

Date 2/7/076

Regular Meeting Boothbay Harbor Sewer District

PRESENT:

Robert Muller

Paul Jarkiewicz

Chris Higgins

Dave Hushes & Brian Cataldo (Wright-Pierce)

Lisa Kristoff (Boothbay Register)

OPEN MEETING: Robert Muller opened meeting at 6:00 PM. Alden Jordan was absent.

EXECUTE WARRANT #1081: After review of warrant 1081 Robert Muller made a motion to accept as presented. Paul Jarkiewicz seconded the motion. Vote to execute warrant 1081 was unanimous.

APPROVE MINUTES OF 1/17/07: After review of the minutes of 1/17/07 Paul Jarkiewicz made motion to accept minutes as presented. Robert Muller seconded the motion. Vote in favor was unanimous.

EXECUTE SLUDGE CARTEL AGREEMENT: After discussion Robert Muller made motion to execute the agreement for services with Wright-Pierce Engineers to coordinate an RFP for sludge disposal. There are seven other towns involved in the RFP. The agreement is for the District's portion of expenses. Paul Jarkiewicz seconded the motion. Vote to execute was unanimous.

EXECUTE LATE LETTERS: Robert Muller reviewed and execute the late letters.

EXECUTE LIEN CERTIFICATES: CUNNINGHAM AND COPLAND: Robert Muller executed the lien certificates.

WRIGHT-PIERCE- SMOKE TESTING RESULTS: Dave Hughes and Brian Cataldo – Wright Pierce engineers presented their findings from the smoke testing that was done in November 2006. Several areas were discussed and recommendations made. See report for full details. Report filed under I & I.



OLD BUSINESS: Chris handed out copies of the audit for 2006 conducted by William Brewer Associates. No concerns were noted in the audit.

The District received an updated copy of the Route 27 extension project, the preliminary report, the environmental report and the funding application for the project.

NEW BUSINESS: Robert Muller announced that he would not be in attendance for the next 3 meetings due to a hospital stay.

CORRESPONDANCE:

Reviewed letter to Wilkerson, Damon and John Anderson-RE: SPO letter Rt. 27.

The Trustees read and discussed Brian Schutrumpf's letter regarding sewer access for West Harbor Pond area. No action was taken. The matter will be discussed at the next full Board meeting.

PUBLIC COMMENT: None

ADJOURN TRUSTEE MEETING: Robert Muller made motion to adjourn meeting. Paul Jarkiewicz seconded the motion. Vote to adjourn was unanimous. Meeting adjourned at 7:30 PM

OPEN PUBLIC HEARING ON NEW SEWER RATES FOR ILLEGAL CONNECTIONS: Robert Muller opened Public Hearing on Sewer rates for illegal connections at 7:35 PM.

Discussion: Robert Muller opened discussion on implementing new rates:

- 1.) Depletion of capacity in collection system.
- 2.) Excessive wear and tear on the pump stations.
- 3.) Excessive maintenance required on collection system/ pump stations.
- 4.) Treatment problems at the Plant associated with high flows.
- 5.)

Discussion on item 1:

Wright Pierce was hired to perform an inflow and infiltration study in March of 2006. The study showed significant areas of inflow and infiltration in the collation system. Video work performed in 2004 showed many house connections that had clear water running from them. Also several sump pumps were seen cycling on and off. Recent smoke testing (November 2006) revealed



several illegal connections to the sewer system. In October 2005, heavy rain resulted in a sanitary sewer overflow at Union Street pump station. In addition, sewerage backed up into the Millinowski residence, causing \$5,000.00 plus dollars worth of damage. This incident was reportable to the Maine DEP. During 1 inch or better storms, the treatment plant sees elevated flows within an hour. The elevated flow stresses the plant's ability to sustain treatment.

Discussion on item 2.

The additional flow causing extended run times resulting in extra power costs and reduces longevity of the pumps. The additional flow causes more grit to enter the system causing premature wear on the pumps internal components. In addition this grit will wear the inside of the force main, reducing the pipe's life.

Discussion on item 3.

Heavy inflow and infiltration causes excessive grit to be introduced into the stations wet wells and collection system piping. Grit settles out in the wet wells causing loss of capacity. This situation also occurs in the collection system piping. The District must hire outside resources to clean the wells and the lines. The District spends \$10,000.00 annually correcting this problem.

Discussion on item 4.

Increased flow from inflow and infiltration has been mentioned. The plant is designed for 640,000 gallons per day on average. Peak flow is rated at 1.2 mgd. The plant has recorded flows as high as 1.8 mgd. This excess flow through problems, solids carry over issues, and increased power and chemical consumption.

Robert Muller asked "How do we quantify an amount to set a rate by?"

Chris replied that a typical average customer's rate is based on 1700 cu ft per quarter. A typical sump pump generates 20 to 30 gpm each time it starts a typical cycle for a pump is 6 starts per hour based on the size of the sump. Potentially a sump pump could generate up to 180 gallons per hour if it starts six times and runs for 1 minute each time. If a pump starts and enough water enters sump pump to keep pump running, then pump can deliver 20-30 gpm continuously. Therefore sump pumps should carry a hefty charge in relation to regular sewer rates and floor drains.

Floor drains will not introduce flow on a continuous basis like a sump pump. Floor drains are only active in the event water is present in a cellar in significant quantity to allow flow to occur. This situation is intermittent.

(3)

Yard drains and roof leaders that are connected to the sewer should be treated the same as sump pumps. These are active when it rains and relieve large areas at once, thus generating a considerable amount of flow.

Dave Hughes of Wright-Pierce Engineers agreed with the summation.

Based on the above, Robert Muller recommended that the rate per quarter for: a sump pump be \$150.00, roof leader \$150.00, yard/perimeter drain \$150.00, floor drain \$55.00. Paul Jarkiewicz agreed based on an average sewer bill for a family of four is \$100.00 per quarter.

Chris reminded the Board that the reason for the new rates was not for revenue, but an incentive for the homeowner to remove the water source from the sewer system. Chris thought the rates were appropriate.

Paul Jarkiewicz asked what the process would be to assess the fees.

Chris recommended that the following be observed:

- 1.) District personnel need to identify the connections.
- 2.) Once identified, the owners will be notified by certified mail of the findings and will be asked to remove the source within 90 days.
- 3.) The fees will be assessed on the date of inspection discovery.
- 4.) The property owner will be notifying District of removal by letter.
- 5.) The District will inspect the removal with 48 hours of notification.
- 6.) Upon satisfactory removal, District will remove fees. The District will forward a letter stating the source was satisfactorily removed as of the date of inspection.

Chris also responded that the above will remove inflow sources only. Infiltration from leaking laterals is another issue. Chris also stated that the District has video footage showing infiltration from service connections to the District's main. Those affected will be sent a letter stating they have a problem and that it needs to be repaired. The District will also ask that the homeowner submit a plan for correction within 90 days of receipt of the certified letter.

Both Trustees agreed that this was a fair process.

Paul Jarkiewicz included that the District and property owner needs to have communication and work with the Public Work Department on disposal of water that may pose a safety issue for the Town.



Chris agreed and said he would follow up with Jody to come up with a proper method and a specification for homeowners to follow.

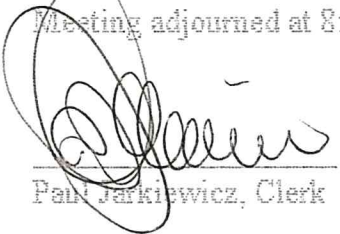
VOTE: After discussion, Paul Jarkiewicz made motion to set rates as follows:

- 1.) \$150.00 per quarter per sump pump
- 2.) \$150.00 per quarter per attached roof leaders
- 3.) \$150.00 per quarter per area/yard drain
- 4.) \$ 55.00 per quarter for each cellar drain

Robert Muller seconded the motion. Vote to set new rates was unanimous.

Paul Jarkiewicz made motion that the District follow the procedures outlined and that a letter be sent to all customers with the next week. Robert Muller seconded the motion. Vote in favor was unanimous.

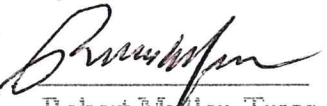
ADJOURN PUBLIC HEARING: Robert Muller made motion to adjourn the Public Hearing. Paul Jarkiewicz seconded the motion. Vote was unanimous.
Meeting adjourned at 8:20 PM.



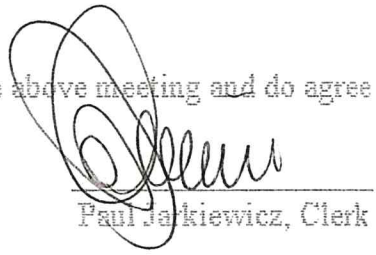
Paul Jarkiewicz, Clerk

We, the undersigned, do hereby waive notice of the above meeting and do agree to the business transacted.

_____ not present _____
Alden Jordan, Chairman



Robert Muller, Treas.



Paul Jarkiewicz, Clerk