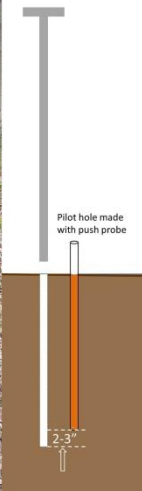
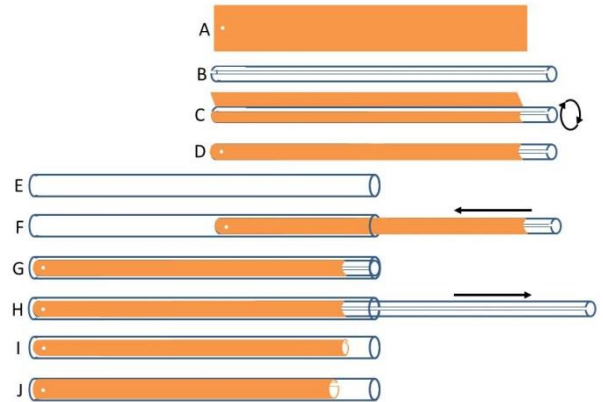


## Quick Instructions for IRIS Film Installation

### 1. Load films into delivery tubes

- This is accomplished by slipping the edge of the film into a  $\frac{3}{4}$ " diameter slotted ("wrapping") tube, wrapping the film around the tube, and sliding the tube and film together into a 1" diameter "delivery" tube.
- The slotted wrapping tube is then extracted, leaving the film inside the delivery tube.
- Note: this step can be done for a large number of films in the office before heading to the field. (See video at this link)  
<https://www.youtube.com/watch?v=LjRB6nN-Sk4>

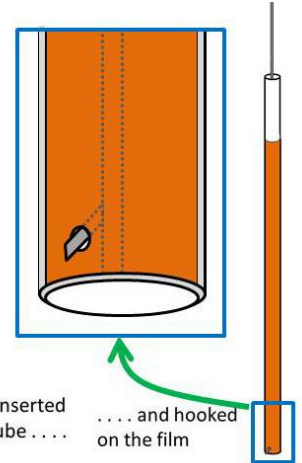


### 2. Prepare 1" diameter pilot hole (left)

- A pilot hole is made in with a 1" OD push probe (Note: It is important to be sure the push probe is 1.0" OD.)
  - The pilot hole should be made at least 2" deeper than the depth to which you are deploying the films (22" to 23" hole for a 20" (50cm) film).
- <https://irisoxides.com/sources-for-1%22soil-probes>

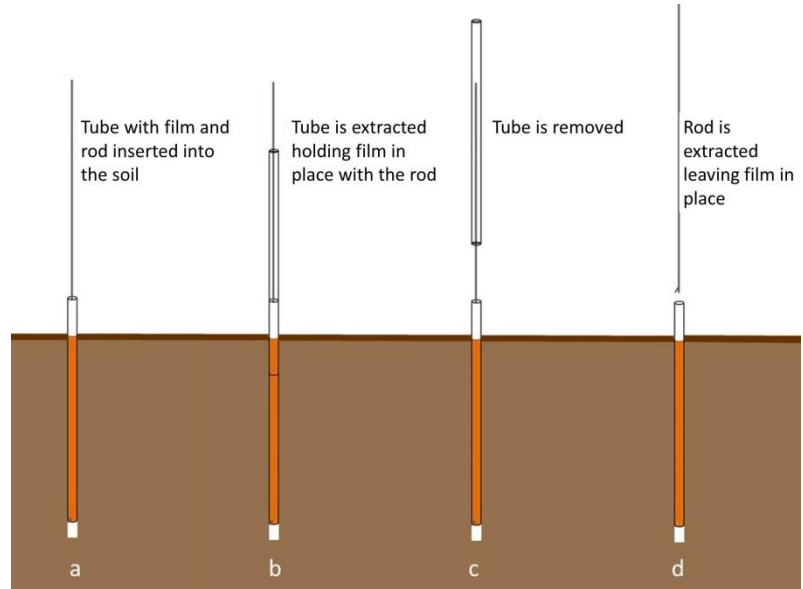
### 3. Fix push rod for installation (right)

- Slide the push rod down the delivery tube and insert the hook into the hole in the IRIS film.
- A small pocket knife or spatula can be helpful in opening a space between the IRIS film and the tube wall, for the push rod hook.



### 4. Insert the Films

- Hold the push rod and delivery tube (containing an IRIS film) firmly together and insert into the pilot hole. **Be careful to keep the push rod hooked through the hole in the IRIS film.**
- Using the rod to hold the film in place, grasp the top of the delivery tube and pull it up, sliding the tube over the film. (Wearing a pair of grip-tight gloves makes this step easier.)
- Continue sliding the delivery tube until it is completely removed from the ground.
- The push rod can then be disengaged from the film and easily removed from the ground.



### 5. Cover with Plastic Capsule

A small plastic capsule cover is placed over the film to help maintain the circular geometry.

**Important Note:** IRIS films should be loaded into delivery tubes on the day on which they are to be deployed. There can be some "memory" in the PVC film so it is inadvisable to store films loaded within delivery tubes for longer periods of time. Also the "memory" is more noticeable when the loaded films are exposed to high temperatures (95°F or more) for several hours. **Once films have been loaded into delivery tubes, they should not be stored in hot places (such as closed automobiles) or left out in direct sunlight for extended periods.**

