

Amphibian Monitoring Protocol for Klondike Gold Rush National Historical Park
Standard Operating Procedure (SOP) No. 2
Field Preparation
Version 1.0 (August 2009)

Revision History Log:

Previous Version #	Revision Date	Author	Changes Made	Reasons for Change	New Version #

2.1 Field Gear Preparation

2.1.1 Preparing Instruments and Equipment for the Field

It is essential that all field equipment be assembled, in working order and thoroughly cleaned prior to use in the field. Equipment that has not been cleaned could contain the chytrid fungus, which can be easily spread by stream equipment. At the end of each field season, all field equipment must be rinsed with a 10% bleach solution (9 parts water: 1 part bleach) and stored to allow for complete drying. Equipment should subsequently be treated with a 10% bleach solution following each stream survey, as part of the standard clean-up regime (see SOP No.4: Hygiene Protocol).

2.1.2 Field Equipment and Supplies

Datasheets and maps should be printed on all weather copier paper and carried in a water-resistant clipboard. See SOP No.1: Routine Amphibian Survey for data sheets.

Chytrid sampling equipment, electronics, and other sensitive monitoring equipment is stored in the Resources office in the Mascot building.

All other field equipment is stored in the Mascot garage.

The following equipment and supplies should be taken into the field for each amphibian survey:

- Rubber boots and/or hip waders, multiple pairs for each surveyor
- Passive Integrated Transponder (PIT) tag reader
- Chytrid Sampling Kit: vials with ETOH, cotton swabs, labels, permanent marking pen, hard case for transport
- Pesola scales, 100g and 1000g
- Calipers, Poly Dial 6"/.1mm
- Dipnet
- Thermometer
- Gloves, disposable latex or nitrile, many pairs
- Re-sealable plastic bags, several
- Plastic container with lid
- Bleach

- Bucket, 5-gallon for bleach solution
- Spray bottle, for bleach solution
- Rubbing alcohol, bottle for disinfecting equipment
- Data sheets on clipboard
- PalmPilot, PalmOne Tungsten T5 for data entry, with stylus
- Pencils
- PDA, PalmOne Tungsten T5
- Digital camera
- Batteries, extra for camera
- Lens cloth, for camera and binoculars
- Binoculars
- Handheld Radio
- Bear Spray
- Polarized sunglasses
- Magnifying lense, hand lense, or loupe
- Wristwatch
- Recommended personal equipment: lunch/snacks, water, first aid kit, compass, maps, extra clothing layers, rain gear, sunscreen

2.2 Datasheets

Prior to going out into the field, all previous datasheets should be removed from the field clipboard and cataloged. If needed, additional blank datasheets should be added by copying them onto all-weather copier paper.

If using the Palm Pilot for data entry, confirm that the latest version of the data entry form has been uploaded to the unit. Bring paper datasheets for back-up in case of problems with the Palm Pilot. See SOP No.7: Using Pendragon and PalmPilot

2.3 Personnel Training

Training procedures will be conducted at the beginning of each season's stream surveys. Experienced personnel will train new staff or volunteers in the field (see SOP No. 6: Personnel Requirements and Training).

Biological Science Technicians should familiarize themselves with the appearance, natural history, and habitat requirements of each life cycle stage of known and suspected amphibians in the area. Relevant literature can be found in the amphibian files on the resources network drive:

T:\NRM\Amphibians\Amphibian Literature & Reports & Field Forms and on the bookshelves in the Resources Office. Technicians should also review previous years' summary reports to become familiar with the monitoring sites and existing data.

