



## **Quarterly Report**

**Agency/Organization:** OrniLogic, LLC

**Project Name:** Subsidized Raven Management at the BCCE

**Project Number:** 2023-ORNILOGIC-2362B

**Reporting Period:** October 1, 2025 – December 31, 2025

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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?**

This quarterly report documents the status of the Subsidized Raven Management at the BCCE conducted by the OrniLogic, LLC for project number 2023-ORNILOGIC-2362B; October 1, 2025 to December 31, 2025. The fourth quarter of progress on this project has been characterized by efforts to prepare for the spring field work push of 2026. These actions have included:

1. Reviewing and revamping OrniLogic's field protocols for data collection and survey operations.
2. Researching the wide variety of available cellular-connected field cameras and selecting the best option for replacing the current aging fleet of cameras.
3. Integrating SMART laser operations into OrniLogic's broader on-going laser monitoring program to increase operational hours and increase cost savings to the project.
4. Reaching out to each utility operating within BCCE to lay the groundwork for spring drone operations along the transmission rights-of-ways.

**Project Goals and Objectives:**

- Implementing a comprehensive, multi-pronged approach to address challenges posed by predator subsidies encompassing a complex interplay of factors, including human behavior, choices, and desires, compounded by the resourcefulness of ravens.
- Reduce raven access to demonstrated subsidies to reduce their overall numbers and the spillage of the problems they cause from Boulder City facilities into adjacent Mojave desert tortoise habitat.
- Refine methods of raven management in an urban area, surrounding support facilities, and adjacent desert tortoise habitat.
- Use acquired data and techniques to build upon and refine the recommendations for reduction of desert tortoise predation by ravens in the BCCE Predator Management

Plan.

- Apply these lessons and techniques to the large-scale subsidy site of Apex Landfill.

Objectives Completed this Quarter:

- OrniLogic has continued implementing a comprehensive, multi-pronged approach to address challenges posed by predator subsidies surrounding BCCE. This approach includes updating our survey and data collection protocol to select for consistency and alignment with the most up-to-date practices. It also includes procuring a new roster of cellular-connected field cameras, matched with an updated cloud-based database. Finally, our SMART laser operations have been integrated into our broader, on-going laser operations to increase operational windows and capture cost savings for the BCCE project.

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

Field Cameras

Over the spring and summer of 2025, OrniLogic encountered various problems with the current roster of field cameras as well as ran up against the limitations of their data storing capacity. This led to an extensive search for viable alternative, cellular-based cameras supported by a robust and secure cloud storage service. We will be field trial testing two options this winter, the Flex-Dark by SpyPoint and the Reveal Ultra by Tactacam to determine which camera system is the best investment for long-term use.

These cameras will not be paid for by project funds but will be used on the BCCE project to support its outcomes and bolster its data generating capacity.

SMART Laser

The new user interface for the SMART lasers deployed at two different locations for the project received extensive operation over the summer and experienced challenges with latency and video feed quality. Updates have been made to the software since the summer testing and our fall operations show that these updates have remedied many of the previous problems. Additional updates to the hardware ongoing throughout the winter will enable over-the-air updates ensuring the SMART laser units will remain in operational form and reduce the need to spend project dollars on additional field time.

Progress has also been made on creating mobile platforms for the laser units. These tests have been conducted by our engineering team in California and we anticipate integrating some of these improvements into the SMART units at BCCE by early 2026.



**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.**

SMART Laser

The two SMART lasers assigned to the BCCE have faced intermittent cell service and operational disruptions. These challenges brought on by extreme conditions and untested electronics are to be expected when working with a new technology but these events have nonetheless resulted in inconsistent performance at times. By the winter of 2025 both laser systems were operating at a level consistently capable of eliminating raven presence, representing a significant improvement and step forward in system stability and reliability.

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

Approximately 70% of the project milestones have been met at this point in the project's new timeline.

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

OrniLogic continues to focus effort on establishing relationships with all utilities operating within the BCCE and ensure complete access to all active raven nests in the spring of 2026. However, as 2025 demonstrated, unexpected company policy changes can lead to a major disruption of planned operations leaving few alternatives available. It is entirely possible that something similar could arise in the upcoming spring oiling season but we are doing our best to avoid such an event. There is the additional challenge of inconsistent requirements by each utility provider for operations with a contractor like OrniLogic.

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

We would like to continue to discuss the proposed large-scale project in Apex Landfill and begin planning early steps for late winter and spring of 2026.

It also would be appropriate to further discuss what an expanded egg oiling effort could look like and how to fund such additional work. The current BCCE budget does not support the scale that would likely be necessary to expand nest searching and egg oiling drone flights outside of the currently prioritized transmission line right-of-ways. Expanding this effort would be the logical next step in reducing the presence of raven nesting across the entire BCCE and protecting the tortoises who call it home.

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

A better understanding of OrniLogic's capacity to collect data as well as what options exist to expand



those capabilities. Comprehensive SMART laser operating protocols were also established in addition to the successful integration of multiple laser video feeds into one dashboard. This improvement makes it possible for one designated operator to toggle through multiple active laser sites creating efficiencies and cost savings to the project.

Finally, a full review and update of our field operating and survey protocols was produced in the fourth quarter of 2025. These improvements will greatly benefit the BCCE project moving forward.

**Please report on the status of each Milestone and Deliverable, indicate whether they are not started, in progress, or completed and provide comments on the status as necessary**

#### APPENDIX 1 – BASIC SERVICES

**Milestone/Deliverable/Invoicing Schedule Table**  
Subsidized Raven Management at the BCCE  
2023-ORNILOGIC-2362B

Date Due	Deliverable / Milestone #	Deliverable / Milestone Title	Status
PO issue date (March 19, 2025)	M01	Contract Award and Mobilization	Complete
April 3, 2025	M02	Project Kick-off Meeting	Complete
30 days after PO issue date (April 18, 2025)	D01	Permits	Complete
30 days after PO issue date (April 18, 2025)	D02	Work Plan	Complete
30 days after PO issue date (April 18, 2025)	D03	Data Management Plan	Complete
May 1, 2025	M03	Fixed lasers installed and functioning	Complete
May 1, 2025	D04	First Quarterly Data Deliverable	Complete
April 5, 2025	D05	Quarterly Progress Report (January 1, 2025 – March 31, 2025)	Complete
May 15, 2025	M04	First Quarterly Project Status Meeting	Complete
May 30, 2025	D06	Egg oiling operations complete - 2025	Complete
June 30, 2025	D07	Biennium Progress Summary Report	Complete



July 1, 2025	D08	Second Quarterly Data Deliverable	Complete
July 5, 2025	D09	Quarterly Progress Report (April 1, 2025 – June 30, 2025)	Complete
July 15, 2025	M05	Second Quarterly Project Status Meeting	Complete
TBD, August 2025	M06	2025 Annual Project Review Presentation (If requested)	Canceled
October 1, 2025	D10	Third Quarterly Data Deliverable	Complete
October 5, 2025	D11	Quarterly Progress Report (July 1, 2025 – September 30, 2025)	Complete
October 15, 2025	M07	Third Quarterly Project Status Meeting	Complete
January 5, 2026	D12	Quarterly Progress Report (October 1, 2025 – December 31, 2025)	Complete
April 5, 2026	D13	Quarterly Progress Report (January 1, 2026 – March 31, 2026)	Not Started
May 31, 2026	D14	Egg oiling operations complete - 2026	Not Started
June 15, 2026	D15	Final Project Data	Not Started
June 15, 2026	D16	Final Project Report	Not Started
June 20, 2026	M08	Debrief Meeting	Not Started
July 15, 2026	D17	Final Biennium Progress Summary Report	Not Started
20 Days Prior to End Date	M09	Receipt Submittal (As necessary)	Not Started
August 15, 2026	D18	Final Project Review Summary Form and Project Claim Release	Not Started
September 15, 2026		Project Closeout	Not Started