

**Hagensborg Waterworks District**  
**EOM Meeting**  
**MINUTES**  
May 8, 2015

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**Location:** Fire Hall

**Present:** Chris Matthews, Don Mikkelson, Charles Bryfogle, Dianne Tuck

**Absent:** Ken Dunsworth

**Recording Secretary:** Rosemary Smart

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The sole purpose of the meeting was to meet with Jeff Charlton, EMCO Corp, Waterworks Division, Rob Mellander and Jeff Phillips from IPEX to discuss Fusible PVC pipe (Trenchless applications).

Meeting called to order: 2:15 p.m.

Jeff Charlton opened the conversation asking for the current status of the project.

Trustee Mikkelson explained that we are currently exploring costs. Chair Matthews explained we do not have a timeline as of yet. Rosemary proposed a possible timeline may be that we are creating the Asset Mangement Plan this year, with capital funding grants next year, and potential start date in 2 years. Trustee Mikkelson agreed this would possibly be correct if everything fell into place as planned.

Jeff asked what information have the trustees gathered to date? Rosemary stated that the trustees were cc'd on everything she & he had discussed via email and is everything the trustees have to date.

Jeff asked what we wanted to know about the advantages and disadvantages.

Chair Mattnews noted that the advantages are self-explanatory. He asked what are the disadvantages of the fusable pipe?

Rob noted that the disadvantage would be that they would need a fusible machine in place to complete the work rather than having it handled by a crew.

Trustee Mikkelson stated that one of the challenges the district has is in crossing creeks the traditional way that must address armoring and harm-to-fish issues. He understands this is where fusible is an advantage as they can avoid the bureaucracy around fish/water access.

Jeff P. confirmed that is the most common application for fusible pipe. He noted that a geo-technical engineer as one of the first steps to determine soil conditions. There are certain soil conditions that are not recommended for fusible or any pipe. He reminded them that they would still need to open ditches to allow for service connections and hydrants. Rob added this minimizes environmental impact.

Chair Matthews noted that one of the most significant concerns is placing the new service line next to an old service line that is still being used and under pressure and would be vulnerable to rupture.

Jeff P. and Rob concurred.

Chair Matthews added that we also have swampy areas that are expensive to open up because of high levels of ground water.

Trustee Mikkelson asked what length the pipe could be pulled before they need to open an access pit?

One of the IPEX reps noted that it is dependent on soil conditions. They've pulled 24 inch diameter pipe up to a mile. The tensile strength is "incredible". Chair Matthews noted that we would be pulling 8 inch. One of the IPEX reps said it depends on the DR rating of the pipe as they have different pull strengths.

Jeff C. asked how far we are considering pulling?

Chair Matthews explained we are located half way between 10 k of pipe so approximately 5 k in each direction.

IPEX rep asked if we have an engineer we are working with?

Chair Matthews said we would rather not, but we probably will. IPEX reps highly recommended we hire an engineer. They stressed the pipe use is site specific and length of pull will depend on the topography and hydrology.

Chair Matthews noted that we generally have a high water table, and are digging through sandy loam.

IPEX rep emphasized the use of a geo-tech. They offered the name and contact information for a couple of "drillers" to advise us.

Chair Matthews asked if IPEX or EMCO had any recommendations of engineering firms the District can consider?

IPEX recommended Monahan Engineering in Vernon and offered to send contact info.

Chair Matthews asked about a geo tech.

Confirmed that would be forwarded as well.

Jeff C. noted the longer we wait the higher the price.

Jeff C. suggested EMCO and IPEX connect with Rosemary at the BCWWA during their annual event.

IPEX agreed to a meeting.

Trustee Mikkelson asked for a ball park price.

Jeff C. offered to send the price for the pipe to Rosemary. He asked what pressure we are running at?

Chair Matthews noted we run at 100 psi.

Jeff noted we could go to the less expensive DR25 rather than the DR18.

Jeff C. asked if the older pipeline drawings he had been sent were usable.

Rosemary confirmed they were.

Rosemary noted that she still has the photo's of the creek crossing received from Golder Engineering when they crossed Snootli Creek. She could supply those as they would show common soil type at the pipe depth at creek crossings.

Trustee Tuck asked about a guarantee citing the experience in Bella Coola where new pipe was laid and a system installed that failed, and the community is still paying for it.

Jeff P. noted that failures tend to be installation issues rather than product issue. Rob noted that the faulty material is warrantied in perpetuity. Jeff C. said both EMCO and IPEX would stand behind the material indefinitely. The installer would have to provide guarantee of their work against failure resulting from the installation however. Jeff C. noted that in all the years he has been selling pipe there's only been one failure and it was the result of installation.

Trustee Mikkelson asked if the driller would also be responsible for the fusing as well.

Rob noted that both the driller and the installer doing the fusing have to be certified. Sometimes a contractor is certified to do both. It would depend on who the district gets as a contractor.

Chair Matthews noted that while there is a distinct advantage to this type of installation he wondered if the pipe is approved by the Health Authorities.

Rob said it is approved. It is NSF61, equivalent to the C900 pipe.

Jeff C will provide Rosemary with Jeff P. & Rob's contact information for future questions. They expressed appreciation for the meeting. Chair Matthews noted the District's appreciation as well.

MOTION to adjourn at 2:45 p.m.

*Matthews*  
 (Chair)