



REGIONAL DISTRICT OF NORTH OKANAGAN

MINUTES of a **SPECIAL** meeting of the **GREATER VERNON ADVISORY COMMITTEE** held in the Board Room at the Regional District Office on Thursday, March 22, 2012

Members:	Director M. Macnabb Director R. Sawatzky Alt. Director B. Spiers Alt. Director C. Lord Councillor G. Kiss Director B. Fleming T. Osborn	Electoral Area "C": (Chair) City of Vernon City of Vernon City of Vernon District of Coldstream Electoral Area "B" Agricultural Representative
Staff:	D. McTaggart A. Cotsworth R. Pleasance R. Clark P. Juniper	General Manager Engineering Utilities Manager Project Engineer Water Quality Manager Executive Assistant (taking minutes)
Also Present:	Councillor P. McClean Councillor M. Besso J. Kidston T. Ouchi Director J. Cunningham Councillor R. Enns Director K. Acton M. Stamhuis M. Bailey K. Wahlstrom B. Marshall E. Stranks	District of Coldstream District of Coldstream Alt. Agricultural Representative Alt. Agricultural Representative City of Vernon District of Coldstream Village of Lumby Administrator, District of Coldstream Acting Administrator, City of Vernon Water Manager, City of Vernon Environmental Planner, City of Vernon Manager, Engineering Development Services, City of Vernon
Consultants:	J. Van Andel R. MacLean Media and public	AECOM Associated Engineering

CALL MEETING TO ORDER

The Chair called the meeting to order at 9:00 a.m.

APPROVAL OF AGENDA

Moved and seconded by Directors Fleming and Sawatzky
That the Agenda of the March 22, 2012 Greater Vernon Advisory Committee – Special Meeting be approved as presented.

CARRIED

UNFINISHED BUSINESS

Master Water Plan, Water Rate Setting

The Chair advised that the March 22, 2012 meeting would provide an update of the work done to date on the Master Water Plan Update 2012 and information to provide informed discussion on Agricultural Water Separation.

The Project Engineer introduced 2 members of the consultant team for the Master Water Plan Update 2012; Mr. Rod MacLean, P.Eng. with Associated Engineering and Mr. John Van Andel, P.Eng. with AECOM.

Mr. Van Andel advised that four technical papers have been drafted to date and reviewed with the Technical Advisory Committee (TAC):

- Evaluation of Water Supply Sources
- Growth and Domestic Water Demand Forecast
- Independent Agricultural System – Initial Review
- Guiding Principles for GVVU Water Rate Setting and Cost Allocation.

Mr. MacLean presented a Powerpoint to the Committee entitled Agricultural System Separation – Analysis of Options. The following was presented:

2. Water supply definitions
 - Potable water
 - Raw water
 - Reclaimed water
3. Description of the water system
 - Review of the irrigation and distribution pipes including tanks, pressure reducing valves, pump stations and reservoirs
4. Review of assumptions to estimate cost of agricultural system separation including
 - Unit costs for:
 - Pipeline replacement / system assets
 - Pump stations
 - Reservoirs
 - Balancing reservoirs
 - Others such as small structures, service connections, engineering and environmental
5. Water Consumption
 - Duteau Creek Water Treatment Plant (DCWTP) has current capacity of 160 ML/day
 - Noted that DCWTP was designed under the assumption of a separated system for agricultural and domestic
 - Noted that exceeding this demand requires additional raw water to be injected into the system which leads to water quality advisories
 - Other small water licenses could provide Greater Vernon Water with irrigation capacity for over 600 hectares.
6. Review of flow records
7. Capital works required to completely separate the system
8. Separation of Lavington area would reduce flow through DCWTP by approximately 87 ML/d at a cost of approximately \$27.6 million. Some of these works are planned to start this year.
9. Options:

- o To inject water into the system
- o Reclaimed water from the City of Vernon Wastewater Treatment Plant
- o Goose Lake storage – fed from BX Creek
- o Swan Lake (fed from BX Creek)
- o Okanagan Lake
- o Other small systems

Noted that there is a shortage of fish flow on Kalamalka Lake and that any water diverted into Kalamalka Lake would then be regulated by the Province and may be utilized by Department of Fisheries and Oceans and may not be available to GVWU.

Concluded:

- Major raw water supplies are limited to Duteau Creek and Kalamalka Lake
- Minor raw water supplies potentially from:
 - o City of Vernon – Reclaimed water
 - o B.X. Creek (existing licenses)
 - o Lavington supplies (King Edward Lake, Wells, Coldstream Creek)
 - o Future expansion of water supply for Okanagan Lake is feasible from a water licensing perspective
- Capital plan should be updated regularly, at a minimum of every 3 years with a 20 year horizon
- Capital works costs will increase for diminishing returns / benefits
- Performing total system separation may not be economically feasible or cost efficient
- Policy direction required regarding agricultural system separation, full separation or some type of hybrid model that is more cost efficient

Discussion ensued regarding an analysis of the recommended amount of separation that would provide the most benefit with the least cost. The consultant team was tasked with examining and reporting back on the most cost effective system.

It was noted that Councillor Kiss would meet with the consultants to provide them with his recommendations regarding the Master Water Plan Update and that the consultant team would analyze his recommendations and present a summary at the following meeting.

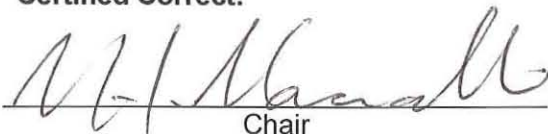
Committee members were advised that any comments they wished to be addressed by the consultant team be directed through Rod Pleasance, Project Engineer, RDNO.

Next special meeting scheduled for April 19, 2012, 9:00 a.m. to provide opportunity for presentation and discussion of financial options for agricultural separation.

ADJOURNMENT

There being no further business, the meeting was adjourned at 11:04 a.m.

Certified Correct:


Chair


Corporate Officer