

GRANTS/CONTINGENT AWARD REQUEST



To: Grants and Loans Office

Date: 4/2/2012

Project Manager: Misa Milliron

Phone Number: 916-327-1545

Office: Energy Generation Research Office

Division: Energy Research and Development

MS- 43

Project Title: Effect of Utility-Scale Solar Development and Operation on Desert Kit Foxes

Type of Request: (check one)

[X] New Agreement: (include items A-F from below) Agreement Number: PIR-11-012
Program: PIER E / Environmental Area
Solicitation Name and/or Number: Energy Systems
Legal Name of Recipient: Randel Wildlife Consulting, Inc
Recipient's Full Mailing Address: 647 ORANGE GROVE AVE UNIT 207 SOUTH PASADENA, CA 91030-2330
Recipient's Project Officer: Charles Randel Phone Number: 626-590-7798
Agreement Start Date: 6/29/2012 Agreement End Date: 3/1/2015

[] Amendment: (Check all that apply) Agreement Number:
[] Term Extension - New End Date:
[] Work Statement Revision (include Item A from below)
[] Budget Revision (include Item B from below)
[] Change of Scope (include Items A - F as applicable from below)
[] Other:

ITEMS TO ATTACH WITH REQUEST:

- A. Work Statement B. Budget C. Recipient Resolution, if applicable. (Resolution may be requested in Special Conditions if not currently available.) D. Special Conditions, if applicable. E. CEQA Compliance Form F. Other Documents as applicable: Copy of Score Sheets, Copy of Pre-Award Correspondence, Copy of All Other Relevant Documents

California Environmental Quality Act (CEQA)

[] CEC finds, based on recipient's documentation in compliance with CEQA:
[] Project exempt: NOE filed:
[] Environmental Document prepared: NOD filed:
[] Other:
[X] CEC has made CEQA finding described in CEC-280, attached

Funding Information:

*Source #1: PIER-E Amount: \$ 606,257.00 Statute: 10- FY: 11-12 Budget List #: 501.0271
*Source #2: Amount: \$ Statute: FY: Budget List #:
*Source #3: Amount: \$ Statute: FY: Budget List #:

If federally funded, specify federal agreement number:

* Source Examples include ERPA, PIER-E, PIER-NG, FED, GRDA, ARFVT, OTHER.

Business Meeting Approval: (refer to Business Meeting Schedule)

Proposed Business Meeting Date: 5/9/2012 [] Consent [X] Discussion
Business Meeting Participant: Misa Milliron Time Needed: 5 minutes

Agenda Notice Statement: (state purpose in layperson terms)

Possible approval of a [X] Grant / [] Contingent Award to...

Possible approval Agreement PIR-11-012 for a grant of \$606,257.00 to Randel Wildlife Consulting, Inc. to quantify desert kit fox movements, home ranges, disease, and mortality in areas effected by utility-scale solar developments. This information will provide a scientific baseline for developing guidelines to evaluate utility-scale solar development impacts on the desert kit fox. (PIER electricity funding.) Contact: Misa Milliron. (5 minutes)

Exhibit A WORK STATEMENT

TECHNICAL TASK LIST

Task #	CPR	Task Name
1		Administration
2	X	Kit Fox Research Study
3		Causes of Disease and Mortality Prevalence
4		Population Genetics Analysis

KEY NAME LIST

Task #	Key Personnel	Key Subcontractor(s)	Key Partner(s)
1	Charles J. Randel, III (Randel Wildlife Consulting, Inc.)		
2	Charles J. Randel, III (Randel Wildlife Consulting, Inc.)	William Vanherweg	Dr. Deana Clifford – CA Department of Fish and Game (CDFG)
3	Charles J. Randel III (Randel Wildlife Consulting, Inc.)	Mourad Gabriel – Integral Ecology Research Center	Dr. Deana Clifford - CDFG
4	Charles J. Randel III (Randel Wildlife Consulting, Inc.)	Dr. Rodney Honeycutt - Pepperdine University	

GLOSSARY

Specific terms and acronyms used throughout this scope of work are defined as follows:

Term/ Acronym	Definition
BLM	Bureau of Land Management
CDFG	California Department of Fish and Game
CDV	Canine Distemper Virus
Energy Commission	California Energy Commission
CEQA	California Environmental Quality Act
CPR	Critical Project Review
CPUC	California Public Utility Commission
IERC	Integral Ecology Research Center
IgG	Chronic infection antibodies
IgM	Acute Infection antibodies
SEIA	Solar Energy Industries Association
USFWS	United States Fish and Wildlife Service

Exhibit A WORK STATEMENT

Problem Statement:

California's Renewable Portfolio Standard was mandated by Senate Bill X1-2 2011 to reach the renewable energy goal of 33 percent by 2020. This mandate has resulted in the rapid development of utility-scale solar projects in the state. Pursuant to the California Environmental Quality Act (CEQA), proposed projects, as defined by CEQA, are required to conduct an evaluation of the potential impacts of the proposed project to biological resources. The evaluation must determine if the proposed project would:

- “a) Have a substantial adverse effect, either directly or through habitat modification, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulation, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

- d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or established native resident or migratory wildlife corridors, or impeded the use of native wildlife nursery sites?”

To accurately evaluate the potential adverse effects of construction and operation of utility-scale solar projects, either through direct or indirect habitat impacts on listed species or their interference with the movement of native resident wildlife species, scientific studies are needed to document baseline requirements for those species likely to be effected. Two kit fox subspecies are found in California, the San Joaquin kit fox and desert kit fox. While many studies have been conducted on the endangered San Joaquin kit fox, ecological and demographic data necessary to assess population trends and demographic patterns for the desert kit fox are very limited. This information is necessary to more accurately evaluate and assess the potential impacts of utility-scale solar projects to desert kit fox populations at the local, regional, and range-wide level. The collection of long-term data in close proximity to utility-scale solar developments will provide scientific insights on how these projects may affect the home range, movements, disease and mortality prevalence, and genetic flow of desert kit fox populations.

Goals of the Agreement:

The goal of this Agreement is to quantify desert kit fox movements and home ranges in desert areas with existing and planned future solar developments. Such information will be useful in future CEQA analysis for determining potential impacts and appropriate mitigation measures. To meet this goal 40 desert kit foxes will be captured and fitted with mortality-sensitive radio collars in the Chuckwalla Valley, eastern Riverside County. Radio collared desert kit foxes will be tracked 3 or more times a week for a period of 24 months to measure and compare daily and seasonal movements, and seasonal and annual fixed kernel home ranges of individual kit foxes.

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Objectives of the Agreement:

The objectives of this Agreement are to: (1) quantify the effects of utility-scale solar facility construction and operations have on the home range and movements of desert kit foxes and (2) provide a scientific baseline for developing guidelines to evaluate utility-scale solar development impacts on the desert kit fox.

TASK 1 ADMINISTRATION

Task 1.1 Attend Kick-off Meeting

The goal of this task is to establish the lines of communication and procedures for implementing this Agreement.

The Recipient shall:

- Attend a “Kick-Off” meeting with the Commission Project Manager, the Grants Officer, and a representative of the Accounting Office. The Recipient shall bring its Project Manager, Agreement Administrator, Accounting Officer, and others designated by the Commission Project Manager to this meeting. The administrative and technical aspects of this Agreement will be discussed at the meeting. Prior to the kick-off meeting, the Commission Project Manager will provide an agenda to all potential meeting participants.

The administrative portion of the meeting shall include, but not be limited to, the following:

- Discussion of the terms and conditions of the Agreement
- Discussion of Critical Project Review (Task 1.2)
- Match fund documentation (Task 1.6). No work may be done until this documentation is in place.
- Permit documentation (Task 1.7)
- Discussion of subcontracts needed to carry out project (Task 1.8)

The technical portion of the meeting shall include, but not be limited to, the following:

- The Commission Project Manager’s expectations for accomplishing tasks described in the Scope of Work
- An updated Schedule of Products
- Discussion of Progress Reports (Task 1.4)
- Discussion of Technical Products (Product Guidelines located in Section 5 of the Terms and Conditions)
- Discussion of the Final Report (Task 1.5)

The Commission Project Manager shall designate the date and location of this meeting.

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Recipient Products:

- Updated Schedule of Products
- Updated List of Match Funds
- Updated List of Permits

Commission Project Manager Product:

- Kick-Off Meeting Agenda

Task 1.2 Critical Project Review (CPR) Meetings

The goal of this task is to determine if the project should continue to receive Energy Commission funding to complete this Agreement and to identify any needed modifications to the tasks, products, schedule or budget.

CPRs provide the opportunity for frank discussions between the Energy Commission and the Recipient. The Commission Project Manager may schedule CPRs as necessary, and CPR costs will be borne by the Recipient.

Participants include the Commission Project Manager and the Recipient and may include the Commission Grants Officer, the Division team lead, other Energy Commission staff and Management as well as other individuals selected by the Commission Project Manager to provide support to the Energy Commission.

The Commission Project Manager shall:

- Determine the location, date, and time of each CPR meeting with the Recipient. These meetings generally take place at the Energy Commission, but they may take place at another location.
- Send the Recipient the agenda and a list of expected participants in advance of each CPR. If applicable, the agenda shall include a discussion on both match funding and permits.
- Conduct and make a record of each CPR meeting. One of the outcomes of this meeting will be a schedule for providing the written determination described below.
- Determine whether to continue the project, and if continuing, whether or not modifications are needed to the tasks, schedule, products, and/or budget for the remainder of the Agreement. Modifications to the Agreement may require a formal amendment (please see section 8 of the Terms and Conditions).
- Provide the Recipient with a written determination in accordance with the schedule. The written response may include a requirement for the Recipient to revise one or more product(s) that were included in the CPR.

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The Recipient shall:

- Prepare a CPR Report for each CPR that discusses the progress of the Agreement toward achieving its goals and objectives. This report shall include recommendations and conclusions regarding continued work of the projects. This report shall be submitted along with any other products identified in this scope of work. The Recipient shall submit these documents to the Commission Project Manager and any other designated reviewers at least 15 working days in advance of each CPR meeting.
- Present the required information at each CPR meeting and participate in a discussion about the Agreement.

Commission Project Manager Products:

- Agenda and a list of expected participants
- Schedule for written determination
- Written determination

Recipient Product:

- CPR Report(s)

Task 1.3 Final Meeting

The goal of this task is to close out this Agreement.

The Recipient shall:

- Meet with Energy Commission staff to present the findings, conclusions, and recommendations. The final meeting must be completed during the closeout of this Agreement.

This meeting will be attended by, at a minimum, the Recipient, the Commission Grants Office Officer, and the Commission Project Manager. The technical and administrative aspects of Agreement closeout will be discussed at the meeting, which may be two separate meetings at the discretion of the Commission Project Manager.

The technical portion of the meeting shall present an assessment of the degree to which project and task goals and objectives were achieved, findings, conclusions, recommended next steps (if any) for the Agreement, and recommendations for improvements. The Commission Project Manager will determine the appropriate meeting participants.

The administrative portion of the meeting shall be a discussion with the Commission Project Manager and the Grants Officer about the following Agreement closeout items:

Exhibit A WORK STATEMENT

- What to do with any equipment purchased with Energy Commission funds (Options)
- Energy Commission's request for specific "generated" data (not already provided in Agreement products)
- Need to document Recipient's disclosure of "subject inventions" developed under the Agreement
- "Surviving" Agreement provisions
- Final invoicing and release of retention
- Prepare a schedule for completing the closeout activities for this Agreement.

Products:

- Written documentation of meeting agreements
- Schedule for completing closeout activities

Task 1.4 Monthly Progress Reports

The goal of this task is to periodically verify that satisfactory and continued progress is made towards achieving the research objectives of this Agreement on time and within budget.

The objectives of this task are to summarize activities performed during the reporting period, to identify activities planned for the next reporting period, to identify issues that may affect performance and expenditures, and to form the basis for determining whether invoices are consistent with work performed.

The Recipient shall:

- Prepare a Monthly Progress Report which summarizes all Agreement activities conducted by the Recipient for the reporting period, including an assessment of the ability to complete the Agreement within the current budget and any anticipated cost overruns. Each progress report is due to the Commission Project Manager within 10 days of the end of the reporting period. The recommended specifications for each progress report are contained in Section 6 of the Terms and Conditions of this Agreement.

Product:

- Quarterly Progress Reports

Task 1.5 Final Report

The goal of the Final Report is to assess the project's success in achieving its goals and objectives, advancing science and technology, and providing energy-related and other benefits to California.

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The objectives of the Final Report are to clearly and completely describe the project's purpose, approach, activities performed, results, and advancements in science and technology; to present a public assessment of the success of the project as measured by the degree to which goals and objectives were achieved; to make insightful observations based on results obtained; to draw conclusions; and to make recommendations for further projects and improvements to the project management processes.

The Final Report shall be a public document. If the Recipient has obtained confidential status from the Energy Commission and will be preparing a confidential version of the Final Report as well, the Recipient shall perform the following activities for both the public and confidential versions of the Final Report.

The Recipient shall:

- Prepare an Outline of the Final Report.
- Prepare a Final Report following the approved outline and the latest version of the Final Report guidelines which will be provided by the Commission Project Manager. The Commission Project Manager shall provide written comments on the Draft Final Report within fifteen (15) working days of receipt. The Final Report must be completed at least 60 days before the end of the Agreement Term.
- Submit one bound copy of the Final Report with the final invoice.

Products:

- Draft Outline of the Final Report
- Final Outline of the Final Report
- Draft Final Report
- Final Report

Task 1.6 Identify and Obtain Matching Funds

The goal of this task is to ensure that the match funds planned for this Agreement are obtained for and applied to this Agreement during the term of this Agreement.

The costs to obtain and document match fund commitments are not reimbursable through this Agreement. Although the Energy Commission budget for this task will be zero dollars, the Recipient may utilize match funds for this task. Match funds shall be spent concurrently or in advance of Energy Commission funds for each task during the term of this Agreement. Match funds must be identified in writing and the associated commitments obtained before the Recipient can incur any costs for which the Recipient

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The Recipient shall:

- Prepare a letter documenting the match funding committed to this Agreement and submit it to the Commission Project Manager at least 2 working days prior to the kick-off meeting. If no match funds were part of the proposal that led to the Energy Commission awarding this Agreement and none have been identified at the time this Agreement starts, then state such in the letter. If match funds were a part of the proposal that led to the Energy Commission awarding this Agreement, then provide in the letter a list of the match funds that identifies the:
 - Amount of each cash match fund, its source, including a contact name, address and telephone number and the task(s) to which the match funds will be applied.
 - Amount of each in-kind contribution, a description, documented market or book value, and its source, including a contact name, address and telephone number and the task(s) to which the match funds will be applied. If the in-kind contribution is equipment or other tangible or real property, the Recipient shall identify its owner and provide a contact name, address and telephone number, and the address where the property is located.
- Provide a copy of the letter of commitment from an authorized representative of each source of cash match funding or in-kind contributions that these funds or contributions have been secured. For match funds provided by a grant a copy of the executed grant shall be submitted in place of a letter of commitment.
- Discuss match funds and the implications to the Agreement if they are reduced or not obtained as committed, at the kick-off meeting. If applicable, match funds will be included as a line item in the progress reports and will be a topic at CPR meetings.
- Provide the appropriate information to the Commission Project Manager if during the course of the Agreement additional match funds are received.
- Notify the Commission Project Manager within 10 days if during the course of the Agreement existing match funds are reduced. Reduction in match funds must be approved through a formal amendment to the Agreement and may trigger an additional CPR.

Products:

- A letter regarding match funds or stating that no match funds are provided
- Copy(ies) of each match fund commitment letter(s) (if applicable)
- Letter(s) for new match funds (if applicable)
- Letter that match funds were reduced (if applicable)

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Task 1.7 Identify and Obtain Required Permits

The goal of this task is to obtain all permits required for work completed under this Agreement in advance of the date they are needed to keep the Agreement schedule on track.

Permit costs and the expenses associated with obtaining permits are not reimbursable under this Agreement. Although the Energy Commission budget for this task will be zero dollars, the Recipient shall budget match funds for any expected expenditures associated with obtaining permits. Permits must be identified in writing and obtained before the Recipient can make any expenditure for which a permit is required.

The Recipient shall:

- Prepare a letter documenting the permits required to conduct this Agreement and submit it to the Commission Project Manager at least 2 working days prior to the kick-off meeting. If there are no permits required at the start of this Agreement, then state such in the letter. If it is known at the beginning of the Agreement that permits will be required during the course of the Agreement, provide in the letter:
 - A list of the permits that identifies the:
 - Type of permit
 - Name, address and telephone number of the permitting jurisdictions or lead agencies
 - The schedule the Recipient will follow in applying for and obtaining these permits.
- Discuss the list of permits and the schedule for obtaining them at the kick-off meeting and develop a timetable for submitting the updated list, schedule and the copies of the permits. The implications to the Agreement if the permits are not obtained in a timely fashion or are denied will also be discussed. If applicable, permits will be included as a line item in the Progress Reports and will be a topic at CPR meetings.
- If during the course of the Agreement additional permits become necessary, provide the appropriate information on each permit and an updated schedule to the Commission Project Manager.
- As permits are obtained, send a copy of each approved permit to the Commission Project Manager.
- If during the course of the Agreement permits are not obtained on time or are denied, notify the Commission Project Manager within 5 working days. Either of these events may trigger an additional CPR.

Products:

- Letter documenting the permits or stating that no permits are required
- A copy of each approved permit (if applicable)

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- Updated list of permits as they change during the term of the Agreement (if applicable)
- Updated schedule for acquiring permits as changes occur during the term of the Agreement (if applicable)

Task 1.8 Obtain and Execute Subcontracts

The goal of this task is for Recipients to identify any subcontracts required to carry out the tasks under this Agreement and to procure them consistent with the terms and conditions of this Agreement and the Recipient's own procurement policies and procedures. It will also provide the Energy Commission an opportunity to review the subcontracts to ensure that the tasks are consistent with this Agreement, that the budgeted expenditures are reasonable and consistent with applicable cost principles.

The Recipient shall:

- Prepare a letter documenting the subcontracts required to conduct this Agreement, and submit it to the Commission Project Manager at least 2 working days prior to the kick-off meeting. If there are no subcontracts required at the start of this Agreement, then state such in the letter. If it is known at the beginning of the Agreement that subcontracts will be required during the course of the Agreement, provide in the letter:
 - A list of the subcontracts that describes the anticipated maximum budget and general scope of work for each,
 - A description of the procurement process to be used, and
 - The schedule the Recipient will follow in applying for and obtaining these subcontracts
- Submit a draft of the subcontract that will include a budget with the information required in the budget details to the Commission Project Manager for review and approval, and incorporate any changes recommended by the Commission Project Manager.
- Submit a final copy of the executed subcontract.

Products:

- Letter describing the subcontracts needed, or stating that no subcontracts are required
- Draft subcontracts
- Final subcontracts

TECHNICAL TASKS

TASK 2 KIT FOX RESEARCH STUDY

Task 2.1 Equipment and Materials Acquisition

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The goal of this task is to acquire the necessary research equipment and materials to support Task 2 subtasks.

The Recipient shall:

- Prepare a letter documenting the type and cost of materials and equipment to be purchased
- Rent, lease, or purchase a field vehicle and make the necessary modification to conduct radio-telemetry. Modification will included:
 - Suspension modification and upgrades
 - Fabrication and installation of radio antenna mounting brackets and radio antenna
- Purchase radio-telemetry equipment including:
 - 40 mortality-sensitive radio collars
 - Radio receivers and antenna

Products:

- Draft letter describing the materials and equipment to be purchased with manufacturer and estimated cost
- Final Letter describing the materials and equipment to be purchased with manufacturer and estimated cost

Task 2.2 Kit Fox Capture and Marking

The goal of this task is to capture 40 kit foxes (20 per study site) and fit mortality-sensitive radio collars for radio telemetry and to draw blood samples for disease screening (Task 3) and population genetics analysis (Task 4).

The Recipient shall:

- Capture and affix mortality-sensitive Very High Frequency (VHF) radio-collars to 40 desert kit foxes
- Collect blood samples for disease (Task 3) and genetic analysis (Task 4)
- Prepare two letters, one for 2012 and one for 2013, summarizing trapping activities
- Participate in CPR per Task 1.2
- Prepare a CPR Report per Task 1.2

Products:

- Letter summarizing trapping activities for 2012 (no draft)
- Letter summarizing trapping activities for 2013 (no draft)
- CPR Report (no draft)

Task 2.3 Radio-Telemetry

The goal of this task is to track the daily, seasonal, and annual movements of radio-collared kit foxes, and provide data to estimate seasonal and annual home ranges.

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The Recipient shall:

- Track radio-collared kit foxes 3 or more times weekly
- Provide the total number of animals followed during the performance period in the monthly status reports
- Prepare an Access database containing georeferenced radio-telemetry stations and provide database on CD to CAM
- Prepare an Access database containing kit fox radio telemetry data and provide database on CD to CAM
- Create ArcGIS home range and movement shapefiles, with metadata, and a PDF summary version of the results.

Products:

- CD with Access Database containing georeferenced radio-telemetry stations
- CD with Access Database containing kit fox radio-telemetry data (no draft)
- ArcGIS home range and movement shapefiles with metadata and PDF summary (no draft)

TASK 3 CAUSES OF DISEASE AND MORTALITY PREVALENCE

The goal of this task is to determine the causes of mortality and disease prevalence of desert kit foxes and to compare mortality causes and disease prevalence in foxes at the sites.

The Recipient shall:

- Determine the cause of mortality for radio-collared desert kit foxes by conducting necropsies on recovered carcasses;
 - When indicated, additional veterinary diagnostic testing (e.g., toxicology, virus or bacterial culture) and predation forensics will be conducted to determine primary and contributing causes of death.
 - Necropsies will be conducted by a veterinary pathologist at the California Animal Health and Food Safety laboratory in Davis, CA. The pathologist will be designated by Dr. Deana Clifford, with Dr. Clifford participating in the necropsies
- Determine the prevalence of exposure to and infection with diseases of conservation concern in sampled desert kit foxes;
 - To determine exposure to canine distemper virus (CDV) and canine parvovirus, serum from sampled foxes will be tested for both acute infection antibodies (IgM) and chronic infection antibodies (IgG) using fluorescent antibody testing at the Integral Ecology Research Center (IERC) carnivore disease lab, Arcata, CA. Testing will be directly supervised by IERC. Examining both IgM and IgG antibodies will determine if animals have been recently or previously exposed and

Exhibit A WORK STATEMENT

- recovered from infection, and thereby offer insight into the state of disease exposure at both study sites
- Ocular/nasal swab samples will be taken to determine if captured foxes are shedding CDV. Samples will be placed into RNA later or other appropriate media and tested for the presence of canine respiratory virus using Real-Time Polymerase Chain Reaction.
 - Serum and swab samples from captured foxes will be tested for exposure to other canine diseases including canine adenovirus, canine coronavirus, canine herpesvirus and *Toxoplasma gondii*.
 - Analyze and interpret kit fox health data in order to provide advice to both the Recipient and the Energy Commission regarding differences in causes of mortality and disease exposure in desert kit foxes inhabiting desert sites with existing and planned future utility-scale solar energy development;
 - Specifically, the proportion of recently and chronically exposed, and shedding foxes will be calculated and mapped. If sample size is adequate, exposure, infection, and shedding will be stratified by age, sex and site to see if disease risk is higher for particular demographic or geographic groups
 - IERC (M. Gabriel) and CDFG (D. Clifford) will work with Randel Wildlife Consulting, Inc. to interpret significance of causes of mortality and disease exposure findings and to integrate health data into ecological analyses including demographic estimates, dispersal and home range analyses
 - If there appear to be health risks associated with desert kit foxes inhabiting sites impacted by utility-scale solar development, IERC and CDFG will provide technical support and expertise to determine appropriate mitigation and/or management strategies
 - Prepare a report summarizing the findings on disease prevalence and causes of mortality
 - Prepare scientific publications and have them peer-reviewed (if appropriate)
 - Provide copies of peer-reviewed scientific publications (if appropriate) (no draft)

Products:

- Draft report summarizing disease prevalence and causes of mortality
- Final report summarizing disease prevalence and causes of mortality
- Copies of peer-reviewed scientific publications (if appropriate) (no draft)

TASK 4 POPULATION GENETICS ANALYSIS

The goal of this task is to analyze collected DNA samples to test kit fox relatedness and determine emigration and immigration rates from adjacent desert kit fox populations.

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The Recipient shall:

- DNA samples collected during Task 2 activities for genetic analysis
- Analyze and interpret DNA sequencing to determine the level of contact and interbreeding between desert kit fox populations
- Prepare a report for each year, 2012 and 2013, summarizing the results of the genetic analyses

Products:

- Report summarizing the results of the 2012 genetic analyses (no draft)
- Report summarizing the results of the 2013 genetic analyses (no draft)