

CD225M Dri-Prime Pump and Fused HDPE Pipe for Sewer Line Bypass

Raleigh, NC

Issue

The City of Raleigh, North Carolina found a leak in a 30" sewer line in a local creek under the I-440 Beltway. They called on Xylem for dewatering help and Godwin products.

Xylem's Raleigh branch got the call on Tuesday afternoon, and located all necessary equipment within an hour. Four additional surrounding branches helped to mobilize equipment and were able to deliver pumps and accessories to the site overnight. As soon as trucks arrived, equipment was put to use.

Solution

"The City watched our crew's determination, after being on-site for over 40 hours, as they manually guided the line behind a business and between trees."

Godwin sales and operations teams implemented an emergency bypass with four CD225M pumps and over 3,000 feet of 18" HDPE pipe. The system was up and running by Wednesday evening, just over one day after we received the call.

A fusion crew was deployed in less than 30 minutes, and they began preparing immediately upon arrival on site. The crew worked 48 hours straight to fuse HDPE pipe into place and install the pumps.

The City of Raleigh needed NCDOT approval to run discharge pipe along a bridge to access the City of Raleigh's Greenway Trail. After gaining this approval, discharge pipe was positioned along the trail, due to the tight easement and the existing condition of the failing line.

Said Xylem's Raleigh branch manager, "The City watched our crew's determination, after being on-site for over 40 hours, as they



CUSTOMER: City of Raleigh, NC

ORDER DATE: MARCH 20, 2012

COMPLETION: March 22, 2012

XYLEM'S ROLE: Mobilized fusion crew, all equipment, and provided turnkey installation of complete bypass. Provided 24-hour pump watch for the duration of the project.

XYLEM'S SCOPE:

- Four CD225M pumps
- 3,000 feet of 18" HDPE pipe

manually guided the 18" line behind a business and between trees along a narrow creek bank, using nothing but straps, pry bars, and a forklift for pushing. We ran the discharge line behind the building so the business could remain open during the bypass."

Result

"We were able to work in the physical space available and find a solution that didn't impact the local business."

Godwin provided 24-hour system monitoring and provided fuel throughout the rental. Said Godwin's branch manager, "We are glad we were able to work in the physical space available and find a solution that didn't impact the local business. They were able to remain open through the bypass."



Pumps were placed around an existing siphon box, which was used as a suction point.



To save time, four saddles were mounted to the discharge line for ease of installation and to minimize setup time.



The discharge pipe was designed to flow behind a local business, so we avoided shutting down their only access to their service bays. The pipe was held in place on the steep bank with slings and binders. Trees helped support the weight of the pipe to prevent it sliding toward the creek.