

CANCELLED

AGENDA

REGULAR COMMITTEE OF THE WHOLE MEETING
SHAW AUDITORIUM, 80 COMMERCIAL STREET, NANAIMO, BC
MONDAY, 2015-JAN-26, AT 4:30 P.M.

1. **CALL THE REGULAR COMMITTEE OF THE WHOLE MEETING TO ORDER:**

2. **INTRODUCTION OF LATE ITEMS:**

3. **ADOPTION OF AGENDA:**

4. **ADOPTION OF MINUTES:**

- (a) Minutes of the Special Committee of the Whole Meeting held in the Board Room, Service and Resource Centre, 411 Dunsmuir Street, on Thursday, 2015-JAN-08 at 9:00 a.m. *Pg. 6-7*
- (b) Minutes of the Regular Committee of the Whole Meeting held in the Shaw Auditorium, 80 Commercial Street, on Monday, 2015-JAN-12 at 4:30 p.m. *Pg. 8-12*
- (c) Minutes of the Special Committee of the Whole Meeting held in the Board Room, Service and Resource Centre, 411 Dunsmuir Street, on Thursday, 2015-JAN-15 at 9:00 a.m. *Pg. 13-15*

5. **PRESENTATIONS:**

NONE

6. **ADMINISTRATION:**

NONE

7. **CORPORATE SERVICES:**

(a) **Meeting Dates and Agenda Circulation Times**

Purpose: To provide options to implement changes to Council and Committee of the Whole meeting dates and agenda circulation times as directed by Council.

Staff Recommendation:

1. That Council direct Staff to prepare an amendment to “Council Procedure Bylaw 2007 No. 7060” by:Pg. 16-20
 - (a) changing Council meeting days to the 1st and 3rd Thursday of each month;
 - (b) changing Committee of the Whole meeting days to the 2nd and 4th Thursday of each month;
 - (c) changing Public Hearings to the 1st available Monday of each month;
 - (d) finalizing and publishing the draft agenda by 1:00 pm on Fridays, 6 days prior to the meeting;
 - (e) setting a delegation submission and late item deadline of 11:00 am on Tuesday, 2 days prior to the meeting; and,
 - (f) finalizing and publishing the amended draft agenda by 4:00 pm Tuesday, 2 days prior to the meeting.
2. That Council provide direction to Staff regarding changes to the location and time of Committee of the Whole meetings. *(Please refer to City Manager’s recommendation at end of report.)*

8. **COMMUNITY SERVICES:**

(a) **Colliery Dams Update**

Mr. T. Seward, Director of Social and Protective Services, to introduce the Colliery Dams Update report and provide a presentation.

Purpose: This report outlines the current status of the proposed remediation of Colliery Dams, provides an update on the recent analysis that Golder Associates undertook to review water distribution, spillway capacity and an alternate swale/drainage course, and provides a summary of the remediation options available for Colliery Dams.

Staff Recommendation: That Council direct Staff to:

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1. pursue the alternate drainage course/swale to remediate the Lower Colliery Dam, through the following steps:
 - (a) retain Golder Associates to prepare a detailed design and cost estimate for an alternate drainage course/swale that would provide a backup spillway from the Lower Colliery Dam reservoir to the adjacent Harewood Creek;

- (b) approve \$250,000 from the General Capital Reserve to fund detailed design in 2015 and amend the 2014 – 2018 Financial Plan to include this expenditure and funding;
 - (c) review design, construction and routing with Dam Safety Section, Snuneymuxw First Nation, Colliery Dam Park Preservation Society and permitting agencies; and,
 - (d) return to Council once design/estimate is complete to seek approval on funding options and to proceed with tendering, and construction of the drainage course/swale; or
2. provide alternate direction regarding remediation of the Colliery Dams.

(b) **Animal Control – Standards and Care of Dogs**

To be introduced by Mr. T. Seward, Director of Social and Protective Services.

Purpose: To provide information on expanding the Animal Control Bylaw to include sections on the welfare of dogs.

Delegation:

1. Mr. Leon Davis

Staff Recommendation: That Council direct Staff to:

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1. prepare guidelines for dog owners that encourage responsible pet ownership; and,
2. continue with current bylaw requirements regarding dogs and address this issue as part of an upcoming Core Review.

(c) **Animal Control – Cat Regulations**

Purpose: To provide information on expanding the Animal Control Bylaw to include sections on the licensing and regulation of cats.

Delegation:

1. Ms. Darragh Worledge
2. Mr. Leon Davis
3. Ms. Kathi Baart

Staff Recommendation: That Council direct Staff to make no amendments to the Animal Control and Regulation Bylaw regarding cats.

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(d) **Hospital Area Transportation and Utility Replacement Tender**

Purpose: To advise Council of a public tender call of \$250,000 and above in accordance with the City's Purchasing Policy.

Staff Recommendation: That Council receive for information the report regarding the Hospital Area Transportation and Utility Replacement Tender.

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9. **CORRESPONDENCE (not related to a Report to Council):**

NONE

10. **NOTICE OF MOTION:**

NONE

11. **OTHER BUSINESS:**

- (a) At the Regular Council Meeting held 2015-JAN-19, Councillor Bestwick advised he would be bringing forward the following motion to the 2015-JAN-26 Committee of the Whole Meeting:

"That Council direct Staff to prepare a feasibility report that explores options, in partnership with the Nanaimo Aboriginal Centre (NAC), to develop the City owned 1406 Bowen Road site (across from the Quarterway Pub), as an affordable rental facility addressing the needs of urban aboriginals living off reserve in Nanaimo with the following general conditions:

- BC Housing and other funding partners are consulted to ascertain the nature and extent of their support for the proposed use on this site;
- consultation with the Nanaimo Aboriginal Centre to ascertain the nature and extent of the population to be served by the provision of affordable rental housing at the site, including that NAC undertake a comprehensive consultation process with businesses and residents/community in local proximity to the site;
- that the feasibility report be brought back to Council on or before April 13, 2015 with information regarding Provincial input on funding agreements, operating agreements, approval requirements and preliminary neighborhood feedback; and,

- to investigate the ongoing need of residential support to the Aboriginal Students and immediate families attending Vancouver Island University.”

12. **DELEGATIONS (not related to a Report to Council):** (10 MINUTES)

- (a) Mr. Allan Boos regarding mobile business licences.

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13. **QUESTION PERIOD:** (*Agenda Items Only*)

14. **PROCEDURAL MOTION:**

That the meeting be closed to the public in order to deal with agenda items under the *Community Charter* Section 90(1):

- (c) labour relations or other employee relations;
- (e) the acquisition, disposition or expropriation of land or improvements, if the Council considers that disclosure could reasonably be expected to harm the interests of the municipality; and,
- (n) the consideration of whether a Council meeting should be closed under a provision of this subsection or subsection (2).

15. **ADJOURNMENT:**

ACTING MAYOR: COUNCILLOR KIPP
2015-JAN-18 to 2015-MAR-08

MINUTES
SPECIAL COMMITTEE OF THE WHOLE MEETING
BOARD ROOM, SERVICE AND RESOURCE CENTRE,
411 DUNSMUIR STREET, NANAIMO, BC
THURSDAY, 2015-JAN-08 AT 9:00 A.M.

PRESENT: Mayor W. B. McKay, Chair

Members: Councillor W. L. Bestwick (arrived 9:07 a.m.)
Councillor M. D. Brennan
Councillor G. W. Fuller
Councillor J. Hong
Councillor J. A. Kipp
Councillor W. L. Pratt
Councillor I. W. Thorpe

Absent: Councillor W. M. Yoachim

Staff: E. C. Swabey, City Manager
T. M. Hickey, General Manager of Community Services
(vacated 10:24 a.m.)
T. P. Seward, Director of Social & Protective Services
T. L. Hartley, Director of Human Resources & Organizational Planning
B. E. Clemens, Director of Finance (vacated 10:24 a.m.)
D. Lindsay, Director of Community Development (vacated 10:24 a.m.)
P. Cooper, Communications Manager
J. Birch, Manager of Information Technology
C. Richardson, Fire Chief (vacated 10:24 a.m.)
C. Jackson, Manager of Legislative Services

1. CALL THE OPEN MEETING TO ORDER:

The Special Committee of the Whole Meeting was called to order at 9:04 a.m.

2. ADMINISTRATION:

(a) Council Orientation Presentations

1. Mr. Tom Roper, Roper-Greyell, provided a presentation regarding employee/labour relations.

The meeting recessed at 10:24 a.m. and reconvened at 10:34 a.m.

2. Ms. Heather MacKenzie and Mr. Terry Honcharuk, Integrity Group, provided a presentation regarding respectful workplace.

3. OTHER BUSINESS:

- (a) Mr. E. C. Swabey, City Manager, advised that the 2015 Early Approvals report will be on the 2015-JAN-12 Committee of the Whole Agenda.

4. ADJOURNMENT:

It was moved and seconded at 12:08 p.m. that the meeting terminate. The motion carried unanimously.

C H A I R

CERTIFIED CORRECT:

CORPORATE OFFICER

MINUTES
REGULAR COMMITTEE OF THE WHOLE MEETING
SHAW AUDITORIUM, 80 COMMERCIAL STREET,
MONDAY, 2015-JAN-12 AT 4:30 P.M.

PRESENT: Mayor W. B. McKay, Chair

Members: Councillor W. L. Bestwick
Councillor G. W. Fuller
Councillor J. Hong
Councillor J. A. Kipp
Councillor W. L. Pratt
Councillor I. W. Thorpe
Councillor W. M. Yoachim

Absent: Councillor M. D. Brennan

Staff: E. C. Swabey, City Manager
T. M. Hickey, General Manager of Community Services
T. P. Seward, Director of Social & Protective Services
B. E. Clemens, Director of Finance
D. Lindsay, Director of Community Development
R. J. Harding, Director of Parks, Environment & Recreation
S. Samborski, Senior Manager of Culture & Heritage
G. Goodall, Director of Engineering & Public Works
B. Prokopenko, Senior Manager of Engineering
P. Cooper, Communications Manager
J. Horn, Social Planner
C. Davis, Manager of Sanitation, Recycling & Public Works
Administration
D. Duncan, Manager of Financial Planning
P. Rosen, Manager Engineering Projects
G. Foy, Manager of Transportation
D. Fournier, Manager of Municipal Infrastructure
D. Blackwood, Client Support Specialist
C. Jackson, Manager of Legislative Services
S. Snelgrove, Recording Secretary

1. CALL THE OPEN MEETING TO ORDER:

The Regular Committee of the Whole Meeting was called to order at 4:30 p.m.

2. INTRODUCTION OF LATE ITEMS:

- (a) Councillor Kipp advised that he would be bringing forward an item under Agenda item 11 (a) Other Business regarding days of meetings.

- (b) Councillor Bestwick advised that Mr. Jeremy Baker was in attendance and wished to address Council as a late delegation regarding a BC Ferries feasibility study and bridge to Gabriola Island.
- (c) Agenda Item 14 Procedural Motion – Add section 90(1)(g) of the *Community Charter* - Litigation or potential litigation affecting the municipality.

3. ADOPTION OF AGENDA:

It was moved and seconded that the Agenda, as amended, be adopted. The motion carried unanimously.

4. ADOPTION OF MINUTES:

It was moved and seconded that the following Committee of the Whole Meeting Minutes be adopted as circulated:

- 2014-DEC-08 at 4:30 p.m.
- 2014-DEC-11 at 9:00 a.m.
- 2014-DEC-18 at 9:00 a.m.
- 2014-DEC-08 at 4:30 p.m.

The motion carried unanimously.

5. PRESENTATIONS:

- (a) Ms. Charlotte Davis, Manager of Sanitation, Recycling and Public Works Administration, provided a video presentation regarding the Zero Waste Challenge and Mayor McKay presented prizes to the following winners of the Zero Waste Challenge:
 - Mr. and Mrs. Hiltz and Mr. Norm Abbey - Most Improved Recycler
 - Mr. and Mrs. Villeneuve - Best Diversion Rate
 - Mr. and Mrs. St. Arnault and Mr. Dean Rownd - 2nd Best Diversion Rate
- (b) Mr. Jeremy Baker spoke regarding a BC Ferries feasibility study and a bridge to Gabriola Island.

6. CORPORATE SERVICES:

(a) 2015 Projects – Early Approval

It was moved and seconded that Council approve all projects previously approved in the 2014-2018 Financial Plan and include the following projects for 2015:

- Boundary Avenue Corridor and Utility Project,
- Island Highway/Old Victoria Road/Haliburton Road Traffic Signals Project; and,

refer new items to a special meeting of Council.

The motion carried unanimously.

(b) Building Canada Fund Grant Application for Port Theatre Expansion Project

Presentation:

1. Mr. Bruce Halliday

It was moved and seconded that Council:

1. support an application for \$4.6 million for the Port Theatre Expansion project under the Federal Gas Tax Fund – Strategic Priorities Fund component of the New Building Canada Plan; and,
2. direct Staff to amend the 2014 – 2018 Financial Plan bylaw to include the Port Theatre Expansion project.

The motion carried.

Opposed: Councillors Bestwick, Hong

7. COMMUNITY SERVICES:

(a) 2015 Social Development Grant Program

It was moved and seconded that Council allocate the following Social Development Grant for 2015:

Proponent	Program	Funding \$
Tillicum Lelum Aboriginal Friendship Centre	Youth Safe House; supports to youth experiencing mental health issues	70,000

The motion carried unanimously.

8. NOTICE OF MOTION:

- (a) Councillor Fuller advised that he will be bringing forward a motion regarding the Vancouver Island Conference Centre.

9. OTHER BUSINESS:

(a) Councillor Kipp re: Days of Meetings

Councillor Kipp provided a presentation.

It was moved and seconded that Council direct Staff to prepare the required report, schedule, booking and notification to:

1. change the day of Council meetings to the 1st and 3rd Thursday of each month;
2. change the day of Committee of the Whole meetings to the 2nd and 4th Thursdays of each month;
3. change the day of Public Hearings to the 1st available Monday of each month;
4. deliver the agendas Friday at 10:00 a.m., 6 days prior to the meeting; and,
5. addendum or delegations to the meeting would be required by the Legislative Services Department by 12:00 p.m. on the Tuesday preceding the meeting and be available by 4:00 p.m. the Wednesday preceding the meeting as an addendum.

The motion carried unanimously.

10. QUESTION PERIOD:

- Mr. Fred Taylor, re: Days of Meetings, 2015 Projects - Early Approval
- Mr. Robert Fuller, re: Building Canada Fund Grant Application for Port Theatre Expansion Project

11. PROCEDURAL MOTION:

It was moved and seconded that the meeting be closed to the public in order to deal with agenda items under the *Community Charter* Section 90(1):

- (a) personal information about an identifiable individual who holds or is being considered for a position as an officer, employee or agent of the municipality or another position appointed by the municipality;
- (e) the acquisition, disposition or expropriation of land or improvements, if the Council considers that disclosure could reasonably be expected to harm the interests of the municipality;
- (g) litigation or potential litigation affecting the municipality; and,
- (n) the consideration of whether a Council meeting should be closed under a provision of this subsection or subsection (2).

The motion carried unanimously.

Council moved into "In Camera" at 6:46 p.m.

Council moved out of "In Camera" at 8:58 p.m.

12. ADJOURNMENT:

It was moved and seconded at 8:59 p.m. that the meeting terminate. The motion carried unanimously.

C H A I R

CERTIFIED CORRECT:

CORPORATE OFFICER

MINUTES
SPECIAL COMMITTEE OF THE WHOLE MEETING
BOARD ROOM, SERVICE AND RESOURCE CENTRE, 411 DUNSMUIR STREET
THURSDAY, 2015-JAN-15 AT 9:00 A.M.

PRESENT: Mayor W. B. McKay, Chair

Members: Councillor W. L. Bestwick
Councillor G. W. Fuller
Councillor J. Hong
Councillor J. A. Kipp (vacated 2:47 p.m.)
Councillor W. L. Pratt
Councillor I. W. Thorpe
Councillor W. M. Yoachim

Absent: Councillor M. D. Brennan

Staff: E. C. Swabey, City Manager
T. M. Hickey, General Manager of Community Services
(arrived 10:07 a.m.)
T. P. Seward, Director of Social & Protective Services
T. L. Hartley, Director of Human Resources & Organizational Planning
B. E. Clemens, Director of Finance (arrived 12:20 p.m.)
D. Lindsay, Director of Community Development
R. J. Harding, Director of Parks, Environment & Recreation
(arrived 12:59 p.m., vacated 1:53 p.m.)
S. Samborski, Senior Manager of Culture & Heritage (arrived 12:20 p.m.)
G. Goodall, Director of Engineering & Public Works (arrived 12:51 p.m.,
vacated 2:10 p.m.)
P. Cooper, Communications Manager
J. Kemp, Executive Assistant (vacated 12:00 p.m.)
C. Jackson, Manager Legislative Services (arrived 1:22 p.m.)
S. Snelgrove, Recording Secretary

1. CALL THE OPEN MEETING TO ORDER:

The Special Committee of the Whole Meeting was called to order at 9:09 a.m.

2. ADMINISTRATION:

(a) Council Orientation – Partnerships

Presentations:

1. Dr. Ralph Nilson, President and Vice-Chancellor, and Mr. Dan Hurley, Executive Director, University Relations, provided an overview of Vancouver Island University operations.

2. Mr. Kim Smythe, CEO, and Mr. Wally Wells, Executive Secretary, Greater Nanaimo Chamber of Commerce, provided a presentation regarding Chamber activities.
3. Mr. Sasha Angus, CEO, and Mr. A. J. Hustins, Chair, Nanaimo Economic Development Corporation, provided a presentation.

The meeting recessed at 10:25 a.m. and reconvened at 10:34 a.m.

4. Mr. John Cooper, President, and Ms. Corry Hostetter, Executive Director, Downtown Nanaimo Business Improvement Association, presented the 2014-2017 Strategic Priorities and Activities Plan.
5. Mr. Bernie Dumas, President and CEO, and Mr. Richard Ringma, Vice-Chair, Board of Directors, Nanaimo Port Authority, provided a presentation.
6. Mr. Mike Hooper, President and CEO, Nanaimo Airport, provided a presentation.
7. Mr. Paul Thorkelsson, CAO, Regional District of Nanaimo, presented the 2013-2015 RDN Board Strategic Plan.

The meeting recessed at 12:05 p.m. and reconvened at 12:38 p.m.

(b) Core Review

Ms. Judy Kirk, Kirk and Co. Consulting, facilitated a discussion regarding a core review.

The meeting recessed at 2:09 p.m. and reconvened at 2:16 p.m.

The following individuals spoke regarding a core review.

1. Mr. George Hanson, President, Vancouver Island Economic Alliance
2. Mr. Tim McGrath
3. Mr. Bob Moss
4. Mr. Dan Appell
5. Mr. Laurence Amy, CUPE Local 401

Councillor Kipp vacated the Board Room at 2:47 p.m.

3. ADJOURNMENT:

It was moved and seconded at 2:50 p.m. that the meeting terminate. The motion carried unanimously.

C H A I R

CERTIFIED CORRECT:

CORPORATE OFFICER

City of Nanaimo

REPORT TO COUNCIL

DATE OF MEETING: 2015-JAN-26

AUTHORED BY: CHRIS JACKSON, MANAGER OF LEGISLATIVE SERVICES

RE: MEETINGS DATES AND AGENDA CIRCULATION TIMES

STAFF RECOMMENDATION:

1. That Council direct Staff to prepare an amendment to "Council Procedure Bylaw 2007 No. 7060" by:
 - (a) changing Council meeting days to the 1st and 3rd Thursday of each month;
 - (b) changing Committee of the Whole meeting days to the 2nd and 4th Thursday of each month;
 - (c) changing Public Hearings to the 1st available Monday of each month;
 - (d) finalizing and publishing the draft agenda by 1:00 pm on Fridays, 6 days prior to the meeting;
 - (e) setting a delegation submission and late item deadline of 11:00 am on Tuesday, 2 days prior to the meeting; and,
 - (f) finalizing and publishing the amended draft agenda by 4:00 pm Tuesday, 2 days prior to the meeting.
2. That Council provide direction to Staff regarding changes to the location and time of Committee of the Whole meetings. *(Please refer to City Manager's recommendation at end of report.)*

PURPOSE:

To provide options to implement changes to Council and Committee of the Whole meeting dates and agenda circulation times as directed by Council.

BACKGROUND:

At its Regular Council Meeting held 2014-DEC-15, the following resolution was passed:

57014 *It was moved and seconded that Council direct Staff to review the day and timing of agenda circulation and dates to reflect a longer period of time between the agenda publication date and the Council meeting date. The motion carried unanimously.*

☐ Council
☒ Committee *CLW*
☒ Open Meeting
☐ In-Camera Meeting
Meeting Date: *2015-JAN-26*

At the Committee of the Whole Meeting held 2015-JAN-12, the following resolution was passed:

That Council direct Staff to prepare the required report, schedule, booking and notification to:

- 1. change the day of Council meetings to the 1st and 3rd Thursday of each month;*
- 2. change the day of Committee of the Whole meetings to the 2nd and 4th Thursdays of each month;*
- 3. change the day of Public Hearings to the 1st available Monday of each month;*
- 4. deliver the agendas Friday at 10:00 a.m., 6 days prior to the meeting; and,*
- 5. addendum or delegations to the meeting would be required by the Legislative Services Department by 12:00 p.m. on the Tuesday preceding the meeting and be available by 4:00 p.m. the Wednesday preceding the meeting as an addendum.*

In addition to these resolutions, discussions at recent meetings have included comments regarding the distinction between a Council meeting (more formal and decision based) and Committee of the Whole meeting (less formal and discussion/workshop based); whether Committee of the Whole meetings should be relocated to the Service and Resource Centre Board Room (SARC); and that Committee of the Whole meetings occur in the afternoons starting at 1:00 pm. Staff have not been given direction regarding these matters; instead, Staff seek Council direction.

Currently, Shaw Cable broadcasts Council meetings live on Mondays, but have other commitments Thursday evenings and are unable to provide Council with that time slot.

As part of the 'Go Island' series, Kait Burgan spends about 30 minutes on Tuesdays with the Mayor discussing the Council meeting from the previous night. This is an informal interview and airs repeatedly over the week. Preliminary discussions indicate that these interviews could be arranged for Fridays and aired on the weekends.

Meetings can also be viewed live, or from a recording, through the City's website. For the most part, the server has been able to meet the online viewing demand. However, there have been occasions where the demand has exceeded capacity (e.g. video and sound become 'choppy'). If viewership online increases for live broadcasts then these issues will be more common.

DISCUSSION:

The first two items in the resolution were passed at the 2015-JAN-12 Committee of the Whole Meeting. The presentation by Councillor Kipp made at that meeting is available on the City's website. Councillor Kipp also provided a supporting document which forms Attachment A to this report.

Item 3 of the resolution (timing of public hearings) has some impact on turnaround times between referral to the public hearing (after a bylaw has received at least first reading) and when the public hearing is held. Currently there is about 2.5 weeks (which includes the mandatory notification period). Moving public hearings to the first Monday of the month (and switching to Thursday Regular Council meetings), results in several months where the delay

between the referral motion and the public hearing increases to 3.5 weeks. There are also several occasions over the year where there is a statutory holiday conflict on the first Monday.

If Council decided to hold Committee of the Whole meetings earlier on Thursdays (e.g. afternoon), then public hearings could continue to be held Thursday evenings. The timing between the referral motion and the public hearing being held would be reduced on several occasions, with the timing being 2 weeks (and 3 weeks for others). This could create long days on the second Thursday of the month if there are several bylaws at a public hearing and a number of items on the afternoon Committee of the Whole agenda. Whether this is offset by freeing up Monday evenings should be an item for discussion by Council.

For items 4 and 5 of the resolution, Staff suggest the timing be reconsidered, as follows:

- Item 4 directs that the agenda be made available on Friday by 10:00 am. It often takes more than two hours to collate and physically prepare hard copy agenda packages and post digital versions to the City website. Moving the publication deadline to 1:00 pm would provide Staff time to complete this work.
- Item 5 directs that delegations and late agenda items be submitted to Legislative Services no later than noon Tuesday, with the amended agenda published no later than Wednesday at 4:00 pm. Currently, the deadline for delegations and late items is by 11:00 am with the amended agenda published the same day. Staff could provide the same level of service in the new arrangement such that delegation and late agenda items be submitted no later than 11:00 am with the amended agenda published by 4:00 pm the same day (Tuesday, 2 days before the meeting).

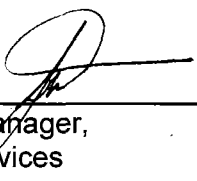
Moving forward with Council's direction, and including the two notes above for Items 4 and 5, the agenda preparation workflow would follow this process:

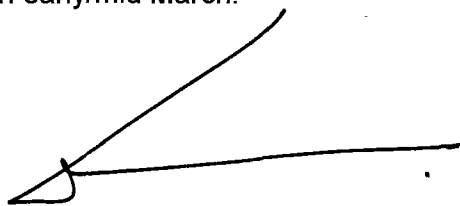
- **By 3:00 pm, Tuesday (9 days prior to meeting):** deadline to submit topics, reports, notice of motions and correspondence to the Legislative Services department. Legislative Services staff prepare draft agenda.
- **Wednesday (8 days prior to meeting):** the draft agenda is presented to the City Manager in a briefing. Edits and revisions are completed as necessary.
- **Thursday (7 days prior to meeting):** the draft agenda is presented to the Mayor in a briefing. Edits and revisions are completed as necessary.
- **By 1:00 pm, Friday (6 days prior to meeting):** Legislative Services staff finalize, publish and distribute the draft agenda.
- **By 11:00 am, Tuesday (2 days prior to meeting):** deadline for delegation requests and urgent matters to be received as late agenda items.
- **By 4:00 pm, Tuesday (2 days prior to the meeting):** the amended agenda is published on green sheets, posted and made available to Council and the public.
- **Thursday (at the meeting):** Council/Committee of the Whole approves the final agenda. Council may add, remove, or change the agenda at this time, at its discretion.

As noted earlier in the report, the opportunity to have meetings broadcast live on Thursdays will not be available due to Shaw Cable's prior corporate programming obligations. However, the meetings are available for live viewing online (provided Council's technical resources are in place). Staff suggests that the live streaming of meetings be monitored for quality and reliability. If the current service is not able to keep pace with increased viewership, Council will be advised and asked for direction, including cost estimates to remedy.

The Council Procedure Bylaw should be amended in order to implement Council's resolutions. The process to amend Council's Procedure Bylaw includes bylaw readings stretched over at least two Council meetings, and a public notification period. If Council proceeds with first reading on February 2, then public notification could follow; however, final bylaw reading would not be possible by February 16. Instead, the earliest the final bylaw reading could be considered is March 2, with implementation of changes occurring in early/mid March.

Respectfully submitted,



C. Jackson, Manager,
Legislative Services

G. Ferrero, Director
Information Technology & Legislative
Services

Concurrence by:

CITY MANAGER RECOMMENDATION:

With respect to Committee of the Whole Meetings, I recommend that Council direct Staff to change the venue for these meetings to the Board Room of the City Hall Service and Resource Centre. I further recommend that these meetings not be televised or recorded and that amendments be made to "Council Procedure Bylaw 2007 No. 7060" to return of the function of these meetings to the original intent as "committee" meetings instead of "Council" meetings. The "Delegation of Council Powers Bylaw 2006 No. 7022" would also need to be repealed, as that bylaw delegates all of the executive and administrative powers of Council to the "Finance/Policy Committee of the Whole".

ATTACHMENT A

Proposal to change council meeting days

PURPOSE:

To change the Day of Council meetings and the key date calendar to reflect more time between agenda availability and the related meeting.

MOVE MOTION:

That staff prepare the required report, schedule, bookings and notification to:

1. Change the day of Council to the 1st and 3rd Thursday of each month and
2. Change the day of Council Committee of the Whole to the 2nd and 4th Thursday of each month
3. And that Public Hearings of Council change to the 1st available Monday of each month

and

4. The agenda would be delivered on Fridays, 6 days prior to the meeting.
5. Addendum or delegations to the meeting would be required by legislative services by the 12:00 noon Tuesday preceding that meeting and be available 16:00 Wednesday preceding the meeting as an "addendum".

BACKGROUND:

As has been discussed the length of time between agenda and meetings is deemed to be insufficient by the public and Council

Also the revised agendas and late items that arrive at the meeting have caused considerable confusion on the transfer of information or Council question/debate points from the first agenda to the revised agenda. Further, the revisions or changes to the original agenda are sometimes not clear or easily located in the sometimes massive documents.

Operationally, this scheduling, would require no revision to the staff agenda preparation or distribution. I suggest the addendum preparation would be less onerous on staff than the redoing the first print of the agenda. Basically only having to produce a new addendum document and the practise of notification of interested parties can be eliminated. The addendum is in place at the RDN and many other entities use this as an example.

This proposed schedule also allows the public to review the agenda for 4 days and Council for 6 days. With the earlier agenda, later delegation deadline the public, Council and staff will have more time to generate questions and answers during working days verses weekend flurries of activity.

As for information or education sessions, before the meeting, Council could hold sessions on Tuesday Wednesday or Thursday afternoons. Which would facilitate any questions that Council, staff or public for that matter have after reviewing the agenda for 4 days. And staff can start Monday morning at their desk and attend the later session as required. Further, not having the briefing on the day of the meeting does not make for a possible 800 to 2200 Monday.

Also this proposed schedule changes addresses the related Monday Council meeting and Tuesday RDN meetings two nights in succession. The dilemma where a Councillor may be subject to hundreds of pages of agendas, reports and submissions. Also giving 5 days time for Council after a Thursday meeting to send an item to the next RDN meeting.

The change to the public hearing schedule would require little adjustment to agenda preparation and distribution, which the subsequent report can identify. The Monday hearing proposal would also allow staff time to add to the next addendum public hearing information that could if required, be include.

Regarding meeting facilities, for VICC availability, if there is a double booking, we could meet at RDN or SARC or other place of Council choice.

respectfully submitted

City of Nanaimo

REPORT TO COUNCIL

DATE OF MEETING: 2015-JAN-26

AUTHORED BY: TOBY SEWARD, ACTING GENERAL MANAGER
COMMUNITY DEVELOPMENT & PROTECTIVE SERVICES

RE: COLLIERY DAMS UPDATE

STAFF RECOMMENDATION:

That Council direct staff to:

1. Pursue the alternate drainage course/swale to remediate the Lower Colliery Dam, through the following steps:
 - A.) retain Golder Associates to prepare a detailed design and cost estimate for an alternate drainage course/swale that would provide a backup spillway from the Lower Colliery Dam reservoir to the adjacent Harewood Creek;
 - B.) approve \$250,000 from the General Capital Reserve to fund detailed design in 2015 and amend the 2014 – 2018 Financial Plan to include this expenditure and funding;
 - C.) review design, construction and routing with Dam Safety Section, Snuneymuxw First Nation, Colliery Dam Park Preservation Society and permitting agencies; and
 - D.) return to Council once design/estimate is complete to seek approval on funding options and to proceed with tendering, and construction of the drainage course/swale; or
2. provide alternate direction regarding remediation of the Colliery Dams.

PURPOSE:

This report outlines the current status of the proposed remediation of Colliery Dams, provides an update on the recent analysis that Golder Associates undertook to review water distribution, spillway capacity and an alternate swale/drainage course, and provides a summary of the remediation options available for Colliery Dams.

BACKGROUND:

In September 2013, Council directed staff to establish a Colliery Dams Technical Committee (TC), comprised of representatives of the Snuneymuxw First Nation (SFN), Colliery Dam Park Preservation Society (CDPPS), and the City of Nanaimo. Thereafter, the TC selected Golder Associates (Golder) as the engineering consultant to work with the committee and Katherine Gordon as the committee facilitator. From September 2013 through June 2014, the Colliery Dams Technical Committee met 12 times to investigate and identify remediation options for the Colliery Dams.

☐ Council
☒ Committee of the Whole
☒ Open Meeting
☐ In-Camera Meeting
Meeting Date: 2015-JAN-26

The TC identified two options to remediate the Colliery Dams:

1. Labyrinth Spillway – Replace the existing spillway with a new labyrinth spillway that is approximately three times as deep as the previous spillway (estimated construction cost \$5.4 million; overall project cost \$8.1 million).
2. Overtopping – Harden the Lower Colliery Dam embankment to prevent erosion of the embankment during an overtopping event (estimated construction cost \$3.2 million; overall project cost \$7.3 million).

In June 2014, the SFN and the City representatives selected Option 1 - Labyrinth Spillway as the preferred option, while the CDPPS selected Option 2 - Overtopping as the preferred option.

Since June of 2014, there have been multiple reports to Council outlining various approaches to remediate the dams.

DISCUSSION:

At the Committee of the Whole Meeting on 2014-NOV-03, Council directed staff to:

1. Review water distribution in an overtopping situation and how it impacts overtopping flow rate;
2. Review capacity of the existing spillway;
3. Review the concept of an alternate swale/drainage course to Harewood Creek; and
4. Provide a report back to Council with recommended next steps once Items 1, 2 and 3 have been completed.

A copy of Golder Associates report outlining their analysis of Items 1, 2 and 3 above is appended to this report (Attachment A).

A summary of the responses Golder provided to the three issues noted above are as follows:

1. Water Distribution – The computer model was modified and run for the design flows, which determined from a total flow of 143 m³/sec, 4 m³/sec flowed over the right abutment.
2. Spillway Capacity – the spillway capacity is 55 m³/sec. Flows begin to overtop the spillway walls at 35 m³/sec.
3. Auxiliary Spillway to Harewood Creek – With this approach, the existing spillway would remain in place and serve as the primary spillway, while a second spillway (an auxiliary spillway) would be constructed to provide the additional required capacity.

Key factors considered in developing this concept are as follows:

- *Spillway Capacity* – the required capacity of the auxiliary spillway is 88 m³/sec, based on the design requirement of 143 m³/sec, and on the existing spillway capacity of 55 m³/sec;
- *Spillway Crest Elevation* – the spillway crest elevation would be set at 72.1 m, which is 0.5 m above that of the existing spillway; and
- *Location* – The spillway entrance is proposed to be located about 10 m to the south of the existing spillway, and is aligned to provide the minimum length of spillway channel.
(Proposed location of auxiliary spillway is appended as Attachment B.)

Spillway Conceptual Design – an open channel spillway has been proposed for the spillway (approximately 10 m wide, 5 – 6 m deep, with 10 m wide sloped sideways on each side).

Construction Considerations - A detailed constructability assessment has not been undertaken for this project. The following factors have been identified and will require further consideration if this option is to be further developed:

- construction access;
- site clearing requirements;
- cofferdam construction;
- excavation; and
- other construction impacts that should be assessed during design development are health and safety, environmental, cultural, financial, constructability, etc.

An environmental and cultural resources assessment has not been undertaken as part of this work.

Estimated Cost - An estimate is based on a typical design development of 2% to 15% and has an expected accuracy in the order of -20% to +50%. This estimate is considered to be sufficient for informing investment decisions and obtaining preliminary project approvals.

The costs have been based primarily on unit rates developed when preparing the cost estimate for the previous labyrinth weir design. The estimated building cost for this option is \$3.4 million (range \$2.7 million to \$5.1 million) which excludes:

- owners costs (investigations, design, construction management, permitting, etc.);
- upgrades to Harewood Creek; and
- landscaping, etc.

Further Work

In the event that this option is selected for further development, the following additional items of work are suggested in order to advance the design, assess construction and environmental impacts and refine the cost estimate:

- assess geotechnical conditions as a basis for design development and construction cost estimating (undertake drill holes on proposed spillway route);
- design development, including:
 - alignment and design optimization;

- hydraulic, structural and geotechnical design, including further assessment of weir options; and
- temporary works optimization, including cofferdam design.
- constructability assessment and cost estimating, including construction staging and site area requirement;
- assess potential need for hydraulic improvements to Harewood Creek;
- assess environmental and cultural impacts;
- aesthetics and landscape architecture evaluation as a means to minimize the intrusion of the structure

Following is a review of options previously considered, plus the drainage course/swale option outlined in Golder's report.

	OPTION	INITIAL COST	TIMELINE	PROJECT COST	OUTCOME
1.	RFQ/RFP	\$200,000 - \$400,000	5 months	To be determined by contractors	Design/build contractors will prepare proposals and costs to complete remediation
2.	Sole source to GSI (upon qualifying and approval of stabilization proposal)	\$100,000 - \$200,000	3 months	\$3.0± million (estimated)	GSI would submit qualifications for review and prepare proposal and costs to complete remediation, based on specifications (including peer and Dam Safety Section review)
3.	Design/Tender - Spillway Labyrinth	\$600,000 (included in project cost estimate)	6 months	\$8.1 million (estimated)	Remediation complete on Lower Dam
4.	Design/Tender - Overtopping	\$800,000 (included in project cost estimate)	6 months	\$7.3 million (estimated)	Remediation complete on Lower Dam
5.	Design/Tender - Drainage Course/Swale	\$400,000 (included in project cost estimate)	5 months	\$3 - \$6 million (estimated)	Remediation complete on Lower Dam

Possible Cost Reductions (Value Engineering)

Proposed designs for each option have not been developed to the point where possible cost reductions can be determined. Once designs become more developed, engineers/contractors can determine if variations in design material and construction can be used to decrease cost. As an example, the current spillway proposals include a cofferdam (temporary sheet pile dam) to prevent water from impacting construction, which may be considerably reduced in size and cost, depending on the design.

Dam Safety Section

Dam Safety Section (DSS) representatives have to be regularly updated on the status of the remediation and have participated in the majority of the TC meetings. City staff continues to communicate with DSS and have advised them that this report is being brought before Council to seek direction on remediation options. DSS has advised that they wish to see the details and a timeframe for any proposed remediation option to ensure the work will be undertaken during the summer of 2015, as previously identified by the City.

Snuneymuxw First Nation

As well as being a member of the Colliery Dams Technical Committee, the SFN is part of the long-term mitigation processing structure endorsed by Council 2013-OCT-21 (Attachment C).

The Provincial government, through the Dam Safety Section, has also advised that they would be seeking SFN input in the referral process that would take place during the application approval of various permits needed prior to undertaking the work.

The SFN has been involved throughout the review process and SFN Chief and Council have provided a letter confirming they endorse the labyrinth spillway method. City staff continues to update SFN staff regarding the current status of the Colliery Dam review process. Once further direction is received from City Council, City staff will review the direction with SFN.

Colliery Dam Park Preservation Society

The CDPPS has been involved throughout the review process as part of the Colliery Dams Technical Committee and continue to evaluate information generated. They request that they continue to be involved in the process leading up to selection of a remediation solution. If Council directs staff to pursue the alternate drainage course/swale, staff would review the proposed route, design and construction methods with CDPPS, as well as SFN, DSS and permitting agencies.

Permits

Permits will likely be required to address environmental, archaeological, fishery, water management, and other issues that may arise depending on the option chosen. City staff will also be involved in permitting any tree removal required.

Schedule

As outlined in the 2013-OCT-21 Council report, a schedule was developed for long-term mitigation of the Colliery Dams (Attachment D) and outlined improvements to take place from June to September 2015. In order to meet this construction timeline, a remediation option was scheduled to be determined by Council by December, 2014, followed by initiation of the design process. The schedule also anticipated the process of developing construction drawings, referrals, and permits that would take place from January 2015, through April 2015, followed by tendering and awarding a contract for remediation in May/June 2015. In order to meet the timelines noted, selection and remediation options need to take place early in 2015; otherwise, it is unlikely that remediation could take place during the summer of 2015 (construction work on a remediation option is scheduled for the summer months as the Colliery Dams reservoir is usually at its lowest point, there is less impact on fisheries, and normally it is the driest time of the year).

Middle Dam

In Golder's analysis of the Lower and Middle Dams, it has been determined that the priority is for remediation of the Lower Dam, as once the spillway capacity deficiency has been addressed, it is more likely that it would withstand a failure of the Middle Dam during a severe storm event. Given this information, the first priority is to address the Lower Dam spillway capacity deficiency. Work on the Middle Dam is not proposed in 2015. The spillway capacity of the Middle Dam is also undersized to handle a severe storm event; however, it is not considered as significant a hazard as the Lower Dam. City staff are recommending proceeding with addressing the Lower Dam and putting a monitoring system in place for the Middle Dam to evaluate if the spillway capacity needs to be increased in the coming years and reserve funds in the 2019 budget in case there is a necessity to upgrade the Middle Dam spillway in the future.

Along with a monitoring system, staff will also evaluate methods to decrease water flows that are directed to the Middle and Lower Dam reservoirs in peak storm conditions. This would include determining if storm sewer piping directing water to the reservoirs could be rerouted as properties upland of Colliery Dam Park (i.e. DND lands) are redeveloped in the future.

Budget

In 2014, Council directed staff to allocate \$2.5 million from reserves (2012 surplus) to the Colliery Dams project. Up until the Colliery Dams Technical Committee was established in October 2013, approximately \$1 million was spent on costs for the project. Costs from October, 2013, to date are approximately \$1.5 million; therefore, the \$2.5 million originally reserved for the project has now been spent.

Currently, no funds for expenditures for further investigations or dam remediation are budgeted. Staff provided a report to Council on 2013-NOV-18 outlining possible funding sources for remediation of the Colliery Dams. In that report, staff advised that Council has a number of tools available to finance the proposed remediation works. These tools are likely to include a combination of some of the following options:

- a) Current general revenue taxation
- b) Reserve and reserve from balances
- c) Short-term borrowing
- d) Long-term borrowing (elector assent)
- e) Local service area

Once Council direction is provided regarding the preferred remediation option, a more detailed estimate of the required budget will be determined and a review of the funding options, noted above, will be provided to Council for consideration.

Asset Management

Currently, the City spends approximately \$250,000 a year monitoring the nine city dams, including the Middle and Lower Colliery Dams. City dams are evaluated as part of the City's Infrastructure Asset Management Program, which allocates funds to maintain and, if necessary, replace infrastructure as it reaches the end of its service life. Given the age of the Colliery Dams, they will require considerable funding to evaluate and maintain over time, plus large repair costs if they are damaged in an earthquake.

Summary

Further to Council's direction to pursue additional analysis of the Colliery Dams, Golder has now provided a report that provides an analysis of water distribution in an overtopping event/capacity of existing spillway and a review of the concept of an alternate swale/drainage course to

Harewood Creek. The Golder report confirms that the existing spillway is substantially undersized and will not meet engineering or DSS regulations in a severe storm event. The Golder report also identified that the alternate swale/drainage course to Harewood Creek is viable and will require removal of trees and vegetation west of the Lower Dam reservoir to accommodate a drainage course or swale that could vary in width (approximately 10 – 30 metres wide) and depth (approximately 5 - 6 meters deep) to accommodate the volume of water and grading to Harewood Creek. Golder was only asked to review the concept of a drainage course/swale and estimated costs of construction. Related project costs (contingency, engineering and project management, bridge, landscaping, permitting) are difficult to determine until a more detailed design is reviewed. At this time, the estimated project cost of the option is \$3 - \$6 million.

This staff report outlines the various remediation options presented to Council over the past eight months. Staff recommends pursuing the alternate drainage course/swale as it is the option that appears to be most viable (pending final design review), is estimated to be approximately two thirds of the cost of the labyrinth spillway or overtopping option, and may allow for additional cost savings that could be achieved through the design and construction process.

The objective that the TC worked to and that has prevailed throughout all discussions during the past 16 months is as follows:

Development of an environmentally, minimally invasive, cost- and time-effective solution while satisfying required safety standards - i.e. a solution that addresses:

- a. the safety of downstream residents and workers;
- b. Dam Safety Section requirements;
- c. the respective objectives of the City, SFN, CDPSPS and the community;
- d. environmental concerns, including fisheries, habitat, and ecology;
- e. cost-effectiveness; and
- f. a timely, permanent solution in place by 2014, if possible, but no later than 2015, with short-term mitigation in place, if required, in 2014.

The community, Council, and all participants in review of the Colliery Dams have expressed a desire to see this issue resolved. The alternate drainage course/swale provides an option that would generally meet the previously-established objectives (noted above) and will allow work to be undertaken in summer, 2015.

Respectfully submitted,



TOBY SEWARD
ACTING GENERAL MANAGER
COMMUNITY DEVELOPMENT & PROTECTIVE SERVICES

CITY MANAGER COMMENT:

I concur with the staff recommendation.

Drafted: 2015-JAN-02
G:/2015 Files/Colliery Dam Park/Reports/2015-Jan-26 Colliery Dams Update
TS/kb/hp



January 16, 2015

Reference No. 1314470516-022-L-Rev0

Toby Seward, Community Development and Protective Services
 City of Nanaimo
 455 Wallace Street
 Nanaimo, BC
 V9R 5J6

**COLLIERY DAMS, NANAIMO BC
 AUXILLIARY SPILLWAY – CONCEPTUAL DESIGN**

Dear Mr. Seward,

1.0 INTRODUCTION

As requested Golder Associates Ltd. (Golder) has undertaken additional studies for the City of Nanaimo (CON) in relation to the ongoing dam safety assessment for the Colliery Dams in Nanaimo, BC. In particular, as directed by the CON, the studies presented in this letter comprise the following;

- Review water distribution in overtopping situation and how it impacts overtopping flow rate;
- Review capacity of existing spillway; and,
- Review concept of alternate swale/drainage course to Harewood Creek.

This letter provides a summary level discussion of the above items, and, if necessary, will be followed with a more detailed technical report describing the analyses and design development.

2.0 WATER DISTRIBUTION

In order to evaluate the pattern of water release from the reservoir in the design storm event, a more detailed evaluation of flood routing was undertaken. The HEC-HMS model was modified to account for water release over both the dam and the right abutment, in order to facilitate separating the dam and right abutment overtopping flows. Additionally, additional point survey information was used to refine the model geometry and the level of detail of the analysis was increased to match the available point data. The hydrology, reservoir storage, and existing spillway parameters remain unchanged.

The model was run for the design flows (1000 year event plus 2/3 of the difference between the 1000 year flood and the PMF); key findings from this revised analysis are as follows:

- The flow over the right abutment is a small proportion of the total flow of 143 m³/sec - about 4 m³/sec; and,

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- The peak overtopping dam flow increased slightly (by about 4 m³/sec, which is less than 10% of the total overtopping flow), due primarily to the revised geometry and model refinements.

3.0 SPILLWAY CAPACITY

As requested, a review of the Lower Dam spillway capacity has been carried out. The key inputs to the hydraulic model (in particular, the spillway geometry) have been checked. The hydraulic review has confirmed the previously reported spillway capacity results (Golder 2014). Key findings related to this assessment are as follows;

- The spillway capacity is approximately 55 m³/sec;
- Due to the spillway geometry and the formation of hydraulic jumps, flows begin to overtop the spillway walls at lower flow rates (beginning at 35 m³/sec); and,
- The above calculated spillway capacity is greater than capacities previously reported (eg WMC 2002). Since the previous reports do not provide a complete summary of model inputs and assumptions, it is not possible to definitively determine the reason for the differing calculated capacities. However, it is considered likely that the previous capacities may have been based on a different definition of spillway capacity, for example the previous spillway capacity may have been based on the onset of a hydraulic jump that exceeded the spillway wall height.

4.0 AUXILLIARY SPILLWAY TO HAREWOOD CREEK

4.1 Description

As a means to provide additional flood routing capacity for the Lower Dam, the incorporation of a second spillway has been considered. With this approach, the existing spillway would remain in place and serve as the primary spillway, while a second spillway (an Auxiliary Spillway) would be constructed to provide the additional required capacity. As it is preferable that the existing spillway, and the existing river channel downstream of the spillway, serve as the primary flow channel, the auxiliary spillway would only be activated in the event of a storm. This section of the letter outlines findings related to the conceptual design development for this option. It is noted that this evaluation addresses only engineering the engineering aspects of the project and does not address the environmental, aesthetics, or permitting aspects of the work.

The key factors considered in developing this concept are as follows:

- Spillway Capacity. The required capacity of the auxiliary spillway is 88 m³/sec, based on the design requirement of 143 m³/sec, and on the existing spillway capacity of 55 m³/sec;
- Spillway Crest Elevation. The spillway crest elevation has been set at 72.1 m, which is 0.5 m above that of the existing spillway. Based on the hydrology model, at this elevation the spillway is anticipated to be engaged once per year, on average;
- Location. As shown on Figure 1, the spillway entrance is located about 10 m to the south of the existing spillway, and is aligned to provide the minimum length of spillway channel. The alignment selection has been based primarily on topographic considerations as a means to minimize the spillway length and depth of excavation;

■ Spillway conceptual design.

- Spillway Channel. As shown on Figures 1 and 2, an open channel spillway has been selected for the spillway. This is expected to represent the lowest cost option for the spillway, but will result in a larger footprint than other options which would require steeper side slopes. As here is no information on ground conditions, side slopes for this option have been conservatively set at 2H:1V.
- Entrance structure (weir). The key component of the spillway design is the design of the entrance (or weir) structure. The preferred weir structure is required to satisfy the conflicting requirements of; 1) providing the required design capacity; 2) minimizing the footprint and meeting aesthetic requirements; 3) providing a cost effective solution and 4) being acceptable from an environmental and public safety standpoint.
 - Following an evaluation of different weir types, a labyrinth weir has been selected as the recommended type based on the above considerations. Preliminary analyses indicate a weir of 13 m (l) x 13 m (w) and 3 m in height would be sufficient to pass the design flow. Other weir types considered include,
 - Concrete ogee weir. This options was discounted due to its large size and large footprint (it would need to be in excess of 35 m long, based on a crest elevation of 72.1 m).
 - Mechanical systems. Various options are available which could provide a smaller footprint such as the Obermeyer weir, gated systems and fuse gate spillways. However, such systems would require ongoing maintenance, may require operational control in order to be activated in a storm and would result in larger surge flows when activated. Such surge flows could result in greater impacts to downstream water courses (such as Harewood Creek), with attendant erosion and environmental impacts, and would also present a public safety hazard due to the rapid changes in flows which could be experienced in these release events.
- Geometry and hydraulics.
 - Weir location. The location of the labyrinth structure is flexible, and requires consideration of aesthetics, hydraulics, constructability (in particular, cofferdam construction) and cut and fills volumes. As shown on Figure 1 the labyrinth has been located well into the abutment (into the slope) in order to make it less visible and to facilitate cofferdam construction.
 - A spillway channel of a minimum of 10 metres width is required for this option. The channel is sloped at about 2%.

■ Channel armouring.

- The upstream approach channel is envisioned to not require armoring due to the low-velocity, sub-critical flows approaching the labyrinth weir.
- The downstream outlet channel experiences flow velocities of approximately 5.5 m/sec and 1.5m depth. Therefore the lower 2m (vertical) of the channel will need to be armored. A number of armouring solutions are considered to be feasible, including rip rap, tied concrete blocks (eg Armorflex), gabions and reinforced vegetative covers.

- **Harewood Creek.** As shown on Figure 1, the downstream portion of Harewood Creek will form part of the spillway system. It is anticipated that some stream improvements may be required in order to be able to accommodate the increased flows the channel will experience. In particular armouring is likely to be required at the confluence of the new spillway and Harewood Creek.

4.2 Construction Considerations

A detailed constructability assessment has not been undertaken for this project; however, the following factors have been identified and will require further consideration if this option is to be further developed.

- **Construction access.** The site is assumed to be accessed from the south using the existing paved trail off of Harewood Mines Road. This option assumes that suitable laydown is available at or near the Harewood Mines Road junction to facilitate construction traffic and enable offloading of equipment and materials. Traffic management and control (vehicles and pedestrians) may need to be considered in the event that suitable off-road space is not available. In addition, the presence of overhead utility lines at the access point may present a constraint to the construction approach, with the resultant impact to project cost and schedule if equipment needs to be sized to manage the height restrictions, or if utilities need to be relocated.
- **Site clearing requirements.** Site clearing will be required over the footprint of the spillway structure, as well as additional requirements in order to facilitate construction (i.e., for laydown, equipment movements, access, etc.). The site clearing requirements have not been evaluated in detail at this stage; however, it is anticipated that the construction staging and methodology will aim to reduce site clearing and stripping needs.
- **Cofferdam construction.** There are many options available for construction of a cofferdam to maintain a safe and dry working area. At this conceptual design stage, there is little information available to confirm with certainty the approach that offers the best solution to maintain safety of the work area. Options include using earthen berms, sheet piles, inflatable systems, and portable dam systems. Lowering the water level to facilitate the works is also a potentially viable option. However, each option has its benefits and constraints, including health and safety, environmental, community / stakeholder, schedule and financial implications. The success of any approach requires availability of further detailed information including, but not limited to, site investigation data including confirmation of base contours, design of all the stages of the construction, analysis of loading conditions (during installation and operation), etc. All of which should be discussed within the regulatory framework for in-water works.
- **Excavation.** At present it is assumed that the material to be excavated to facilitate construction of the auxiliary spillway comprises a combination of overburden soils and weak bedrock. The presence of competent bedrock, potentially requiring blasting, will have a significant bearing on the cost of construction. As such, further intrusive investigation is required to inform this aspect of the design concept.
- **Other construction impacts.** A detailed assessment of potential risks and constraints from construction, including health and safety, environmental, cultural, financial, constructability, etc. should be assessed during design development. Requirements for environmental control including sediment and erosion measures, dewatering management, and water treatment have not been assessed in detail. However, an allowance has been included in the cost estimate for each item.

An environmental and cultural resources assessment has not been undertaken as part of this work.

4.3 Estimated Cost

4.3.1 Estimate Classification

Based on the current level of study and available information (in particular the lack of geotechnical information), a conceptual-level cost estimate for the proposed spillway concept construction has been developed as a Public Works Government Services Canada (PWGSC) Class C estimate, or Class 2 estimate according to the Association for the Advancement of Cost Engineering International (AACEI). A Class C estimate is based on a typical design development of 2% to 15% and has an expected accuracy in the order of -20% to +50%. A Class C estimate is considered to be sufficient for informing investment decisions and obtaining preliminary project approvals.

The costs have been based primarily on unit rates developed when preparing the cost estimate for the previous labyrinth weir design. The estimated cost for this option is **\$3.4M (range \$2.7M to \$5.1M)**, which excludes,

- Owners costs (investigations, design, construction management, permitting, etc.); and,
- Upgrades to Harewood Creek.

4.4 Further Work

In the event that this option is selected for further development, the following additional items of work are suggested in order to advance the design, assess construction and environmental impacts and refine the cost estimate;

- Assess geotechnical conditions as a basis for design development and construction cost estimating;
- Design development, including;
 - Alignment and design optimization;
 - Hydraulic, structural and geotechnical design, including further assessment of weir options and weir dimensioning;
 - Temporary works optimization, including cofferdam design;
- Constructability assessment and cost estimating, including construction staging and site area requirements;
- Assess potential need for hydraulic improvements to Harewood Creek;
- Assess environmental and cultural impacts; and,
- Aesthetics and landscape architecture evaluation as a means to minimize the intrusion of the structure.

5.0 CLOSURE

We trust that the factual information provided herein meets your present requirements. Should you have any questions regarding the above, please do not hesitate to contact us.

Yours very truly,

GOLDER ASSOCIATES LTD.

ORIGINAL SIGNED

Bruce R. Downing, P.Eng.
Principal

ORIGINAL SIGNED

Josh Myers, P.E.
Water Resources Engineer

ORIGINAL SIGNED

Katherine McCann
Construction Cost Estimator

BRD/kn

Attachments: Figure 1: Auxiliary Spillway To Harewood Creek Conceptual Plan
Figure 2: Auxiliary Spillway To Harewood Creek Conceptual Sections

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6.0 REFERENCES

Golder Associates Ltd. 2014. Report on "Colliery Dams – Hydraulics, Hydrology and Dam Breach Analysis", July 2014.

Water Management Consultants Inc. "City of Nanaimo Middle and Lower Chase River Dams Spillway Hydrology Study", April 30, 2002.

IMPORTANT INFORMATION AND LIMITATIONS OF THIS REPORT

Standard of Care: Golder Associates Ltd. (Golder) has prepared this report in a manner consistent with that level of care and skill ordinarily exercised by members of the engineering and science professions currently practising under similar conditions in the jurisdiction in which the services are provided, subject to the time limits and physical constraints applicable to this report. No other warranty, expressed or implied is made.

Basis and Use of the Report: This report has been prepared for the specific site, design objective, development and purpose described to Golder by the Client. The factual data, interpretations and recommendations pertain to a specific project as described in this report and are not applicable to any other project or site location. Any change of site conditions, purpose, development plans or if the project is not initiated within eighteen months of the date of the report may alter the validity of the report. Golder can not be responsible for use of this report, or portions thereof, unless Golder is requested to review and, if necessary, revise the report.

The information, recommendations and opinions expressed in this report are for the sole benefit of the Client. No other party may use or rely on this report or any portion thereof without Golder's express written consent. If the report was prepared to be included for a specific permit application process, then upon the reasonable request of the client, Golder may authorize in writing the use of this report by the regulatory agency as an Approved User for the specific and identified purpose of the applicable permit review process. Any other use of this report by others is prohibited and is without responsibility to Golder. The report, all plans, data, drawings and other documents as well as all electronic media prepared by Golder are considered its professional work product and shall remain the copyright property of Golder, who authorizes only the Client and Approved Users to make copies of the report, but only in such quantities as are reasonably necessary for the use of the report by those parties. The Client and Approved Users may not give, lend, sell, or otherwise make available the report or any portion thereof to any other party without the express written permission of Golder. The Client acknowledges that electronic media is susceptible to unauthorized modification, deterioration and incompatibility and therefore the Client can not rely upon the electronic media versions of Golder's report or other work products.

The report is of a summary nature and is not intended to stand alone without reference to the instructions given to Golder by the Client, communications between Golder and the Client, and to any other reports prepared by Golder for the Client relative to the specific site described in the report. In order to properly understand the suggestions, recommendations and opinions expressed in this report, reference must be made to the whole of the report. Golder can not be responsible for use of portions of the report without reference to the entire report.

Unless otherwise stated, the suggestions, recommendations and opinions given in this report are intended only for the guidance of the Client in the design of the specific project. The extent and detail of investigations, including the number of test holes, necessary to determine all of the relevant conditions which may affect construction costs would normally be greater than has been carried out for design purposes. Contractors bidding on, or undertaking the work, should rely on their own investigations, as well as their own interpretations of the factual data presented in the report, as to how subsurface conditions may affect their work, including but not limited to proposed construction techniques, schedule, safety and equipment capabilities.

Soil, Rock and Groundwater Conditions: Classification and identification of soils, rocks, and geologic units have been based on commonly accepted methods employed in the practice of geotechnical engineering and related disciplines. Classification and identification of the type and condition of these materials or units involves judgment, and boundaries between different soil, rock or geologic types or units may be transitional rather than abrupt. Accordingly, Golder does not warrant or guarantee the exactness of the descriptions.

Special risks occur whenever engineering or related disciplines are applied to identify subsurface conditions and even a comprehensive investigation, sampling and testing program may fail to detect all or certain subsurface conditions. The environmental, geologic, geotechnical, geochemical and hydrogeologic conditions that Golder interprets to exist between and beyond sampling points may differ from those that actually exist. In addition to soil variability, fill of variable physical and chemical composition can be present over portions of the site or on adjacent properties. **The professional services retained for this project include only the geotechnical aspects of the subsurface conditions at the site, unless otherwise specifically stated and identified in the report.** The presence or implication(s) of possible surface and/or subsurface contamination resulting from previous activities or uses of the site and/or resulting from the introduction onto the site of materials from off-site sources are outside the terms of reference for this project and have not been investigated or addressed.

Soil and groundwater conditions shown in the factual data and described in the report are the observed conditions at the time of their determination or measurement. Unless otherwise noted, those conditions form the basis of the recommendations in the report. Groundwater conditions may vary between and beyond reported locations and can be affected by annual, seasonal and meteorological conditions. The condition of the soil, rock and groundwater may be significantly altered by construction activities (traffic, excavation, groundwater level lowering, pile driving, blasting, etc.) on the site or on adjacent sites. Excavation may expose the soils to changes due to wetting, drying or frost. Unless otherwise indicated the soil must be protected from these changes during construction.

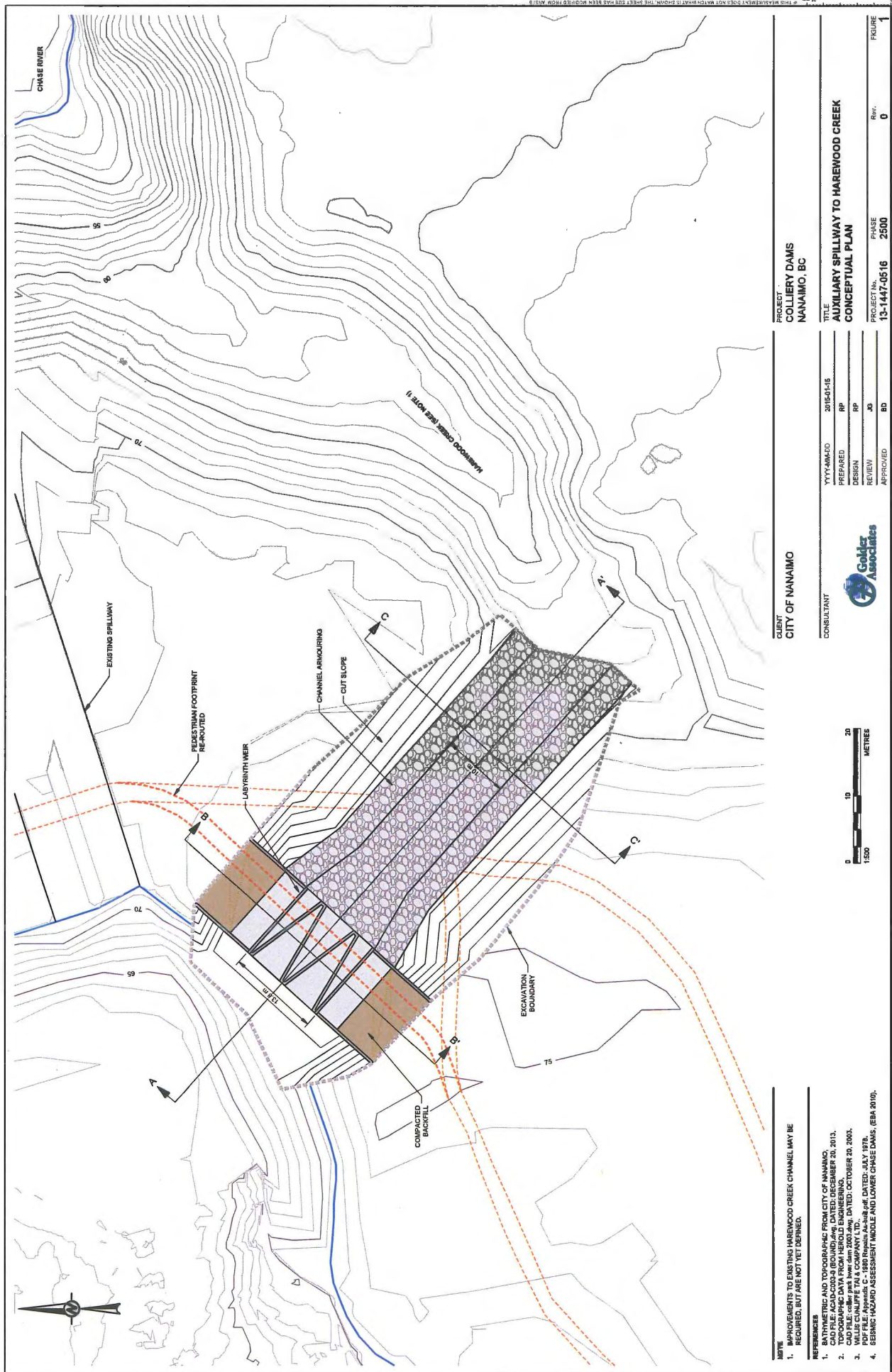
Sample Disposal: Golder will dispose of all uncontaminated soil and/or rock samples 90 days following issue of this report or, upon written request of the Client, will store uncontaminated samples and materials at the Client's expense. In the event that actual contaminated soils, fills or groundwater are encountered or are inferred to be present, all contaminated samples shall remain the property and responsibility of the Client for proper disposal.

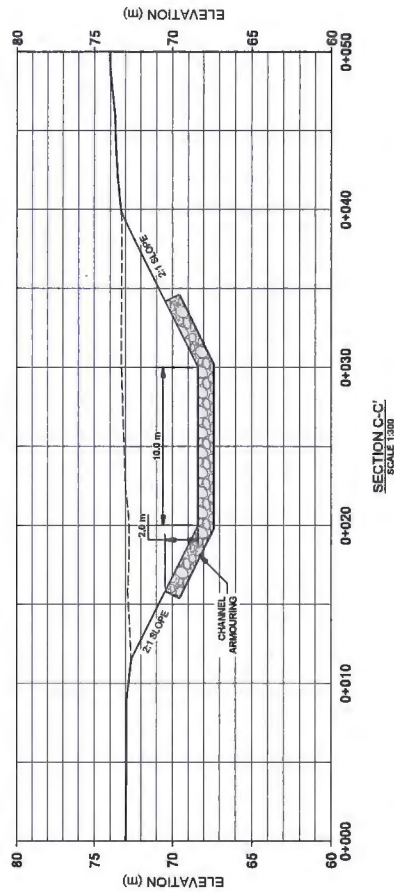
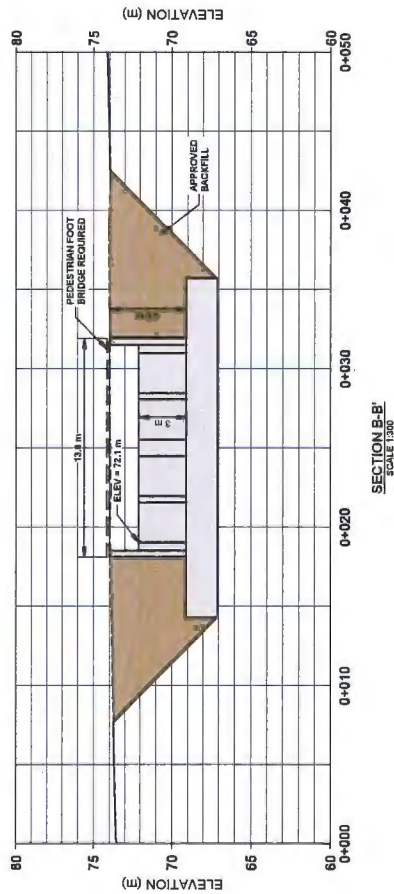
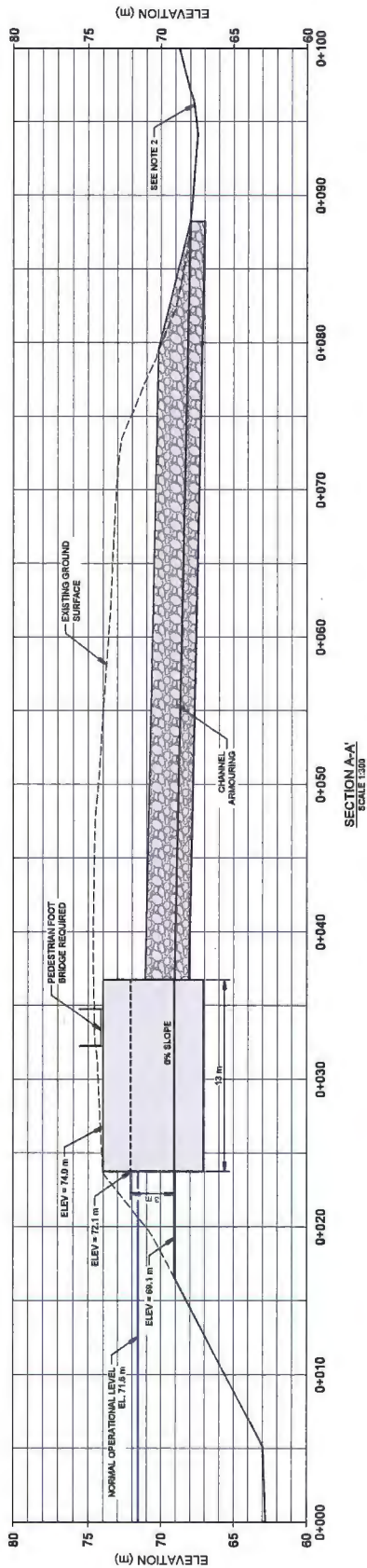
Follow-Up and Construction Services: All details of the design were not known at the time of submission of Golder's report. Golder should be retained to review the final design, project plans and documents prior to construction, to confirm that they are consistent with the intent of Golder's report.

During construction, Golder should be retained to perform sufficient and timely observations of encountered conditions to confirm and document that the subsurface conditions do not materially differ from those interpreted conditions considered in the preparation of Golder's report and to confirm and document that construction activities do not adversely affect the suggestions, recommendations and opinions contained in Golder's report. Adequate field review, observation and testing during construction are necessary for Golder to be able to provide letters of assurance, in accordance with the requirements of many regulatory authorities. In cases where this recommendation is not followed, Golder's responsibility is limited to interpreting accurately the information encountered at the borehole locations, at the time of their initial determination or measurement during the preparation of the Report.

Changed Conditions and Drainage: Where conditions encountered at the site differ significantly from those anticipated in this report, either due to natural variability of subsurface conditions or construction activities, it is a condition of this report that Golder be notified of any changes and be provided with an opportunity to review or revise the recommendations within this report. Recognition of changed soil and rock conditions requires experience and it is recommended that Golder be employed to visit the site with sufficient frequency to detect if conditions have changed significantly.

Drainage of subsurface water is commonly required either for temporary or permanent installations for the project. Improper design or construction of drainage or dewatering can have serious consequences. Golder takes no responsibility for the effects of drainage unless specifically involved in the detailed design and construction monitoring of the system.





- NOTES**
- STRUCTURE DIMENSIONS ARE CONCEPTUAL AND NOT YET DEFINED.
 - IMPROVEMENTS TO EXISTING HAREWOOD CREEK CHANNEL MAY BE REQUIRED, BUT ARE NOT YET DEFINED.
- REFERENCES**
- BATHYMETRIC AND TOPOGRAPHIC FROM CITY OF NANAIMO, CAD FILE ACAD-C003-3 (BOUNDARY) JWG, DATED: DECEMBER 20, 2012.
 - TOPOGRAPHIC DATA FROM HEROLD ENGINEERING, CAD FILE 2001-1001 (PLOT AREA) JWG, DATED: OCTOBER 20, 2003.

CLIENT
CITY OF NANAIMO

PROJECT
COLLIERY DAMS
NANAIMO, BC

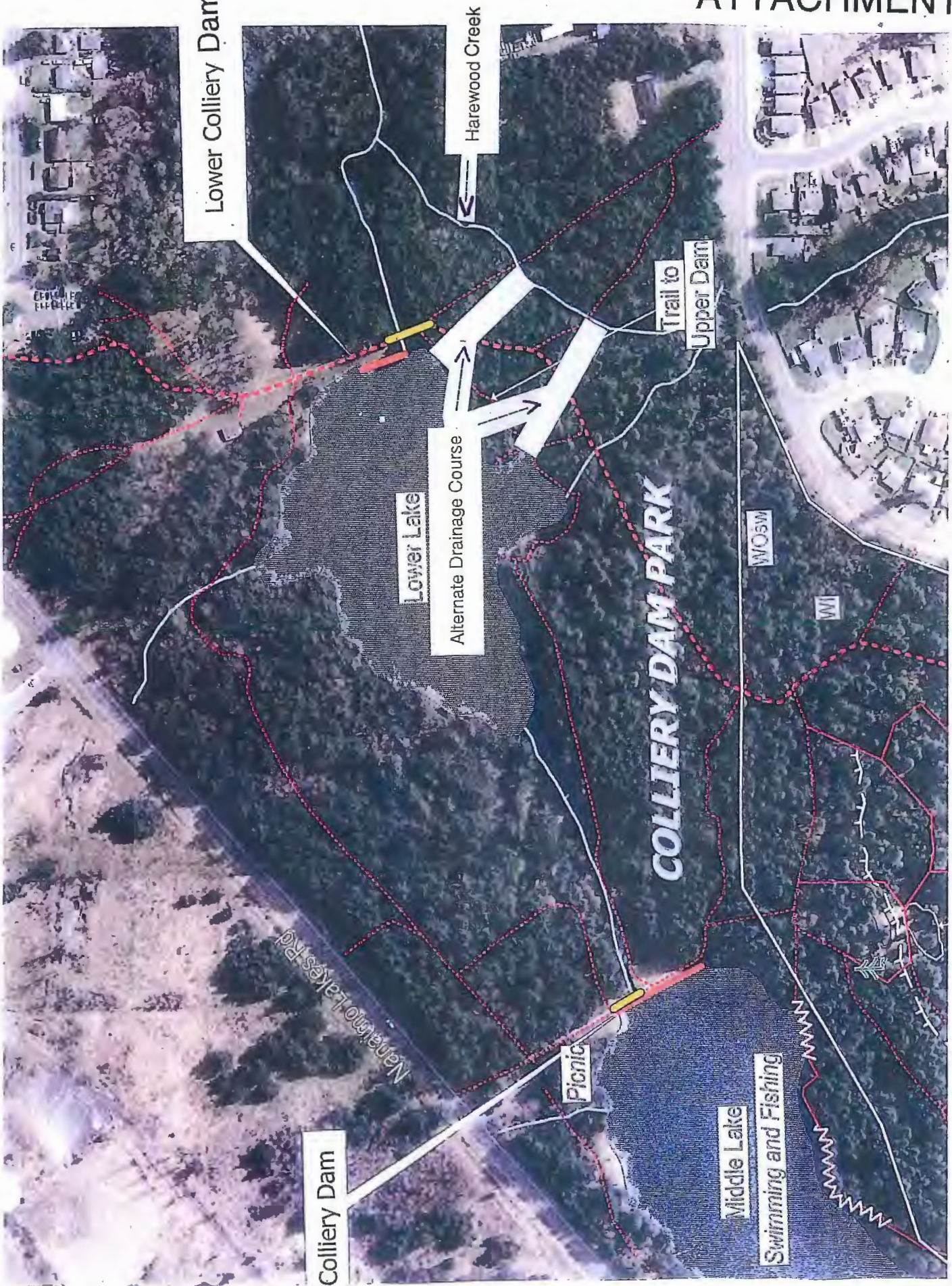


YTY-MACD	2016-01-15
PREPARED	RP
DESIGN	RP
REVIEW	JS
APPROVED	BD

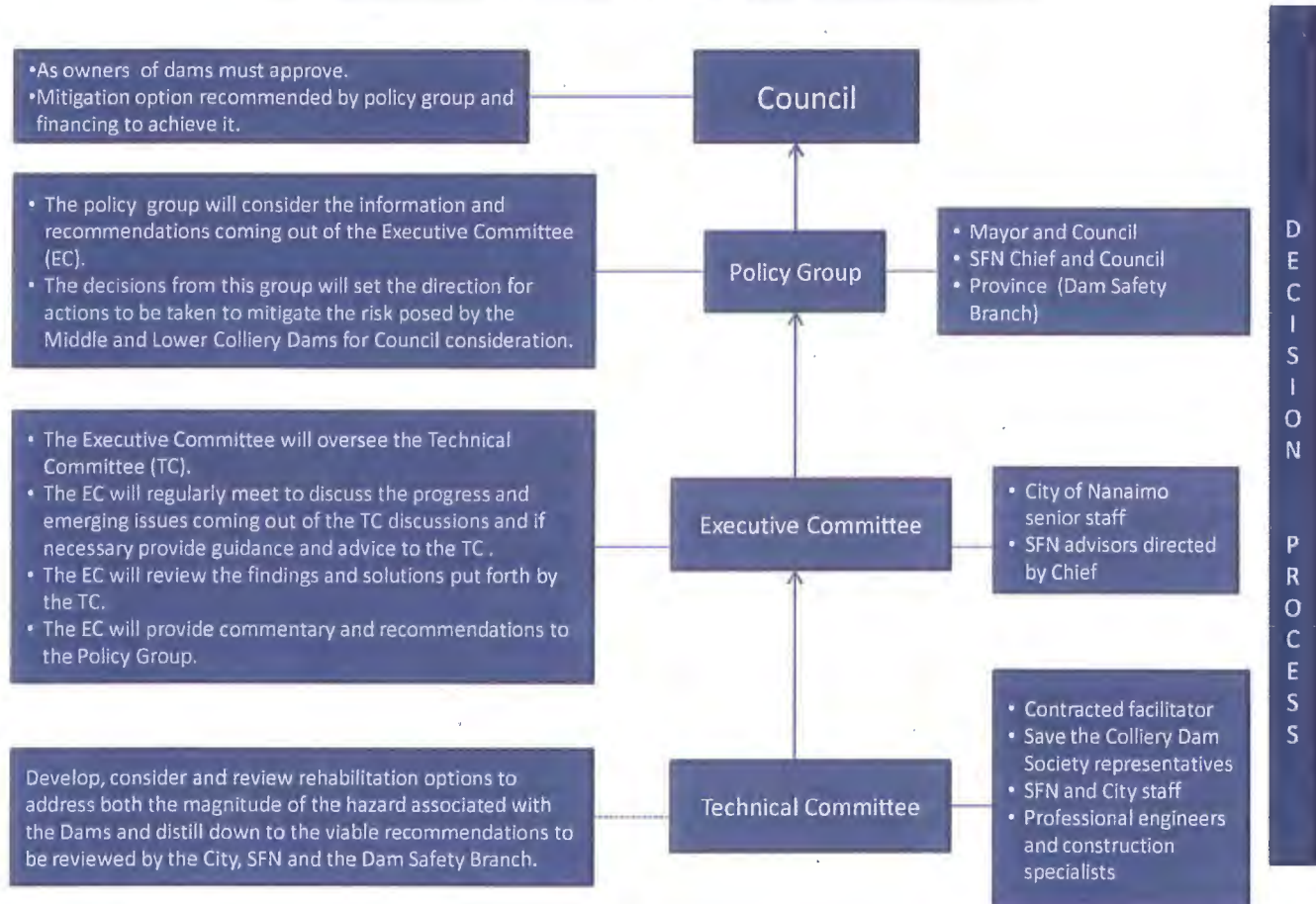
TITLE
AUXILIARY SPILLWAY TO HAREWOOD CREEK
CONCEPTUAL SECTIONS

PROJECT No.	13-1447-0516	PHASE	2300	Rev.	0	FIGURE	2
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Long-Term Mitigation Processing Structure



Schedule for Long-Term Mitigation of Colliery Dams

Dec 2013 – completion of Phase 1 (review and verify data)

Feb 2014 – completion of Phase 2 (develop options to remediate dams in place)

Mar 2014 – completion of Phase 3 (short-term mitigation plan involving alterations to the dams, if required)

Apr 2014 – initiate design and referrals on Phase 3 (if required)

Jun 2014 – tender and award contract for short-term improvements to the dams (if required)

Jun 2014 – complete review of Phase 2 options and seek approval of Executive and policy group

Jul 2014 – owner (Council) to make final decision on direction to pursue

Sep 2014 – completion of short-term mitigation plan involving physical alterations to the dams (if required)

Nov 2014 – electoral assent for long-term borrowing to fund the project (if required)

Dec 2014 – initiate design and referral for construction for long-term mitigation

Apr 2015 – completion of construction drawings, referrals and permits for long-term mitigation

May 2015 – tender and award contract to proceed with the approved design for long-term mitigation

Jun-Sep 2015 – construction of long-term mitigation improvements

City of Nanaimo
REPORT TO COUNCIL

DATE OF MEETING: 2015-Jan-26

AUTHORED BY: Rod Davidson
Assistant Manager of Bylaw, Regulation & Security

RE: ANIMAL CONTROL – Standards and Care of Dogs

STAFF RECOMMENDATION:

That Council direct Staff to:

1. prepare guidelines for dog owners that encourage responsible pet ownership; and
2. continue with current bylaw requirements regarding dogs and address this issue as part of an upcoming Core Review.

PURPOSE:

To provide information on expanding the Animal Control Bylaw to include sections on the welfare of dogs.

BACKGROUND:

A submission was received by Council from the BCSPCA on 2014-Aug-18 requesting the City consider new dog control regulations to address animal welfare including enforcement action for unattended dogs in hot vehicles and for dog tethering.

DISCUSSION:

In its presentation to Council, the BCSPCA stated that out of 161 Municipalities and 28 regional districts in BC, 60 municipalities and 2 regional districts have Basic Standards of Care and Housing incorporated into their bylaws. Forty-nine municipalities and 1 regional district prohibit inadequate or dangerous tethering and 15 set the maximum number of hours a dog can be tethered. In addition, some municipalities regulate the sanitary conditions, size of housing, and food and water for dogs.

Currently complaints regarding dogs that may be in distress are dealt with by the RCMP and the BCSPCA. The City's contractor has been attending these calls if the BCSPCA is unavailable. As there is no law prohibiting dogs being unattended in vehicles, it is imperative that any amendment contemplated by Council include specific guidelines on what conditions would warrant extraction of an animal from a vehicle. At this time, City bylaw officers have no authority to remove dogs from hot vehicles.

According to the SPCA, 41 municipalities and 1 regional district require adequate ventilation for animals, particularly in vehicles. In our research, no standard has been determined on what constitutes adequate. In discussion with our Animal Control contractor, it is estimated we could receive up to 100 calls in relation to unattended animals left in vehicles, with an estimated cost to the City of \$25,000.00 for staffing, feeding and housing for impounded animals.

☐ Council
☒ Committee of the Whole
☒ Open Meeting
☐ In-Camera Meeting
Meeting Date: 2015-JAN-26

The BCSPCA presently investigates complaints regarding the care/welfare of dogs. Currently City bylaws do not regulate the welfare of domestic pets. This is covered by senior levels of government under the Cruelty to Animals section of the Criminal Code. If the City adopts regulations regarding the care of dogs, there will be a need for increased enforcement as the number of calls will increase with an expectation of action by the City.

The current animal control contract is not sufficient to cover the anticipated increase in service requirements to address care/welfare of dogs. An increase in workload to respond to dog care type of calls will necessitate increasing the amount of contracted resources required to meet the additional need. It is anticipated that a portion of the costs for the increased service will be recovered through fines and impound fees.

OPTIONS:

1. prepare guidelines for dog owners that encourage responsible pet ownership; and
2. continue with current bylaw requirements regarding dogs and address this issue as part of an upcoming Core Review; or
3. direct staff to draft amendments to the current Animal Control Bylaw to include standards of care for dogs.

SUMMARY:

Staff reviewed the City's current Animal Control Bylaw and other local government bylaws pertaining to dogs. This review confirmed that enacting bylaw changes to address dogs left in hot vehicles and tethering will have limited success and raise the public's expectation that the City will be able to successfully address this issue. Staff believes a logical initial step is to prepare a guideline jointly with the BCSPCA for dog owners outlining best practices in addressing dog car/welfare issues noted in this report. The guideline would be distributed by City and BCSPCA staff and when dog licences are issued.

Respectfully submitted:


For Rod Davidson
Assistant Manager
Bylaw, Regulation & Security

Concurrence by:



T. Seward
Acting General Manager
Community Development and Protective Services

CITY MANAGER COMMENT:

I concur with the staff recommendation.

Drafted: 2015-Jan-19
g:\reports2015\dogs(3).doc
RD/gh

City of Nanaimo

REPORT TO COUNCIL

DATE OF MEETING: 2015-Jan-26

AUTHORID BY: Rod Davidson, Assistant Manager
Assistant Manager, Bylaw, Regulation & Security

RE: ANIMAL CONTROL – CAT REGULATIONS

STAFF RECOMMENDATION:

That Council direct Staff to make no amendments to the Animal Control and Regulation Bylaw regarding cats.

PURPOSE:

To provide information on expanding the Animal Control Bylaw to include sections on the licensing and regulation of cats.

BACKGROUND:

Submissions were received from the BCSPCA on 2014-Aug-18 and CatNap on 2014-Nov-03 requesting the City enact new animal control regulations. Council directed staff to prepare a report regarding the feasibility of licensing and identification of cats and amending the Animal Control and Regulation Bylaw for a mandatory cat spay/neuter program.

DISCUSSION:

Currently, the City has no regulations for cats other than a person cannot have a cat with an infectious or contagious disease. In the course of researching the feasibility and effectiveness of regulating cats by bylaw, it became apparent that very few BC municipalities regulate cats. The bylaws tend to be costly and difficult to enforce. Of the 43 municipalities summarized by the BCSPCA's review "B.C.'s Municipal Animal Bylaws" 11% have mandatory sterilization regulations and 23% regulate licensing and identification. A majority of the municipalities contacted indicated that voluntary compliance is low. The City of North Vancouver recommended the repeal of their Cat Regulation Bylaw in 2013 as a result of low compliance and of increased costs to manage cats that are found, surrendered or seized.

Should Council adopt the BCSPCA and CatNap recommendations in the Animal Control and Regulation Bylaw, there will be increased costs for additional administration, shelter resources and enforcement, including:

- administration, follow up and enforcement for cat licences/registration and breeding permits;
- administration, follow up and enforcement of unsterilized cats;
- housing of additional cats at the shelter;
- sterilization by a veterinarian of adoptable shelter cats;
- veterinarian services for additional cats and, in some circumstances, to determine if a cat is spayed or neutered

- increased calls and the subsequent investigations; and
- additional staff requirements - full time Animal Control Officer and part time office assistance

Overall estimate of costs associated with the implementation of cat regulations is estimated to be approximately \$150,000.00 per year, but could be higher.

OPTIONS:

That Council:

1. Make no amendments to the Animal Control and Regulation Bylaw regarding cats; or
2. direct staff to draft amendments to the current Animal control bylaw to include regulations applicable to cats.

SUMMARY:

Staff have reviewed a number of aspects of regulating cats including cat predation which can be provided to Council in a future report if bylaw changes are to be considered. Staff recommend bylaw amendments related to cats not be pursued as such bylaws are difficult to enforce, have been unsuccessful in a number of other communities and will be costly to enforce.

Respectfully submitted:



Rod Davidson
Assistant Manager
Bylaw, Regulation & Security

Concurrence by:



T. Seward
Acting General Manager
Community Development and Protective Services

CITY MANAGER COMMENT:

I concur with the staff recommendation.

Drafted: 2015-Jan-21
g:\reports2015\cats(3).doc
RD/gh

City of Nanaimo

REPORT TO COUNCIL

DATE OF MEETING: JANUARY 26, 2015

AUTHORED BY: S. RICKETTS, MANAGER, CONSTRUCTION

RE: HOSPITAL AREA TRANSPORTATION AND UTILITY REPLACEMENT TENDER

STAFF RECOMMENDATION:

That Council receive for information the report regarding the Hospital Area Transportation and Utility Replacement Tender.

PURPOSE:

In accordance with the City's Purchasing Bylaw, this report is to advise Council of a public tender call of \$250,000 and above.

DISCUSSION:

This tender combines two projects, Boundary Avenue Corridor and Utility Project, and the Beaufort Park Utility Project. The improvements and renewals include:

- A new sidewalk on Boundary Crescent from Townsite Road to Graham Crescent,
- Dedicated cycling facilities on Bush Street, Pryde Avenue, Townsite Road, Boundary Crescent and Boundary Avenue,
- Underground utility renewal (watermains, sanitary sewers and storm sewers) on Townsite Road, Boundary Crescent, St. Patrick Crescent, Beaufort Drive, Lorne Place, McDonald Crescent, Waddington Road, St. George Crescent and Seafeld Crescent
- Crosswalk improvements on Townsite Road, Boundary Crescent and Boundary Avenue.

Tender preparation is underway. Construction will occur between March and December. The cycling facilities and road paving along Pryde and Bush Streets, from Bowen Road to Townsite Avenue will be completed through the City's Road Rehabilitation program.

A public information meeting was held on October 28, 2014. Feedback from this meeting and more project information is posted on the City website, (<http://www.nanaimo.ca/goto/HospitalArea>). General project details are provided on the attached information sheets.

These projects will impact major road access to the hospital area and also impact available on street parking in the construction zones. No major road closures are anticipated, though there will be temporary short term detours to install utility road crossings. At times Boundary Avenue, Waddington Avenue, Townsite Road and Dufferin Crescent may be down to single lane alternating traffic. Staff will consult with RDN Transit, NRGH, emergency services, and local businesses. Properties impacted from the construction will receive project notices.

Council gave these projects early budget approval on January 12, 2015. The project budgets and funding sources are detailed on the attached project sheets.

Strategic Plan Consideration

This action supports Council's Strategic Plan for Asset Management and for Transportation and Mobility.

Respectfully submitted,

Concurrence by:



S. Ricketts, Manager
Construction Department



G. Goodall, Director
Engineering & Public Works



R. Harding, Director
Parks, Recreation & Environment

CITY MANAGER COMMENT:

I concur with the staff recommendation.

Engineering and Public Works Project Summary Sheet

Concurrent Project:	Beaufort Park Utility Project - Construction Phase		
Components:	P-5177	Beaufort Park Area Drainage	
	P-6161	Beaufort Park Area Sanitary Sewer	
	P-7262	Beaufort Park Area Watermain	
Budget:	Drainage		\$ 100,000
	Sanitary Sewer		\$ 2,000,000
	Watermain		\$ 1,325,000
			<u>\$ 3,425,000</u>
Funding:	General Taxation		\$ 100,000
	Sewer Reserves		\$ 1,000,000
	Sewer Fund Asset Management Reserve		\$ 1,000,000
	Water Fund Asset Management Reserve		\$ 1,000,000
	Water Reserves		\$ 325,000
			<u>\$ 3,425,000</u>
Asset Category:	Renewal		
Project Description:	Replacement of deteriorated drainage, sanitary sewer and water utilities, to address operating and maintenance issues due to settlement of peat and clay in area.		

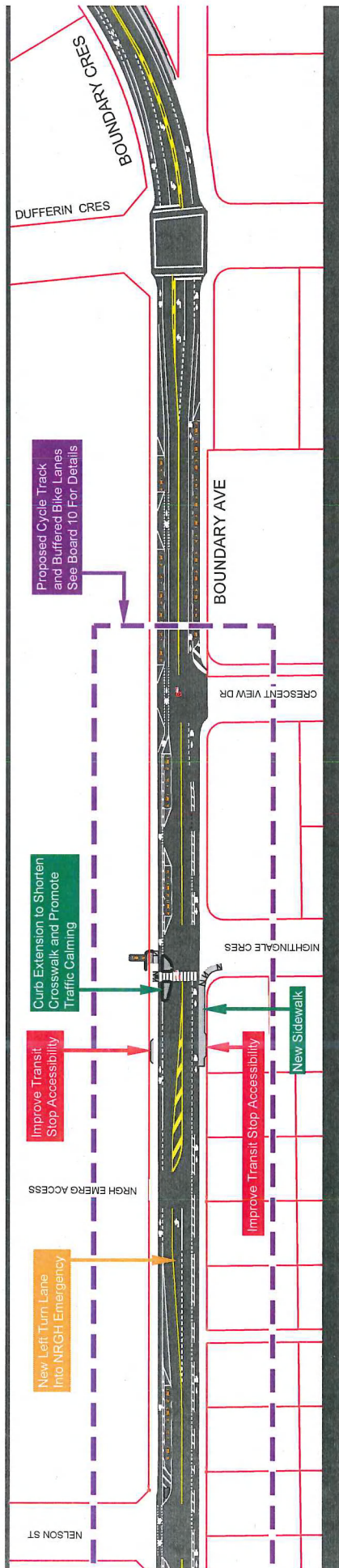
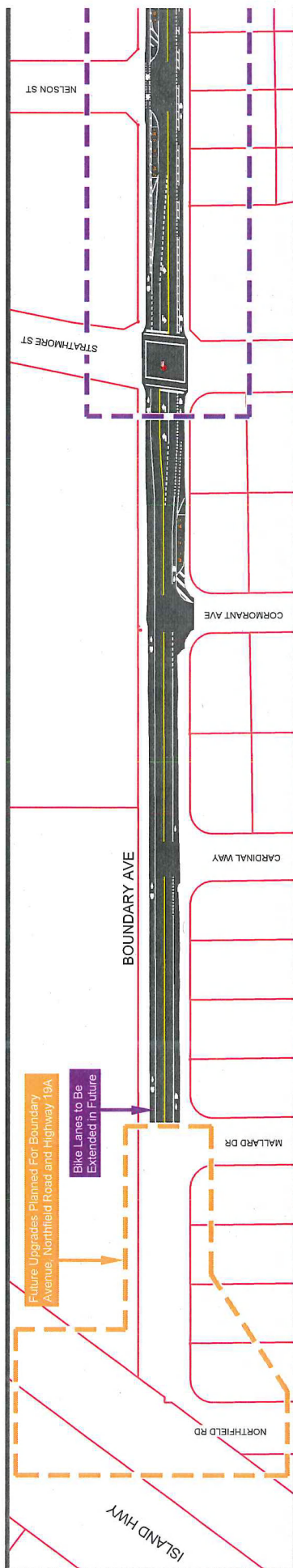
Concurrent Project:
Project Map:

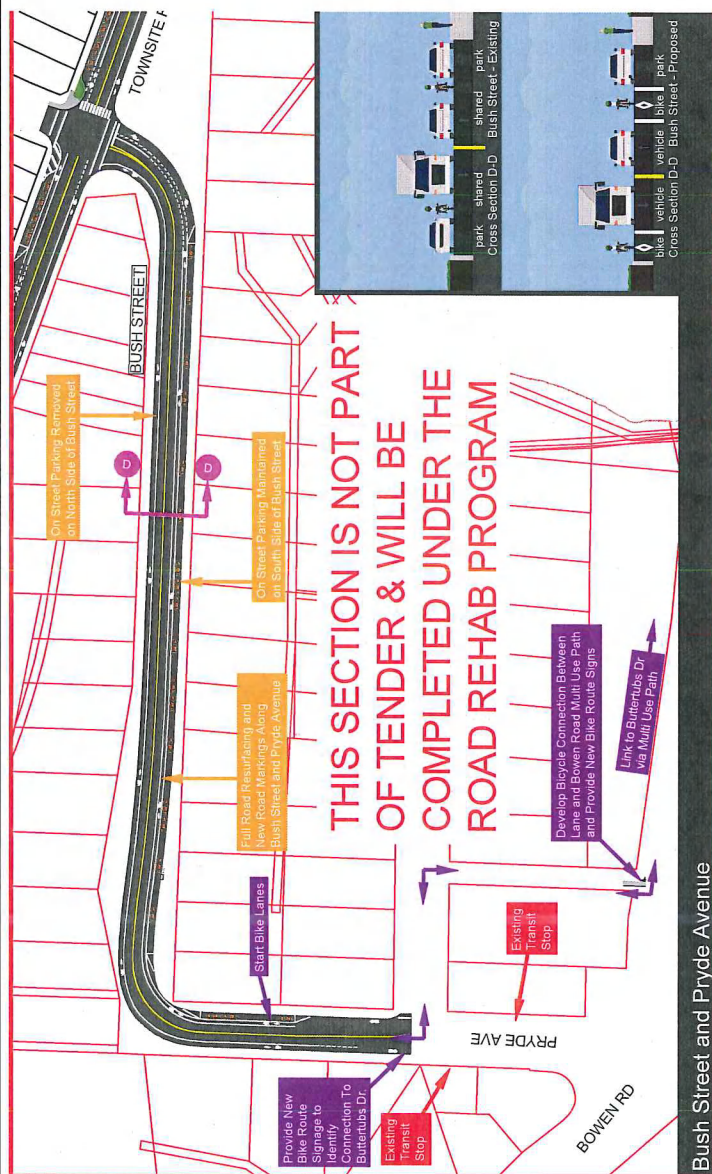
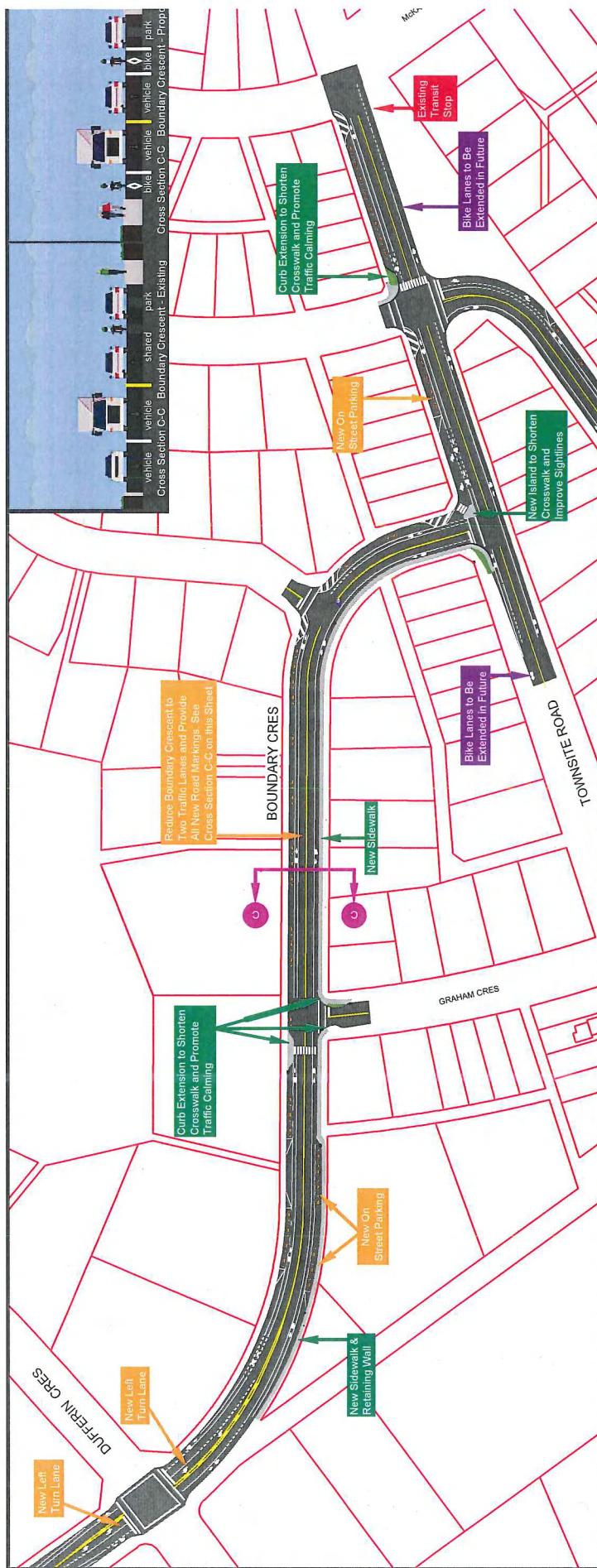


Engineering and Public Works Project Summary Sheet

Concurrent Project:	Boundary Ave Corridor and Utility Project - Construction Phase		
Components:	P-5198	Bowen to Northfield Cycling, Transit and Pedestrian & Bowen to Townsite Road Rehab	
	P-7279	Townsite and Boundary PRV	
	P-7356	Boundary Ave Corridor Utility Project - Watermain	
Budget:	Transportation - Cycling Lane	\$	42,500
	Transportation - Pedestrian	\$	480,000
	Transportation - Road Rehab	\$	391,000
	Transportation - Transit	\$	10,000
	Water - Pressure Reducing Value (PRV)	\$	150,000
	Watermain	\$	456,600
		\$	<u>1,530,100</u>
Funding:	General Fund Asset Management Reserve	\$	923,500
	Water Reserves	\$	606,600
		\$	<u>1,530,100</u>
Asset Category:	Renewal		
Project Description:	This project will include several transportation improvements as well as replacement of an existing PVR station and watermain. Transportation improvements include - road surface rehabilitation from Bowen Road to Townsite Road with cycling lanes installed on Bush Street, Townsite Road and Boundary Crescent, a new sidewalk along the southwesterly side of Boundary Crescent between Townsite and Dufferin Crescent, crosswalk improvements to reduce pedestrian exposure to vehicle traffic and bus stop amenities. The cast iron watermain between Graham to St. Patrick and Townsite to Graham will be also be replaced to meet new standards and to address watermain break, along with the replacement of the PRV at Townsite and Boundary.		

Project Map: Transportation Upgrades





Delegation Request

Allan Boos has requested an appearance before council.

The requested date is Jan 12, 2015.

The requested meeting is:
Council

Presenter's information

City: Nanaimo
Province: British Columbia
Bringing a presentation: No

Details of Presentation:

I would like a chance to bring up the inconsistencies with current bylaws surrounding mobile vendor licences in the city. Currently the city only offers vendor licences to flower vendors or food vendors. There is no ignoring the multiple local artisans down at the harbourfront selling wares in the summer. Where do the laws end, and where are the limits? I think its time the city revisited the policy on retail locations on city parks, It would not only give vendors a legitmant place they could show off their wares, but also open up the city to recieving a monitary income that could be directed at maintaining the very parkland thats being used the most in this city.

☐ Council	Agenda Item	☒
☒ Committee... <i>CAW</i> ...	Delegation	☒
☒ Open Meeting	Proclamation	☐
☐ In-Camera Meeting	Correspondence	☐
Meeting Date: <u>2015-JAN-26</u>		