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|--------------------------------------|---------------------------|
| Protocol Number: | Date Received (yy-mm-dd): |
| NWT Wildlife Research Permit Number: | |

The handling of animals for research or management purposes is a privilege. Before a protocol to handle animals in a research or management project is approved, the project leader must show that the procedures to which the animals will be submitted will be carried out safely and humanely. Please fill out this form completely, and submit the completed application containing all attachments to:

**NWT Wildlife Care Committee, Wildlife Division, Department of Environment & Natural Resources,
Government of the Northwest Territories,
600, 5102 – 50th Avenue, Yellowknife, NWT X1A 3S8.**

| | | | |
|--------------------------|--------------------|-------------------------|------------------------|
| Project Leader | | | |
| Last Name: | | Given Name(s): | |
| Position or Title: | | Agency or Organization: | |
| Address: | | | |
| Telephone Number: | Fax Number: | Date (yy-mm-dd): | E-mail Address: |

| | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|--|
| Title of Project: | | | | | |
| Project Objectives: | | | | | |
| Project Type: Research Management Other: (If renewal, provide previous protocol number and attach a brief progress report) | | | | | |
| CCAC Category of Invasiveness (Refer to Guidelines attached): | | | | | |
| A | B | C | D | E | |

 $\frac{1}{4}$

II. Project Schedule

Start Date (yy-mm-dd):

Finish Date (yy-mm-dd):

III. Animal Information

Species and Number: Provide details on the species to be handled including total numbers, age/sex classes, and any other criteria to be used for selection of animals to be handled.

Justification of Numbers: Justify the proposed numbers to be used by indicating how the numbers were determined and explaining why these numbers are needed.

Duplication: Does the study or do portions of the study duplicate previous research? If yes, explain why the duplication is necessary. If there is no duplication of previous research, this should be stated.

Permits and Licenses: Identify other licenses or permits required for this project that have been issued or applied for:

IV. Animal Handling Protocol

Animal Handling Protocol: Provide a detailed description of all planned animal handling activities, including purpose and justification of the research. Details should be given as to what will happen to the animal from start to finish, including how animals will be monitored. If animals are to be relocated, identify the strategy and rationale for release site selection. Identify who will perform each procedure, and how they are qualified to do so. Attach additional pages or attach a detailed protocol if necessary. The summary should provide the requested information in lay terms, so that someone who is unfamiliar with your work will be able to appreciate what you do.

Post procedure monitoring: What is the timing, frequency, duration (number of days) and type (specific parameters) of post-procedure monitoring that will be performed on the animals following handling? If post-procedure monitoring is not necessary / applicable, this should be stated and explained as necessary.

Review by other Animal Care Committees

Has the animal handling and care components of this proposal been reviewed by another animal care committee? Yes No
 If so, by whom?

What is the status of this review?

V. ANIMAL CAPTURE AND HANDLING**CAPTURE METHOD:**

Chemical Immobilization Netgun Trapped Other - Specify:

At least one team member has current training wildlife immobilization training? Yes No CPR & First Aid Training? Yes No

CHASE METHOD:

Helicopter Snowmobile All Terrain Vehicle Walking Other - Specify:

Chase Time Limits - Specify: Expected Handling Time per Animal - Specify:

TRAP TYPE:

Barrel Trap Live Trap - Type: Leg Snare Kill Trap Other - Specify:

Trap Monitoring Frequency - Specify: Holding Time in Trap - Specify:

MARKING METHOD:

Tattoo Dye Fur/feather Clip Walking Other - Specify:

DEVICES FIXED TO ANIMAL:

Ear Tag Ear Steamers Leg Band - Type: Radiocollar - Type: Other - Specify:

Weight of Device - Specify: Expected Time Device to be Left on Animal - Specify:

HOW WILL RADIOCOLLARS BE REMOVED? Specify:

SAMPLES:

Blood Fecal Urine Tooth Extracted Hair/Feather Other - Specify:

VI. Drugs and Chemicals

List all drugs and chemicals that may be used. Give dosages, routes of administration, and duration. Name the person(s) who will administer the care.

| Drug | Dosage | Route | Person Responsible |
|------|--------|-------|--------------------|
| | | | |

If unlicensed drugs (eg. Telazol) are to be used as part of this project, please provide information on researcher authorization:

Experimental Studies Certificate or Emergency Drug Release #: Person who the permit is issued to:

What measures will be taken to ensure meat from drugged animals will not enter the human food chain?

VIII. Fate of Animals

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------|------------------|
| FATE OF ANIMALS: | Released at Capture Site | Long Term Captive | Other – Specify: |
| | Transported and Released | Terminated | |
| If euthanasia is planned or becomes necessary during animal handling, describe the method that will be used and how carcasses will be disposed of. | | | |

IX. Dangerous Materials

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|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Will any biohazard agents (chemicals, biologicals, radio-isotopes, infectious agents, radiation / x-rays) be used in the project in vivo? | |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No If 'yes', list the agents: |

Submit your completed form to brett_elkin@gov.nt.ca or fax it to (867) 873-0293. Our mailing address is available on the first page of this form.



Categories of Invasiveness in Animal Experiments

Investigators and teachers who consider it essential to use vertebrates or invertebrates in their research, teaching or testing in the laboratory or in the field, must adhere to humane principles, and take cognizance of the Canadian Council on Animal Care's (CCAC) *policy statement on: ethics of animal investigation* and other CCAC documentation in assigning a category. Protocols must be submitted to an appropriate review committee for all studies and courses which involve the use of vertebrates and some invertebrates in Categories B through E. Cephalopods and some other higher invertebrates have systems as well developed as in some vertebrates, and may therefore warrant inclusion in Category B, C, D, or E.

The following list of categories provides possible examples of experimental procedures which are considered to be representative of each category:

A. Experiments on most invertebrates or on live isolates

Possible examples: the use of tissue culture and tissues obtained at necropsy or from the slaughterhouse; the use of eggs, protozoa or other single-celled organisms; experiments involving containment, incision or other invasive procedures on metazoa.

B. Experiments which cause little or no discomfort or stress

Possible examples: domestic flocks or herds being maintained in simulated or

actual commercial production management systems; the short-term and skillful restraint of animals for purposes of observation or physical examination; blood sampling; injection of material in amounts that will not cause adverse reactions by the following routes: intravenous, subcutaneous, intramuscular, intraperitoneal, or oral, but not intrathoracic or intracardiac (Category C); acute non-survival studies in which the animals are completely anesthetized and do not regain consciousness; approved methods of euthanasia following rapid unconsciousness, such as anesthetic overdose, or decapitation preceded by sedation or light anesthesia; short periods of food and/or water deprivation equivalent to periods of abstinence in nature.

C. Experiments which cause minor stress or pain of short duration

Possible examples: cannulation or catheterization of blood vessels or body cavities under anesthesia; minor surgical procedures under anesthesia, such as biopsies, laparoscopy; short periods of restraint beyond that for simple observation or examination, but consistent with minimal distress; short periods of food and/or water deprivation which exceed periods of abstinence in nature; behavioral experiments on conscious animals that involve short-term, stressful restraint; exposure to non-lethal levels of drugs or chemicals. Such procedures should not cause significant changes in the animal's appearance, in physiological parameters such as respiratory or cardiac rate, or fecal or urinary output, or in social responses.

During or after Category C studies, animals must not show self-mutilation, anorexia, dehydration, hyperactivity, increased recumbency or dormancy, increased vocalization, aggressive defensive behavior or demonstrate social withdrawal and self-isolation.

D. Experiments which cause moderate to severe distress or discomfort

Possible examples: major surgical procedures conducted under general anesthesia, with subsequent recovery; prolonged (several hours or more) periods of physical restraint; induction of behavioral stresses such as maternal deprivation, aggression, predator-prey interactions; procedures which cause severe, persistent or irreversible disruption of sensorimotor organization; the use of Freund's Complete Adjuvant (see CCAC *policy statement on: acceptable immunological procedures*).

Other examples include induction of anatomical and physiological abnormalities that will result in pain or distress; the exposure of an animal to noxious stimuli from which escape is impossible; the production of radiation sickness; exposure to drugs or chemicals at levels that impair physiological systems.

Procedures used in Category D studies should not cause prolonged or severe clinical distress as may be exhibited by a wide range of clinical signs, such as marked abnormalities in behavioral patterns or attitudes, the absence of grooming, dehydration, abnormal vocalization, prolonged anorexia, circulatory collapse, extreme lethargy or disinclination to move, and clinical signs of severe or advanced local or systemic infection, etc.

E. Procedures which cause severe pain near, at, or above the pain tolerance threshold of unanesthetized conscious animals

This Category of Invasiveness is not necessarily confined to surgical procedures, but may include exposure to noxious stimuli or agents whose effects are unknown; exposure to drugs or chemicals at levels that (may) markedly impair physiological systems and which cause death, severe pain, or extreme distress; completely new biomedical experiments which have a high degree of invasiveness, behavioral studies about which the effects of the degree of distress are not known; use of muscle relaxants or paralytic drugs without anesthetics; burn or trauma infliction on unanesthetized animals; a euthanasia method not approved by the CCAC; any procedures (e.g., the injection of noxious agents or the induction of severe stress or shock) that will result in pain which approaches the pain tolerance threshold and cannot be relieved by analgesia (e.g., when toxicity testing and experimentally-induced infectious disease studies have death as the endpoint).

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For more information on these and other policies contact:

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1510-130 Albert Street
Ottawa ON Canada K1P 5G4

Tel.: (613) 238-4031 Fax: (613) 238-2837

E-mail: ccac@ccac.ca

Website: <http://www.ccac.ca>