

**Standard Manatee Conditions for In-Water Construction Activities/Best Management Practices:**

During in-water work in areas that potentially support manatees all personnel associated with the project should be instructed about the potential presence of manatees, manatee speed zones, and the need to avoid collisions with and injury to manatees. All personnel should be advised that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act of 1972 and the Endangered Species Act of 1973. Additionally, personnel should be instructed not to feed, water, or otherwise interact with the animal, although passively taking pictures or video would be acceptable.

All on-site personnel are responsible for observing water-related activities for the presence of manatee(s). We recommend the following to minimize potential impacts to manatees in areas of their potential presence:

1. Any biological monitors and all construction personnel will review training which includes but is not limited to manatee training materials and videos found at <https://www.youtube.com/watch?v=Xs7zLRtZVOQ> and Manatee and Other Marine Animal Watch Information | FWC(<https://myfwc.com/wildlifehabitats/wildlife/manatee/>)
2. All work, equipment, and vessel operation should cease if a manatee is spotted within a 50-foot radius (buffer zone) of the active work area. Once the manatee has left the buffer zone of its own accord (manatees must not be herded or harassed into leaving), or after 30 minutes have passed without additional sightings work may resume.
3. If a manatee(s) is sighted within 100-feet of the project area, all vessels associated with the project should operate at “no wake/idle” speed within the construction area and at all times while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. Vessels should follow routes of deep water whenever possible.
4. If used, siltation or turbidity barriers should be properly secured, made of material in which manatees cannot become entangled, and be monitored to avoid manatee entrapment or impeding their movement.
5. The permittee understands and agrees that all in-water lines (rope, chain, and cable, including the lines to secure turbidity curtains) must be stiff, taut, and non-looping. Examples of such lines are heavy metal chains or heavy cables that do not readily loop and tangle. Flexible in-water lines, such as nylon rope or any lines that could loop or tangle, must be enclosed in a plastic or rubber sleeve/tube to add rigidity and prevent the line from looping and tangling. In all instances, no excess line is allowed in the water. Where appropriate, in-water wires and cables should be fitted with PVC sleeve from the surface to the bottom to prevent any potential scraping of the passing manatees.
6. Temporary signs concerning manatees should be posted prior to and during all in-water project activities and removed upon completion. Each vessel involved in construction activities should display at the vessel control station or in a prominent location visible to all employees operating the vessel, a temporary sign at least 12" X 15" reading language similar to the following: “CAUTION BOATERS: MANATEE AREA/ IDLE SPEED IS REQUIRED IN CONSTRUCTION AREA AND WHERE THERE IS LESS THAN FOUR FOOT BOTTOM CLEARANCE WHEN MANATEE

IS PRESENT”. A second temporary sign measuring 12 " X 15” should be posted at a location prominently visible to all personnel engaged in water-related activities and should read language similar to the following: “CAUTION: MANATEE AREA, EQUIPMENT MUST BE SHUTDOWN IMMEDIATELY IF A MANATEE COMES WITHIN 50 FEET OF OPERATION”.

7. Collisions with, injury to, or sightings of manatees should be immediately reported to the Texas Marine Mammal Standing Network ((1-800-9MAMMAL) (1-800-962-6625) and the Service’s Texas Coastal and Central Plains Ecological Services Office (361-533-6765). Provide the reason for the call (i.e., report of an incident, manatee sighting, etc.); time of incident/sighting; and the approximate location, including the latitude and longitude coordinates, if possible.