



REPLY TO  
ATTENTION OF

**DEPARTMENT OF THE ARMY**  
FORT WORTH DISTRICT, CORPS OF ENGINEERS  
Belton & Stillhouse Hollow Lake Office  
3740 FM 1670, Belton, Tx 76513

### **Requirements for private water line installation at Belton and Stillhouse Hollow Lakes**

The following paragraphs set forth the U.S. Corps of Engineers' requirements for installation of private water lines and associated electric lines. These requirements apply to new installations and to existing installations at the time of license renewal.

1. Applicant must submit the attached BRA form 19B to the Brazos River Authority for approval to withdraw water from the lake. The Brazos River Authority is the state agency who controls the sell of water and water rights within the Brazos River Basin.
2. A written request for permission to install the water line must be submitted to the Belton and Stillhouse Hollow Lakes Manager. The applicant must provide the following:
  - a. A letter of request to install the system.
  - b. An approved copy of the water withdrawal request (BRA Form 19B).
  - c. A map or drawing showing proposed location of the system.
  - d. A detailed electrical and structural installation plans. Applicants are advised to obtain the services of an experienced electrician.
3. The Corps of Engineers will perform an on-site inspection of the area when the request is received. The inspector will determine the suitability of the area and the desired layout.
4. All systems will be required to meet the following guidelines:
  - a. Pump shall be approved by Underwriters Laboratory, installed in accordance with manufacturer's recommendations, and wired in accordance with all provisions of the latest edition of the National Electrical Code - NFPA 70 (NEC). Wiring methods for wet locations shall be used. Pumps may not be rated at more than 220 volts.
  - b. Pump shall be grounded in accordance with NEC Article 250. Additionally, if pump motor is single-phase type it shall be connected with three-wire drop line: phase, neutral and grounding conductors. If pump motor is three-phase type it shall be connected with five-wire drop line: each phase, neutral and grounding conductors. If motor has no neutral terminal, four-wire drop line of each phase and grounding conductor shall be used.
  - c. Electrical lines must be buried to a depth of 24 inches unless the slope angle exceeds 60 degrees. If rock prevents proper burial, any portion of the line less than 24 inches deep must be placed in rigid metal conduit. Any exposed line must be attached to the bluff. Lines extending over bluffs and into the water must follow the contour of the face of the bluff, and may be placed in flexible metal conduit. Attachments to rock bluffs must be discreet and visually pleasing.
  - d. Water lines must be buried where the slope angle is less than 60 degrees. If the line cannot be buried due to rock or bluffs, it must follow natural contours and be securely attached to the rock in a discreet manner. Any exposed water line must be metal pipes, no plastic or PVC pipe will be allowed.
  - e. The water intake velocity of the pump may not exceed .5 feet per second.

- f. The electrical system will have a cut off switch located on private property above elevation 642 feet msl on Belton Lake and 671 feet msl on Stillhouse Hollow Lake.
  - g. Electrical conduit and water pipes extending below elevation 594 feet msl on Belton Lake (normal lake level) or 622 feet msl on Stillhouse Hollow Lake (normal lake level) may be metal or flexible polyethylene pipe of at least 160 psi rating.
5. After installation is complete, the Corps of Engineers will inspect the area to insure proper installation. If not installed in accordance with approved plans, the permit will be revoked.
  6. Waterline licenses are valid for five years if the installation is properly maintained. Licenses may be renewed if deemed appropriate by the Government and the installation complies with current requirements. A fee will be assessed at the time the license is sent. This fee will be paid to the Fort Worth District Office for the Corps of Engineers.
  7. The Corps of Engineers shoreline management policy requires the protection of desirable landscape features and wildlife habitat. Protection of the scenic quality of steep shorelines and rock bluffs is important and may be sufficient reason to deny or cause the relocation of water line installations. We ask your cooperation in preserving the natural beauty of Belton and Stillhouse Hollow Lake.