



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY

**INFRASTRUCTURE COMMITTEE MEETING
OF THE VILLAGE OF LIONS BAY
HELD ON THURSDAY, JUNE 18, 2020 at 7:00 PM
COUNCIL CHAMBERS, 400 CENTRE ROAD, LIONS BAY
AND ELECTRONICALLY VIA ZOOM**

Please register in advance for this meeting:

<https://us02web.zoom.us/meeting/register/tZArceGpgj0vHdGUdFrdZisGEqBcooZ0uW9>

Once registered, to access the meeting by Computer, Tablet, or Mobile Device,
click the following link: <https://us02web.zoom.us/j/84668146575>

(When prompted, please download Zoom to your device
prior to the meeting if you don't already have the program).

You can also phone in from your landline phone or mobile phone by
dialing 1-778-907-2071 and entering the Conference ID: 846 6814 6575

AGENDA

- 1. Call to Order**
- 2. Appointment of Recorder**
- 3. Approval of the Agenda**
- 4. Public Questions & Comments**
- 5. Approval of Minutes**
 - A. Infrastructure Committee Meeting – May 21, 2020 (Page 3)
- 6. Business Arising from the Minutes**
- 7. Unfinished Business**
 - A. Electric Vehicle Charging Station
 - B. Kelvin Grove WWTP
 - C. Thoughts about communications solutions for our infrastructure
- 8. New Business**

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- 9. Public Questions & Comments**
- 10. Next Meeting:** September 17, 2020
- 11. Adjournment**

LIONS BAY INFRASTRUCTURE COMMITTEE MEETING
THURSDAY, MAY 21, 2020 AT 7:00 PM
COUNCIL CHAMBERS, 400 CENTER ROAD, LIONS BAY

MINUTES OF THE MEETING

In Attendance:

Committee: Fred Bain – Councillor and Committee Chair
Ron McLaughlin - Mayor
Norm Barmeier - Councillor
Neville Abbott – Councillor
Tony Greville – Resident
Karl Buhr – Resident
Brian Ulrich – Resident

Staff: Naizam Jaffer – Public Works Manager
Peter DeJong - CAO

1. Call to Order

Meeting was called to order at 7:05 pm.

2. Appointment of Recorder

Peter DeJong was appointed Recorder.

3. Approval of the Agenda

The Agenda was approved with the addition of Item 8Aiv: Connecting with Residents and Businesses.

4. Public Questions & Comments

None

5. Approval of the Minutes

The January 23, 2020 IC meeting minutes were approved with the addition of the word “resident” in respect of the non-elected members attending.

6. Business Arising from the Minutes

In respect of Item 7(a), Norm noted that the design had been fleshed out a bit but difficult to flesh out the business case because it’s proprietary.

In respect of Item 7(f), Nai noted that the rough cost estimate for options to control pH and alkalinity of Lions Bay’s water was about \$500K and that Vancouver Coastal Health were reviewing their stance on corrosion and would be publishing their recommendations in due course.

7. Unfinished Business

A. Electric Vehicle Charging Station

Norm presented design materials regarding the site which are intended to show grant reviewers that we have considered key aspects of the application.

- There was a comment regarding the number of parking spaces, with the idea being to preserve 2 non-EV spots for neighbours and others who currently park there.
- While the charging station can charge a vehicle on either side of it, it is only capable of charging one vehicle at a time
- Should show potential to expand and could talk to vendors about an additional charging port (need both types of ports for each location)
- Slope of location will need to be addressed in final design for retaining structures etc.
- Grant for up to 75% (50% federal and 25% provincial - deadline July 23 with 6 month period to evaluate and decide if prepared to proceed
- Costs to get fully operational are likely going to be about \$100K
- There was a request for technical feedback and a suggestion that the adjacent neighbour be consulted (as well as the community)

B. PRV Stations

Nai advised that ISL is extracting the PRV information from the AECOM drawings to prepare for the RFP. Tree cutting work was being quoted for one of the sites.

- It was suggested that there be some neighbour consultation due to the appearance of the box housings.

C. WWTP

Nai provided an update on the project.

- The temporary plant is hooked up and bacterial growth is underway
- Both the temp and the old plant are working in series right now with the old one to be decommissioned in about 3 weeks (concrete box to be retained)
- Contractor operating both plants – Public Works just doing testing
- Expecting completion late Aug. or early Sept.
- New plant is currently under construction – will have much more capacity than the old one (but not with the stainless steel components due to availability and expense)
- There will be a generator and SCADA for the new plant

8. New Business

A. Strategies for securing communication with/for:

- i. Water intakes
- ii. University of British Columbia Hydrology Study
- iii. Lions Bay Search and Rescue
- iv. Connecting with Residents and Businesses

Chair Bain provided the following introductory comments:

The purpose of this part of the meeting is to explore, and pool insights into finding alternate means of communicating with our infrastructure, UBC's Hydrology study and the communications functionality of our emergency services.

As Council has not approved the cell tower proposal for a number of reasons; we are left with an important piece of our infrastructure missing, or at least, not as good as it could be. That is the electronic communication piece which would address:

- The water Treatment facilities and the PVRs is for staff safety and efficiency in monitoring them. This should provide cost savings as well.
- We have made a commitment to support the ongoing Hydrology Study being done by UBC. This is a long term commitment that may have struggles without remote connectivity.
- Communications for the emergency services in remote locations. (i.e. Cell coverage)

We are not presuming any outcomes tonight.

- We want ideas from “brain-storming” that may give us some direction to what we could do and look into further.
- We may also find that we have connections to others that may prove to be a step in a positive direction. The example of Jim and his connection to the Engineering Department at UBC grew into the Hydrology study.
- Nai referred to his discussions with Dr. Steven Weijs who had based his equipment grant upon the LoRaWAN system with a gateway on the cell tower to shoot to UBC
 - Now facing a higher cost for cellular modem system (with likely poor reception) or the use of multiple gateways acting as repeaters and then shooting to Bowen
 - Either option increases the cost of transmission of the data and will result in diminished funds to purchase data collection equipment thereby impacting the breadth of the study.
 - Dr. Weijs is reviewing other options, if there are any, but will likely have to get by with less data collection equipment and slower/less/poorer quality data collection
 - Village was committed to \$2K per year (in cash or in kind, plus the expectation of cell tower availability).
- A debate ensued regarding the cell tower vote at Council and the roles played by IC Council members
 - A question was asked as to whether or not the cell tower is dead
 - A suggestion was made that the consultation was lacking and that we should preview what we really need and what the options are to achieve it
 - Nai referenced the AECOM report which laid out the options and the costs associated with various communication methods – he then outlined the monthly costs of cellular modems for SCADA in relation to land lines (TELUS) and a LoRaWAN type system.
 - A suggestion was made that everything is now going to cost a lot more and without any revenue that would've been provided with the cell tower
 - A suggestion was made that the biggest impact was aesthetic (rather than health, although there were undoubtedly several people who were genuinely concerned about purported health issues
 - A suggestion was made that the presentation to the community was poor and that the IC should've been more involved to present the technical rationale

- The consensus was that revisiting the cell tower proposal could not happen for a while.
- A question was asked about SCADA options and Nai reiterated the 3 basic options that were laid out in the AECOM report
 - There was a discussion re. hardwire connections and costs and an observation that this option is not available in some locations (eg: watershed and intake) and that cellular modem technology had limitations due to poor signal/coverage area.
 - **ACTION: Nai to circulate AECOM report.**
- A suggestion was made about getting a video made of the tower from various locations.
 - It was reiterated that we need to give it a rest
 - It was suggested that if anyone wanted to work on a technical presentation of the original goals and objectives of the various communications needs and the challenges associated with the limited options, there's nothing to stop them but Council is not requesting it at this time.
- **ACTION: Nai to ask Victor Wong to come to an IC meeting to discuss communication options**

9. Public Questions and Comments

None

10. Next Meeting Date

The next meeting will be Thursday, June 18, 2020 at 7 pm.

11. Adjournment

The meeting was adjourned at 9:38 pm.