Scope of Work for:
White Lake Wetland Conservation Area
Headquarters Office Pond
Water Suction/Discharge Pump Replace and Install

- All labor and materials to build and install a discharge pump that shall be powered by an electric motor.
- The pump should be capable of being activated automatically or manually.
- The pump shall have a float mechanism installed that shall activate automatically when water levels in the pond reach six (6) inches from the high water line.
- Float mechanism shall deactivate when water levels reach twelve (12) inches from the high water line of the pond.
- The float mechanism switch shall have the capacity of being adjusted to pump up to twelve (12) inches of water out of pond once activated.
- The pump shall also have the capacity of being powered by a Tractor PTO (Tractor Power Take Off) in the event of a power failure.
- The pump shall be capable of pumping a minimum of 1500 gallons per minute.
- The pump depth below the high water line of the pond shall be set at six (6) feet.
- The pump motor shall run on 240V or less of electricity (single phase). The electric company shall provide power to the pump but the Contractor shall provide all other electrical components needed to operate the pump. (Service pole, electrical box, a motor starter with electronic overload, start/stop or hands off auto, etc.).
- A discharge pipe shall discharge the water into an adjacent canal approximately 75 feet away.
- Discharge pipe shall be a minimum schedule 40 plastic pipe. Discharge pipe shall be buried a minimum depth of twelve (12) inches below the existing ground level.
- Discharge pipe shall have a backflow prevention system that shall prevent water in the canal from back flowing into the pond. Discharge pipe shall also be deflected to prevent
erosion of canal bank.

- The bottom of the pump motor and the electrical box shall be set at a minimum of four (4) feet above the existing ground level.
- Guards shall be installed around all belts but shall still allow access to drive shaft.
- The electric motor shall have a protective cover with a minimum of one (1) foot of overhang on all sides.
- Any iron/steel parts shall be painted with two-part marine grade Hempel epoxy or equal.
- The Contractor shall supply pump information, pump motor information and system design drawings with bid.
- The Contractor shall also provide all warranty information.
- The Contractor shall attend a mandatory jobsite visit.