14:25	62 °F	4-6 MPH	40 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Irrigation maintenance, basin maintenance, weed abatement.
- 2. Hand tools (shovels, rakes, etc.).
- 3. Gothic landscape, Cesar Olmos and crew of nine landscapers.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

Red-crowned parrot, RTHA, CALT, CATH, ACWO, CAQU, AMCR, SOSP, WCSP, CASJ, HOFI, ALHU, ANHU, BUSH, RCKI, BEWR, WREN, California ground squirrel, desert cottontail, coyote

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

06:30: Arrive on site.

07:00: Crew begins weed abatement (mostly poison hemlock) in DG-2. The crew bags pulled weeds as they move through the area.

10:30: Crew begins basin maintenance in DG-2.

14:20: Crew finishes work for the day, begins throwing away weeds.

14:30: Depart site.

Additional Comments

N/A

Signature

Mtazu



Weed_Abatment_Poison_Hemlock_DG-2.jpg -118.17219565277779 34.19005357499999



Basin_Maintenance_DG-2.jpg -118.17226827777779 34.18997948888889



After_Basin_Maintanence_And_Weeding.jpg -118.17216203333334 34.190275880555554

Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: December 16, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	48 °F	4-6 MPH	95 %
End of Day	14:15	62 °F	0-3 MPH	90 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction	Activity:
--------------	-----------

- 1. Removing nonnatives, fixing irrigation.
- 2. Hand tools.
- 3. Crew of eight, Nature's Image.

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, RCPA, RTHA, CASJ, HOFI, WCSP, CATH, ACWO, California ground squirrel

Did You Observe any Non-Compliance Issues? \square Yes \boxdot No

Log Entry

0615: Arrived on site.

0630: Tailboard meeting.

0645: Crew started working in DG-4A, removing Brassica nigra (BRANIG), Conium maculatum (CONMAC).

0645-1400: Monitored restoration.

1415: Left site.

Additional Comments

N/A

Signature

Ga Me



Nonnatives_removed_facingW.jpg -118.17575705555556 34.18966021111111



Nonnatives_removed_facingSE.jpg -118.17589908333333 34.189625574999994



Nonnatives_removed_facingS.jpg -118.17609629166667 34.1896827388888884

Company: ECORP

Date of Log: December 19, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	37 °F	0-3 MPH	0 %
End of Day	14:30	63 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Irrigation maintenance, basin maintenance, weed abatement.
- 2. Hand tools (shovels, rakes, etc.).
- 3. Gothic Landscape, Cesar Olmos and crew of ten landscapers.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

Western fence lizard, Red-crowned parrot, RTHA, CALT, CATH, ACWO, CAQU, AMCR, SOSP, WCSP, BGGN, CASJ, HOFI, ANHU, BUSH, RCKI, BEWR, WREN, California ground squirrel, pocket gopher

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0630: Arrive on site.

0700: Crew begins basin maintenance on southern end of DG-2.

1000: Two workers remove some lamb's quarter (Chenopodium) from the side slopes on the southern end. The crew bags pulled weeds as they move through the area.

1100-1415: Crew removes small weed sprouts (mostly poison hemlock) from southern end of DG-2.

1420: Crew finishes work for the day, begins throwing away weeds.

1430: Depart site.

Additional Comments

N/A

Signature

Mogins



Basin_Maintanence_DG-2.jpg -118.17276698333333 34.18869047222222



Irrigation_Maintanence_DG-2.jpg -118.17259104444445 34.18975525833333



Lambs_Quarter_Removal-DG2.jpg -118.17291532777779 34.188654166666666



Poison_Hemlock_Removal_DG-2.jpg -118.1726834888888 34.18858188888888

Devil's Gate Biological Monitoring Log Biologist/Monitor: Alden Lovaas

Company: ECORP

Date of Log: December 19, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	34 °F	0-3 MPH	0 %
End of Day	14:05	64 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Weed abatement.
- 2. Hand tools including rakes, hoes, and loop hoes.
- 3. Genaro Gomez (Natures Image foreman). Total of six Natures Image workers.

Did v	vou ol	bserve	any s	pecial-	status	species	? □	Yes 	No
-------	--------	--------	-------	---------	--------	---------	-----	-------------	----

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, LEGO, BEWR, NOFL, CASJ, CAQU, side blotch lizard, ACWO, ANHU, CALT, Coyote, OATI, YRWA, CAKI, RSHA, SOSP, WCSP, BLPH, Western fence lizard, RTHA, HOFI, BUSH

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0630: Arrived on site and talked with Genaro Gomez about the plan for the day. The crew will plan to work in similar area as last week (DG-4 and DG-4A).

0645: Crew heading to DG-4 and DG-4A to begin work. Crew using hand tools including, rakes, hoes, and loop hoes and primarily removing Lepidium latifolium (LEPLAT) and Conium maculatum (CONMAC).

0835: Crew taking break. 0900: Crew resuming work in DG-4 and DG-4A.

1100: Crew taking lunch.

1200: Crew resuming work in DG-4 and DG-4A.

1330: Crew taking break. Done removing vegetation for the day. Crew will clean up and haul out all removed vegetation after break.

1345: Crew beginning to clean up and haul out all vegetation that was removed today.

1405: Left site.

Additional Comments

N/A



12_19_2022_Natures_Image_crew_performing_weed_abatement.jpg



Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: December 20, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	46 °F	0-3 MPH	95 %
End of Day	14:15	66 °F	4-6 MPH	5 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Cor	าstr	uctior	ı Acti	vitv:

- 1. Removing nonnatives, irrigation.
- 2. Hand tools.
- 3. Crew of seven, Nature's Image.

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

RTHA, RCPA, CALT, ANHU, CATH, CASJ, YRWA, OATI, LEGO, CAKI, SOSP, WCSP, California ground squirrel

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0615: Arrived on site.

0630: Tailboard meeting.

0645: Crew started working in DG-4A, removing Lepidium latifolium (LEPLAT), Brassica nigra (BRANIG), Conium maculatum (CONMAC).

0645-1400: Monitored restoration.

1400: Crew started hauling out nonnative vegetation.

1415: Left site.

Additional Comments

N/A

Signature

By m



Nonnatives_dug_up_facingSW.jpg -118.17734044444445 34.18896236111111



Nonnatives_removed_facingNW.jpg -118.17734629166667 34.188945591666666

Devil's Gate Biological Monitoring Log Biologist/Monitor: Alexandra Dorough

Company: ECORP
Date of Log: December 20, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:20	44 °F	0-3 MPH	30 %
End of Day	14:15	65 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Cor	าstr	uctior	ı Acti	vitv:

Gothic crew removing new nonnative growth and checking irrigation.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, CALT, BUSH, CAQU, CASJ, ANHU, RUHU, RCKI, WCSP, NOMO, YRWA, California ground squirrel, parrot sp.

Did You Observe any Non-Compliance Issues? \square Yes \boxdot No

Log Entry

- 0620: Arrive on site, crew is arriving.
- 0630: Crew arrives, safety tailboard.
- 0645: Crew begins removing new growth of nonnatives in DG-2 moving north. crew is using hand tools (hoes and rakes).
- 0900: Crew breaks.
- 0915: Crew resumes removal of nonnatives.
- 1200: Lunch.
- 1245: Crew resumes.
- 1400: Crew done for the day.
- 1415: Depart site.

Additional Comments

N/A



Nonnative_removal_with_handtools_facingSE.jpg -118.17261111111111 34.189055555555555



Nonnative_removal_with_handtools_facingN.jpg -118.17228611111112 34.18938333333333

Devil's Gate Biological Monitoring Log Biologist/Monitor: Maddy Panzino

Company: ECORP

Date of Log: December 21, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	48 °F	0-3 MPH	0 %
End of Day	14:05	70 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Weed abatement.
- 2. Hand tools (shovels, hoes, etc.).
- 3. Nature's Image, Raul Fernandez and crew of nine landscapers.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

Western fence lizard, Red-crowned parrot, BLPH, YRWA, LEGO, RSHA, CALT, ACWO, NUWO, CORA, AMCR, SOSP, WCSP, BGGN, CASJ, ANHU, BUSH, RCKI, BEWR, WREN, California ground squirrel, wood rat (midden)

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: Arrive on site.

0700: Crew begins work on southern end of DG-4 nearest to Oak Grove Dr. Doing weed abatement. Targeting mainly poison hemlock, black mustard, and perennial pepperweed.

0900-0945: Crew watches a pesticide training video.

1000: Crew continues weed abatement effort working their way northwest.

1400: Crew begins loading weeds into dumpsters.

1405: Depart site.

Additional Comments

N/A

Signature

Mfgus



Poison_Hemlock_DG-4_Before.jpg -118.17697027777778 34.18656161111111



Poison_Hemlock_DG-4_After.jpg -118.17696175 34.18653836111111



Removing_Dried_Mustard_DG-4.jpg -118.17718747222223 34.186450727777775

Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: December 21, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	49 °F	4-6 MPH	0 %
End of Day	14:45	71 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Co	nstr	uctio	n A	ctiv	itv:

- 1. Removing nonnatives, irrigation.
- 2. Hand tools.
- 3. Crew of ten, Gothic Landscape.

Did you observe any special-status species? \square Yes \boxdot No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, CALT, RCPA, WCSP, CASJ, YRWA, MODO, RTHA, coyote, desert cottontail

Did You Observe any Non-Compliance Issues? \square Yes \boxdot No

Log Entry

0615: Arrived on site.

0630: Tailboard meeting.

0645: Crew started working in DG-2, removing Conium maculatum (CONMAC).

0645-1430: Monitored restoration.

1430: Crew finished work for the day.

1445: Left site.

Additional Comments

N/A



CONMAC_dug_up_facingNE.jpg -118.17183627777779 34.190432611111106



CONMAC_dug_up_facingW.jpg -118.17171676944444 34.19052744444444

Devil's Gate Biological Monitoring Log Biologist/Monitor: Josh Harris

Company: ECORP
Date of Log: December 22, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:10	46 °F	0-3 MPH	0 %
End of Day	14:06	66 °F	0-3 MPH	45 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Cor	าstr	uctior	ı Acti	vitv:

- 1. Weed abatement within DG-4 near dam access road.
- 2. Hand tools.
- 3. Natures Image; Genaro Gomez (foreman); Crew of eight.

Did you observe any special-status species? \square Yes \boxdot No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

WCSP, RSHA, CALT, RCPA, BLPH, LEGO, RCKI, ALHU, TUVU, CASJ, YRWA, HOFI, BEWR, WREN, NOMO, CATH

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

- 0610: Arrived on site. No workers here yet.
- 0620: Spoke to Genaro Gomez (Natures Image foreman) who said crew would be working in DG-4 pulling nonnative weeds. Nonnative weeds consisted of *Lepidum latifolium*, *Herschfeldia incana* and *Erodium cicutarium*.
- 0644: Additional crew members arrive to help load truck with tools. Linda and an additional worker will be working on irrigation checks throughout the site.
- 0710: Genaro said either this Friday or next week they will be taking out Rubus armeniacus in DG-4.
- 0737: Crew moves from lower DG-4 to upper slope near the dam access road.
- 0803: Spoke to Genaro about possible nonnative within Myrtaceae family. Michael (Stillwater Biologist) is aware of it and is keeping an eye on it.
- 1018: Crew continuing to work in DG-4 near access road.
- 1100: Crew taking a break.
- 1047: Crew back from break.
- 1200: Return from lunch.
- 1400: Crew cleaning up and getting ready to leave.

Additional Comments

N/A





During_weed_removal_facing_west.jpg



After_weed_removal_facing_west.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carla Marriner

Company: ECORP

Date of Log: December 22, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:40	54 °F	0-3 MPH	10 %
End of Day	14:30	67 °F	0-3 MPH	40 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1) Nonnative species removal; maintenance; work on slopes.
- 2) Hand tools.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

CALT, CASJ, HOFI, ANHU, BUSH, BGGN, ČATH, NOMO, LEGO, CAQU, ALHU, RTHA, SPTO, BLPH, WCSP, NOFL, ACWO, AMKE, AMCR, Coyote, Cottontail

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0630: Arrived onsite.

0645: Met with Gothic landscape.

0700-0900: Two teams working on separate portions of the site. SE and middle portions. The crews will be near the access ramp/dirt road and the other will be at Johnson's Field removing nonnative herbaceous species.

0900-1145: Monitored crew working on the slopes. Lunch break.

1230-1420: Continued monitoring weed removal on slopes. Crew picking up trash and the other team is working on the access road.

1230: End of monitoring/left site.

Additional Comments

N/A



photo_1_nonnative_species_removal_on_slopes_facingE.jpg -118.17323014722223 34.18868681944444



photo_2_maintenace_activities_facingE.jpg -118.1725612888889 34.19058552777778



photo_3_crew_working_on_slopes_facingS.jpg -118.17231080555555 34.19193925



photo_4_view_of_restoration_areas_facingNE.jpg -118.17214357222223 34.191599652777775

Biologist/Monitor: Josh Harris Company: ECORP

Date of	Log:	Decembe	r 23, 2022	

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:10	46 °F	0-3 MPH	0 %
End of Day	14:00	73 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Weed abatement in EMA west in reservoir; crew focused on pulling *Erodium cicutarium*, *Lepidium latifolium*, *Marrubium vulgare*, *Hirschfeldia incana*, Bermuda grass.
- 2. Hand tools.
- 3. Gothic; crew of nine plus Cesar Olmos (foreman).

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

BEWR, WCSP, RCKI, CASJ, AMCR, BGGN, ACWO, CALT, ANHU, HOFI, LEGO, SPTO, ACWO, GBHE, RCPA

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

- 0610: Arrived on site. One crew member already here, waiting in their car.
- 0630: Additional crew members begin arriving.
- 0645: Tailboard. Crew would be working in EMA west. The focus would be to work west and pull all non-natives.
- 0700: Arrived at side slopes. Crew began working.
- 0830: Crew continuing with weed abatement in EMA west.
- 0845: Break.
- 0900: Back to work.
- 0920: Cesar said he would be leaving soon. He said the crew would continue with weed abatement moving west to Altedena drainage. Possibility it may be too wet to work in this area.
- 1145: Lunch.
- 1245: Crew returns from lunch.

Additional Comments

N/A



EMA_west_before_weed_abatment.jpg



After_weed_abatment_in_EMA_west.jpg

Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: December 23, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	46 °F	4-6 MPH	0 %
End of Day	12:15	66 °F	0-3 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction	Activity:
--------------	-----------

- 1. Removing nonnatives, irrigation.
- 2. Hand tools.
- 3. Crew of seven, Nature's Image.

Did you observe any special-status species? \square Yes \boxdot No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

ACWO, CALT, LEGO, AMCR, RCPA, BUSH, CASJ, RWBL, ANHU, YRWA, SOSP, WCSP, desert cottontail, California ground squirrel

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0615: Arrived on site.

0630: Tailboard meeting.

0645: Crew started working in DG-4 and DG-4A, removing Conium maculatum (CONMAC), Brassica nigra

(BRANIG), Lepidium latifolium (LEPLAT), Lobularia maritima (LOBMAR).

0645-1200: Monitored restoration.

1200: Crew started hauling out removed vegetation.

1215: Left site.

Additional Comments

N/A

Signature

Ra Me



Nonnatives_dug_up_facingNE.jpg -118.17594819444444 34.19160136111111



Nonnatives_removed_facingSW.jpg -118.17595916666667 34.191698055555555

Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: December 27, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	54 °F	0-3 MPH	100 %
End of Day	14:00	61 °F	4-6 MPH	100 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Cor	าstr	uctior	ı Acti	vitv:

- 1. Removing nonnatives, irrigation.
- 2. Hand tools.
- 3. Crew of seven, Nature's Image.

Did you observe any special-status species? \square Yes \boxdot No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, CALT, CASJ, YRWA, WCSP, CATH, HOFI, VESP, RTHA, ANHU, desert cottontail, California ground squirrel, western toad

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0615: Arrived on site.

0630: Tailboard meeting.

0645: Crew started working in area around their trailer, removing *Conium maculatum* (CONMAC), *Brassica nigra* (BRANIG), *Lepidium latifolium* (LEPLAT).

0900: Crew started working in northern portion of DG-4, removing CONMAC, *Hirschfeldia incana* (HIRINC), nonnative grasses (NNG), *Erodium cicutarium* (EROCIC).

1345: Crew stopped work due to rain.

1400: Left site.

Additional Comments

N/A

Signature

Elja Me



Removed_nonnatives_facingNW.jpg -118.17537970833334 34.19245258333333



Removed_nonnatives_facingW.jpg -118.17522917777778 34.192556805555554



Removed_nonnatives_facingE.jpg -118.17243353611111 34.19363441666666

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carter Warwick

Company: ECORP
Date of Log: December 27, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	49 °F	0-3 MPH	100 %
End of Day	07:15	50 °F	0-3 MPH	100 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Gothic crew, east side restoration.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

WCSP, AMCR, HOFI

Did You Observe any Non-Compliance Issues? \square Yes \boxdot No

Log Entry

0630: On site.

0710: Contacted Cesar, informed me that crew was not working due to possible weather. Stated that his office notified him the prior evening that work was cancelled.

0715: Depart site.

Additional Comments

N/A

Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: December 28, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	46 °F	0-3 MPH	0 %
End of Day	14:45	60 °F	4-6 MPH	50 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction	Activity:
--------------	-----------

- 1. Removing nonnatives.
- 2. Hand tools.
- 3. Crew of ten, Gothic Landscape.

Did you observe any special-status species? \square Yes \boxtimes No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, RTHA, CASJ, RCPA, CALT, YRWA, WCSP, RWBL, LEGO, RCKI, desert cottontail, CA ground squirrel

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0615: Arrived on site.

0630: Tailboard meeting.

0645: Crew started working in Johnson Field, removing *Brassica nigra* (BRANIG), *Lepidium latifolium* (LEPLAT), nonnative grasses (NNG).

0645-1430: Monitored restoration.

1430: Crew finished work for the day.

1445: Left site.

Additional Comments

N/A

Signature

Iga t



Remove_nonnatives_facingW.jpg -118.17072236111112 34.191666575



Removed_nonnatives_facingS.jpg -118.17084331111111 34.19152338888888

Devil's Gate Biological Monitoring Log Biologist/Monitor: Alden Lovaas

Company: ECORP Date of Log: December 28, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	47 °F	0-3 MPH	100 %
End of Day	14:00	60 °F	0-3 MPH	75 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Weed abatement.
- 2. Hand tools including rakes, hoes/loop hoes, and shovels.

 Genaro Gomez (Natures Image foreman) and Raul (Natures Image Foreman) is also on Site today. Total of 1 Natures Image workers.
Did you observe any special-status species? □ Yes ☑ No
Were any least Bell's Vireo detected? □ Yes ☑ No
List of species observed while monitoring: AMCR, COHA (coordinates: 34.192866, -118.173126), LEGO, CASJ, ACWO, ANHU, CALT, NOFL, parrot sp., CATH, HOFI, RSHW, SOSP, WCSP, desert cottontail, RTHA, western toad.
Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0615: Arrived on site.

0630: Talked with Genaro Gomez about the plan for the day. The crew will plan to work in similar area as yesterday on the north side of the west side in DG-4 and DG-4A.

0645: Crew heading to DG-4 and DG-4A to begin work. Crew using hand tools including, rakes, hoes, and loop hoes and primarily removing Erodium cicutarium (EROCIC), Conium maculatum (CONMAC),non-native grasses, and mustards.

0830: Crew taking break.

0905: Crew resuming work in the northern portions of DG-4 and DG-4A. 1055: Crew taking lunch.

1210: Crew resuming work in the northern portions of DG-4 and DG-4A.

1330: Crew taking break.

1345: Crew done removing veg for the day, beginning to clean up.

1400: Left site.

Additional Comments

N/A





12-28-2022_Natures_Image_Crew_weed_abatement_in_DG4_DG4A.jpg



12-28-2022_weed_abatement_in_northern_portion_of_DG-4_DG-4A.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Josh Harris

Company: ECORP

Date of Log: December 29, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:25	50 °F	0-3 MPH	100 %
End of Day	14:17	58 °F	0-3 MPH	100 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Weed abatement in DG-W-1 Johnson Field, DG-2 and DG-2 New channels. Focus was on Erodium cicutarium, Lepidium latifolium, Marrubium vulgare, Hirschfeldia incana, Bermuda grass.
- 2. Hand tools.
- 3. Gothic; crew of nine plus Cesar Olmos (foreman).

No
1

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

WCSP, RCKI, CASJ, AMCR, BGGN, ACWO, CALT, ANHU, HOFI, RCPA, RSHA, CATH, WREN, BGGN, NOFL, CAQU, BUSH

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

- 0625: Arrived on site. One crew member already here, waiting in their car.
- 0635: Tailboard. Crew would be working in DG-W-1 Johnson Field, DG-2 and DG-2 New Channels. The focus would be to work south and pull all non-natives.
- 0650: Arrived at DG-W-1 Johnson Field. Crew began working.
- 0752: Crew goes to cars to wait out rain even passing through.
- 0845: Crew returning to work.
- 0918: Crew conducting weed abatement/fixing basins in DG-W-1 Johnson Field on slope before DG-2.
- 1037: Crew is working in Johnson Field moving north.
- 1145: Lunch.
- 1239: Crew back from lunch.

Additional Comments

N/A



Weed_abatment_in_DG-W-1_Johnson_Field_facingSE.jpg



Prior_to_weed_removal.jpg



After_weed_removal.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Alden Lovaas

Company: ECORP

Date of Log: December 29, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:20	51 °F	0-3 MPH	100 %
End of Day	13:45	55 °F	0-3 MPH	100 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Weed abatement
- 2. Hand tools including rakes, hoes/loop hoes, and shovels.
- 3. Genaro Gomez (Natures Image foreman). Total of 11 Natures Image workers.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

RSHA, NOFL, SOSP, AMCR, CATH, CASJ, BEWR, HOFI, parrot sp., BEWR, CALT, ANHU, RCKI, ALHU, CAQU, KILL, WCSP, ACWO.

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0620: Arrived on site.

0630: Talked with Genaro Gomez about the plan for the day. The crew will plan to work in similar area as yesterday on the north side of the west side in DG-4 and DG-4A.

0650: Crew heading to DG-4 and DG-4A to begin work. Crew using hand tools including, rakes, hoes, and loop hoes and primarily removing *Erodium cicutarium* (EROCIC), *Conium maculatum* (CONMAC), non-native grasses, and mustards.

0720: Beginning to rain, crew taking rain break in vehicles.

0900: Crew resuming work in the northern portions of DG-4 and DG-4A.

1055: Crew taking lunch.

1200: Crew resuming work in the northern portions of DG-4 and DG-4A.

1330: Crew done removing veg for the day, beginning to clean up.

1345: Left site.

Additional Comments

N/A



12-29-2022_weed_abatement_Natures_Image_Crew.jpg -118.172398175 34.19313758333333



12-29-2022_weed_abatement_on_west_side.jpg

Biologist/Monitor: Eliza McLean Company: ECORP

Date of Log: December 30, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:15	49 °F	0-3 MPH	100 %
End of Day	14:45	58 °F	0-3 MPH	100 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Can	etri	ıctior	ι Δα	·tiv	itv
COII	Sut	101101	1 74	, LI V	ııy

- 1. Removing nonnatives, planting cuttings.
- 2. Hand tools.
- 3. Crew of ten, Gothic Landscape.

Did you observe any special-status species? \square Yes \boxdot No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

AMCR, HOFI, CAQU, ACWO, CASJ, CALT, WCSP, NOMO, ANHU, KILL, SOSP, CATH, BEWR, LEGO, OATI, RTHA, desert cottontail, California ground squirrel

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

0615: Arrived on site.

0630: Tailboard meeting.

0645: Crew started working in DG-2, prepping for and planting mulefat, elderberry, and willow cuttings.

0800: Crew started removing Conium maculatum (CONMAC), Lepidium latifolium (LEPLAT), Brassica nigra

(BRANIG) from DG-2.

1430: Crew finished work for the day.

1445: Left site.

Additional Comments

N/A



Cuttings_planted_facingE.jpg -118.17211597222223 34.18981147222222



Cuttings_planted_facingS.jpg -118.17209361944445 34.18980562222222



Cuttings_planted_facingW.jpg -118.172101111111112 34.19007416666666

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carter Warwick

Company: ECORP
Date of Log: December 30, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:30	52 °F	0-3 MPH	100 %
End of Day	12:15	56 °F	0-3 MPH	100 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Cor	าstr	uctior	ı Acti	vitv:

Natures Image crew, West side restoration

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

CALT, AMCR, CASJ, BEWR, LEGO, CATH, BUSH, HOFI, NOFL, RSHA

Did You Observe any Non-Compliance Issues? □ Yes ☑ No

Log Entry

- 0630: On site. Genaro said they were waiting for a few crew members to arrive.
- 0700: Tailboard.
- 0715: Begin work on North side removing hemlock, mustard, and pepperweed.
- 0735: Stop work due to rain.
- 0830: Crew break.
- 0900: Resume work in same area.
- 1045: Crew takes lunch.
- 1200: End of lunch.
- 1205: Genaro said crew would not be pulling anymore weeds today. They would be cleaning up the work area.
- 1215: Depart site.

Additional Comments

N/A



photo_1-weed_removal_facingN.jpg



photo_2-work_area_after_weeding_facingN.jpg

APPENDIX C

Adaptive Management Report for the Invasive Shot Hole Borer Tree Removal

Adaptive Management Report for the Invasive Shot Hole Borer Tree Removal

Devil's Gate Reservoir Restoration Project

City of Pasadena Los Angeles County, California

Prepared for:

Los Angeles County Department of Public Works 900 South Fremont Avenue Alhambra, CA 91803 Contact: Mr. Keith Hala

Prepared by:

ECORP Consulting, Inc. 2861 Pullman Street Santa Ana, California 92705 Contact: Ms. Carley (Lancaster)Adams

January 10, 2023



CONTENTS

1.0	INTROD	TRODUCTION1					
	1.1	ISHB Project Purpose	1				
	1.2	Project Description	1				
	1.3	Background Information	1				
	1.4	Project Location	2				
2.0		NSTRUCTION BAT SURVEY	_				
3.0	SUMMA	ARY OF BIOLOGICAL MONITORING	5				
4.0	ADAPTIVE MANAGEMENT						
5.0	CONCL	USION	7				
6.0	REFERE	NCES	8				
LIST OF FIGURES							
Figure 1. Project Vicinity							
Figure 2. Project Location4							
		ree Removal Area					

LIST OF APPENDICES

Appendix A – Final ISHB Report for Devil's Gate Reservoir Restoration Project

Appendix B – Preconstruction Bat Survey Report

Appendix C – ISHB Monitoring Logs

LIST OF ACRONYMS AND ABBREVIATIONS

CDFW California Department of Fish and Wildlife

HRP Habitat Restoration Plan

ACWM Los Angeles County Agricultural Commissioner/Weights and Measures

LACFCD Los Angeles County Flood Control District

LACPW Los Angeles County Department of Public Works LSAA Lake and Streambed Alteration Agreement

N/A Not Applicable

PMA Permanent Maintenance Area

Project Devil's Gate Reservoir Restoration Project

1.0 INTRODUCTION

The Los Angeles County Public Works (LACPW) has completed the removal of the trees located within the mitigation areas for the Devil's Gate Reservoir Restoration Project (Project) that were identified as being infested with the invasive short hole borer (ISHB). The purpose of this report is to document the results of the ISHB tree removal and to discuss the adaptive management techniques that will be implemented moving forward.

1.1 ISHB Project Purpose

The purpose of the removal of the trees infested with ISHB was to eliminate the beetle-infested material from the mitigation areas and to minimize the spread of this invasive beetle species. Only larger existing trees in the mitigation areas that were dead or in a condition unlikely to recover were removed and none of the container plants or stakes that were installed as part of the habitat restoration implementation effort were included in the removal effort as they did not show any signs of infestation.

1.2 Project Description

The Project, which includes an initial removal of 1.7 million cubic yards (cy) of sediment to establish a Permanent Maintenance Area (PMA), will restore flood capacity and establish a reservoir management system to maintain the flood control capacity of the reservoir. Subsequently, annual maintenance and episodic maintenance will be conducted in the established PMA to remove accumulated sediment and to ensure continued flood control capacity. Initial sediment removal in the reservoir was completed in 2021 and the annual maintenance within the reservoir was initiated in September 2022. Annual maintenance within the reservoir for 2022 was completed on October 30, 2022.

Habitat restoration for the Project is being implemented in the mitigation areas to comply with the compensatory mitigation requirements in Conditions 3.1, 3.2, and 3.5 of the Lake or Streambed Alteration Agreement (LSAA) (Notification No. 1600-2015-0263-R5 dated March 21, 2017 and Amendment dated July 17, 2018) executed between the California Department of Fish and Wildlife (CDFW) and the Los Angeles County Flood Control District (LACFCD). Implementation of habitat mitigation was conducted according to the Final Habitat Restoration Plan (HRP) for the Project (dated November 2018) which addresses the impact areas associated with the Project and the on-site compensatory mitigation areas at the Project site (ECORP 2018). According to the HRP, onsite compensatory mitigation will include the creation, restoration, and enhancement of native habitats with the purpose of providing quality habitat for an abundance of wildlife including the least Bell's vireo (*Vireo bellii pusillus*), which is listed as endangered under the Federal Endangered Species Act (ESA) and the California Endangered Species Act (CESA) (CDFW 2018).

1.3 Background Information

In the summer of 2021, the mitigation areas for the Project were surveyed by the Los Angeles County Agricultural Commissioner/Weights and Measures (ACWM) to identify trees infested with ISHB following public concern for the health of the trees in the DG-W-2 (Mining Pit) mitigation area. During the survey,

Devil's Gate Reservoir Restoration Project	1	January 10, 2023
Los Angeles County Department of Public Works	•	2022-226.01

the ACWM identified six trees that were heavily or severely infested with ISHB (amplifier trees) including three Fremont's cottonwoods (*Populus fremontii*) and two black willows (*Salix gooddingii*) that were identified as needing to be removed and one Fremont's cottonwood that was identified as needing to be trimmed to remove infested branches. In addition, 1,092 black willows with low to moderate infestation were identified as needing to be removed or trimmed. The infested trees were found in the DG-4, DG-4 WOUS Connections, DG-W-2 (Mining Pit), and DG-W-1 (Johnson Field) mitigation areas. The methods and results of the survey conducted by ACWM can be found in the Final ISHB Report for Devil's Gate Reservoir Restoration Project prepared by the ACWM and dated December 1, 2021 (ACWM 2021). This report is included as Appendix A to this report. It should be noted that the areas defined as Black Willow Forest North and Black Willow Forest South (collectively Black Willow Forest) in the ACWM report encompass the DG-W-2 (Mining Pit) and DG-4 WOUS mitigation areas.

1.4 Project Location

The Project is located in the City of Pasadena (City) in Los Angeles County on the Pasadena United States Geological Survey (USGS) California 7.5' topographic quadrangle (Figure 1). More specifically, the Project is located within the upper portion of the Arroyo Seco Watershed within the City's Hahamongna Watershed Park (Figure 2). The Project site is located along an approximately 4,754-feet linear section of the Arroyo Seco drainage and alluvial fan, which is an area subject to change and disturbance due to erosion, runoff, and sediment movement. The elevation of the Project site ranges from approximately 985-feet above mean sea level (msl) behind the dam, to approximately 1,100-feet above msl at the northern end of the project.



niap Date. 6/2/2022 Service Layer Credits: Sources: Esri, USGS, NOAA

Figure 1. Project Vicinity



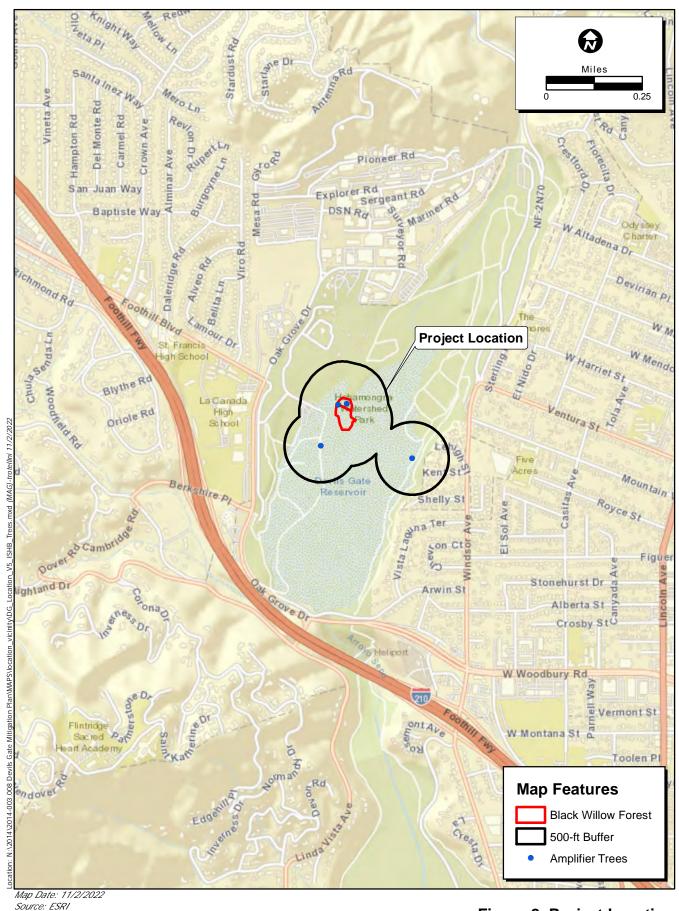


Figure 2. Project Location



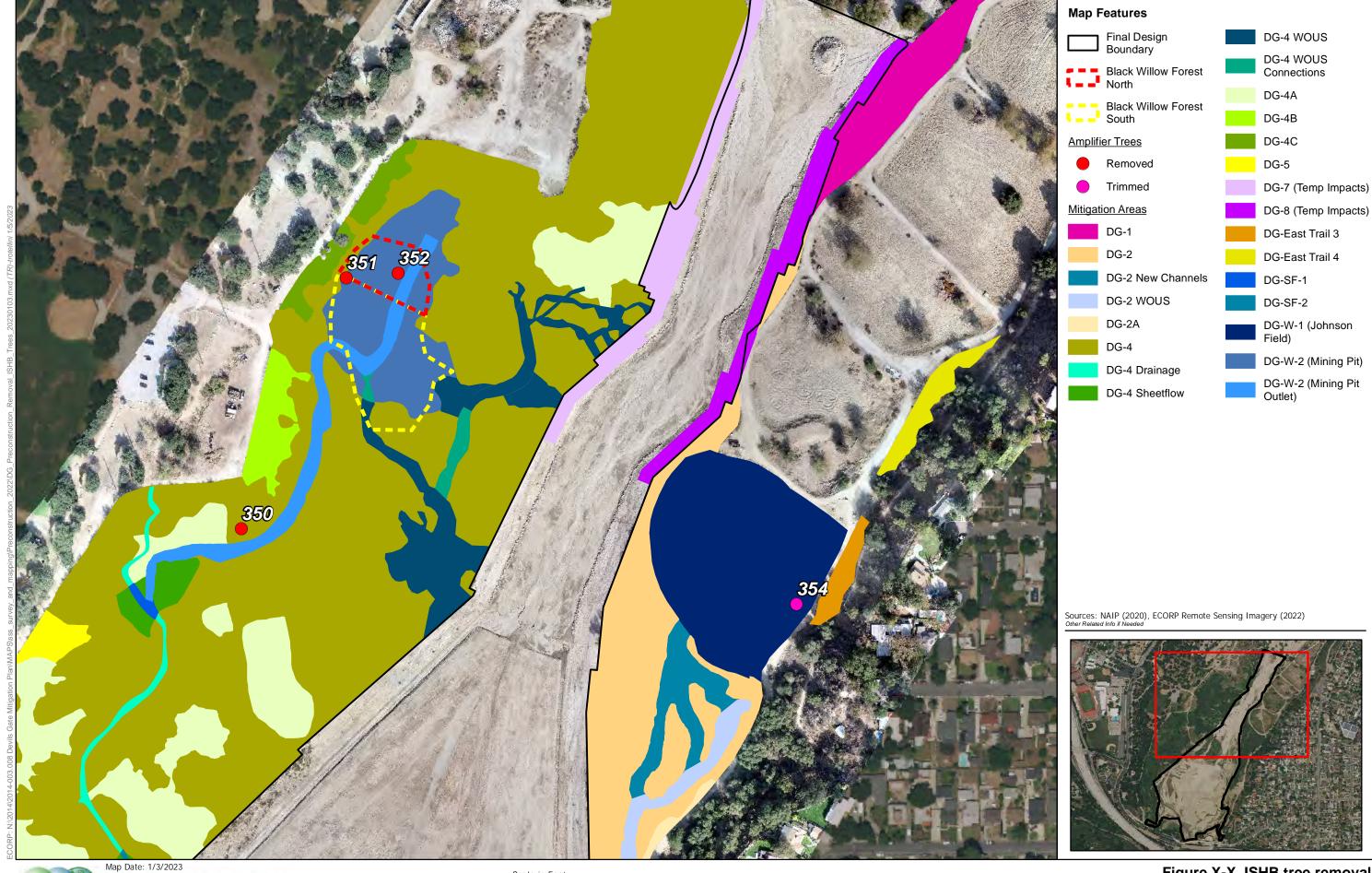
2.0 PRE-CONSTRUCTION BAT SURVEY

Prior to commencing tree removal activities, a preconstruction bat survey was conducted for the trees identified by ACWM for removal and trimming. The preconstruction bat survey included one daytime survey (habitat assessment) to identify any infested trees with potentially suitable bat roosting habitat and one nighttime survey for the six amplifier trees to determine presence/absence of bat species. The daytime survey was conducted by ECORP Consulting, Inc. (ECORP) biologists Lauren Simpson and Corrina Tapia on October 5, 2022. During the daytime survey, a total of 21 trees, including one amplifier tree and 20 trees with low to moderate infestation, were determined to provide suitable bat roosting habitat due to presence of exfoliating bark, crevices, and/or woodpecker cavities. During the survey, the location of each of these trees was marked using a Global Positioning System (GPS). Following the daytime survey, one nighttime emergence and acoustic survey was conducted by ECORP biologists Lauren Simpson, Corrina Tapia, and Alden Lovaas on October 10, 2022, for the one amplifier tree determined to provide suitable roosting habitat. During the nighttime survey, no bats were observed emerging from the amplifier tree. The remaining 20 trees with suitable roosting habitat and a low to moderate ISHB infestation were flagged with Environmentally Sensitive Area (ESA) flagging and were avoided during removal activities. The methods and results of the bat survey can be found in the Preconstruction Bat Survey Report for the Devil's Gate Reservoir Restoration Project dated December 2022 (ECORP 2022). This report is included as Appendix B to this report.

3.0 SUMMARY OF BIOLOGICAL MONITORING

ISHB tree removal was conducted by Panamerican on October 19, 20, and 24, 2022. Biological monitoring during this time was conducted by ECORP biologists Joshua Harris, Carley Adams, and Eliza McLean. At the end of each day, a monitoring log was completed documenting work activities that took place (Appendix C). Prior to commencement of tree removal, ACWM walked the Project mitigation areas and flagged all of the amplifier trees identified during the survey as needing to be removed or trimmed, including three Fremont's cottonwoods within DG-4, two black willows within DG-W-2 (Mining Pit), and one Fremont's cottonwood within DG-W-1 (Johnson Field). In addition, trees with low to moderate infestation within the Black Willow Forest that were dead or in a condition unlikely to survey survive were marked for removal with white spray paint by ACWM to aid Panamerican and ECORP in the tree removal effort. Figure 3 shows the location of all the amplifier trees and whether they were removed or trimmed. Figure 3 also shows the location of the Black Willow Forest in relation to the Project mitigation areas where additional black willows with low to moderate levels of infestation were removed.

Tree removal was accomplished by one worker felling trees using a chainsaw and the remaining crew members hauling the felled trees out by hand. Prior to felling each tree, ECORP biologists and the Panamerican crew collaborated on which direction of felling would minimize impacts to plantings. Crew members hauling trees out by hand used predetermined access paths or previously disturbed paths that were approved by ECORP biologists. Trees removed from the mitigation area were brought to and put through a woodchipper staged near the Hahamongna Watershed Park parking lot. Removed trees were chipped down to 1 inch and spread along a clear plastic tarp and covered with an additional clear plastic tarp to commence the solarization process.



ECORP Consulting, Inc. ENVIRONMENTAL CONSULTANTS

Logs were placed on top of the tarp to avoid spread of chipped trees and vandalism. The tarps will remain in place for a period of at least six months in an effort to kill any remaining ISHB beetles and larvae and will be removed only after confirmation is received from ACWM.

A total of 163 ISHB infested trees were removed from the mitigation areas in DG-4, DG-4 WOUS, and DG-W-2 (Mining Pit) including five amplifier trees and 158 trees with low to moderate infestation that were dead or in a condition unlikely to recover. One amplifier tree located within DG-W-1 (Johnson Field) was trimmed of infested branches. The number of removed trees differed significantly from the number identified during the survey conducted by ACWM in the summer of 2021 due to the fact that many of the black willows in the Black Willow Forest had fallen over on their own between the time of the survey conducted by ACWM and when removal took place. Trees and limbs that had fallen over on their own prior to the removal effort were generally left in place for wildlife habitat at the direction of ACWM due to the fact that these trees and limbs were determined to have a low potential of still being infested. In addition, safety concerns prevented trimming unstable trees in the Black Willow Forest. Lastly, 20 trees that were determined to provide suitable bat habitat during the pre-construction bat survey were avoided during removal activities.

4.0 ADAPTIVE MANAGEMENT

ECORP will continue to monitor the remaining trees in the mitigation areas for any signs of additional infestation or dieback. In addition, ECORP will monitor the tarped woodchips on a regular basis during the six-month solarization period to address any damages to the tarp that may need to be repaired. ECORP will continue to work with the ACWM to collaborate on adaptive management techniques and any additional removal that may be required in the future. If necessary, ECORP will work with the ACWM to coordinate deploying ISHB traps within the restoration areas to confirm presence or absence. If issues with ISHB infestation continue, host trees may need to be excluded from the planting palette for future phases of restoration.

5.0 CONCLUSION

A total of 163 trees were felled (including five amplifier trees) and one tree was trimmed of infested branches. Removal of ISHB trees was successful and to the extent possible avoided impacts to existing plantings within the mitigation areas. Infested trees that were removed were chipped down to one inch for solarization and will continued to be monitored for the six-month period to address any damages to the tarp. The mitigation areas for the Project will continue to be monitored for additional signs of infestation and additional tree removal in the future may be warranted. ECORP will continue to work with the ACWM to collaborate on adaptive management techniques that may need to be implemented.

6.0 REFERENCES

- California Department of Fish and Wildlife [CDFW]. 2018. Amendment of Lake or Streambed Alteration Agreement for the Devil's Gate Sediment Removal and Management Project (Notification No. 1600-2015-0263-R5). Permittee: Los Angeles County Department of Public Works. July 17, 2018.
- CDFW. 2017. Lake or Streambed Alteration Agreement for the Devil's Gate Sediment Removal and Management Project (Notification No. 1600-2015-0263-R5). Permittee: Los Angeles County Department of Public Works. March 21, 2017.
- ECORP Consulting, Inc [ECORP]. 2018. Devil's Gate Sediment Removal and Management Project Final Habitat Restoration Plan.
- ECORP. 2022. Preconstruction Bat Survey Report for the Devil's Gate Reservoir Restoration Project.
- Los Angeles County Agricultural Commissioner/Weights and Measures. 2021. Final ISHB Report for Devil's Gate Reservoir Restoration Project.

LIST OF APPENDICES

Appendix A – Final ISHB Report for Devil's Gate Reservoir Restoration Project

Appendix B – Preconstruction Bat Survey Report

Appendix C – ISHB Monitoring Logs

APPENDIX A

Final ISHB Report for Devil's Gate Reservoir Restoration Project

December 1, 2021

Prepared for the Los Angeles County Public Works

Prepared by Rachel Burnap and Fayek Girgis, Los Angeles County Agricultural Commissioner/Weights and Measures (ACWM)

Final ISHB Report for Devil's Gate Reservoir Restoration Project

Background

In the summer of 2021, large areas of black willow dieback were noticed by the general public and by ECORP Consulting during monitoring visits. ECORP Consulting inspected the trees and noticed signs of Invasive Shothole Borer infestation. ECORP then notified the Los Angeles County ACWM.

Methods

During the months of September, October, and November 2021, Inspectors Burnap and Girgis assessed thousands of trees for infestation and damage caused by the Polyphagous and/or Kuroshio bark beetles (collectively known as Invasive Shothole Borers or ISHB). The entire area shown in the Devil's Gate Mitigation Areas 20210723 shapefile was gridded, including both the east and west area of the reservoir. Every known tree host species for ISHB and any tree that exhibited severe dieback or found dead was examined. The primary tree species examined included black willows (*Salix nigra*), Fremont cottonwoods (*Populus fremontii*), a few sycamore hybrids (*Platanus* spp.), and a box elder (*Acer negundo*).

Each tree was examined for active ISHB entry holes. Trees that had heavy to severe infestations (150 active entry holes and/or over 30% canopy dieback) were tagged and labeled to remove. These trees were found in the central area on the western side of the reservoir (See Maps 1 and 2). Trees where the active infestation or dieback was compartmentalized in a few branches were marked to be trimmed. Trees with moderate infestations were marked with GPS to monitor.

Dead trees located roughly in the area named DG-W-2 (named Black Willow Forest 1 for the purpose of this report) were also inspected. The number of trees to remove or be trimmed in this area was determined by marking the parameter of forest area by GPS, then determining the dead or trim tree density in a 5,000 sq. ft. area within it. The forest dead/trim tree density was observed to be spatially different, so this was delineated, and the forest area was divided into two sections, North and South (See Map 3). The southern section consisted of 60,399 sq. ft. with a density of 45 dead/trim trees per 5,000 sq. ft. area. The northern section consisted of 23,145 sq. ft. with a density of 120 dead/trim trees per 5,000 sq. ft. area.

All trees to remove or be trimmed were identified with a metal tree tag. Baseline data was collected for all tagged trees. This included a GPS point, tree height, tree Diameter at Breast Height (DBH), level of infestation, and level of dieback. Pictures were also taken. Ten wood samples were taken from the area to test for fusarium fungus. The fusarium samples were submitted through the Los Angeles County ACWM Plant Pathology Laboratory to the California Department of Food and Agriculture. One live beetle was found in an infested tree and sent to the Los Angeles County entomologist, Dr. Arakelian. He identified it as a Polyphagous Shothole Borer.

Active entry holes were determined by visual assessment and showed recent staining, and/or frass, with a clearly defined borders and a dark fusarium ring that continued through the bark and cambium layer into the sapwood. Inactive entry holes, as indicated by compartmentalization, had entry holes and fusarium that disappeared after scraping off the bark. These inactive entry holes were not counted but indicated that

the tree may be recovering. Black willows and cottonwoods were difficult to examine due to the thick bark and required careful and thorough examination.

The estimated number of active beetle entry holes determined the tree's level of infestation¹ (Low: 1-50, Moderate: 50-150, Heavy: over 150, and Severe/Amplifier: over 150 plus crown dieback). Levels of crown dieback included Low (1-20%), Moderate (21-30%), Heavy (over 30%), and Dead.

Discussion

Much of the Mitigation Area had little to no active infestation. However, infestations were not confined to any one area. A low to moderate active ISHB infestation was discovered throughout the Mitigation Area with 5 trees heavily or severely infested, 1 cottonwood to be trimmed, 11 trees to monitor, and 1,092 trees to be removed or trimmed in the Black Willow Forest 1 (See Photograph 1 and Table 1 in Recommendations).

Black Willow Forest 1 consisted of small diameter (approximately 4" to 10" DBH) black willows with varying degrees of dieback. Many, but not all, dead black willows in Forest 1 exhibited a low to moderate infestation, showing that the tree died from something other than fusarium dieback. Larger diameter (approximately 12" DBH and above) willows were also found infested, often with a higher infestation level than the small diameter trees. In this area, two severely infested (amplifier) willows were identified and tagged to be removed. Bot rot (a bacterial disease caused by Botryosphaeria) was also observed in this area in dead trees. Spread through rain and wind, bot rot infects stressed trees and can quickly cause tree mortality. Non-infested dead trees in this area will also be removed due to concern of fire in the urban wildland interface (See Photographs 2-3).

The fusarium seemed dry in many cases throughout the mitigation area, leading to the question if drought had slowed and/or prevented beetle reproduction since the fusarium fungus requires moisture to grow and is the beetle's sole source of food. This leads to the hypothesis that perhaps beetle infestation will increase once moisture is restored to the trees. Research on the Kuroshio ISHB infestation in the Tijuana River suggests that irrigated trees are more susceptible to infestation; however, there are other cases where non-irrigated trees are also severely infested, so this hypothesis continues to be debated².

An infested amplifier sycamore tree was discovered in the City of Pasadena Hahamonga Watershed Park parking lot, west of the mitigation area. Kenny Graham, the City of Pasadena Forester, was contacted. The city is already actively removing ISHB infested amplifier trees and taking the correct actions to prevent ISHB spread.

Recommendations

Removal of the 5 heavy and severely infested trees will prevent these trees from spreading the infestation. Trimming the infested cottonwood will help this tree continue to recover from a past heavy infestation and help protect park visitors from large falling limbs (See Photograph 4). Non-infested dead trees in the Black Willow Forest will also be removed due to concern of fire in the urban wildland interface. Trees in this area will also be trimmed as needed.

All tree material should be treated as infested on site to ensure that all beetles are killed. Wood should be chipped down to 1", covered with thick clear plastic, and left in place to solarize in the sun. Current

¹ As recommended by the University of California Agriculture and Natural Resources Cooperative Extension.

² Dr. Bea Nibua-Behrmann, personal correspondence, August 12, 2021.

recommendations can be found at www.ishb.org. Pile location/s should be chosen carefully to avoid damaging the native plants.

Monitoring of the infestation will be key to preserving tree diversity in this area. While only 9 trees were marked specifically, the entire mitigation area should be examined every 6 months to at least every year. The few sycamores, cottonwoods, and lone box elder should be particularly monitored. A list of reproductive host species, and pictures of ISHB infestation can be found at www.ishb.org.

ISHB traps deployed in the restoration area during the appropriate months will make monitoring easier. Traps should be placed between trees and not out in the open, for example, between a healthy and an infested tree. Traps should not be placed in a completely non-infested area since this could draw ISHB to healthy trees. An example of riparian trap deployment can be found in the Early Detection Rapid Response Plan LA County SMMNRA 2019 Exhibit A: Trapping Protocols³.

 3 Found at https://www.rcdsmm.org/wp-content/uploads/2019/12/EARLY-DETECTION-RAPID-RESPONSE-PLAN-LA-County-SMMNRA-2019.pdf

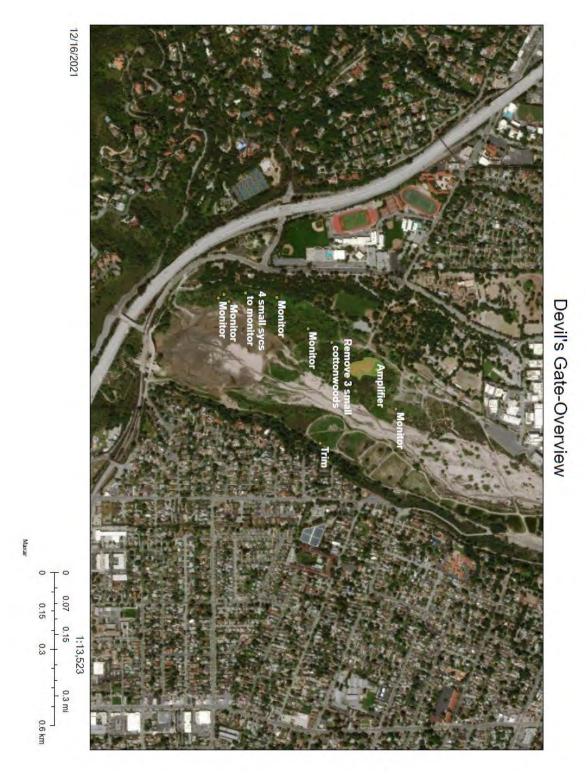
Table 1. Tree Information with associated Pest and Damage Records

Note GPS location of each tree.

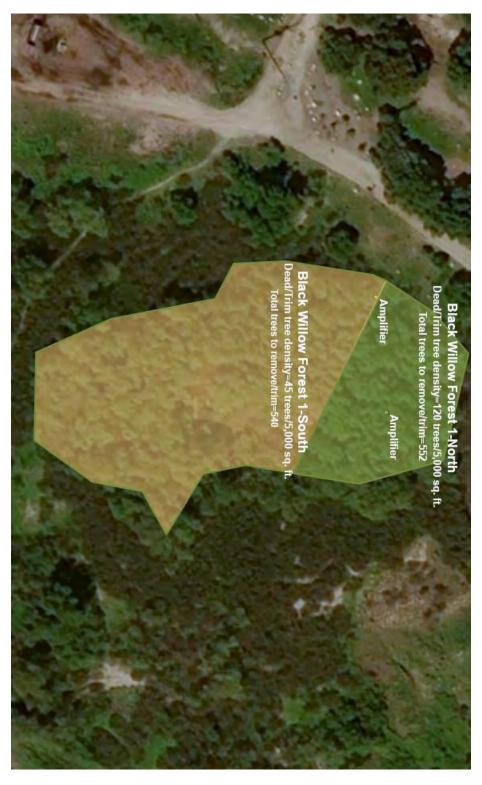
Tree Tag Number	Action to Take	Pest and Damage Record Number	Infestation Level	Latitude/Longitude	Notes	
				-118.1752299 34.1916586	Tree #1-10" DBH 40 ft tall >30% dieback Tree #2- 5" DBH 15 ft	
350	Remove 3 infested Fremont cottonwoods	19TP50001069 19TP50001239	Heavy		tall 20-30% dieback Tree #3- 11" DBH 30ft tall 20% dieback	
351	Remove 1 black willow	19TP50001366	Amplifier	-118.1744484 34.19321886	6" DBH, 40 ft. tall, >30% dieback	
352	Remove 1 black willow	19TP50001362	Amplifier	-118.1740602 34.19324788	9" DBH, 40 ft. tall, >30% dieback	
Black Willow Forest 1- North	Remove and/or trim dead tops off approximately 552 trees	19TP50001364 19TP50001363 Taken from this area	Variable	Near -118.1740565 34.1930594	Black willows DBH roughly ranging from 4" to 10". Height ranges roughly from 20' to 35'.	
Black Willow Forest 1- South	Remove and/or trim dead tops off approximately 540 trees	19TP50001238 19TP50001236 19TP50001237 Taken from this area	Variable	Near -118.1740565 34.1930594	Black willows DBH roughly ranging from 4" to 10". Height ranges roughly from 20' to 35'.	
354	Trim large dead branches off cottonwood		Past heavy infestation	-118.170929 34.19125	24" DBH, 40 ft. tall, 20-30% dieback	
No tag	Monitor black willow		Moderate	-118.1723905 34.19392	13" DBH, 30 ft. tall	
No tag	Monitor black willow		Moderate	-118.1758144 34.19083	22" DBH, 45 ft. tall	
No tag	Monitor black willow		Moderate	-118.1771497 34.18973	9" DBH, 25 ft. tall	
No tag	Monitor black willow		Moderate	-118.1769705 34.18804		
No tag	Monitor 2 black willows		Moderate	-118.1772683 34.18786		
No tag	Monitor 4 small sycamores		Moderate	-118.1773353 34.18863		
No tag	Monitor large sycamore		Moderate	-118.1771122 34.18767	27" DBH, 55 ft. tall	
TOTALS	Remove 5 infested trees		Trim 1 large cottonwood			
	Remove/trim 992 small DBH willows in Black Willow Forest 1		Specifically monitor 11 trees			



Map 1. Devil's Gate Restoration Project Overview Map with Project Boundaries. Note the green area marked with an Amplifier tree is the Black Willow Forest 1.



Map 2. Devil's Gate Restoration Project Overview Map without Project Boundaries. Note that there is an unseen Amplifier near the marked one in the light/dark green area.



Map 3. Overview of Black Willow Forest 1. North and South sections delineated according to dead/trim tree density. Note location of two amplifier trees within area.



Photograph 1. This larger DBH black willow had a low ISHB infestation. It was found in the Black Willow Forest 1. A wood sample was taken and sent to the CDFA for analysis. The dark fusarium fungus can be seen in the tree's sapwood.



Photograph 2. View of the Black Willow Forest 1 looking north. Note numerous small, dead willows.



Photograph 3. View looking up into the canopy of the Black Willow Forest 1. Note numerous dead trees but also trees that experienced canopy dieback in the upper portions.



Photograph 4. This Fremont cottonwood experienced canopy dieback and limb loss due to a heavy ISHB infestation. Note large branches on the ground. The tree is now in recovery. Trimming off dead branches will help its recovery and help protect park users visiting this trail.

APPENDIX B

Preconstruction Bat Survey Report

Preconstruction Bat Survey Report for the Devil's Gate Reservoir Restoration Project

City of Pasadena, California

Prepared For:

Los Angeles County Public Works Stormwater Engineering Division 900 S. Fremont Avenue Alhambra, CA 91803-1331

Prepared By:



2861 Pullman Street Santa Ana, California 92705

December 2022

CONTENTS 1.1 Site Description......2 1.2 1.2.1 2.0 2.1 Bat Habitat Assessment......5 2.2 Nighttime Emergence and Acoustic Surveys5 2.2.1 Nighttime Surveys.....5 2.2.2 Acoustic Analysis6 3.0 RESULTS......7 3.1 Nighttime Emergence and Acoustic Surveys......7 3.2 4.0 DISCUSSION9 5.0 LITERATURE CITED9 **LIST OF TABLES** Table 1. Bat Survey Conditions7 **LIST OF FIGURES** Figure 2. Project Location......4 Figure 3. Bat Habitat Assessment Results8

LIST OF APPENDICES

Appendix A – Representative Photographs

1.0 INTRODUCTION

On behalf of Los Angeles County Public Works (LACPW), ECORP Consulting, Inc. (ECORP) conducted a preconstruction bat survey for the Devil's Gate Reservoir Restoration Project (Project) located in the City of Pasadena, Los Angeles County, California. The survey was conducted at trees that had previously been identified by the Los Angeles Agricultural Commissioner as being infested with Invasive Shothole Borers (ISHB). These trees are scheduled for trimming or removal to reduce the spread of ISHB throughout the site. The surveys were conducted to comply with Condition 2.14a of the Streambed Alteration Agreement (SAA; Notification No. 1600-2015-0263-R5) (CDFW 2017) for the Project, which states:

"No less than 30 days before scheduled Initial Vegetation Removal and structure removal Permittee shall have the Designated Biologist approved by CDFW, specifically for bats, conduct a preconstruction reconnaissance survey to identify those trees and/or structures proposed for disturbance that could provide hibernacula, roosting, or nursery colony habitat for bats."

Three bat species were also included as protected species under the SAA: pallid bat (*Antrozous pallidus*), western mastiff bat (*Eumops perotis californicus*), and western yellow bat (*Lasiurus xanthinus*). The surveys were also conducted to comply with Condition 2.10 of the SAA which states:

"The Permittee shall have a Designated Biologist survey the proposed work area to verify the presence or absence of protected species. The results of these surveys shall be provided to CDFW, along with copies of all field notes, prior to Project Initiation."

In addition, the surveys were conducted to comply with Mitigation Measure BIO-5 (MM-BIO-5) of the Final Environmental Impact Report (ECORP 2017) for the Project which states:

"Within 30 days prior to commencement of vegetation or structure removal activities, a preconstruction bat survey shall be conducted by a qualified biologist for the presence of any roosting bats. Acoustic recognition technology shall be used if feasible and appropriate. If either a bat maternity roost or hibernacula (structures used by bats for hibernation) are present, a qualified biologist will develop and implement appropriate protection measures for that maternity roost or hibernacula."

Finally, the surveys were conducted to comply with Best Management Practice G2 of the Clean Water Act Section 401 Water Quality Certification (4WQC40115053) (LARWQCB 2018) which states:

"Within 30 days prior to commencement of vegetation or sediment removal activities, a preconstruction bat survey shall be conducted by a qualified biologist for the presence of any roosting bats. If either a maternity roost or hibernacula (structures used by bats for hibernation) is present, a qualified biologist will develop and implement appropriate protection measures for that maternity roost or hibernacula. These protection measures shall include, as appropriate, safely evicting nonbreeding bat, establishment of avoidance buffers, or replacement of roosts at a suitable location."

The purpose of the preconstruction bat surveys was to identify and assess potential roosting habitat in the trees identified as infested by ISHB and scheduled for trimming or removal (hereafter "study area"). This report documents the results of the preconstruction bat surveys.

1.1 Site Description

The Project is located within the City of Pasadena in the upper portion of the Arroyo Seco Watershed and within the City's Hahamongna Watershed Park. Downtown Los Angeles is approximately 14 miles to the south of the Project, the San Gabriel Mountains are located just north of the Project, and the City of La Cañada Flintridge and the unincorporated community of Altadena are located to the west and east, respectively (Figure 1. Project Vicinity, Figure 2. Project Location). The Project is located within the "Pasadena, California" 7.5-minute quadrangle (U.S. Geological Survey [USGS] 2015).

The topography in the vicinity of the Project consists of rolling terrain with a decline into the Arroyo Seco basin. The San Gabriel Mountains are located to the north of the Project and are characterized by both the foothills and steep slopes associated with mountainous terrain. Vegetation within the study area is primarily composed of black willow thickets (*Salix gooddingii* Woodland Alliance) and mulefat thickets (*Baccharis salicifolia* Shrubland Alliance).

1.2 Bat Natural History

There are 25 bat species known to occur in California, 23 of which are known to occur in the south coast ecoregion of the state that includes the Project site. Factors such as habitat loss, roost disturbance, light and noise pollution, and human disturbance are among the factors causing declines in bat populations throughout California (Johnston et al. 2019).

The term *roost* refers to locations or structures (natural or artificial) that house bats. Roosts provide protection from predators and the external environment, as well as provide sites where social groups can congregate. Roosts can provide shelter for individuals or large colonies of bats. Day roosts are locations that provide routine protection and shelter for bats during their inactive daylight hours. Day roosts that are used seasonally by a colony of female bats to give birth to, nurse, and rear young are known as maternity roosts. Day roosts may also be used by hibernating bats in the winter where bats enter torpor (a condition of dramatically lowered metabolism) for extended periods of time; these roosts are known as hibernacula. Day roosts may also provide temporary refuge for groups of migratory bat species, which often includes large groups of bats stopping over in the spring or fall. Night roosts are structural features that provide shelter for bats to rest and digest food that has been captured throughout the night in between foraging sessions; and are therefore often located in or adjacent to a foraging area. A given roost location may serve as any combination of roost types (i.e., day and night roost, maternity roost, and hibernacula).

The term *colony* refers to a group of bats inhabiting a given roost. Maternity colonies in California can range from tens to thousands of individual bats from one or more species, and typically are formed in the spring and disbanded in the fall. Maternity season is defined in the SAA as approximately March 1 to September 30. Migration may overlap portions of maternity season and winter. Some species in California have both resident and migratory populations.



map Date. 672/2022 Service Layer Credits: Sources: Esri, USGS, NOAA

Figure 1. Project Vicinity



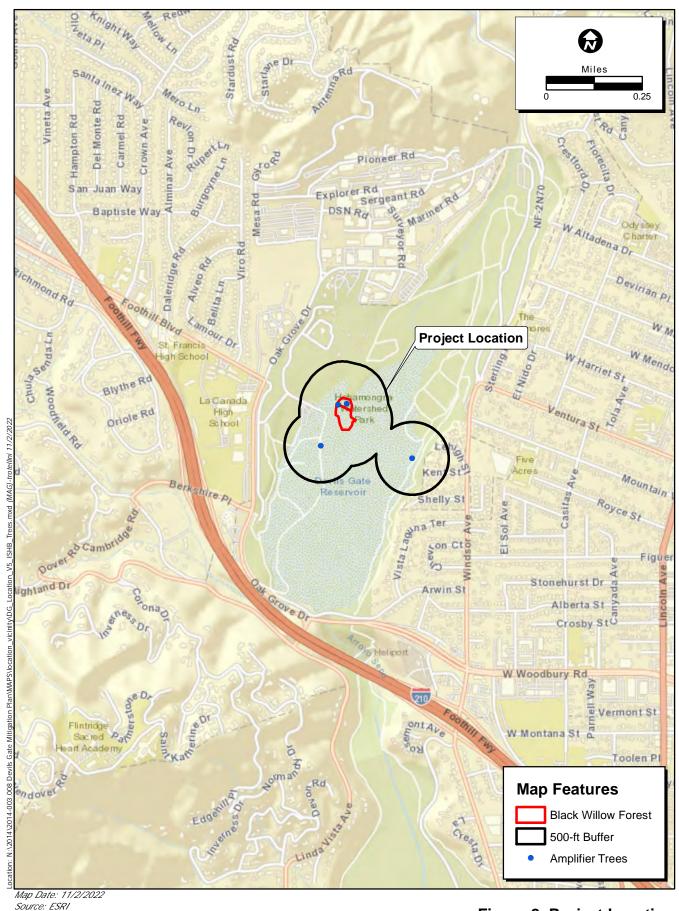


Figure 2. Project Location



1.2.1 Tree Roosts

North American bat species are known to use a variety of roosts, including trees (Zeiner et al. 2001). Tree-roosting bats include those species that roost within foliage and species that roost under exfoliating bark or in the cavities of snags and trees (Vonhof and Barclay 1996; Brigham et al. 1997; Ormsbee and McComb 1998; Rabe et al. 1998). Several studies on tree-roosting bat species have demonstrated the importance of large diameter, tall trees or snags as roosting sites, especially those in more open areas of upland habitat near water sources (e.g., Kurta et al. 1993; Vonhof and Barclay 1996; Brigham et al. 1997; Ormsbee and McComb 1998; Rabe et al. 1998; Jachowski et al. 2016). Tree species and state of decay determine the type of roost features available (e.g., number of natural cavities, amount of peeling bark, presence of woodpecker holes, heart rot).

Colony size at a given tree roost location may be limited by cavity size, affecting both the nature of social interactions and the potential for thermoregulation by clustering (Kurta 1986; Willis et al. 2006). Tree cavities can be occupied by a single bat (typically males and nonreproductive females) or many bats (maternity colonies). Maternity colonies in tree roosts consist of reproductive females in the tens or hundreds. Tree-roosting bats frequently switch roosts for a variety of reasons, including decreasing commuting costs to foraging areas, seeking out alternate microclimates, avoiding predation, and reducing parasite exposure (Lewis 1995).

In southern California, 15 bat species have been documented roosting in trees (Johnston et al. 2019). Tree roosting bat species that are considered Species of Special Concern (SSC) by CDFW and are known to occur in the region include Townsend's big eared bat (*Corynorhinus townsendii*), western red bat (*Lasiurus blossevillii*), and pallid bat.

2.0 METHODOLOGY

2.1 Bat Habitat Assessment

ECORP biologists conducted a bat habitat assessment of the study area to determine the potential for the presence of roosting bats. The biologists investigated all potential habitat areas within the study area that may be suitable for or are currently occupied by roosting bats. The biologists examined any trees with cavities, exfoliating bark, bark with deep furrows, or woodpecker holes, and any other potential bat habitat for the presence of bats (visually or audible chatter) or bat sign (guano, culled insect parts, urine staining, etc.). A Global Positioning System (GPS) point was recorded at all trees determined to provide suitable roosting habitat. Binoculars and flashlights were used to assist with the visual assessment. Photographs were taken of each tree identified as potential roosting habitat.

2.2 Nighttime Emergence and Acoustic Surveys

2.2.1 Nighttime Surveys

Following the habitat assessment, an evening survey including emergence counts and acoustic monitoring was conducted at one tree identified as suitable roosting habitat. The emergence survey began approximately 15 minutes before sunset and continued until approximately one hour after sunset.

Observers equipped with tally meters, hand-held acoustic bat detectors (Echometer Touch 2 Pro, Pettersson U384), and night-vision goggles (AN/PVS-7) were deployed to observation points identified during the daytime assessment. Visual surveys were performed by three biologists. Each surveyor was positioned so that they could observe and count bats as the bats exited and entered the potential roost locations. The total number of bats observed emerging from the roost was tallied immediately following the survey.

Due to the inhibiting effect of large moon phase on bat activity (Lang et al. 2006), nighttime bat surveys are conducted, whenever possible, on nights when less than 50 percent of the moon is visible. Due to scheduling constraints of tree removal activities this was not possible during this survey effort. Weather conditions (temperature, cloud cover, wind speed) were recorded at the start and end of the survey.

2.2.2 Acoustic Analysis

Active collection of echolocation calls during surveys allows for the best quality of diagnostic calls and, in combination with passive monitoring, provides context for the investigator. For analyses, only the best representative calls were used for identification to species level. Qualitative call characteristics (inflection, shape), known call-frequency parameters, and a reference library of "voucher" calls from known hand-released bats were used to identify calls to the species level or "phonic group" (a species pair or group of species with similar characteristic call frequency that could not be distinguished to species level due to call similarity or quality of the call sequence, respectively) (O'Farrell et al. 1999; U.S. Geological Survey 2005). Three groups of bat species in California are commonly consolidated into phonic groups for the purposes of acoustic analysis due to the high degree of similarity of their echolocation calls. These groups are the 50-kilohertz (kHz) Myotis group that includes California myotis (*Myotis californicus*) and Yuma myotis (*M. yumanensis*); the 40-kHz Myotis group, which includes little brown bat (*M. lucifugus*), long-legged myotis (*M. volans*), and small-footed myotis (*M. ciliolabrum*); and the Q25 phonic group, which includes silverhaired bat (*Lasionycteris noctivagans*), big brown bat (*Eptesicus fuscus*), pallid bat, hoary bat (*Lasiurus cinereus*), and Mexican free-tailed bat (*Tadarida brasiliensis*). Recordings were analyzed using Sonobat (Version 4.4.5 North America) software.

The analysis of acoustic data for bat species identification has inherent limitations. These limitations include the quality of acoustic data recorded and the fact that bat species are not equally detectable. Not all call sequences recorded in a given acoustic survey are identifiable to species or phonic group. Some bat species emit loud relatively low-frequency echolocation calls that can be recorded from great distances and will be overrepresented in the data, other species emit faint calls that may not be detected by acoustic monitoring equipment, and some species may even forage without echolocating. Further, social calls and calls produced in high-clutter conditions (such as when exiting a roost) are often not diagnostic for species identification. A single night of survey is insufficient to draw conclusions about the overall roosting patterns at a site. Colony size, species composition, activity levels, and habitat use may change seasonally or even nightly. Despite these limitations, data gathered from acoustic call identifications and concurrent evening surveys and roosting habitat inspection provide important information in estimating the number of bats roosting at a given site and establishing the presence of maternity colonies.

3.0 RESULTS

3.1 Bat Habitat Assessment

The habitat assessment was conducted on October 5, 2022, by ECORP bat biologist Lauren Simpson assisted by ECORP biologist Corrina Tapia. During the assessment, a total of 21 individual trees scheduled for trimming or removal due to ISHB infestation were identified as suitable roosting habitat due to the presence of exfoliating bark, crevices, and/or woodpecker cavities (Figure 3). Of those trees, only one was considered an amplifier tree. This tree was scheduled for trimming but not removal. Representative photographs of the suitable roosting trees are included in Appendix A.

3.2 Nighttime Emergence and Acoustic Surveys

On October 10, 2022, ECORP biologists conducted a nighttime emergence survey at the amplifier tree scheduled for trimming during the ISHB tree removal process to determine if bats were day-roosting in the tree and what species were present. The remaining 20 trees identified as having bat roosting habitat were able to be avoided during the ISHB infested tree removal activities so surveys at those trees were not conducted. Table 1 lists the survey date, surveyors, and weather conditions during the survey.

Table 1. Bat Survey Conditions									
Date	Surveyors	Time	Temperature (Start-End) (°F)	Cloud Cover (%)	Wind (mph)	Time of Sunset	Moon Phase (%)		
10/10/2022	Lauren Simpson, Alden Lovaas, Corrina Tapia	1810-1925	75-69	20	0	1825	100		

No bats were observed emerging from the tree during the emergence survey. However, bats were detected acoustically foraging throughout the study area. Acoustic recordings collected during the survey confirmed the presence of long-legged myotis, western red bat, Yuma myotis and California myotis during the survey. Western red bat is a CDFW SSC.

Additionally, acoustic recordings lacking diagnostic call characteristics were collected during the survey that fell into the 50kHz Myotis and 40kHz Myotis phonic groups. Of the 50kHz Myotis group, both California myotis and Yuma myotis were confirmed to be present. Of the 40kHz Myotis group, long-legged myotis was confirmed to be present but it is also possible that small-footed myotis was present.

The emergence survey was conducted in October outside of the bat maternity season. No bats were observed emerging from the tree scheduled for trimming during the survey.



4.0 DISCUSSION

No sign or evidence of use of trees by roosting bats were observed during the survey. However, a total of 21 suitable bat-roosting trees were identified. The majority of the trees identified as potential habitat provided only limited suitable habitat for roosting in the form of sections of exfoliating bark and/or woodpecker cavities. These types of tree features can provide suitable roosting habitat for solitary or small groups of roosting bats but are not of sufficient size to support colonial roosting. Of these 21 trees, 20 were able to be avoided during ISHB infested tree trimming and removal activities. One tree, a Fremont cottonwood (*Populus fremontii*) tree that was classified as an amplifier tree on the east side of the Project site could not be avoided. An emergence survey was conducted at this tree and no bats were observed emerging during the survey.

Four species and two phonic groups were detected foraging in the vicinity during the emergence survey. Of these species, western red bat is a CDFW SSC. Western red bat is a foliage roosting species and this individual likely roosted in the foliage of a nearby tree. The tree scheduled for trimming does contain suitable foliage habitat for this species, but the foliage habitat would remain intact as trimming activities would only occur on dead branch portions of the tree. Further, all tree trimming activities will be conducted under the direct supervision of a biological monitor. As such, this species, if present, would be adequately protected during the ISHB tree trimming and removal activities and no impacts to roosting bats are anticipated as a result of these activities.

5.0 LITERATURE CITED

- Brigham, R.M., M.J. Vonhof, R.M.R. Barclay, and J.C. Gwilliam. 1997. Roosting behavior and roost-site preferences of forest-dwelling California bats (*Myotis californicus*). Journal of Mammalogy 78:1231-1239.
- Jachowski, D.S., C.T. Rota, C. A. Dobony, W. M. Ford, and J. W. Edwards. 2016. Seeing the forest through the trees: Considering roost-site selection at multiple spatial scales. PLoS ONE 11(3):e0150011.
- Johnston, Dave S., Kim Briones, and Christopher Pincetich. 2019. California Bat Mitigation: A Guide to Developing Feasible and Effective Solutions. H. T. Harvey & Associates, Los Gatos, CA. Prepared for the California Department of Transportation, Office of Biological Studies, Sacramento, CA. Task Order 7, Agreement No.43A0355.
- Kurta, A. 1986. Factors affecting the resting and post-flight body temperature of little brown bats, *Myotis lucifugus*. Physiological Zoology 59: 429-438.
- Lang A. B., E. K. V. Kalko, H. Romer, C. Bockhold, and D. K. N. Dechmann. 2006. Activity levels of bats and katydids in relation to the lunar cycle. *Oecologia* 146: 659-666.
- Lewis, S.E. 1995. Roost fidelity of bats: a review. Journal of Mammalogy 76:481-496.
- O'Farrell M. J., B. W. Miller, and W. L. Gannon. 1999. Qualitative identification of free-flying bats using the Anabat detector. *Journal of Mammalogy* 80:24-30.

- Ormsbee, P.C., and W.C. McComb. 1998. Selection of day roosts by female long-legged Myotis in the central Oregon Cascade Range. Journal of Wildlife Management 62:596-603.
- Rabe, M.J., T.E. Morrell, H. Green, J.C. DeVos, Jr., and C.R. Miller. 1998. Characteristics of Ponderosa pine snag roosts used by reproductive bats in Arizona. Journal of Wildlife Management 62:612-621.
- U.S. Geological Survey (USGS). 2005. Bat Inventory of the Multiple Species Conservation Program Area in San Diego County, California, 2002-2004. Final report.
- Vonhof, M.J. and R.M.R. Barclay. 1996. Roost-location selection and roosting ecology of forest-dwelling bats in southern British Columbia. Canadian Journal of Zoology 74:1797-1805.
- Willis, C.K.R, C.M. Voss, and R.M. Brigham. 2006. Roost selection by forest-living female big brown bats (*Eptesicus fuscus*). Journal of Mammalogy 87:345-350.
- Zeiner, D., W. Laudenslayer, K. Mayer, and M. While, eds. 2001. California's wildlife. CD-ROM. California Department of Fish and Game, Sacramento.

Representative Photographs



Photo 1. View of amplifier tree scheduled for trimming where emergence survey was conducted.



Photo 2. Representative photograph of bat habitat tree in black willow forest.

APPENDIX C

ISHB Monitoring Logs

Devil's Gate Biological Monitoring Log Biologist/Monitor: Josh Harris

Company: ECORP
Date of Log: October 19, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	07:58	65 °F	0-3 MPH	0 %
End of Day	13:51	90 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. Tree removal crew for invasive shot hole bore beetle.
- 2. One chainsaw and one woodchipper.
- 3. Panamerican; crew of eight and David (foreman).

Did you observe any special-status species? ☐ Yes ☑ No
Were any least Bell's Vireo detected? ☐ Yes ☑ No
List of species observed while monitoring: ACWO, California ground squirrel, wood rat, side blotched lizard
Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0758-0927: Arrived on site and met Carley/crew. Spoke with crew and gave the WEAP training to all eight workers. Walked the site with Department of Agriculture (Rachel Burnap) and crew identifying trees needing to be removed. 0928: Carley leaves.

0933-0948: Crew begins work. Removes three amplifier trees (ID 350) using a chainsaw.

1014: Crew moved to black willow forest north and began with removing amplifier trees. Then continued to remove trees marked by the Department of Agriculture.

1023: Last amplifier tree was removed from the west side. Amplifier trees removed included ID 350 (count of 3), 351 and 352. In the process of falling ID 351 a Baccharis pilularis was slightly damaged but not uprooted.

1036: Crew continues to haul out trees that were fell in the black willow forest north.

1102: Tree hits a few Baccharis salicifolia while being fallen. No serious damage done to the plants.

1115: Lunch.

1215: Return.

1246: Tree fell and slightly damages Baccharis pilularis and Ambrosia acanthicarpa.

1330: Crew is cleaning up while I finish Survey123 log.

Additional Comments

Crew finished day with falling 60 trees in total.

Signature

M



Crew_memeber_removing_amplifer_tree_facing_northeast.jpg



Fallen_trees_being_chipped_for_solarization_facing_west.jpg



Crew_members_hauling_out_fallen_trees_facing_east.jpg



End_of_day_solarization_progress_facing_west.jpg

Devil's Gate Biological Monitoring Log Biologist/Monitor: Carley Adams Company: ECORP

Date of Log: October 20, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	07:00	63 °F	0-3 MPH	25 %
End of Day	12:30	78 °F	0-3 MPH	15 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

Crew removing ISHB invested trees in willow forest north and south. Equipment used included one chainsaw and one wood chipper. Material was hauled out by hand. Crew consisted of one foreman (Carlos) one tree feller, and five laborers. 103 dead snags were removed.

Did you observe any special-status species? ☐ Yes ☑ No
Were any least Bell's Vireo detected? □ Yes ☑ No
List of species observed while monitoring: MODO, ANHU, YRWA, BEWR, CORA, RTHA, RSHA, ACWO, BUSH, NOMO
Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

0700: Arrived onsite and conducted sweep of work area.

0730: Crew arrived and discussed plant for the day.

0745: Crew began infested tree removal in willow forest south.

Additional Comments

N/A

Signature



ISHB_Tree_Removal_During_facingSW.jpg -118.17422405555556 34.192399888888886



ISHB_Teee Removal_during_facingSW.jpg -118.17430952777778 34.19259059444444



ISHB_Tree Removal_Before_facingS.jpg -118.17435245833333 34.19260347222222



ISHB_Tree Removal_After_facingS.jpg -118.17438785277778 34.19262638888888

Devil's Gate Biological Monitoring Log Biologist/Monitor: Eliza McLean

Company: ECORP Date of Log: October 24, 2022

	Time	Temperature (°F)	Wind Range (MPH)	Cloud Cover (%)
Start of Day	06:45	51 °F	0-3 MPH	0 %
End of Day	11:00	67 °F	4-6 MPH	0 %

What Type of Monitoring is Being Conducted?

Restoration Monitoring

Construction Activity:

- 1. ISHB tree removal.
- 2. Pole cutter, chainsaw, chipper.
- 3. Rachel (Department of Agriculture), Carlos (Lead), crew of six.

Did you observe any special-status species? ☐ Yes ☑ No

Were any least Bell's Vireo detected? ☐ Yes ☑ No

List of species observed while monitoring:

CALT, AMCR, HOFI, YRWA, BLPH, ACWO, CASJ, ANHU, RCKI, WCSP, MODO, BEWR, EUST, DEJU, BUSH, CAQU, LEGO, GRFL, SPTO, NUWO, BRBL, COYE, SOSP, VESP, desert cottontail, California ground squirrel

Did You Observe any Non-Compliance Issues? ☐ Yes ☑ No

Log Entry

- 0645: Arrived on site. Inspected wood chip tarp. Talked to Rachel about plan for the day.
- 0750: Crew arrived on site. Discussed plan with crew.
- 0810: Headed to east side. Crew trimmed tree 354.
- 0935: Finished trimming tree, headed back to west side to chip.
- 0945: Started chipping branches.
- 1045: Finished chipping and securing tarp.
- 1100: Left site.

Additional Comments

N/A

Signature

lya M



Tree_trimming_facingW.jpg -118.1709769388889 34.191111666666664



Tree_after_trimming_facingW.jpg -118.17099353611111 34.191116888888888



Chipping_facingE.jpg -118.17540305555556 34.19264654444444



Secured_tarp_facingW.jpg -118.175179444444445 34.19256932222222

APPENDIX D

City Protected Tree Survey - Addendum



Mr. Keith Hala Los Angeles County Public Works 900 South Fremont Avenue, 9th Floor Alhambra, California 91803

Re: Devil's Gate Reservoir Restoration Project - City Protected Tree Survey - Addendum

1.0 INTRODUCTION

The purpose of this letter report is to provide an addendum to the City Protected Tree Survey Report prepared by ECORP Consulting, Inc. (ECORP) for the Devil's Gate Reservoir Restoration Project (Project) dated October 2018. In addition, this letter report documents the additional City of Pasadena (City) protected trees that were removed in October of 2022 at the recommendation of the Los Angeles County Agricultural Commissioner/Weights and Measures (ACWM) following the confirmed presence of the invasive shot hole borer (ISHB). This letter report is being prepared in accordance with Mitigation Measure (MM) BIO-7 for the Project and Pasadena's City Trees and Tree Protection Ordinance (Ordinance).

2.0 ADDITIONAL IMPACTS TO PROTECTED TREES

2.1 Brief Summary of ACWM Findings

In the summer of 2021, the mitigation areas for the Project were surveyed by the ACWM to identify trees infested with ISHB following public concern for the health of the trees in the DG-W-2 (Mining Pit) mitigation area. During the survey, the ACWM identified four City protected native trees that were heavily or severely infested with ISHB (amplifier trees) including three Fremont's cottonwoods (*Populus fremontii*) that were identified as needing to be removed and one Fremont's cottonwood that was identified as needing to be trimmed to remove infested branches. Data for the four Fremont's cottonwoods, including diameter at breast height (DBH), height, level of infestation, and action taken, can be found in the Final ISHB Report for Devil's Gate Reservoir Restoration Project prepared by ACWM and dated December 2021 (Attachment A).

2.2 Discussion of Impacts

A total of three Fremont's cottonwoods were removed and one Fremont's cottonwood was trimmed per the recommendations from the ACWM due to the high level of ISHB infestation. The tree canopy cover for City protected native trees that was impacted as a result of the ISHB tree removal activities included approximately 0.02 acre of Fremont's cottonwood. Tree's identified by ACWM as being infested with ISHB were removed in an effort to prevent the spread of this invasive beetle and further loss of City protected native trees. Mitigation for the Project has exceeded level of mitigation required for the amount of impacted canopy and to date, a total of 1,678 1-gallon Fremont's cottonwoods have been planted as part of the mitigation for the Project.

If you have any questions about the information presented in this letter, please contact me at Cadams@ecorpconsulting.com or (714) 648-0630.

Sincerely,

Carley Adams Senior Biologist

CenyOf

ATTACHMENT A

ACWM Report

December 1, 2021

Prepared for the Los Angeles County Public Works

Prepared by Rachel Burnap and Fayek Girgis, Los Angeles County Agricultural Commissioner/Weights and Measures (ACWM)

Final ISHB Report for Devil's Gate Reservoir Restoration Project

Background

In the summer of 2021, large areas of black willow dieback were noticed by the general public and by ECORP Consulting during monitoring visits. ECORP Consulting inspected the trees and noticed signs of Invasive Shothole Borer infestation. ECORP then notified the Los Angeles County ACWM.

Methods

During the months of September, October, and November 2021, Inspectors Burnap and Girgis assessed thousands of trees for infestation and damage caused by the Polyphagous and/or Kuroshio bark beetles (collectively known as Invasive Shothole Borers or ISHB). The entire area shown in the Devil's Gate Mitigation Areas 20210723 shapefile was gridded, including both the east and west area of the reservoir. Every known tree host species for ISHB and any tree that exhibited severe dieback or found dead was examined. The primary tree species examined included black willows (*Salix nigra*), Fremont cottonwoods (*Populus fremontii*), a few sycamore hybrids (*Platanus* spp.), and a box elder (*Acer negundo*).

Each tree was examined for active ISHB entry holes. Trees that had heavy to severe infestations (150 active entry holes and/or over 30% canopy dieback) were tagged and labeled to remove. These trees were found in the central area on the western side of the reservoir (See Maps 1 and 2). Trees where the active infestation or dieback was compartmentalized in a few branches were marked to be trimmed. Trees with moderate infestations were marked with GPS to monitor.

Dead trees located roughly in the area named DG-W-2 (named Black Willow Forest 1 for the purpose of this report) were also inspected. The number of trees to remove or be trimmed in this area was determined by marking the parameter of forest area by GPS, then determining the dead or trim tree density in a 5,000 sq. ft. area within it. The forest dead/trim tree density was observed to be spatially different, so this was delineated, and the forest area was divided into two sections, North and South (See Map 3). The southern section consisted of 60,399 sq. ft. with a density of 45 dead/trim trees per 5,000 sq. ft. area. The northern section consisted of 23,145 sq. ft. with a density of 120 dead/trim trees per 5,000 sq. ft. area.

All trees to remove or be trimmed were identified with a metal tree tag. Baseline data was collected for all tagged trees. This included a GPS point, tree height, tree Diameter at Breast Height (DBH), level of infestation, and level of dieback. Pictures were also taken. Ten wood samples were taken from the area to test for fusarium fungus. The fusarium samples were submitted through the Los Angeles County ACWM Plant Pathology Laboratory to the California Department of Food and Agriculture. One live beetle was found in an infested tree and sent to the Los Angeles County entomologist, Dr. Arakelian. He identified it as a Polyphagous Shothole Borer.

Active entry holes were determined by visual assessment and showed recent staining, and/or frass, with a clearly defined borders and a dark fusarium ring that continued through the bark and cambium layer into the sapwood. Inactive entry holes, as indicated by compartmentalization, had entry holes and fusarium that disappeared after scraping off the bark. These inactive entry holes were not counted but indicated that

the tree may be recovering. Black willows and cottonwoods were difficult to examine due to the thick bark and required careful and thorough examination.

The estimated number of active beetle entry holes determined the tree's level of infestation¹ (Low: 1-50, Moderate: 50-150, Heavy: over 150, and Severe/Amplifier: over 150 plus crown dieback). Levels of crown dieback included Low (1-20%), Moderate (21-30%), Heavy (over 30%), and Dead.

Discussion

Much of the Mitigation Area had little to no active infestation. However, infestations were not confined to any one area. A low to moderate active ISHB infestation was discovered throughout the Mitigation Area with 5 trees heavily or severely infested, 1 cottonwood to be trimmed, 11 trees to monitor, and 1,092 trees to be removed or trimmed in the Black Willow Forest 1 (See Photograph 1 and Table 1 in Recommendations).

Black Willow Forest 1 consisted of small diameter (approximately 4" to 10" DBH) black willows with varying degrees of dieback. Many, but not all, dead black willows in Forest 1 exhibited a low to moderate infestation, showing that the tree died from something other than fusarium dieback. Larger diameter (approximately 12" DBH and above) willows were also found infested, often with a higher infestation level than the small diameter trees. In this area, two severely infested (amplifier) willows were identified and tagged to be removed. Bot rot (a bacterial disease caused by Botryosphaeria) was also observed in this area in dead trees. Spread through rain and wind, bot rot infects stressed trees and can quickly cause tree mortality. Non-infested dead trees in this area will also be removed due to concern of fire in the urban wildland interface (See Photographs 2-3).

The fusarium seemed dry in many cases throughout the mitigation area, leading to the question if drought had slowed and/or prevented beetle reproduction since the fusarium fungus requires moisture to grow and is the beetle's sole source of food. This leads to the hypothesis that perhaps beetle infestation will increase once moisture is restored to the trees. Research on the Kuroshio ISHB infestation in the Tijuana River suggests that irrigated trees are more susceptible to infestation; however, there are other cases where non-irrigated trees are also severely infested, so this hypothesis continues to be debated².

An infested amplifier sycamore tree was discovered in the City of Pasadena Hahamonga Watershed Park parking lot, west of the mitigation area. Kenny Graham, the City of Pasadena Forester, was contacted. The city is already actively removing ISHB infested amplifier trees and taking the correct actions to prevent ISHB spread.

Recommendations

Removal of the 5 heavy and severely infested trees will prevent these trees from spreading the infestation. Trimming the infested cottonwood will help this tree continue to recover from a past heavy infestation and help protect park visitors from large falling limbs (See Photograph 4). Non-infested dead trees in the Black Willow Forest will also be removed due to concern of fire in the urban wildland interface. Trees in this area will also be trimmed as needed.

All tree material should be treated as infested on site to ensure that all beetles are killed. Wood should be chipped down to 1", covered with thick clear plastic, and left in place to solarize in the sun. Current

¹ As recommended by the University of California Agriculture and Natural Resources Cooperative Extension.

² Dr. Bea Nibua-Behrmann, personal correspondence, August 12, 2021.

recommendations can be found at www.ishb.org. Pile location/s should be chosen carefully to avoid damaging the native plants.

Monitoring of the infestation will be key to preserving tree diversity in this area. While only 9 trees were marked specifically, the entire mitigation area should be examined every 6 months to at least every year. The few sycamores, cottonwoods, and lone box elder should be particularly monitored. A list of reproductive host species, and pictures of ISHB infestation can be found at www.ishb.org.

ISHB traps deployed in the restoration area during the appropriate months will make monitoring easier. Traps should be placed between trees and not out in the open, for example, between a healthy and an infested tree. Traps should not be placed in a completely non-infested area since this could draw ISHB to healthy trees. An example of riparian trap deployment can be found in the Early Detection Rapid Response Plan LA County SMMNRA 2019 Exhibit A: Trapping Protocols³.

 3 Found at https://www.rcdsmm.org/wp-content/uploads/2019/12/EARLY-DETECTION-RAPID-RESPONSE-PLAN-LA-County-SMMNRA-2019.pdf

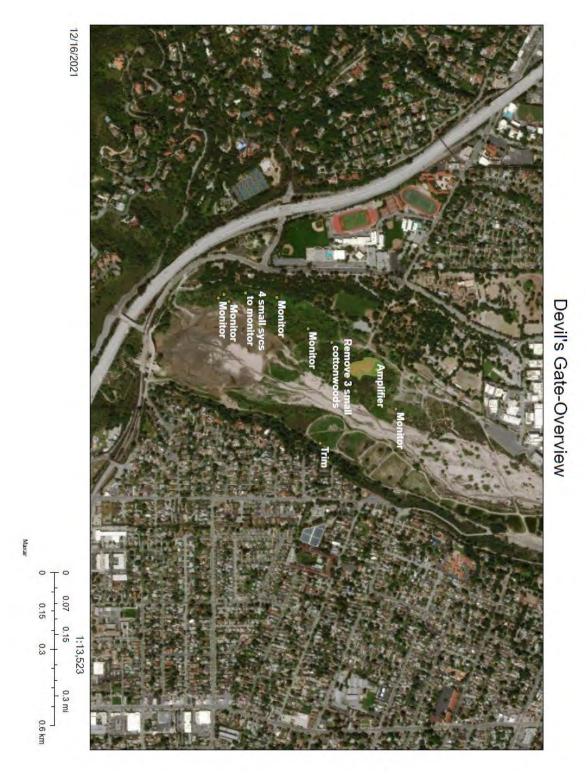
Table 1. Tree Information with associated Pest and Damage Records

Note GPS location of each tree.

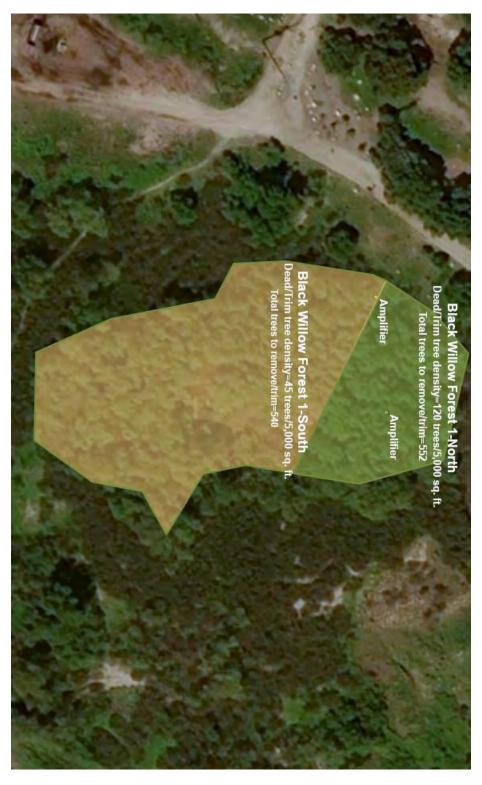
Tree Tag Number	Action to Take	Pest and Damage Record Number	Infestation Level	Latitude/Longitude	Notes
				-118.1752299 34.1916586	Tree #1-10" DBH 40 ft tall >30% dieback Tree #2- 5" DBH 15 ft
350	Remove 3 infested Fremont cottonwoods	19TP50001069 19TP50001239	Heavy		tall 20-30% dieback Tree #3- 11" DBH 30ft tall 20% dieback
351	Remove 1 black willow	19TP50001366	Amplifier	-118.1744484 34.19321886	6" DBH, 40 ft. tall, >30% dieback
352	Remove 1 black willow	19TP50001362	Amplifier	-118.1740602 34.19324788	9" DBH, 40 ft. tall, >30% dieback
Black Willow Forest 1- North	Remove and/or trim dead tops off approximately 552 trees	19TP50001364 19TP50001363 Taken from this area	Variable	Near -118.1740565 34.1930594	Black willows DBH roughly ranging from 4" to 10". Height ranges roughly from 20' to 35'.
Black Willow Forest 1- South	Remove and/or trim dead tops off approximately 540 trees	19TP50001238 19TP50001236 19TP50001237 Taken from this area	Variable	Near -118.1740565 34.1930594	Black willows DBH roughly ranging from 4" to 10". Height ranges roughly from 20' to 35'.
354	Trim large dead branches off cottonwood		Past heavy infestation	-118.170929 34.19125	24" DBH, 40 ft. tall, 20-30% dieback
No tag	Monitor black willow		Moderate	-118.1723905 34.19392	13" DBH, 30 ft. tall
No tag	Monitor black willow		Moderate	-118.1758144 34.19083	22" DBH, 45 ft. tall
No tag	Monitor black willow		Moderate	-118.1771497 34.18973	9" DBH, 25 ft. tall
No tag	Monitor black willow		Moderate	-118.1769705 34.18804	
No tag	Monitor 2 black willows		Moderate	-118.1772683 34.18786	
No tag	Monitor 4 small sycamores		Moderate	-118.1773353 34.18863	
No tag	Monitor large sycamore		Moderate	-118.1771122 34.18767	27" DBH, 55 ft. tall
TOTALS	Remove 5 infested trees		Trim 1 large cottonwood		
	Remove/trim 992 small DBH willows in Black Willow Forest 1		Specifically monitor 11 trees		



Map 1. Devil's Gate Restoration Project Overview Map with Project Boundaries. Note the green area marked with an Amplifier tree is the Black Willow Forest 1.



Map 2. Devil's Gate Restoration Project Overview Map without Project Boundaries. Note that there is an unseen Amplifier near the marked one in the light/dark green area.



Map 3. Overview of Black Willow Forest 1. North and South sections delineated according to dead/trim tree density. Note location of two amplifier trees within area.



Photograph 1. This larger DBH black willow had a low ISHB infestation. It was found in the Black Willow Forest 1. A wood sample was taken and sent to the CDFA for analysis. The dark fusarium fungus can be seen in the tree's sapwood.



Photograph 2. View of the Black Willow Forest 1 looking north. Note numerous small, dead willows.



Photograph 3. View looking up into the canopy of the Black Willow Forest 1. Note numerous dead trees but also trees that experienced canopy dieback in the upper portions.



Photograph 4. This Fremont cottonwood experienced canopy dieback and limb loss due to a heavy ISHB infestation. Note large branches on the ground. The tree is now in recovery. Trimming off dead branches will help its recovery and help protect park users visiting this trail.