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COMMERCIAL DIVING • BOAT, BARGE, TUG RENTALS • MARINE CONSTRUCTION & ENGINEERING SERVICES

Ministry of Natural Resources
31 St. Paul Street
Alfred, Ontario
K0B 1A0

Attn. Suzanne Lafrance- OMNR Kemptville District

Re: Hawkesbury CIP Outfall Remediation- Outfall Inspection...

October 24th 2007

- ODS Marine conducted a diving inspection of the outfall pipe
- Retrieved samples at end of outfall as per instructed.
- Utilizing G.P.S. and an underwater video camera to record diver's observations.
- Weather and water conditions
 - Clear and calm
 - Air temp 17 C
 - Water temp 11 C
 - Visibility approx 5ft to 8ft

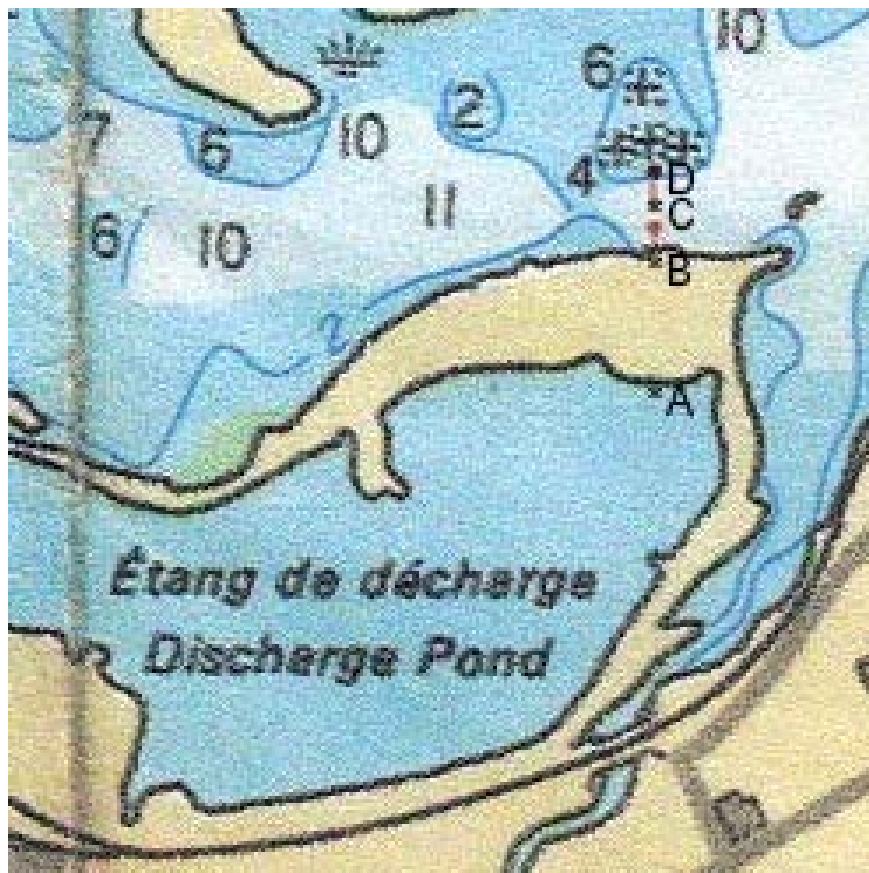


S.S. Clamp at joint in pipe (photo 1)



Broken end of pipe on support (photo 2)

GPS Locations:



Note: GPS Coordinates set in NAD 83

- (A) Inland Outfall Structure.....18T 0530332 UTM 5051112
- (B) Shore.....18T 0530339 UTM 5051166
- (C) Exposed pipe @ joint.....18T 0530336 UTM 5051224
- (D) Broken End of Pipe.....18T 0530391 UTM 5051284

CIP Outfall inspection cont...

Diver's Observations:

- Starting at shore working towards outfall end of pipe divers followed a berm of back fill and found 2 locations where the top of the pipe is exposed.
- The first location was at a joint in the pipe. A stainless steel clamp is visible with a small gap in the pipe where the clamp does not cover. (see photo 1)
- The depth of water to the top of pipe was approx. 12 feet.
- The second location had a very small area of the top of pipe exposed.
 - GPS coordinates 18T 0530375 UTM 5051284
- Diver located end of pipe. A 1m long section of broken pipe on a saddle support is the only evidence of the end of the outfall. Diver could not locate pipe coming out of berm. It would appear the outfall pipe has completely failed. The berm has collapsed and/or covered the pipe completely. Depth of water at this location is approx. 16 ft. The natural bottom consisted of small cobble and sand with the back fill consisting of larger stone. (See Fig. 1)
- Samples were taken in this area as per instructed.

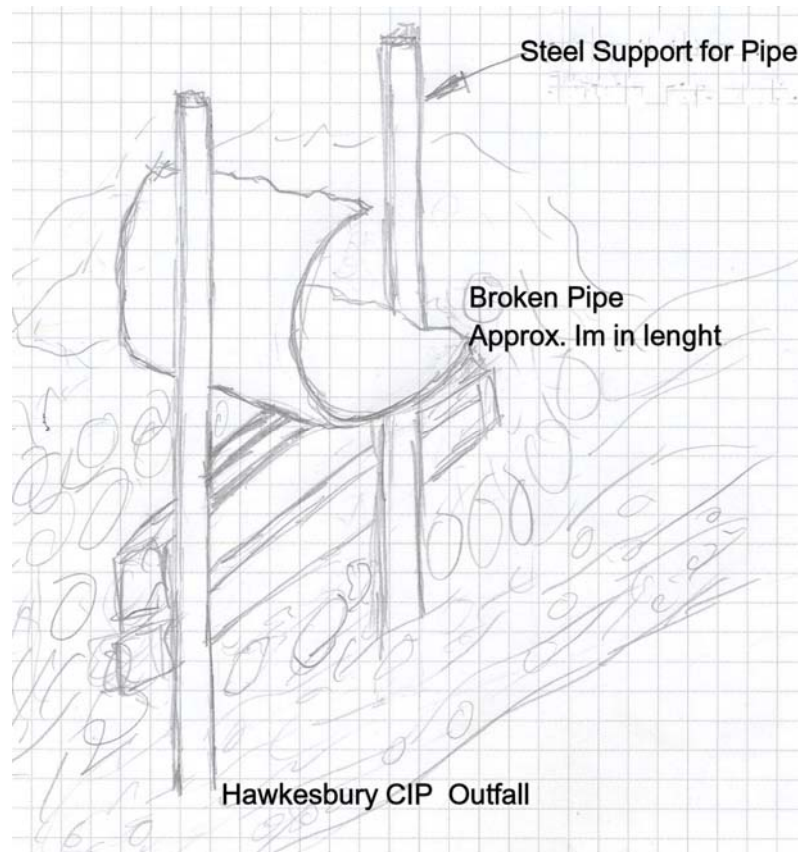


Fig.1

Ken Rule
Operations Manager