REGULAR COUNCIL MEETING – AGENDA

Agenda for the Regular Council Meeting scheduled for
Tuesday, July 5, 2022, at 7:00 p.m. in **Gymnasium at Anmore Elementary School, 30 Elementary Road,** Anmore, BC

NOTE: Members of the public not attending in person may view our Regular Council meeting by accessing the meeting via our YouTube channel. For those who are not attending in person, questions/comments under* Item 3 Public Input, or Item 17 Public Question Period *may be submitted up to 4:00pm on meeting days to karen.elrick@anmore.com to be read by the Corporate Officer during the meeting.

https://www.youtube.com/channel/UCeLV-BY6qZzAVEKX5cMWcAQ?view_as=subscriber

THIS MEETING'S PROCEEDINGS WILL BE BROADCAST LIVE VIA YOUTUBE AND AVAILABLE AS A RECORDED ARCHIVE ON THE VILLAGE WEBSITE

---

1. Call to Order

2. Approval of the Agenda

Recommendation: That the Agenda be approved as circulated.

3. Public Input

**Note: The public is permitted to provide comments to Council on any item shown on this meeting agenda. A two-minute time limit applies to speakers.*

4. Delegations

(a) FireSmart Program Presentation

Tamara Mayers, FireSmart Coordinator to provide presentation on FireSmart and FireSmart assessment program.

(b) Hal Weinberg Scholarship Presentation

Council to present the scholarship award to the 2022 recipients.

5. **Adoption of Minutes**

page 4 **(a) Minutes of the Regular Council Meeting held on June 21, 2022**

Recommendation: That the Minutes of the Regular Council Meeting held June 21, 2022 be adopted, as circulated.

6. **Business Arising from Minutes**

7. **Consent Agenda**

Note: Any Council member who wishes to remove an item for further discussion may do so at this time.

Recommendation: That the Consent agenda be adopted.

page 8 **(a) 2022 Eligible School Sites Proposal Resolution**

Recommendation: That Council accept the School District No. 43 Board's 2022 proposed eligible school site requirements.

8. **Items Removed from the Consent Agenda**

9. **Legislative Reports**

None.

10. **Unfinished Business**

None.

11. **New Business**

page 14 **(a) Village of Anmore 2021 Water Quality Report**

Recommendation: That Council receive the Village of Anmore 2021 Annual Water Quality Report, for information.

page 44 **(b) Additional Capital Request – 2022 Capital Works**

Report dated June 29, 2022 from the Engineering Consultant, attached.

(c) Appointment of Chief Financial Officer

Recommendation: That Lena Martin be appointed as the Chief Financial Officer for the Village of Anmore pursuant to section 149 of the Community Charter

12. Items from Committee of the Whole, Committees, and Commissions

None.

13. Mayor's Report

14. Councillors Reports

15. Chief Administrative Officer's Report

16. Information Items

(a) Committees, Commissions and Boards – Minutes

page 47
- Minutes of the Public Hearing held on June 21, 2022

(b) General Correspondence

page 50
- Communication dated June 16, 2022 from Town of Gibsons regarding Hospice Services Funding – UBCM resolution from Town of Gibsons

17. Public Question Period

**Note: The public is permitted to ask questions of Council regarding any item pertaining to Village business. A two-minute time limit applies to speakers.*

18. Adjournment

REGULAR COUNCIL MEETING – MINUTES

Minutes for the Regular Council Meeting scheduled for Tuesday, June 21, 2022, following the close of the Public Hearing scheduled at 7:00 p.m. in **Gymnasium at Anmore Elementary School, 30 Elementary Road,** Anmore, BC

ELECTED OFFICIALS PRESENT

Mayor John McEwen
Councillor Polly Krier
Councillor Tim Laidler
Councillor Kim Trowbridge

ABSENT

Councillor Paul Weverink

OTHERS PRESENT

Juli Halliwell, CAO
Lena Martin, Manager of Financial Services
Chris Boit, Manager of Development Services

1. Call to Order

The meeting was called to order at 7:08 p.m.

2. Approval of the Agenda

It was MOVED and SECONDED:

R068/22 That the Agenda be approved as circulated.

Carried Unanimously

3. Public Input

**Note: The public is permitted to provide comments to Council on any item shown on this meeting agenda. A two-minute time limit applies to speakers.*

4. Delegations

None.

5. Adoption of Minutes

(a) Minutes of the Regular Council Meeting held on June 7, 2022

It was MOVED and SECONDED:

R069/22 That the Minutes of the Regular Council Meeting held on June 7, 2022 be adopted, as circulated.

Carried Unanimously

6. Business Arising from Minutes

7. Consent Agenda

None.

8. Items Removed from the Consent Agenda

9. Legislative Reports

(a) Zoning Bylaw Updates

It was MOVED and SECONDED:

R070/22 That Council give third reading and adopt Anmore Zoning Amendment Bylaw 661-2022.

That Council give third reading and adopt Anmore Zoning Amendment Bylaw 662-2022.

Carried Unanimously

(b) 2021 Annual Report Presentation

It was MOVED and SECONDED:

R071/22 That Council approve the 2021 Annual Report, as attached to the agenda.

Carried Unanimously

(c) Management Report and Statement of Financial Information

It was MOVED and SECONDED:

R072/22 That Council approve the Management Report and Statement of Financial Information, as attached to the agenda.

Carried Unanimously

10. Unfinished Business

None.

11. New Business

None.

12. Items from Committee of the Whole, Committees, and Commissions

None.

13. Mayor's Report

Mayor McEwen reported that:

- Participated in Youth Bingo
- BC Hydro is implementing a reservation system for access to Buntzen Lake beginning June 27, passes can be booked for free at bchydro.com/buntzen

14. Councillors Reports

None.

15. Chief Administrative Officer's Report

Ms. Juli Halliwell, CAO, reported that:

- Excavation is completed for Anmore Community Hub; construction team is mobilizing to start on forms & footings
- Property tax due date is July 4, Homeowner Grants must be submitted directly to the Province of BC
- Working with BC Hydro to address initial impacts from the implementation of reservation system
- Hemlock paving project is being negotiated with the contractor due to the significant

cost escalations due to increased oil prices.

16. Information Items

(a) Committees, Commissions and Boards – Minutes

None.

(b) General Correspondence

- Communication dated June 2022 from Conservative Shadow Minister for Rural Economic Development regarding federal government support for small rural communities.

17. Public Question Period

None.

**Note: The public is permitted to ask questions of Council regarding any item pertaining to Village business. A two-minute time limit applies to speakers.*

18. Adjournment

It was MOVED and SECONDED:

R073/22 That the meeting be adjourned at 7:21 p.m.

Carried Unanimously

_____ _____

Karen Elrick
Corporate Officer

John McEwen
Mayor

SCHOOL DISTRICT 43 Coquitlam
Learning for a Lifetime

550 Poirier Street, Coquitlam, BC Canada V3J 6A7 • Phone: 604-939-9201 • Fax: 604-939-6758

June 28, 2022

Mr. Peter Steblin, City Manager
City of Coquitlam
managersoffice@coquitlam.ca

Ms. Juli Halliwell, Chief Administrative Officer
Village of Anmore
juli.halliwell@anmore.com

Mr. Tim Savoie, City Manager
City of Port Moody
tsavoie@portmoody.ca

Ms. Lorna Dysart, Chief Administrative Officer
Village of Belcarra
ldysart@belcarra.ca

Mr. Rob Bremner, Chief Administrative Officer
City of Port Coquitlam
bremnerr@portcoquitlam.ca

Dear Chief Administrative Officers and City Managers:

Re: 2022 Eligible School Sites Proposal Resolution

The district's 2021 Eligible School Site Proposal (ESSP) Resolution was passed by the Board of Education on June 21, 2022.

In this package, you will find a copy of the resolution along with the corresponding schedules for acceptance.

Pursuant to the Act, local governments have 60 days to either:

1. Pass a resolution accepting the Board's proposed eligible school site requirements; or

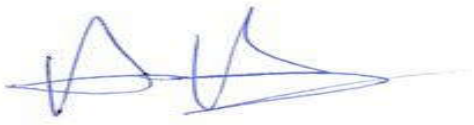
2. Respond in writing to the Board indicating that it does not accept the Board's proposed site requirements by listing each school site it objects and the reasons for the objection.

If no response is received within 60 days from the date, which the Board of Education passed the resolution, the legislation states that the local government will have deemed to accept the proposal. An amended capital bylaw with the new SSAC rates will be adopted by the Board of

Education in September 2022, giving the local governments a 60-day grace period before the bylaw will come into effect.

Should you have any questions on the above, please contact myself or Kimberley Wakil, Manager of Financial Services, at 604-939-9201.

Yours truly,
SCHOOL DISTRICT NO. 43 (COQUITLAM)



Mohammed Azim
Secretary-Treasurer/CFO

Attach: ESSP Resolution; Schedule A; Schedule B

cc: Nita Mikl, Assistant Secretary-Treasurer
Ivano Cecchini, Executive Director – Facilities and Planning Services
Kimberley Wakil, Manager, Financial Services

Board of Education of
School District No. 43 (Coquitlam)

2022 Eligible School Sites Resolution

The Eligible School Sites Proposal is a required component of the capital plan submission, which must be passed annually by Board resolution and referred to local governments in the District for acceptance pursuant to the *Local Government Act*.

Pursuant to the Act, the school district has consulted with local governments with respect to the following information:

1) Projections by municipalities of the number of eligible development units to be authorized or created in School District No. 43 (Coquitlam) in the 10 year time frame, 2022-2032, pursuant to Section 142 of the School Act for school site acquisition planning (Schedule 'A' Table A-1 and A-2 attached);

2) A projection of the number of children of school age, as defined in the School Act, that will be added to the school district as the result of the eligible development units projected in paragraph (1) (Schedule 'A' Table A-3, A-4 attached);

3) The approximate size and number of school sites required to accommodate the number of children projected under paragraph (2) (Schedule 'B' attached); and

4) The approximate location and value of the school sites referred to in paragraph (3) (Schedule 'B' attached).

WHEREAS the Board of Education of School District No. 43 (Coquitlam) has consulted with representatives from the development industry and staff for the City of Coquitlam, City of Port Coquitlam, City of Port Moody, Village of Anmore and Village of Belcarra on these matters;

IT IS RESOLVED THAT:

1) Based on information from local government, the Board of Education of School District No. 43 (Coquitlam) estimates that there will be 28,509 **new development units** constructed in the School District over the next 10 years (Schedule 'A');

2) These 28,509 new development units will be home to an estimated 5,774 **school age children** (Schedule 'A');

3) The School Board expects that **6 new school sites,** over the 10 year period, will be required as a result of the growth within the School District as represented in Schedule 'B';

4) According to Ministry of Education site standards presented in Schedule 'B' the sites will require a total of **11.1 hectares** of land. These sites are expected to be purchased within 5 years and, at current serviced land cost, the land will **cost approximately $161,195,087**;

5) The Eligible School Site Proposal be incorporated in the 5 Year Facility Capital Budget **2023-2027** and submitted to the Ministry of Education and Child Care.

Chair of the Board

Secretary-Treasurer

I HEREBY CERTIFY this to be a true original of a resolution passed by the Board of Education of School District No. 43 (Coquitlam) at a regular meeting held June 21, 2022.

Secretary-Treasurer

2022-2032
SCHEDULE 'A'

Table A-1: Growth Forecasts -Housing Units By Type - 10 year forecast by s 2022-2032

Estimates by school year	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	10 yr. Total	Total Units
VILLAGE OF ANMORE												*210*
Single Detached	21	21	21	21	21	21	21	21	21	21	**210**	
Mobile Home	0	0	0	0	0	0	0	0	0	0	**-**	
Row House	0	0	0	0	0	0	0	0	0	0	**-**	
Low Rise Apart./suites	0	0	0	0	0	0	0	0	0	0	**-**	
High Rise Apart.	0	0	0	0	0	0	0	0	0	0	**-**	
VILLAGE OF BELCARRA	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	**10 yr. Total**	*30*
Single Detached	3	3	3	3	3	3	3	3	3	3	**30**	
Mobile Home	0	0	0	0	0	0	0	0	0	0	**-**	
Row House	0	0	0	0	0	0	0	0	0	0	**-**	
Low Rise Apart.	0	0	0	0	0	0	0	0	0	0	**-**	
High Rise Apart.	0	0	0	0	0	0	0	0	0	0	**-**	
CITY OF COQUITLAM	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	**10 yr. Total**	*19,760*
Single Detached	50	50	45	40	35	30	25	20	20	20	**335**	
Mobile Home	0	0	0	0	0	0	0	0	0	0	**-**	
Row House	325	325	300	300	300	300	300	300	300	300	**3,050**	
Low Rise Apart./suites	350	350	325	300	300	300	300	300	300	300	**3,125**	
High Rise Apart.	1350	1350	1400	1350	1300	1300	1300	1300	1300	1300	**13,250**	
City OF PORT COQUITLAM	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	**10 yr. Total**	*2,600*
Single Detached	30	30	30	30	30	30	30	30	30	30	**300**	
Mobile Home	0	0	0	0	0	0	0	0	0	0	**-**	
Row House	50	50	50	50	50	50	50	50	50	50	**500**	
Low Rise Apart./suites	180	180	180	180	180	180	180	180	180	180	**1,800**	
High Rise Apart.	0	0	0	0	0	0	0	0	0	0	**-**	
CITY OF PORT MOODY	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	**10 yr. Total**	*5,909*
Single Detached	15	15	15	15	15	15	15	15	15	15	**150**	
Mobile Home	0	0	0	0	0	0	0	0	0	0	**-**	
Row House	30	28	42	30	30	30	30	30	30	30	**310**	
Low Rise Apart./suites	296	342	1189	454	150	200	200	200	200	200	**3,431**	
High Rise Apart.	218	0	0	0	0	320	320	320	420	420	**2,018**	

Table A-2: SCHOOL DISTRICT #43 - ELIGIBLE DEVELOPMENT UNIT ANNUAL TOTALS BY 2022-2032

Estimates by school year	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	10 yr. Total	28,509
Single Detached	119	119	114	109	104	99	94	89	89	89	**1,025**	
Mobile Home	-	-	-	-	-	-	-	-	-	-	**-**	
Row House	405	403	392	380	380	380	380	380	380	380	**3,860**	
Low Rise Apart./suites	826	872	1,694	934	630	680	680	680	680	680	**8,356**	
High Rise Apart.	1,568	1,350	1,400	1,350	1,300	1,620	1,620	1,620	1,720	1,720	**15,268**	
Total Units	***2,918***	***2,744***	***3,600***	***2,773***	***2,414***	***2,779***	***2,774***	***2,769***	***2,869***	***2,869***	**28,509**	

Table A-3: YIELD CALCULATIONS BY MUNICIPALITY - SD#43

ESTIMATED NUMBER OF NEW SCHOOL AGED POPULATION BASED ON AVERAGE YIELD RATIO ESTIMATES FOR NEW HOUSING IN MUNICIPALITY

Estimates by school year	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	10 Yr. Yield	*Yield Ratio*
VILLAGE OF ANMORE												
Single Detached	11	11	11	11	11	11	11	11	11	11	105	*0.5*
Mobile Home	-	-	-	-	-	-	-	-	-	-	-	*n/a*
Row House	-	-	-	-	-	-	-	-	-	-	-	*n/a*
Low Rise Apart./suites	-	-	-	-	-	-	-	-	-	-	-	*n/a*
High Rise Apart.	-	-	-	-	-	-	-	-	-	-	-	*n/a*
Total Yield School Age 5-19	11	11	11	11	11	11	11	11	11	11	**105**	
Estimates by school year	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	10 Yr. Yield	*Yield Ratio*
VILLAGE OF BELCARRA												
Single Detached	2	2	2	2	2	2	2	2	2	2	15	*0.5*
Mobile Home	-	-	-	-	-	-	-	-	-	-	-	*n/a*
Row House	-	-	-	-	-	-	-	-	-	-	-	*n/a*
Low Rise Apart./suites	-	-	-	-	-	-	-	-	-	-	-	*n/a*
High Rise Apart.	-	-	-	-	-	-	-	-	-	-	-	*n/a*
Total Yield School Age 5-19	2	2	2	2	2	2	2	2	2	2	**15**	
Estimates by school year	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	10 Yr. Yield	*Yield Ratio*
CITY OF COQUITLAM												
Single Detached	25	25	23	20	18	15	13	10	10	10	**168**	*0.5*
Mobile Home	-	-	-	-	-	-	-	-	-	-	-	*n/a*
Row House	130	130	120	120	120	120	120	120	120	120	**1,220**	*0.4*
Low Rise Apart./suites	49	49	46	42	42	42	42	42	42	42	**438**	*0.14*
High Rise Apart.	243	243	252	243	234	234	234	234	234	234	**2,385**	*0.18*
Total Yield School Age 5-19	447	447	440	425	414	411	409	406	406	406	**4,211**	
Estimates by school year	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	10 Yr. Yield	*Yield Ratio*
CITY OF PORT COQUITLAM												
Single Detached	15	15	15	15	15	15	15	15	15	15	**150**	*0.5*
Mobile Home	-	-	-	-	-	-	-	-	-	-	-	*n/a*
Row House	17	17	17	17	17	17	17	17	17	17	**170**	0.34
Low Rise Apart./suites	25	25	25	25	25	25	25	25	25	25	**252**	*0.14*
High Rise Apart.	-	-	-	-	-	-	-	-	-	-	-	*n/a*
Total Yield School Age 5-19	57	57	57	57	57	57	57	57	57	57	**572**	
Estimates by school year	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	10 Yr. Yield	*Yield Ratio*
CITY OF PORT MOODY												
Single Detached	8	8	8	8	8	8	8	8	8	8	**75**	*0.5*
Mobile Home	-	-	-	-	-	-	-	-	-	-	-	*n/a*
Row House	18	17	25	18	18	18	18	18	18	18	**183**	*0.59*
Low Rise Apart./suites	36	41	143	54	18	24	24	24	24	24	**412**	*0.12*
High Rise Apart.	22	-	-	-	-	32	32	32	42	42	**202**	*0.10*
Total Yield School Age 5-19	83	65	175	80	43	81	81	81	91	91	**871**	

Table A-4: Total School District #43(Coquitlam) School Age Yield (New Development)

Estimates by school year	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	10 Yr. Yield	*Yield Ratio*
Single Detached	60	60	57	55	52	50	47	45	45	45	**513**	*0.50*
Mobile Home	-	-	-	-	-	-	-	-	-	-	-	-
Row House	165	164	162	155	155	155	155	155	155	155	**1,573**	*0.41*
Low Rise Apart./suites	110	115	213	122	85	91	91	91	91	91	**1,102**	*0.13*
High Rise Apart.	265	243	252	243	234	266	266	266	276	276	**2,587**	*0.17*
Total Yield School Age 5-19	599	581	684	574	526	561	559	556	566	566	**5,774**	***0.20***
Estimated new SD#43 students	503	488	575	482	442	472	469	467	476	476	**3,898**	***0.14***
												Average

Does not include projections for potential development which are in the ALR and require BC Land Commission approval.
Does not include projections for potential development which may require major changes to an Official Community Plan.

The annual estimate of new development units for each category is based on a ten year average distribution of the ten year total expectation for new housing, provided by each municipality

SCHEDULE 'B' Capital Projects Requiring New Sites

Table B-1: ELIGIBLE SCHOOL SITES REQUIRING APPROVAL - 2023-2027 Five Year Capital Plan

School Site #	**112259**	**109228**					**TOTALS**
Basis of Costs	*Estimate*	*Estimate*	*Estimate*	*Estimate*	*Estimate*	*Estimate*	***Estimate***
Type of Project	New	New	New	New	New	New	
Grade Level	***Elementary***	***Elementary***	***Elementary***	***Elementary***	***Elementary***	***Elementary***	
Approximate Location	*Riverwalk*	*Marigold*	*Port Moody Centre*	*Fraser Mills*	*Coquitlam City Centre*	*Hazel Coy*	
Proposed Capacity	455	455	455	455	455	455	**2,730**
Approx. Size (ha)	2.5	2.5	1.2	1.2	1.2	2.5	**11.1**
Market Land Costs	$ 22,658,502	$ 22,658,502	$ 32,693,514	$ 26,000,000	$ 34,526,067	$ 22,658,502	**161,195,087**

Total Acquisition Sites to be included in the 2023-2027 Five Year Capital Plan = 6

Proposed school site sizes are based on an assumption that some sites may be joint school and park sites. Stand alone school sites would require greater site area and market land cost.

Note: This Schedule includes proposed sites only. Approved eligible school sites since the inception of the ESSP are not included on this list.
Note: Aprprox size of each site has been updated to reflect update to date requirements for a elementary and middle school requirement.

2021 ANNUAL WATER QUALITY REPORT

Public Works Department
Village of Anmore
Prepared by: Scott Donaldson, Operations Superintendent

Foreword

Under the *British Columbia Drinking Water Protection Act* and the *British Columbia Drinking Water Protection Regulation* (BCDWPA & BCDWPR) the Village of Anmore is required to conduct water quality monitoring in the Village's distribution system and to publish the results in an annual report. This document fulfils that requirement by presenting a summary and discussion of all water quality sampling results for the year 2021. An overview of projects and events as they relate to drinking water in the Village of Anmore is also provided in this report.

Please visit the following web sites for further information:

Health Canada
http://www.hc-sc.gc.ca/ewh-semt/water-eau/drink-potab/guide/index-eng.php

Ministry of Health
http://www.health.gov.bc.ca/protect/dw_index.html

Health Link BC File #56 - Persons with compromised or Weakened Immune Systems
http://www.healthlinkbc.ca/healthfiles/hfile56.stm

Metro Vancouver
http://www.metrovancouver.org/services/water/Pages/default.aspx

Village of Anmore
http://www.anmore.com

USEPA
http://www.epa.gov/safewater/mcl.html

World Health Organization
http://www.who.int/water_sanitation_health/publications/2011/dwq_guidelines/en/index.html

Emergency Water Quality Contact Information

Scott Donaldson
Operations Superintendent
Phone: 604-469-9877
Cell: 604-315-0360
E-mail: Scott.Donaldson@anmore.com

Public Works Yard
Phone: 604-469-6622

After Hours Emergency
Phone: 604-817-7745

Table of Contents

Acronyms

AO: Aesthetic Objective

ASTTBC: Applied Science Technicians and Technologists of British Columbia

BCDWPA: *British Columbia Drinking Water Protection Act*

BCDWPR: *British Columbia Drinking Water Protection Regulation*

DBP: Disinfection By-Products

DWMP: *Metro Vancouver Drinking Water Management Plan*

E.coli: *Escherichia coli*

EOCP: Environmental Operators Certification Program

GCDWQ: *Guidelines for Canadian Drinking Water Quality*

HAA: Haloacetic Acid

HPC: Heterotrophic Plate Count

MAC: Maximum Acceptable Concentration

Mg/l: Milligrams per Liter

NTU: Nephelometric Turbidity Units PPB: Parts Per Billion

PPM: Parts Per Million

PRV: Pressure Regulating Valve

PVC: Polyvinyl Chloride

SCADA: Supervisory Control and Data Acquisition

SCFP: Seymour – Capilano Filtration Plant

THM: Trihalomethane

UDF: Uni-directional Flushing

WQMRP: Water Quality Monitoring and Reporting Plan for Metro Vancouver and Member Municipalities

YTD: Year-to-Date

Executive Summary

The Village of Anmore supplies drinking water to residential and commercial customers within Village limits. The Village of Anmore is dedicated to providing safe, high quality, aesthetically pleasing drinking water at a reasonable cost.

The Village contracts the collection and testing of water samples to the Metro Vancouver Regional District, who collects the samples from the distribution system on a routine basis. This report includes a summary and discussion of the results of all sampling conducted on the Village 's water distribution system during 2021 as well as a discussion of projects and events affecting water quality within the Village of Anmore. A complete record of 2021 water quality sampling results can be found in the appendices of this report.

As per the Water Quality Monitoring and Reporting Plan for Metro Vancouver and Member Municipalities (WQMRP) water samples are collected from the distribution system and analyzed for:

- Chemical and Physical Parameters
  - Metals
  - Vinyl chloride
  - Temperature
  - Free chlorine
  - Minerals
  - Disinfection by-products
  - Turbidity

- Bacterial Parameters
  - *E.Coli*
  - Heterotrophic Plate Count (HPC)
  - Total Coliforms

All sample results for *E.Coli and Total Coliforms* were negative. HPC's met the guidelines in all instances. Sample results for chemical and physical parameters addressed in the *Guidelines for Canadian Drinking Water Quality (GCDWQ)* were well under their respective Maximum Acceptable Concentration (MAC) values.

As part of our commitment to continual improvement, reliable service and high water quality, the Village completes operational and capital projects as well as water quality sampling on an ongoing basis. In 2021 the Village completed routine inspections and maintenance of all water distribution facilities as well as dead end and un-directional water main flushing.

1.0 Water Distribution System Data

1.1 System Infrastructure

The tables in this section provide a snapshot of the Village of Anmore's water distribution system. All of the components listed, with the exception of the private hydrants, and private pump station are operated and maintained by the Village's Public Works Department.

Table #1: Length of Pipe in System

Total Length of all Pipes in Distribution System	26,000 meters

Table #2: Fire Hydrants

Fire Hydrants	**#**
Village Hydrants	154(approx.)
Private Hydrants	3
Total	**157(approx.)**

Table #3: Critical Water System Components

Asset	**#**
Pressure Reducing Valves	8
Pump Stations	3(1private)
Reservoirs	0
Chlorine Booster Stations	1

In addition to the pipe, fire hydrants, and critical components, there are many other smaller components to Anmore's water distribution system, including:

- Water meters
- Air valves
- End of line blow off valves
- Line valves
- Sampling stations

All of these components work in concert to help the Village deliver safe, reliable drinking water to customers.

1.2 Public Response

In 2021 the Village's Public Works Department is pleased to report that there were no water quality complaints. This is due to the purchase of auto flushing units that are portable and allow staff to flush dead end roads remotely, and periodic cL2 residual testing of dead end roads.

Current best management practices prescribed by Fraser Health, the *GCDWQ*, and the USEPA *Surface Water Treatment Rule* recommend maintaining a minimum of 0.20mg/l free chlorine in the distribution system (Health Canada, 2010) (Health Canada, 2009) (USEPA, 2004) (USEPA, 2002). The Village of Anmore aims to maintain free chlorine residual concentrations between 0.20 mg/l and 1.2 mg/l. If residents wish to remove chlorine from their water prior to drinking, the best way to do so is with an activated carbon filter, such as a Brita, or by filling a jug of water and letting it stand uncovered overnight.

Notification is provided to all residents by way of mail drop, email notification (for those registered) as well as postings on the Village's website, Facebook page and community sign boards regarding regularly scheduled annual water main flushing. It is recommended that if a resident finds discoloured water as a result of flushing, that the water is left running until it clears.

1.3 Staff Certification

The Village of Anmore water distribution system is classified as a Level II system by the Environmental Operators Certification Program (EOCP). The Village's water system is monitored, operated, and maintained by qualified personnel who are certified by the EOCP. In addition to certification under the EOCP, Village of Anmore staff have training in Hypo chlorination, PRV Maintenance and Hydrant Maintenance.

Table #4 contains a summary of staff qualifications.

Table #4: Operator Certification

Certification Level	# of Staff
EOCP Water Distribution Level I	1
EOCP Water Distribution Level II	1
Total Qualified Staff	**2**

2.0 2021 Event Summary

2.1 Planning for the Future

The Village of Anmore is a growing community within the Lower Mainland, with an estimated population of 2,356 residents (based on 2021 Census). Anmore's water system currently consists of 9 pressure zones, 2 pump stations, 1 Chlorination booster station, 8 pressure reducing stations, and includes over 25 km of water mains. Anmore receives potable water from the Metro Vancouver Coquitlam source via a 300 mm diameter supply connection from the City of Port Moody. The water supply and distribution infrastructure is a key focus of Anmore's strategic infrastructure priorities, and thus the need for Anmore to have a comprehensive Water Utility Master Plan (completed in 2015).

Anmore's 2015 Water Master Plan has provided an understanding of the capacity of its current system under existing and future demand requirements and identifies servicing opportunities and constraints to plan

upgrades to the water utility in an economic and efficient manner. A Capital Upgrades Plan was provided with a proposed schedule and estimated costs to complete the works. Integral to the Water Utility Master Plan is the development of a hydraulic model for Anmore, which will allow for the review of the level of services provided to existing and future populations by the water utility. Future populations are forecasted to a 2032 planning horizon in the most recent Official Community Plan (OCP). Furthermore, an annual operations, maintenance, and inspection program and budget will be developed which will allow for sufficient monitoring and maintenance of the water utility assets. The cumulative costs of the recommendations will form part of a long-term financial plan with the eventual goal of having a financially sustainable utility.

2.2 "Flush" Message from the Fraser Health Authority

Fraser Health has recently revised its metals at the tap "Flush" message. They have asked that all water purveyors include the following message in their annual report:

> *Anytime the water in a particular faucet has not been used for six hours or longer, "flush" your cold-water pipes by running the water until you notice a change in temperature. (This could take as little as five to thirty seconds if there has been recent heavy water use such as showering or toilet flushing. Otherwise, it could take two minutes or longer.)*
> *The more time water has been sitting in your home's pipes, the more lead it may contain.*
>
> *Use only water from the cold-tap for drinking, cooking, and especially making baby formula. Hot water is likely to contain higher levels of lead.*
>
> *The two actions recommended above are very important to the health of your family. They will probably be effective in reducing lead levels because most of the lead in household water usually comes from the plumbing in your house, not from the local water supply.*
>
> *Conserving water is still important. Rather than just running the water down the drain you could use the water for things such as watering your plants* (Zubel, 2014).

If residents have any questions they are encouraged to contact the Fraser Health's Drinking Water Program at 604-870-7900 or 1-866-749-7900.

3.0 Water Main Flushing Program

The Village of Anmore conducts uni-directional and dead-end flushing in order to maintain a high level of water quality in the distribution system. Regularly flushing water mains removes stagnant water and deposits from pipes. Spot flushing is also conducted on an "as required" basis due to complaints or poor water quality sample results indicating elevated Heterotrophic Plate Counts (HPC), positive total coliform results, and/or elevated water temperature combined with depressed free chlorine residuals.

4.0 Water Quality Sampling and Testing

As per the *Water Quality Monitoring and Reporting Plan for Metro Vancouver and Member Municipalities (WQMRP)* sampling and analysis for numerous water quality parameters are conducted on the Village of Anmore's distribution system on a regular basis. Sample schedules for various constituents are broken into sections based on the number of samples recommended by the *GCDWQ* and/or mandated by the *BCDWPR*. Monitoring of drinking water in the Village's water distribution system is conducted for bacterial, chemical, and physical characteristics.

In 2021 a total of 53 bacteriological samples were collected from the Village's distribution system. Table #6 presents the locations and descriptions for the four sample stations where Metro Vancouver staff collect water quality samples on a bi-weekly basis.

Table #6: Water Sampling Station Inventory

SAMPLE STATION	LOCATION	SOURCE WATER
ANM-474	1009 Ravenswood Dr.	Coquitlam (Via Port Moody)
ANM-471	1175 East Rd.	Coquitlam (Via Port Moody)
ANM-472	3007 Sunnyside Rd.	Coquitlam (Via Port Moody)
ANM-473	76 Elementary Rd.	Coquitlam (Via Port Moody)

4.1 Chemical / Physical Quality

Water quality sampling for chemical and physical parameters including disinfection by-products, vinyl chloride, and metals is carried out on varying schedules. Table #7 modified from Metro Vancouver's *WQMRP* sets out a schedule requiring "approximately 10% of the sample sites in each municipal system to be sampled for the following parameters at the frequency shown (Metro Vancouver, 2008)."

Table #7: Chemical / Physical Monitoring in Municipal Distribution Systems

Parameter	Location	Frequency
Free Chlorine Residual	All	Tests run when bacteriological samples are taken
Copper	Municipal Distribution System**	Semi-annually
Haloacetic Acids	Municipal Sites – Cross section, representative of all three sources, minimum of one per municipality.	Quarterly
Iron	Representative municipal sites – unlined iron and steel mains.	Semi-annually
Lead	Municipal Distribution System**	Semi-annually
Odour	Any or all sites	Complaint Basis*
pH	Municipal Sites – cross section, representative of all sources, minimum of three per municipality.	Quarterly
Taste	Any or all sites.	Complaint Basis*
Temperature	Representative municipal sites.	Quarterly
Trihalomethanes	Municipal Sites – cross section, representative of all sources, minimum of three per municipality.	Quarterly
Turbidity	Municipal Sites – All	Collected with bacteriological samples
Vinyl Chloride	Municipal sites where PVC pipe is used in the distribution system – minimum of one per potentially affected system.	Semi-annually
Zinc	Municipal Distribution System**	Semi-annually

* If a complaint comes to Metro Vancouver, Metro Vancouver will bring it to the attention of the relevant municipality.

** The GCDWQ stipulate that samples for metals analysis should be from a flushed location. This provides rationale to sample for metals in the distribution system as opposed to locations in buildings.

4.1.1 Metals 7

Metals can enter the drinking water system from either the source watershed or in the distribution system itself. Historically the Village of Anmore's drinking water has contained very little metal compounds. The Village of Anmore monitors the water distribution system for metals. Sampling is conducted semi-annually as per the *WQMRP.*

A summary of relevant health-based MAC and Aesthetic Objective (AO) standards for metals in drinking water can be found in Table #8. This table summarizes only those parameters listed in the *GCDWQ* that are captured by the current version of the *WQMRP*.

A complete record of 2021 metals sampling results can be found in Appendix #2.

Table #8: MAC and AO Metals Standards Modified from the Guidelines for Canadian Drinking Water Quality

Parameter	MAC (mg/l)	AO (mg/l)	Year of Approval (Re-affirmation)
Aluminum		[0.1 / 0.2]	1998
Antimony	0.006		1997
Arsenic	0.010		2006
Barium	1.0		1990
Cadmium	0.005		1986 (2005)
Chromium	0.05		1986
Copper		≤1.0	1992
Iron		≤0.3	1978 (2005)
Lead	0.010		1992
Manganese		≤0.05	1987
Mercury	0.001		1986
Selenium	0.01		1992
Sodium		≤200	1992
Zinc		≤5.0	1979 (2005)

4.1.2 Disinfection By-Products

Disinfection By-Product (DBP) formation occurs when chlorine in drinking water reacts with dissolved organic compounds. These reactions can produce two main groups of DBP compounds, Trihalomethanes (THM) and Halo acetic Acid (HAA). Monitoring for DBP's is conducted on a quarterly basis as set out by Metro Vancouver's *WQMRP*. 2021 THM and HAA sampling results from the Village's water distribution system were below the respective guideline limits.

A complete record of 2021 DBP sampling results can be found in Appendix #3.

4.2 Bacteriological Quality

All bacterial samples collected from municipal distribution systems are analyzed for total coliform and *E.coli* bacteria. These samples are also analyzed for the presence of heterotrophic bacteria. HPC bacteria provide an indicator of microbial growth in the distribution system and are used as an early warning to predict where water quality concerns may arise. The Village collects a minimum of 8 bacteriological samples per month. Further samples are collected by Village personnel on an as needed basis in response to water main breaks, operational adjustments, water quality complaints, or where cross-connections are suspected.

The quantity of bacterial samples collected from municipal water distribution systems is based on the population served. Under the *BCDWPR* the Village is required to collect a minimum of 4 bacteriological samples from the water distribution system per month based on population (under 5000). Figures #1 and #2 display the number of bacteriological samples collected from the Village 's water distribution system and the percentage of samples collected that returned HPC results greater than 500 CFU/ml each month. It should be noted that the statistical analysis of a small number of samples per month is subject to skewing of results due to the limited number of samples. For example, if less than 10 samples were submitted in a month and one sample was positive, the percentage of samples containing coliforms would

exceed the standard of 10%.

A complete record of 2021 bacteriological water quality sampling results can be found in Appendix #1. The Village of Anmore's results were all within regulatory limits for 2021.

Figure #1: Number of Bacterial Samples Analyzed / Month

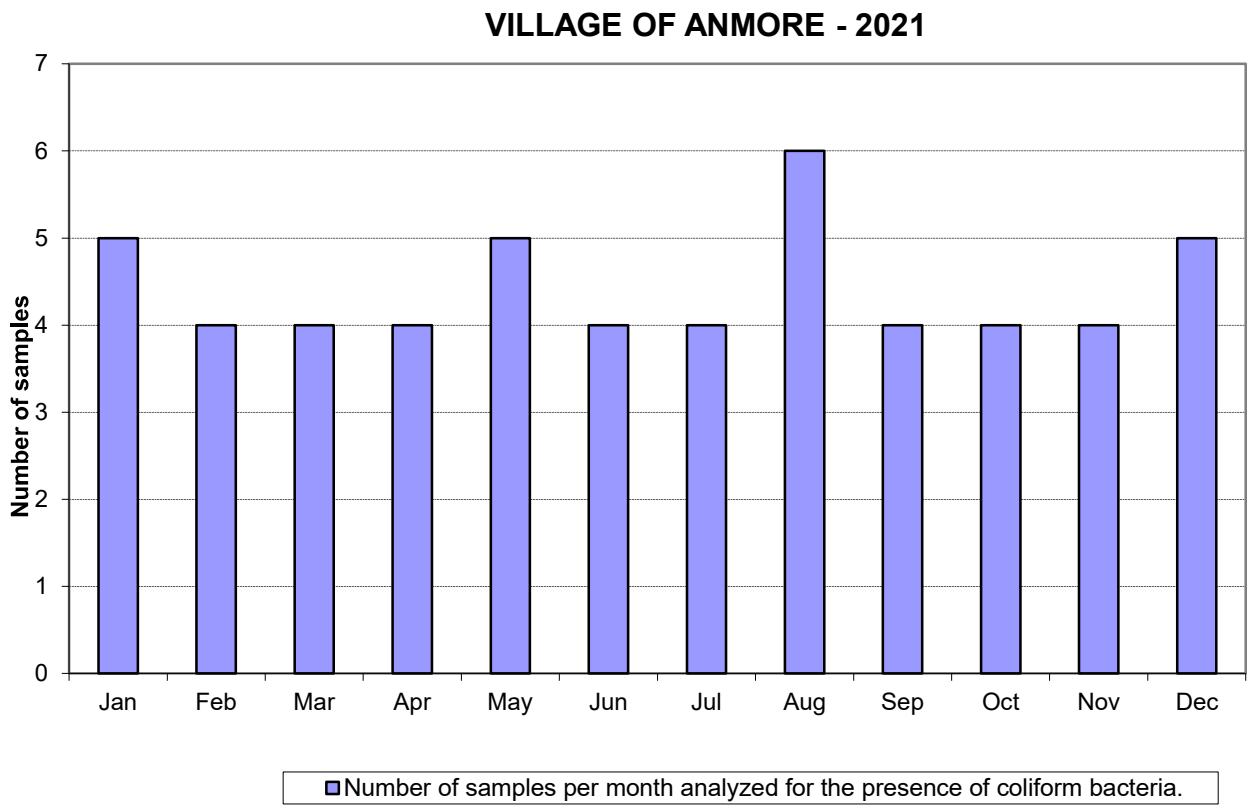


Figure #2: 2021 Monthly Heterotrophic Plate Count

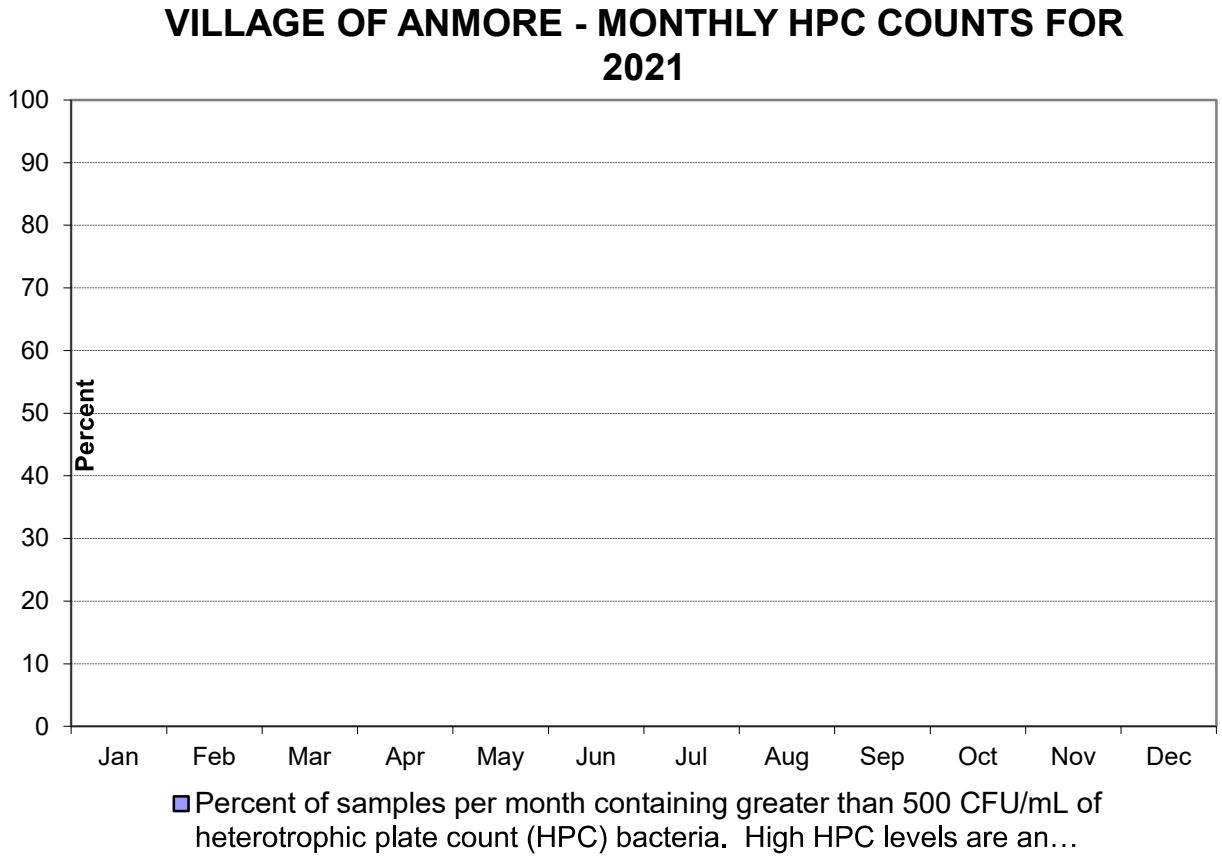
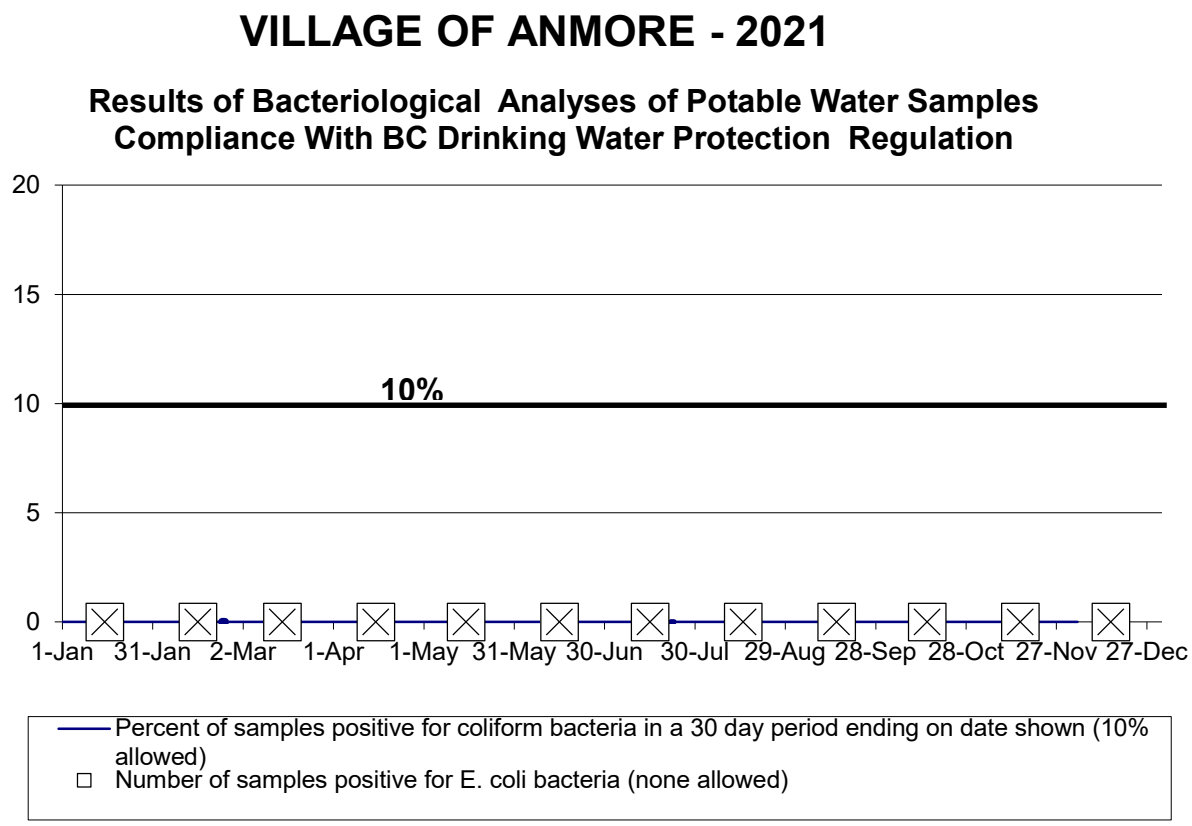


Figure #3: Results of Bacteriological Analysis of Potable Water Samples and Compliance with BCDWPR



Tables #9 and #10, which are modified from Schedule A and B of the *BCDWP*, define bacteriological water quality monitoring requirements for all water purveyors under the act and regulation.

Table #9: Water Quality Standards for Potable Water (Sections 2 & 9)

Parameter:	**Standard:**
Fecal coliform bacteria	No detectable fecal coliform bacteria per 100ml
Escherichia coli	No detectable Escherichia coli per 100 ml
Total coliform bacteria	
(a) 1 sample in a 30 day period	No detectable total coliform bacteria per 100 ml
(b) more than 1 sample in a 30 day period	At least 90% of samples have no detectable total coliform bacteria per 100ml and no sample has more than 10 total coliform bacteria per 100ml

(Province of British Columbia, 2011)

Table #10: Frequency of Monitoring Samples for Prescribed Water Supply Systems *(Section 8)*

Population Served by the Prescribed Water Supply System:	Number of Samples Per Month:
less than 5,000	4
5,000 to 90,000	1 per 1,000 of population
more than 90,000	90 plus 1 per 10,000 of population in excess of 90,000

(Province of British Columbia, 2011)

4.3 Free Residual Chlorine

Water distributed by the Village contains a disinfectant called free chlorine. Maintaining an adequate disinfectant residual in a potable water distribution system is vital to preserving public health. Disinfectant in the distribution system:

- Ensures that microorganisms hazardous to public health are inactivated
- Provides an indicator of distribution system upset
- Controls biofilm growth

(USEPA, 2007)

Free residual chlorine concentrations in water received by the Village from Port Moody generally varies and is not at concentrations high enough to provide adequate disinfection throughout the Village. Reduced concentrations of disinfectant have historically been a challenge for the Village's water system. Prior to the commissioning of the permanent Chlorine Booster Station in December of 2013, Anmore's Water System had little to no chlorine residual.

Tables #11, #12 and Figure #4 provide a summary of the number of samples collected from each sample station that were found to have free chlorine concentrations less than 0.20 mg/l. A map of all water quality sample collection points regularly sampled by the Village can be found in Appendix #4

Table #11: Percentage of Samples / Month with < 0.20 mg/l Free Chlorine

Month	# of Free Cl2 Samples <0.20 mg/l	Total Number of Samples Taken	Percentage of Samples / Month With Less Than 0.20 mg/l Free Cl2
January	0	5	0%
February	0	4	0%
March	0	4	0%
April	0	4	0%
May	0	5	0%
June	0	4	0%
July	0	4	0%

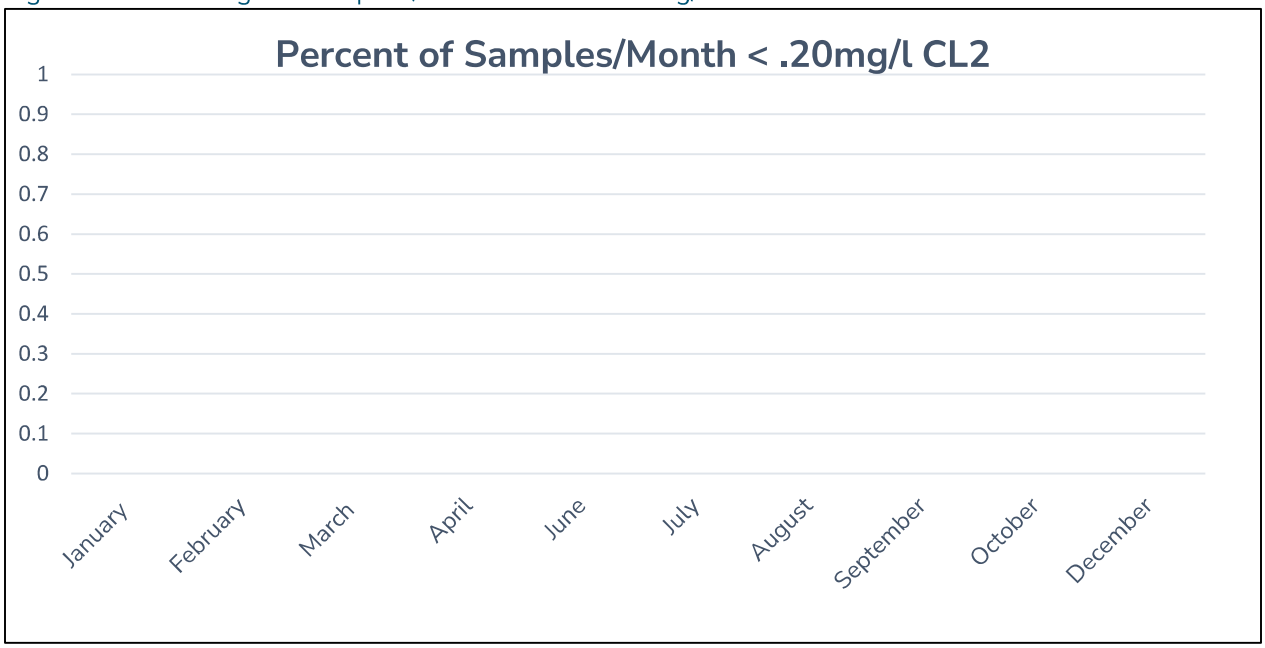
August	0	6	0%
September	0	4	0%
October	0	4	0%
November	0	4	0%
December	0	5	0%
Total	**5**	**53**	**0%**

Table #12: Summary of Chlorine Residual Sampling by Station

Sample Station	Total Number of Samples with <0.2 mg/l Free Chlorine	Total Number of Samples per Station	Percentage of Samples with <0.2 mg/l Free Chlorine
ANM-471	0	13	0%
ANM-472	0	12	0%
ANM-473	0	15	0%
ANM-474	0	13	0%
All Stations	**0**	**53**	**0%**

See Appendix #4 for Sampling Station Map

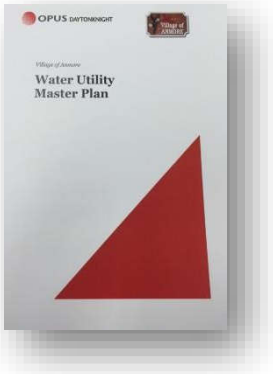
Figure #4: Percentage of Samples / Month with < 0.20 mg/l Free Chlorine



5.0 Water Distribution System Projects

5.1 Future Planning

In the spring of 2015, the Village completed a comprehensive study of the water utility. The intent of this study work was to develop a Water Utility Master Plan that will guide the operation, maintenance, upgrading and expansion and renewal of the utility in a sustainable manner. This Plan has established the existing infrastructure assets, assessed the condition of the assets, and identified any deficiencies that affect the immediate and long-term function of these assets. The data gathered through these processes will be utilized to establish common maintenance/operating practices, future capital improvements and assist with updating strategic priorities as relates to water utility infrastructure planning.



5.2 Emergency Response Plan

In the event of an emergency, the Village may enact its Water System Emergency Response Plan. The goals of this plan are as follows:

- Rapidly restore service after an emergency
- Ensure adequate water supply for fire protection
- Minimize loss of service to users
- Provide emergency information to public
- Re-establish critical operations

Conclusion

This year (2021) Public Works staff at the Village of Anmore have continued improvements to the day to day operations of the water utility and continue to work closely with Fraser Health Authority to ensure safe, clean potable water for the Village's residents.

Every year the Village budgets for the study, maintenance, and replacement of critical components of the water distribution system and 2021 was no exception. Continued resource focus on the operation and maintenance of the Village's water system along with completing critical infrastructure upgrades will be pivotal to maintaining a high level of drinking water quality in the coming years.

Works Cited

AWWA. (2000). ANSI/AWWA C651-99 - AWWA Standard for Disinfecting Water Mains. Denver: American Water Works Association.

Health Canada. (2010). *Guidelines for Canadian Drinking Water Quality.* Ottawa: Federal- Provincial-Teritorial Committee on Drinking Water of the Federal-Provincial-Teritorial Committee on Health and the Environment.

Health Canada. (2009). *Guidelines for Canadian Drinking Water Quality: Guideline Technical Document - Chlorine.* Ottawa: Health Canada.

Metro Vancouver. (2011). *Metro Vancouver Drinking Water Management Plan.* Burnaby: Metro Vancouver.

Metro Vancouver. (2008). *Water Quality Monitoring and Reporting Plan for Metro Vancouver and Member Municipalities.* Burnaby: Greater Vancouver Regional District.

Province of British Columbia. (2011). *British Columbia Drinking Water Protection Regulation.* Victoria.

Province of British Columbia. (2011). *Drinking Water Protection Regulation.* Victoria: Province of British Columbia.

Province of British Columbia. (2014). *Population Estimates*. Retrieved March 27, 2014, from BC Stats: http://www.bcstats.gov.bc.ca/statisticsbysubject/demography/populationestimates.aspx

USEPA. (2004). *Comprehensive Surface Water Treatment Rules Quick Reference Guide: Unflitered Systems.* Washington DC: US Environmental Protection Agency.

USEPA. (2002). Effects of Water Age on Distribution System Water Quality. Washington DC: US Environmental Protection Agency.

USEPA. (2007). *The Effectiveness of Disinfectant Residuals in The Distribution System.* Washington DC: US Environmental Protection Agency.

Zubel, M. (2014, June). Metals in Drinking Water - "Flush" Message in Annual Reports. British Columbia, Canada: Fraser Health.

Appendix #1
Bacterial Analysis

Sample Type	Sample Name	Description	Sampled Date	Temp	Total Coliform	Ecoli	HPC	Turbidity	Chlorine Free
				°C	CFU/100mLs	CFU/100mLs	CFU/mL	NTU	mg/L
GRAB	ANM-471	1175 East Road	2021-01-13 11:11	6.8	<1	<1	<2	0.36	0.73
GRAB	ANM-471	1175 East Road	2021-01-23 12:05	6.3	<1	<1	<2	0.39	0.49
GRAB	ANM-471	1175 East Road	2021-02-25 12:09	5.5	<1	<1	<2	0.42	0.43
GRAB	ANM-471	1175 East Road	2021-03-03 12:32	5.9	<1	<1	<2	0.42	0.76
GRAB	ANM-471	1175 East Road	2021-04-21 11:50	8.7	<1	<1	<2	0.36	0.43
GRAB	ANM-471	1175 East Road	2021-05-15 09:47	11	<1	<1	<2	0.37	0.42
GRAB	ANM-471	1175 East Road	2021-06-10 12:29	13.1	<1	<1	4	0.43	0.78
GRAB	ANM-471	1175 East Road	2021-07-14 07:34	14.9	<1	<1	4	0.39	0.75
GRAB	ANM-471	1175 East Road	2021-08-11 09:52	16.7	<1	<1	<2	0.4	0.89
GRAB	ANM-471	1175 East Road	2021-09-01 11:01	16.1	<1	<1	2	0.32	0.74
GRAB	ANM-471	1175 East Road	2021-10-07 12:59	14.5	<1	<1	<2	0.7	0.51
GRAB	ANM-471	1175 East Road	2021-11-10 13:42	10.7	<1	<1	8	0.39	0.31
GRAB	ANM-471	1175 East Road	2021-12-07 10:37	8	<1	<1	2	1.1	0.42
GRAB	ANM-472	3007 Sunnyside Road	2021-01-23 11:47	6.7	<1	<1	<2	0.34	0.78
GRAB	ANM-472	3007 Sunnyside Road	2021-02-25 11:47	5.8	<1	<1	<2	0.35	0.21
GRAB	ANM-472	3007 Sunnyside Road	2021-03-03 12:22	5.9	<1	<1	<2	0.43	0.79
GRAB	ANM-472	3007 Sunnyside Road	2021-04-21 11:26	9.9	<1	<1	<2	0.31	0.63
GRAB	ANM-472	3007 Sunnyside Road	2021-05-15 09:32	11.1	<1	<1	<2	0.55	0.48
GRAB	ANM-472	3007 Sunnyside Road	2021-06-10 11:56	12.9	<1	<1	<2	0.28	0.87
GRAB	ANM-472	3007 Sunnyside Road	2021-07-14 07:22	16.4	<1	<1	4	1.1	0.61
GRAB	ANM-472	3007 Sunnyside Road	2021-08-11 09:31	16.9	<1	<1	<2	0.27	0.87

Sample Type	Sample Name	Description	Sampled Date	Temp	Total Coliform	Ecoli	HPC	Turbidity	Chlorine Free
				°C	CFU/100mLs	CFU/100mLs	CFU/mL	NTU	mg/L
GRAB	ANM-472	3007 Sunnyside Road	2021-09-01 10:49	16.9	<1	<1	4	0.3	0.87
GRAB	ANM-472	3007 Sunnyside Road	2021-10-07 12:27	14.5	<1	<1	2	0.55	0.53
GRAB	ANM-472	3007 Sunnyside Road	2021-11-10 13:30	8.9	<1	<1	<2	0.33	0.68
GRAB	ANM-472	3007 Sunnyside Road	2021-12-07 10:52	8	<1	<1	<2	0.74	0.58
GRAB	ANM-473	76 Elementary	2021-01-23 11:23	6.9	<1	<1	<2	0.31	0.67
GRAB	ANM-473	76 Elementary	2021-02-25 11:18	6.1	<1	<1	4	0.29	0.07
GRAB	ANM-473	76 Elementary	2021-03-03 11:31	5.7	<1	<1	<2	0.57	0.69
GRAB	ANM-473	76 Elementary	2021-04-21 10:56	8.1	1	<1	4	0.32	0.36
GRAB	ANM-473	76 Elementary	2021-05-15 09:08	10.5	<1	<1	2	0.25	0.47
GRAB	ANM-473	76 Elementary	2021-05-19 09:53	10.3	<1	<1	8	0.18	0.49
GRAB	ANM-473	76 Elementary	2021-06-10 11:21	12.6	<1	<1	4	0.25	0.48
GRAB	ANM-473	76 Elementary	2021-07-14 07:06	16.3	<1	<1	10	0.2	0.29
GRAB	ANM-473	76 Elementary	2021-08-11 09:06	16.7	<1	<1	32	0.26	0.33
GRAB	ANM-473	76 Elementary	2021-08-25 09:30	17.8	<1	<1	140	0.18	0.37
GRAB	ANM-473	76 Elementary	2021-09-01 10:15	16.5	<1	<1	680	0.2	0.27
GRAB	ANM-473	76 Elementary	2021-10-07 11:58	14.5	<1	<1	190	0.41	0.37
GRAB	ANM-473	76 Elementary	2021-11-10 13:07	11.2	<1	<1	12	0.29	0.31
GRAB	ANM-473	76 Elementary	2021-12-07 11:17	9.1	<1	<1	6	0.5	0.54
GRAB	ANM-473	76 Elementary	2021-12-14 07:58	8.1	<1	<1	<2	0.46	0.55
GRAB	ANM-474	1009 Ravenswood Drive	2021-01-13 10:41	6.8	<1	<1	4	0.31	0.67

Sample Type	Sample Name	Description	Sampled Date	Temp	Total Coliform	Ecoli	HPC	Turbidity	Chlorine Free
				°C	CFU/100mLs	CFU/100mLs	CFU/mL	NTU	mg/L
GRAB	ANM-474	1009 Ravenswood Drive	2021-02-25 11:32	5.5	<1	<1	<2	0.37	0.24
GRAB	ANM-474	1009 Ravenswood Drive	2021-03-03 12:03	5.7	<1	<1	<2	0.45	0.78
GRAB	ANM-474	1009 Ravenswood Drive	2021-04-21 11:08	9.3	<1	<1	4	0.3	1.01
GRAB	ANM-474	1009 Ravenswood Drive	2021-05-15 09:20	10.9	<1	<1	2	0.45	0.44
GRAB	ANM-474	1009 Ravenswood Drive	2021-06-10 12:12	12.9	<1	<1	<2	1	0.83
GRAB	ANM-474	1009 Ravenswood Drive	2021-07-14 07:13	14.7	<1	<1	8	0.83	0.57
GRAB	ANM-474	1009 Ravenswood Drive	2021-08-11 09:18	16.9	<1	<1	<2	0.24	0.77
GRAB	ANM-474	1009 Ravenswood Drive	2021-08-25 10:18	17.1	<1	<1	4	0.29	0.73
GRAB	ANM-474	1009 Ravenswood Drive	2021-09-01 10:31	16.9	<1	<1	4	0.22	0.79
GRAB	ANM-474	1009 Ravenswood Drive	2021-10-07 12:14	14.3	<1	<1	4	0.52	0.54
GRAB	ANM-474	1009 Ravenswood Drive	2021-11-10 13:19	10.8	<1	<1	<2	0.41	0.71
GRAB	ANM-474	1009 Ravenswood Drive	2021-12-07 11:04	7.8	<1	<1	<2	0.48	0.63

Appendix #2
Metals Monitoring

1299 Derwent Way, Delta BC V3M 5V9
Phone: (604) 523-7173 Fax: (604) 525-0932

Customer:	**Village of Anmore**
Title:	Municipal Metals May-03/22
Project Number:	215461
Project Date:	3-May-2022
Project Status:	Authorized by RSTRACKE
Project Notes:	

Analysis	**Units**	**ANM-472**	**ANM-474**
		3007 Sunnyside Road	1009 Ravenswood Drive
		2022-05-05 10:55	2022-05-05 11:11
		GRAB	GRAB
Aluminum Total	µg/L	92	87
Antimony Total	µg/L	<0.5	<0.5
Arsenic Total	µg/L	<0.5	<0.5
Barium Total	µg/L	2.6	2.4
Boron Total	µg/L	<10	<10
Cadmium Total	µg/L	<0.2	<0.2
Calcium Total	µg/L	1020	1050
Chromium Total	µg/L	0.06	0.06
Cobalt Total	µg/L	<0.5	<0.5
Copper Total	µg/L	67.1	47.8
Iron Total	µg/L	112	69
Lead Total	µg/L	<0.5	<0.5
Magnesium Total	µg/L	96	98
Manganese Total	µg/L	11.1	5.5
Mercury Total	µg/L	<0.05	<0.05
Molybdenum Total	µg/L	<0.5	<0.5
Nickel Total	µg/L	<0.5	<0.5
Potassium Total	µg/L	113	113
Selenium Total	µg/L	<0.5	<0.5
Silver Total	µg/L	<0.5	<0.5
Sodium Total	µg/L	11300	11700
Zinc Total	µg/L	7.4	3

Liquid Waste Services
Environmental Management & Quality Control
Chemistry Lab
1299 Derwent Way, Delta BC V3M 5V9
Phone: (604) 523-7173 Fax: (604) 525-0932

Customer:	**Village of Anmore**
Title:	Municipal Metals Nov-09/21
Project Number:	211611
Project Date:	9-Nov-2021
Project Status:	Authorized by DMULZET
Project Notes:	

Analysis	Units	ANM-472	ANM-474
		3007 Sunnyside Road	1009 Ravenswood Drive
		2021-11-10 13:30	2021-11-10 13:15
		GRAB	GRAB
Aluminum Total	µg/L	92	94
Antimony Total	µg/L	<0.5	<0.5
Arsenic Total	µg/L	<0.5	<0.5
Barium Total	µg/L	2.3	2.4
Boron Total	µg/L	<10	<10
Cadmium Total	µg/L	<0.2	<0.2
Calcium Total	µg/L	1110	1120
Chromium Total	µg/L	0.06	<0.05
Cobalt Total	µg/L	<0.5	<0.5
Copper Total	µg/L	17.9	26.3
Iron Total	µg/L	42	47
Lead Total	µg/L	<0.5	<0.5
Magnesium Total	µg/L	92	92
Manganese Total	µg/L	1.3	2.1
Mercury Total	µg/L	<0.05	<0.05
Molybdenum Total	µg/L	<0.5	<0.5
Nickel Total	µg/L	<0.5	<0.5
Potassium Total	µg/L	118	117
Selenium Total	µg/L	<0.5	<0.5
Silver Total	µg/L	<0.5	<0.5
Sodium Total	µg/L	11400	11400
Zinc Total	µg/L	5.9	<3.0

Appendix #3

Disinfection By-Product Monitoring

Sample	Date Sampled	THM (ppb)							HAA (ppb)						
		Bromodichloromethane	Bromoform	Chlorodibromomethane	Chloroform	Total Trihalomethanes	**Total THM Quarterly Average (Guileline Limit 100 ppb)**		Dibromoacetic Acid	Dichloroacetic Acid	Monobromoacetic Acid	Monochloroacetic Acid	Trichloroacetic Acid	Total Haloacetic Acid	**Total HAA Quarterly Average (Guileline Limit 80 ppb)**
ANM-470	29-May-18	<1	<1	<1	33	35			0.6	22	<1	2	30.2	54.9	
ANM-470	8-Aug-18	<1	<1	<1	29	30			<0.5	16	<1	3	20.3	39.1	
ANM-470	21-Nov-18	<1	<1	<1	58	59			<0.5	19	<1	2	35.3	58	
ANM-470	19-Mar-19	1	<1	<1	46	49	43		<0.5	25	2	2	37.1	67.2	55
ANM-470	15-May-19	1	<1	<1	43	45	46		<0.5	23	<1	3	37.9	63.8	57
ANM-470	22-Aug-19	1	<1	<1	55	57	53		<0.5	48	<1	9	15.5	72.2	65
ANM-470	6-Dec-19	1	<1	<1	52	54	51		<0.5	12	<1	<2	29.4	41.9	61
ANM-470	28-Feb-20	1	<1	<1	62	64	55		<0.5	14	<1	3	11.3	28.5	52
ANM-470	28-May-20	1	<1	<1	41	43	55		<0.5	21	<1	3	30.4	54.3	49
ANM-473	30-May-18	1	<1	<1	47	48			<0.5	10	<1	<2	27.3	38.6	
ANM-473	10-Aug-18	<1	<1	<1	34	35			<0.5	10	<1	<2	23.7	34.9	
ANM-473	22-Nov-18	2	<1	<1	49	51			<0.5	4	<1	<2	10	15.2	
ANM-473	26-Mar-19	2	<1	<1	67	70	51		<0.5	15	<1	<2	28.5	46.5	34
ANM-473	15-May-19	1	<1	<1	45	47	51		<0.5	18	<1	3	41.5	62.6	40
ANM-473	27-Aug-19	1	<1	<1	44	46	54		<0.5	8	<1	<2	12.7	20.4	36
ANM-473	6-Dec-19	1	<1	<1	59	60	56		<0.5	9	<1	<2	35.1	45.3	44

Sample	Date Sampled	THM (ppb)						HAA (ppb)						
		Bromodichloromethane	Bromoform	Chlorodibromomethane	Chloroform	Total Trihalomethanes	**Total THM Quarterly Average (Guileline Limit 100 ppb)**	Dibromoacetic Acid	Dichloroacetic Acid	Monobromoacetic Acid	Monochloroacetic Acid	Trichloroacetic Acid	Total Haloacetic Acid	**Total HAA Quarterly Average (Guileline Limit 80 ppb)**
ANM-473	25-Feb-20	<1	<1	<1	40	42	49	<0.5	10	<1	<2	23.5	34.9	41
ANM-473	11-Aug-20	1	<1	<1	75	77	56	<0.5	17	<1	<2	46.3	63.8	41
ANM-473	3-Dec-20	<1	<1	<1	58	59	60	<0.5	13	<1	3	<0.5	16.5	40
ANM-473	25-Feb-21	<1	<1	<1	51	52	58	<0.5	10	<1	4	29.4	43.7	40
ANM-474	02-Jun-20	1	<1	<1	49	52		<0.5	15	<1	<2	25.6	40.8	
ANM-474	11-Aug-20	1	<2	<2	43	45		<0.5	16	1	<2	30.4	47.8	
ANM-474	3-Dec-20	<1	<1	<1	51	52		<0.5	26	<1	4	49.6	80	
ANM-474	25-Feb-21	<1	<1	<1	35	37	47	<0.5	12	<1	5	18.3	35.6	52

Appendix #4

Anmore Water Quality Sampling Station Map


ANM 473
ANM 470
City of Port Moody
City of Port Moody

VILLAGE OF ANMORE

REPORT TO COUNCIL

Date:	June 29, 2022	File No. 170-02-04
Submitted by:	C. Boit, P.Eng, Manager of Development Services	
Subject:	2022 Capital Works Request for additional funding	

Purpose / Introduction

The purpose of this report is obtain a decision from Council on whether to proceed with the award of the 2022 Capital Works Program, which will require a transfer from Capital reserves to finance the shortfall in allocated funding.

Recommended Option

1. THAT Council approve the transfer of $231,310 from the Capital Reserves and authorize the award the 2022 Capital Works Program to Jack Cewe for a total contract price of $819,332 including GST.

Background

The Village tendered the 2022 Capital Works Program via a competitive tender process. The Village received 4 bids (**Attachment 1**), all of which were substantially over the allocated budget for the 2022 program.

Discussion

The Village entered negotiations with the lowest compliant bidder (Jack Cewe), in hope of reducing the scope and completing the essential road rehabilitation components of the program within the budget allocated for the 2022 Program. The essential items are Hemlock Road rehabilitation, Sunnyside Rd rehabilitation and Crystal Creek drainage improvements.

We have negotiated the scope of work and corresponding rates from $1.34M to $819,000 (including GST). Previous funding allocated through the 2022-2025 Five-Year Financial Plan was for $670,590. Therefore, there is a shortfall in funding of $148,410 ($819,000-$670,590) and no contingency.

To award the Contract and provide a 10% contingency ($819,000 x 10% = $81,900) it is recommended that an additional $231,310 of funding is transferred from the Capital reserve fund to complete the essential work.

Options

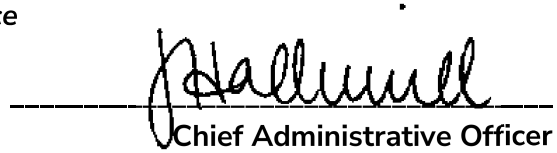
2. THAT Council provide direction to transfer $231,310 from the Capital Reserves and proceed with the 2022 Capital Works Program

   OR

3. THAT Council direct staff not to proceed with the 2022 Capital Works Program

Attachments

1. Capital Works Summary

Prepared by:
 Chris Boit, P.Eng Manager of Development Services
Reviewed for Form and Content / Approved for Submission to Council:
Chief Administrative Officer's Comment/Concurrence  **Chief Administrative Officer**

Form of Tender - Appendix 1

Village of Anmore 2022 Capital Works
T22-01
MISCELLANEOUS ROADWORKS

SCHEDULE OF QUANTITIES AND PRICES

(See paragraph 5.3.1 of the Instructions to Tender - Part II)

(All prices and *Quotations* including the *Contract Price* shall include all *Taxes*)

TENDER SUMMARY SHEET

		MAINLAND CONSTRUCTION MATERIAL ULC dba WINVAN PAVING	LAFARGE CANADA INC.	ALL ROADS CONSTRUCTION LTD.	JACK CEWE CONSTRUCTION LTD.
	TENDER PRICE (SUB-TOTAL)	$ 1,643,920.52	$ 1,614,495.00	$ 1,377,300.00	$ 1,280,937.70
	GST @ 5%	$ 82,196.03	$ 80,724.75	$ 68,865.00	$ 64,046.89
	TENDER PRICE plus GST	**$ 1,726,116.54**	**$ 1,695,219.75**	**$ 1,446,165.00**	**$ 1,344,984.59**

PUBLIC HEARING– MINUTES

Minutes for the Public Hearing scheduled for
Tuesday, June 21, 2022 at 7:00 p.m. in **Gymnasium at Anmore Elementary School, 30 Elementary Road,** Anmore, BC

---

1. Call to Order

The chair called the meeting to order at 7:00 p.m.

2. Opening Statement by Chair – Mayor John McEwen

Mayor John McEwen read the public hearing statement which is included as Attachment 1 and forms part of these minutes.

The Chief Administrative Officer confirmed that legislative requirements for notice of the public hearing was met. Ms. Halliwell confirmed that no written submission was received prior to the public hearing.

3. Presentation of Zoning Bylaw Amendment Bylaw No. 661-2022

Mr. Chris Boit, Manager of Development Services provided an overview of the proposed bylaw amendment including changes to parking requirements and a reduction in interior side yard setback requirements for the Anmore Community Hub site, as well as a change from P2 (Parkland) to P1 (Civic) to allow for structures to be built within the parcel. Additionally, the proposed amending bylaw includes a change for two properties on Alpine Drive from C3 (Equestrian) to RS1 (Residential) which is reflective of the original zoning for the existing residential properties.

Mayor McEwen called for speakers for the first, second and third time. There were no speakers.

4. Presentation of Zoning Bylaw Amendment Bylaw No 662-2022

Mr. Chris Boit, Manager of Development Services provided an overview of the proposed bylaw amendment including a general overview of the Birch Wynde neighbourhood which is currently zoning RS1 and is proposed to be rezoned to RS2 to accommodate the rebuilding of current structures that do not conform to current RS1 floor area ratio and setbacks.

Mayor McEwen called for speakers for the first, second and third time and seeing none:

5. Close of Public Hearing

Mayor McEwen declared the public hearing closed at 7:08 p.m.

_____ _____

Karen Elrick
Corporate Officer

John McEwen
Chair

Public Hearing Chairperson Statement – June 21, 2022

Good Evening. Thank you all for coming tonight for the Public Hearing on the proposed amendments to the Village of Anmore Zoning Bylaw. This Hearing is being held under the authority of section 464 of the *Local Government Act*.

Council for the Village of Anmore has given first and second readings to Zoning Bylaw Amendment Bylaw No. 661-2022 and 662-2022 and directed that this Public Hearing be held.

I will now ask the Ms. Halliwell to confirm that the public hearing has been appropriately advertised and notice provided.

Staff will present a summary of the proposed bylaw and following the summary, the floor will be opened to anyone in attendance that wishes to present his or her views on the proposed bylaw. Please note that this is not a question and answer period and it is not an opportunity to debate the merits of the proposed bylaw with Council, staff, or others in attendance.

We want to ensure that all attendees who wish to speak tonight are provided the opportunity to do so. If you wish to provide comments, please come to the podium when invited to do so and begin your presentation by clearly stating your name and address for the official record.

A 3 minute time limit will apply to each speaker, and a second opportunity will be provided after everyone has been given the chance to provide comments for the first time.

Before the Public Hearing concludes I will make a call for speakers three times before concluding the Hearing. Once the Public Hearing is concluded, the *Local Government Act* requires that Council not accept any further input from the public relating to the proposed amendment bylaw prior to consideration of the next reading of the bylaw.

I now ask Mr. Boit, Manager of Development Services, to present the Zoning Bylaw Amendment.

June 16, 2022 0560-30

Via Email

Dear Mayor and Council,

Re: Hospice Services Funding – UBCM resolution from Town of Gibsons

At our May 17, 2022 Regular meeting, Council considered and adopted the following resolution:

> "WHEAREAS Hospice Societies across BC offer services and innovative programs which enhance the quality of life of palliative patients and their caregivers in the community where they live, as well as supportive bereavement programs for those who are left behind:
>
> AND WHEREAS reliable government funding necessary for the sustainability of the essential social service provided by Hospice Societies is inconsistent and irregular:
>
> NOW THEREFORE BE IT RESOLVED that UBCM call upon the Government of British Columbia to recognize the established place of Hospice Societies in the continuum of palliative care and bereavement support and develop a funding model which provides annual operational funding to community-based hospice societies for the provision of programs and services:
>
> AND FURTHER THAT UBCM encourages local governments to also contribute financial support to Hospice Societies within their communities."

Thank you in advance for your support and consideration for this resolution. Please feel free to contact our office should you have any questions or comments.

Yours truly,

William Beamish
Mayor of Gibsons