

HydrX™ Fuel Conditioning System

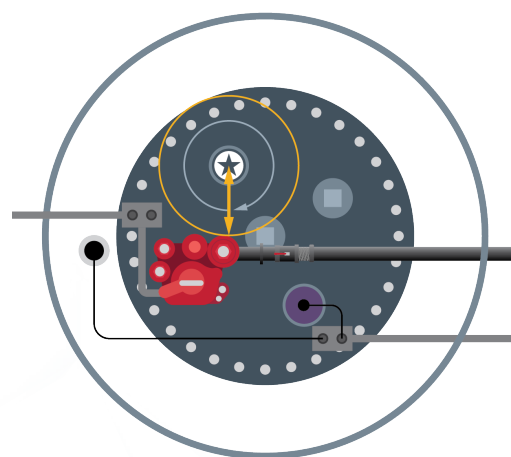
Site Preparation Guide

This guide outlines the optimal sequence of steps required to prepare a site for the installation of a HydrX Fuel Conditioning System.

► PREPARATION REQUIREMENTS

1 Identify the HydrX location within the sump and ensure that space is maintained throughout construction:

- Set the Submersible Turbine Pump (i.e., clock, position) to maximize space inside the sump.
- Route product lines and conduit after the HydrX location is determined and that space is maintained (preferred).
- HydrX requires access to 1 spare 4" bung ⚙. Ensure access to spare bungs are maintained throughout construction.
 - Refer to sump requirements and recommendations within the [HydrX Fuel Conditioning System Submittal Form \(577014-471\)](#).



2 Pull required HydrX wiring to the sump:

- Ensure the junction box is installed in the sump for high voltage wiring.
- Pull AC Power Connections through high voltage conduit in accordance with HydrX system wiring defined in the [HydrX Fuel Conditioning System Installation Manual \(577014-446\)](#).
- Pull low voltage wiring in accordance with HydrX system wiring defined in 577014-446.
- A 1" diameter high voltage conduit is recommended. Not required but consider adding a second high voltage conduit for HydrX when a FE Petro® Variable Frequency Controller is used to avoid any potential signal noise.
- Ensure junction boxes for high voltage and low voltage conduit do not interfere with the HydrX location within the sump.

3 Install indoor wiring in accordance with 577014-446:

- Note:** There are specific instructions for installation with Red Jacket® ISOTROL™ Control Boxes, FE Petro Controllers and Pre-Wired Control Panels.
- If the HydrX system is not on site, the wiring should be capped off inside a junction box or electrical trough.

4 Water Intake Device (WID) inspection:

- The WID is a custom component that is sized to reach the lowest point in the tank.
- Complete the site inspection in accordance with the [HydrX Fuel Conditioning System Site Inspection Guide \(576047-355\)](#) after the concrete has been poured and set on the tank pad.
 - Water or fuel inside the tank is required to complete the inspection to obtain accurate tank tilt measurements.

5 Ordering the WID:

- a. Submit a completed inspection guide to a Veeder-Root distributor for a WID quotation.
- b. Submit order for a WID.

6 Install the HydrX Fuel Conditioning System in accordance with in the [HydrX Fuel Conditioning System Installation Manual \(577014-446\)](#):

- a. The system may be installed prior to receipt of the WID; however, the system will not be pressure-tight until the WID is inserted and connected with the install kit. Keep this in mind if a tank tightness test is required.
- b. Ensure TLS-450PLUS console software is at version 9.R or higher to support HydrX. Remote access to HydrX status is available on software versions 9.Z or higher.
- c. **Note:** A HydrX Software Feature Enhancement, part number 0332972-032, is required.

