

LIONS BAY INFRASTRUCTURE COMMITTEE MEETING  
MONDAY JANUARY 22<sup>nd</sup> 2018 AT 7:00 PM  
COUNCIL CHAMBERS, 400 CENTER ROAD, LIONS BAY  
DRAFT  
MINUTES OF THE MEETING

In Attendance:

Karl Buhr – Mayor  
Fred Bain – Councillor and Committee Chair  
Jim Mutrie – Resident  
Tony Greville – Resident  
Naizam Jaffer – Public Works Manager  
Norm Barneir - Councillor

Regrets:

Brian Ulrich – Resident

**1. Call to Order**

Meeting was called to order at 1904hrs.

**2. Appointment of Recorder**

Fred Bain and Nai Jaffer were appointed co-recorders

**3. Public Participation**

No Public Questions or comments

**4. Approval of the Agenda**

Additions to the Agenda:

- 8b Leak rate drawdown test
- 8c Need for \$30,000 generator for the municipal hall

Agenda approved as modified

**5. Approval of the Minutes of November 27<sup>th</sup>, 2017**

Approved as circulated

**6. Business Arising from the Minutes**

- Action Item: Tony to investigate flow needs
  - Tony sent backflush flow rates to Nai. Suggests the need of 1500 gpm for flushing the infiltration gallery
  - Nai will have Public Works staff backflush the infiltration gallery with water instead of compressed air and then report back to the committee.

- Action Item: Tony to contact Boydel
  - Tony did so
- Boydel approached Peter with a similar proposal, this time with a with a grant opportunity to assist with the overall costs
  - consensus that we do not have enough information about future needs of the municipality to recommend proceeding at this time. Nai will ask Peter to respond to Boydel.

## 7. Unfinished Business

- a. Water Storage Facility Replacement, et al
  - Nai reported on the progress of the tender in light of the grant funding extension to 2019-03-31
    - Staff are preparing a revised RFP and anticipate larger firms may be able to respond due to a less confined time-line for the project
    - optional items benefits were discussed
      - of the three optional items (Alberta Creek Bridge, Bayview Watermain Upsizing, and Mountain Drive Control Valve), only the Mountain Drive Control Valve will be designed and included in the tender package. The first two optional items are quite costly and it is unlikely that we'll have the funding to complete these as part of this project.
    - Discussion about the need to increase fire flow capacity for the school
      - the installation of the Mountain Drive Control Valve will improve the fire flow to the school. The Bayview Watermain Upgrade is to be our next grant funded project request. This will further improve the fire flow capacity at the school.
  - The Bayview Watermain Upgrade will form the next grant request.
    - A RFP / Tender for the design of this watermain will likely be out by the 2<sup>nd</sup> week of February depending upon the budget process.
      - Design of this will likely go to ISL as they already have ½ the project designed (Mid-Bayview Drainage and Road Improvement Project).
  - Given the new project timelines it is anticipated that the Harvey Tank will be constructed first and that the replacement should be completed by July 1st.
    - Staff are working with AECOM to review reserves and fire flows with the absence of Harvey Tank
    - Staff are working with AECOM and Vancouver Coastal Health to recommission Oceanview tank during the Harvey Creek Tank construction. This is to provide disinfection contact time (15 min.) for potable water prior to being distributed through the watermain network. AECOM is preparing a water conservation plan as required by the Clean Water and Wastewater Fund Grant Requirements: This will be brought to the IC for review as will a "conservation level triggers" memo which will define the rationale for switching between conservation levels.

- b. Bayview Road Drainage and Roadway Improvement Project
  - CWWF Phase II may be out by March
  - Drainage and cambering engineering is done
  - Watermain needs to be upgraded in order to provide improved fire flow to the school. Engineering will be completed by ISL this year. total cost is estimated to be above 1.2 million based upon CWWF Phase I requirements this project would qualify. Phase II requirements have yet to be published
- c. Magnesia and Harvey Condition
  - Harvey
    - Working very well – self scouring
    - Presently a landslide is blocking access to the intake. Staff estimate it will take a few days to clear once rainfall levels enable access to the site.
    - The 2018 budget includes funding for rock scaling
  - Magnesia
    - The infiltration gallery has plugged 5 times since last meeting each blockage takes upwards of 6 hours to clear using compressed air
    - we cannot afford to have Magnesia offline while the Harvey tank is being replaced
    - Staff are considering IC's suggestion of using the municipality's water tanks as a source of water for hydraulic flushing the gallery
      - an estimate of 1500 gpm suggests this could be a viable option or alternative
      - looking into the availability of one of our fire apparatus to do the job
      - IC suggest that a bypass line, such as was used by North Construction during the installation of the gallery, could be used to fill the smaller tanks for the supply of water to do the flushing
    - Alternatives to the infiltration gallery were briefly discussed
      - Staff will try the hydraulic flushing and contact CREUS with the result. Staff will then report back to the IC
- d. UBC Water Hydrology Study
  - No change at this time
    - UBC queried methods of publicity
    - Karl to contact UBC for progress

## **8. New Business**

- a. Highway Tank Memorial Project
  - Tony gave an overview of the Memorial project so far – has just begun
  - Discussion around making the above ground area above the anticipated buried Highway tank a memorial.

- The top of the tank will be visible as will an inspection hatch
  - Budgeted lighting may be available
  - Street light banners could be changed according to the events
  - Nai will check with AECOM to get a site plan of the tank project for the Memorial Committee to use for initial design considerations.
- b. Leakdown test
- Not on Work's priority list at this time – the activity is labour intensive and results in significant overtime costs Discussion about using Flowworks to determine the leakage rate
    - Staff will discuss with AECOM and KWL to see if this easily accomplished Public Works completes leak tests about twice a year:
    - 3 known to exist at this time
  - Suggestion was made that we wait until we have flow meters
  - Higher watermain pressures leads to higher system wide leakage rates
  - No leak down test to be done at this time. Nai will discuss with AECOM and KWL and report back to the IC
- c. Need for a \$30,000 generator for the municipal offices
- Nai to find documents re: Klatt building generator. It was noted that the Klatt generator is 3 phase while the office and Broughton Hall are both single phase
  - Nai to get answers for Building Inspector Dave Butler re: using Genset from Klatt to power the municipal buildings on a different lot

## **9. Public Questions and Comments**

None

## **10. Next Meeting**

February 26<sup>th</sup>, 2018

## **11. Adjournment**