

## **EQUIPMENT LIST FOR THE INSPECTION OF MAJOR and/or MINOR TRAIL BRIDGES**

The following equipment list is not intended to be an all inclusive list nor is everything on the list required at each inspection of a log or timber trail bridge. The purpose of this list is to provide a checklist of what may be needed.

### **Safety Equipment:**

- Hard Hat
- Eye Protection (Goggles or Safety Glasses)
- Gloves
- Boots with Ankle Support
- Safety Vest or Orange Surveyors Vest
- Waterless Hand Cleaner and Towels
- Cell Phone or Forest Service Radio
- First Aid Kit (Inc. Snake Bite Kit)
- Snake Chaps (Optional)
- Bear Spray (Optional)
- Insect Repellent (Optional)
- Sun Screen (Optional)
- Rain Gear (Optional)
- Coveralls (Optional)

### **Personal and Record Keeping:**

- Map Showing Bridge Location
- Previous Inspection Reports (Optional)
- Bridge Inspection Forms
- Condition Rating Form
- Field Book (Rite-in-Rain), Pencils, Pocket Template & Straight Edge for Sketching
- Clipboard
- Digital Camera (Extra Batteries and Memory Cards)
- Chalk, Timber Crayons, Felt Tip Markers, Paint Sticks, etc. (Optional)
- Calculator (Optional)

**Survey and Measuring Equipment:**

- Compass or GPS unit
- Clinometer or Carpenters Level or Hand Level & 6.5 Foot Pocket Rod
- 6-Foot Folding Rule w/ Extender
- 25-Foot Steel Measuring Tape
- 100-Foot Cloth Measuring Tape

**Miscellaneous Inspection Equipment:**

- Back Pack or Heavy Canvas Tool Bag to Store and Carry Inspection Equipment
- Boots or Waders for Walking in Streams
- Prospector's Pick or Suitable Hammer for Sounding Members & Checking for Loose Hardware
- Awl or Screw Driver for Probing
- Spot Light for Looking at the Underside of Bridge
- Head Lamp or Flashlight with Extra Batteries
- Walking Stick / Scour Probe (Optional)
- Binoculars (Optional)
- Plumb Bob (Optional)
- Crescent Wrench for Tightening Bolts (Optional)
- Inspection Mirror (Optional)
- Magnifying Glass (Optional)
- Folding Shovel (Optional)

## **ADVANCED EQUIPMENT FOR TRAIL BRIDGE INSPECTION USED BY RO BRIDGE INSPECTORS**

### **Special Equipment Needed on an Occasional Basis:**

- Log Measuring Calipers (Only Need When Initially Measuring Log Diameters)
- Moisture Meter and Probe (Optional)
- Personal Floatation Device May Be Required Around Deep or Fast Moving Streams
- Fall Protection Gear Is Required When Inspecting From The Outside Of Railings Over 6 Feet High
- Boat or Ladder (optional)

### **Coring and Drilling Equipment for Advanced Inspection:**

- Increment Borer (16" Recommended) and Ramrod for Cleaning
- Increment Core Holders (Plastic Card Holds 10 Cores – Scotch Tape to Hold Cores in Place)
- 3/8" Battery Powered / Reversible Electric Drill (12 Volt Minimum – 18 Volt or More Desirable), Extra Battery Packs and Charger
- 3/8" Diameter Ship Augers (8" and 18" lengths)
- Plastic Baggies, Labels/Drafting Tape, Thumb Tacks, Large Plastic Bags to Store Baggies
- Shell Thickness Indicator Rod
- 7/16" Diameter X 2" Long Treated Hardwood Plugs and Epoxy Glue
- Resistograph and Extra Batteries and paper