NORTHEAST REGIONAL CONSERVATION NEEDS GRANT 2013 PROGRESS REPORT

Quarter: (circle one) 2013 1st 2013 2nd 2013 3rd 2013 4th

Grant Program, Number and Title: RCN grant 2012-03 Evaluation of Prevalence of Fungal Dermatitis in New England Timber Rattlesnake Populations

Organization: Roger Williams Park Zoo

Project Leader: Lou Perrotti

Abstract: Please provide a short (1-2 paragraphs) abstract that addresses EACH of the following: the objectives of your project, accomplishments to date, future plans and timelines with an estimate for when the project will be completed.

The fall sampling period is straddling 3rd and 4th quarter dates. In the 4th quarter the following tasks were completed:

- We received and/or sampled 14 snakes. Combined with the 8 snakes that were sampled at the end of the 3rd quarter this brings us up to 44% of our expected goal of 50 snakes.
- Paramyxovirus testing was sent and results were received (all negative) for snakes from both the Spring and Fall collection periods.
- Data entry and reports were being prepared, this will be completed in the 1st quarter of 2014.

Were planned goals/objectives achieved last quarter?

The number of samples collected is lower than hoped. This is due to a combination of busy biologists and an abnormally short period of fall temperatures in 2013. We still have enough data points to provide useful information and if temperature/weather patterns permit we can potentially increase our sampling beyond 50 samples for both the Spring and Fall 2014 sampling sessions.

Progress Achieved: (For each Goal/Objective, list Planned and Actual Accomplishments)

Objective	Planned	Accomplished
Obtain an overall health assessment of multiple New England Timber Rattlesnake populations and determine the prevalence of skin lesions within each population	50 samples	22 (44% of goal)*
Determine the prevalence of fungal dermatitis via biopsy of any lesions identified	50 samples	22 (44% of goal)*
Determine the identification of any fungal organisms on biopsy by polymerase chain reaction testing with ITS2 sequencing	50 samples	22 (44% of goal)*
Obtain baseline hematological values and compare values between individuals with or without the presence of fungal dermatitis	50 samples	22 (44% of goal)*
Obtain baseline plasma biochemical values and compare values between individuals with or without the presence of	50 samples	22 (44% of goal)*

fungal dermatitis		
Determine prevalence of ophidian paramyxovirus in New England Timber Rattlesnake populations using polymerase chain reaction and association with the presence of skin lesions	50 samples	22 (44% of goal)*
Determine presence of heavy metals or toxins in individuals and association with the presence of skin lesions	50 samples	22 (44% of goal)*

NOTE: Our goal is to collect 50 samples during the fall collection period. The actual dates of snake collecting varies each year and is dependent on the weather. This year, the fall collection period is split between 3rd and 4th quarter. The totals listed above include the 8 snakes listed in the previous report.

Difficulties Encountered:

1. We are still having some trouble getting samples from one of the identified populations. This is outside of our control but we continue to try to work with this population manager to include more samples from their snakes.
2. The weather during the fall were not conducive to biologists having a sufficient number of days to locate and retrieve snakes for the study. The temperatures remained warm longer than normal and then dropped rapidly. This made the window narrow for snake collection and some biologists had trouble locating significant snakes.

Activities Anticipated Next Quarter:

Prepare reports for the biologists for Spring and Fall data.
Prepare biologists for spring sampling.

Expected End Date:

End of 2014.

Costs:

Total life to date expenses (include this quarter): $21,825.00

Total Approved Budgeted Funds: $81,148.71

Are you within the approved budget plan and categories? Yes

Signature:

Date: 2/3/2014

NORTHEAST REGIONAL CONSERVATION NEEDS GRANT
2013 FINANCIAL REPORT

Quarter: (circle one) 2013 1st 2013 2nd 2013 3rd 2013 4th

Grant Program, Number and Title: RCN grant 2012-03 Evaluation of Prevalence of Fungal Dermatitis in New England Timber Rattlesnake Populations

A. Current Quarter Grant Eligible Cost Summary:

	GRANT FUNDS	MATCH*	TOTAL
Personal Service Cost			
Salaries and/or Wages		896.00	896.00
Fringe Benefits		179.00	179.00
Personal Service Indirect Cost___%			
Non-personal Service Cost			
Testing	15,021.00		15,021.00
Equipment			
Supplies & Materials			
Contractual Services			
Building space		1920.00	1920.00
Non-personal Indirect Cost___%			
TOTAL	15,021.00	2995.00	18,016.00

*Match is a requirement of some grant programs; list matching funds if specified in contract.

B. Cumulative Total Grant Eligible Costs Claimed from Beginning of Agreement up-to- and Including Current Quarter:

Total Life-to-Date Expenses	$ 21,825.00
Less Previous Payments Processed	$ 6804.00
Total Amount Due Grantee Now:	$ 15,021.00

C. Personal Services Summary Grantee and 3rd Party Match*:

Date	Name, Affiliation, Title	Rate	Task	Hours	Total Cost
	See attached Detailed Match forms				

*Match is a requirement of some grant programs, document match if specified in contract.

NOTE: This certification must be signed prior to reimbursement of costs unless daily time and activity records summarizing personal services performed in relation to the project for each individual employee are signed by the appropriate supervisor and attached.

CERTIFICATION OF GRANTEE AND 3RD PARTY MATCH

I hereby certify that daily time and activity records for each individual detailing the specific hours devoted solely to this project which are distinguishable from work done on other projects during the same time frame, maintained in accordance with all applicable federal, state and general municipal accounting practices and procedures are available in our files for inspection.

Authorized Representative

Q-4

Volunteer Time & Activity Report
State Wildlife Grants–Roger Williams Park Zoo

Date(s)	Hours Worked (include prep time and other organizational efforts)	Rate	Activity Description (e.g., field survey, medical, monitoring, planning meeting, training)	Totals
12/29/13	5.5	35.00/hr	Data Entry, Collating data for reports	192.50
Totals	5.5	35.00/hr		192.50

Instructions: This record documents the State match required for the federal State Wildlife Grant (SWG) funds used for this project. If federal funds compensate you for your time, or your time is already being used as a federal match for another program, please do NOT complete this form. NOTE: You must record hours worked for each day you worked on the project on each line. **You cannot summarize your hours weekly.** Please return the completed form to the project coordinator:

(Print name) Michael McBride (address) Roger Williams Park Zoo, 1000 Elmwood Ave, Providence, RI, 02907.

Signature of Volunteer: _____ **Signature of Project Leader:** _____

Return to: State Wildlife Grants: Attention: Lou Perrotti Project Leader, Roger Williams Park Zoo 401-785-3510 *FWD ~~Volunteer Form~~ version 4/20/2007*

Q-4

Volunteer Time & Activity Report
State Wildlife Grants–Roger Williams Park Zoo

Date(s)	Hours Worked (include prep time and other organizational efforts)	Rate	Activity Description (e.g., field survey, medical, monitoring, planning meeting, training)	Totals
10/16/13	2.5	35.00/hr	Sample collection	87.50
10/22/13	3.5		Sample collection	122.50
Totals	6.0	35.00/hr		210.00

Instructions: This record documents the State match required for the federal State Wildlife Grant (SWG) funds used for this project. If federal funds compensate you for your time, or your time is already being used as a federal match for another program, please do NOT complete this form. NOTE: You must record hours worked for each day you worked on the project on each line. **You cannot summarize your hours weekly.** Please return the completed form to the project coordinator:

(Print name) Kim Wojick, DVM (address) Roger Williams Park Zoo, 1000 Elmwood Ave, Providence, RI, 02907

Signature of Volunteer: _____ **Signature of Project Leader:** _____

Return to: State Wildlife Grants Attention: Lou Perrotti Project Leader, Roger Williams Park Zoo 401-785-3510 *FWD Volunteer Form-version 4/20/2007*

Q4

Volunteer Time & Activity Report
State Wildlife Grants–Roger Williams Park Zoo

Date(s)	Hours Worked (include prep time and other organizational efforts)	Rate	Activity Description (e.g., field survey, medical, monitoring, planning meeting, training)	Totals
10/16/13	2.5	20.90/hr	Sampling	52.25
10/22/13	3.5		Sampling	73.15
Totals	6.0	20.90/hr		125.40

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(Print name) Abigail Robbins (address) Roger Williams Park Zoo, 1000 Elmwood Ave, Providence, RI, 02907

Signature of Volunteer: _____ **Signature of Project Leader:** _____

Return to: State Wildlife Grants: Attention: Lou Perrotti Project Leader, Roger Williams Park Zoo 401-785-3510 *FWD Volunteer Form version 4/20/2007*

Q4

Volunteer Time & Activity Report
State Wildlife Grants–Roger Williams Park Zoo

Date(s)	Hours Worked (include prep time and other organizational efforts)	Rate	Activity Description (e.g., field survey, medical, monitoring, planning meeting, training)	Totals
10/16/13	2.5	20.90/hr	medical	52.25
10/22/13	3.5		medical	73.15
10/23/13	30m		medical	10 45
Totals	6.5	20.90/hr		135.85

Instructions: This record documents the State match required for the federal State Wildlife Grant (SWG) funds used for this project. If federal funds compensate you for your time, or your time is already being used as a federal match for another program, please do NOT complete this form. NOTE: You must record hours worked for each day you worked on the project on each line. **You cannot summarize your hours weekly.** Please return the completed form to the project coordinator:

(Print name) Bonnie Soule (address) Roger Williams Park Zoo, 1000 Elmwood Ave, Providence, RI, 02907.

Signature of Volunteer: Bonnie Soule **Signature of Project Leader:**

Return to: State Wildlife Grants: Attention: Lou Perrotti Project Leader, Roger Williams Park Zoo 401-785-3510 *FWD Volunteer Form version 4/20/2007*

Volunteer Time & Activity Report
State Wildlife Grants–Roger Williams Park Zoo

Date(s)	Hours Worked (include prep time and other organizational efforts)	Rate	Activity Description (e.g., field survey, monitoring, planning meeting, training)	Totals
10/16/13	2.5	27.31/hr	Sample Collection	68.27
10/22/13	3.5		Sample Collect.	95.58
11/20/13	2.5		Data & Reports	68.27
Totals	8.5	27.31/hr		232.12

Instructions: This record documents the State match required for the federal State Wildlife Grant (SWG) funds used for this project. If federal funds compensate you for your time, or your time is already being used as a federal match for another program, please do NOT complete this form. NOTE: You must record hours worked for each day you worked on the project on each line. **You cannot summarize your hours weekly.** Please return the completed form to the project coordinator:

(Print name) Lou Perrotti (address) 1700 Elmwood Ave Providence RI 02907

Signature of Volunteer: _____ **Signature of Project Leader:** _____

Return to: State Wildlife Grants: Attention: Lou Perrotti Project Leader, Roger Williams Park Zoo 401-785-3510 *FWD Volunteer Form version 4/20/2007*

RI Zoological Society/Roger Williams Park Zoo
Evaluation of Prevalence of Fungal dermatitis in New England Timber Rattlesnakes
Match Expenes
1/1/13-12/31/13

	QTR	Grant to Date
	$	$
Salaries	896	7,821
Fringe Benefits	179	1,564
Building Space	1,920	7,680
Total Match Expenses	2,995	17,065