

EXHIBIT 1

Note 1: Transmitter is a subminiature device, designed to work into high impedance, physically foreshortened ⁴ monopole antennas with essentially no ground plane surface. The transmitter, battery back, and metal container are an integral part of the radiating system. Direct connection is possible only to the principle radiating element. Conventional measurements equating to 50 ohm sources are therefore not possible.

Note 2: This transmitter is a very low power locating device which emits an RF pulse, 30 ms in width, at a rate of 150 pulses per minute.

SEDGWICK COUNTY ZOO

5555 Zoo Boulevard
Wichita, KS 67212

Administration

(316) 942-2212

FAX (316) 942-3781

www.scz.org

Director

Mark C. Reed

Sedgwick County

Zoological Society, Inc.

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ex officio

Exhibit #2



Radiotransmitters (ERP < 100 microwatts) will be implanted in three native bullsnakes (*Pituophis melanoleucus sayi*) captured and re-released on the grounds of the Sedgwick County Zoo. These snakes will be tracked at a minimum of two times a week throughout the study period using a portable microprocessor-controlled receiver. The goals of this project are:

1. to train zoo personnel on the use of equipment that is becoming a common tool for *in situ* conservation projects,
2. to involve students through supervised tracking expeditions, and
3. to log activities of these snakes on our web site.

Furthermore, the data collected on these urbanized snakes will be of interest to the scientific community and the project will be submitted for publication in a refereed journal. The full breadth of the project, covering employee training, community participation, and novel data collection, will be presented at an American Zoo and Aquarium Association (AZA) conference.

Radiotransmitters have been used to track a number of reptile populations (e.g. Eastern Diamondback Rattlesnakes in South Carolina and Blacktailed Rattlesnakes and Gopher Snakes in Arizona, and a species of highly endangered rock iguana in Jamaica.) resulting in a greater understanding of diverse natural history. Urban snakes have generally been overlooked for their more "wild" counterparts. Recently, however, studies have been performed on "city snakes" and members of academic societies have recommended that this information be collected. Through the study of snakes on zoo grounds, we will not only be participating in the collection of scientifically useful data; we will also be sharing a new and interesting use of radio art with our community members.

Submitted by Karen S. Graham,
Curator of Amphibians, Reptiles, and Fishes
316 942-2212 ext. 229



AMERICAN ZOO AND AQUARIUM
ASSOCIATION

The Sedgwick County Zoo is an