

**Agency/Organization:** University of Nevada Las Vegas

**Project Name:** Reevaluating Desert Upland Habitat Restoration Sites

**Project Number:** 2017-UNLV-1760C

**Reporting Period:** Jan 1, 2024 - Mar 31, 2024

**Project Contact Name and Information:**

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**QUESTION 1: What did you accomplish during this reporting period?  
How did these accomplishments help you reach the goal of your project?  
If relevant, what indicators or benchmarks were used to determine your progress?**

During the reporting period, we began the 2024 field data collection season, meeting milestone M06 (begin fieldwork 2024 by March 14, 2024).

As of this reporting, we are at least 50% completed with this field data season and are on track to complete required data collection. This quarter we have completed the following:

**Restoration sites for which data collection is fully complete (i.e. perennials, annuals, site assessment)**

Las Vegas Bay Landfill  
Callville Bay Landfill  
SNWA Endcaps  
Lake Mead Lodge  
Fish Hatchery

**Restoration sites for which site and perennial data collection is complete:**

Jean Tortoise Translocation  
Goodsprings  
Bonnie Springs  
Tule Eglington,  
Boulder City Conservation Easement (BCCE) seeding

Note that for the five sites directly above, the delayed phenology this year has resulted in us adjusting to first collect the perennial data, then, in the next few weeks in the next quarter, we will return to complete annuals data collection at the appropriate phenological stage.

**We will be beginning data collection at the start of the next quarter for the following sites:**

2013-2014 BCCE Planting  
2020-2022 BCCE Planting  
Shoreline  
Northshore  
Road 108

In terms of plots:

34 plots (5 sites) fully completed with all data collection  
173 plots (5 sites) have all data collected, except for annuals noted above  
163 (5 sites) will have data collection started next quarter

The above breakdown of data collection in terms of the proportions of sites and plots completed represents both meeting the goals of the project (sampling and identifying long-term restoration trends) and the benchmark for progress.

**QUESTION 2: What, if any, problems were encountered? Briefly describe those problems and the manner in which they were dealt.**

By far the biggest challenge has been the unusual combination of weather conditions this growing season. Rainfall has been plentiful in many areas, but cold temperatures appear to have tempered the annual response and delayed phenology. Despite this, this is a reasonably good year in terms of annual plant occurrences, which is outstanding for the goals of the project, as compared, for example, with a case of a dry year with no annuals (and hence no way to assess annual response to restoration). To deal with this challenge of the delayed phenology, we have developed an effective strategy, where appropriate, of first sampling the site and perennial conditions, then returning to sample the annuals at the appropriate stage of phenological development.

**QUESTION 3: What, if any, proposed activities were not completed? Briefly describe those activities, the reasons they were not completed and your plans for carrying them out.**

All proposed activities are completed or in progress for being completed. The current trajectory of sampling (as noted in Question 1) makes the project on track to complete all required plots by the end of the 2024 spring growing season.

**QUESTION 4: What is the calculated percent of work completed?**

We have completed at least 50% of the fieldwork for this project and are on track to complete remaining plots by the end of the 2024 spring field season.

**QUESTION 5: Do you foresee any upcoming problems with future project activities? If so, how do you propose to overcome those problems?**

We do not foresee any additional upcoming problems at the present time, as the main challenge was the cold temperatures and delayed phenology this spring. We have worked through this problem as noted above by using a multi-stage sampling strategy.

**QUESTION 6: Is there anything else you want to tell the DCP about this project?**

We remain in contact with Clark County personnel regarding the project on an ongoing basis and do not have further information to share at the present time.

**QUESTION 7: What was produced during the reporting period?**

During this project period, we have begun field work (meeting M06) and have produced datasheets, a spreadsheet file, and photos for the plots sampled.