

## Appendix D. Proposed filling of concrete culvert at Willow Slough Weir with a concrete plug.

The culvert will be filled using the Tremie Concrete method, in which concrete is placed below water level through a pipe, the lower end of which is kept immersed in fresh concrete so that the rising concrete from the bottom displaces the water without washing out the cement content; the displaced water can be captured and disposed of without contacting the water. This method also eliminates trapped air or voids in the concrete.

1. Have divers plug and tightly seal both ends of the culvert.
2. Excavate an area of 5' x 5' at 5 -10 feet of depth at the middle of the levee crown road, to get to the concrete pipe.
3. Drop a 4' diameter steel or concrete pipe into the hole that will allow a person to work around it.
4. Drill a hole in the concrete culvert big enough to fit a flexible pipe(s).
5. Fill the culvert with concrete mix.
6. Plug the concrete hole and backfill.

