



Date: August 29, 2000

TO: Board Members - Parks and Recreation
FROM: General Manager - Parks and Recreation
SUBJECT: STATUS REPORT - WATER QUALITY IN STANLEY PARK

RECOMMENDATION

THAT the Board receive this report for information.

BACKGROUND

On August 1st, fecal coliform contamination of the water supply at the Second Beach testing station was reported to the Park Board staff.

The subsequent activity was documented and sent to the Commissioners in a joint report from the General Managers of Engineering and Parks.

DISCUSSION

The report contained a number of recommendations for remedial and long term changes to the Stanley Park water system. This report outlines the status of these recommendations.

1. Construction Practices

All potable water work performed by contractors will have full time inspection by a Waterworks staff member.

2. A leak detection survey will be undertaken with Waterworks this fall.

3. Sewer force mains in the park will be tested this winter.

4. Known water services off park mains have been isolated and capped. Where back flow preventers have been confirmed, the service has been reinstated. Nine new preventers have been installed, primarily on underground irrigation systems. Approximately six more installations will occur this autumn.

All hose bibs which are not being removed have had back flow preventers installed.

5. Plan searches and on site checking will proceed this autumn to confirm our data base for the park system.
6. Waterworks is currently undertaking a computer modelling exercise for the park water system to deal with flow rates, pressure, and chlorine levels. This will provide data for the creation of a regular flushing program as well as long term design changes to the system.
7. The contamination sampling at 14 sites is still being pursued on a weekly basis.
8. Chlorine monitoring is occurring on four sites on a twice daily basis. This will be reduced to weekly checks after Sept. 8.

The current operating situation is as follows:

- All hydrants have been closed and flushing has been discontinued.
- To improve flows in the perimeter lines on west Park Drive, the fire line with hydrants 46/47/48 lying between Park Drive West and the Causeway has been valved off. The valve on North Lagoon Drive has been 3/4's closed. (Plan attached.)
- The three inch feed to Lost Lagoon is open and running and drinking fountains are on full time to keep up flow rates.

This operating condition will continue until the modelling is completed and a medium/long term plan established.

CONCLUSION

No fecal coliforms have been detected in the system since August 1st. While some mid term improvements to the existing system will improve flow rates and chlorination levels, a long term plan will be required to progressively replace this 70 year old system. Staff will come forward with a draft report on this matter within the next year.

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Attachment