



**General Purposes Committee
Electronic Meeting**

**Council Chambers, City Hall
6911 No. 3 Road**

**Monday, July 18, 2022
4:00 p.m.**

Pg. # ITEM

MINUTES

GP-4 *Motion to adopt the **minutes** of the meeting of the General Purposes Committee held on July 4, 2022.*



DELEGATIONS

1. Joanne Morneau, Fabric Bag Solution volunteer sewing group, to delegate on the City of Richmond Single-Use Plastic Ban.

ENGINEERING AND PUBLIC WORKS DIVISION

2. **TECHNICAL AND ECONOMIC CONSIDERATIONS FOR ROOFTOP SOLAR ENERGY SYSTEMS FOR NEW BUILDINGS**
(File Ref. No. 10-6125-07-02) (REDMS No. 6915777)

GP-7

See Page GP-7 for full report

Designated Speaker: Peter Russell

STAFF RECOMMENDATION

That as described in the report titled “Technical and Economic Considerations for Rooftop Solar Energy Systems for New Buildings” dated June 30, 2022, from the Director, Sustainability and District Energy, staff proceed with engaging local builders and developers as part of identifying regulatory and incentive pathways to advance building electrification and on-site low carbon energy systems, including rooftop solar PV systems, and report back.



3. **STEVESTON COMMUNITY CENTRE AND BRANCH LIBRARY – FORM AND CHARACTER**

(File Ref. No. 06-2052-25-SCCR1) (REDMS No. 6913914)

GP-26

See Page GP-26 for full report

Designated Speaker: Martin Younis

STAFF RECOMMENDATION

That the form and character design for the Steveston Community Centre and Branch Library as outlined in the report titled, “Steveston Community Centre and Branch Library – Form and Character Design”, dated June 30, 2022 from the Director, Facilities and Project Development and the Director, Recreation and Sport Services be approved.



DEPUTY CAO'S OFFICE

4. **COUNCIL STRATEGIC PLAN 2018-2022 TERM HIGHLIGHTS**

(File Ref. No. 01-0005-01) (REDMS No. 6908395)

GP-38

See Page GP-38 for full report

Designated Speaker: Jason Kita

STAFF RECOMMENDATION

(1) *That the report titled, “Council Strategic Plan 2018-2022 Term Highlights” dated June 7, 2022, from the Director, Intergovernmental Relations and Corporate and Strategic Planning, be received for information; and*

- (2) *That the attached reports titled, “Council Strategic Plan 2018-2022: Achievement Highlights” (Attachment 1) and “Council Strategic Plan 2018-2022: Achievement Highlights Overview” (Attachment 2) be made available for download on the City of Richmond website.*



5. **PROPOSED NEW FEDERAL ELECTORAL DISTRICT BOUNDARIES - RICHMOND**

(File Ref. No. 01-0103-01) (REDMS No. 6905974)

GP-132

See Page GP-132 for full report

Designated Speaker: Jason Kita

STAFF RECOMMENDATION

That the information outlined in the report titled “Proposed New Federal Electoral District Boundaries – Richmond” dated May 25, 2022, from the Director, Intergovernmental Relations and Corporate and Strategic Planning, be received for information.



PLANNING AND DEVELOPMENT DIVISION

6. **HIGHWAY 99 TUNNEL PROGRAM - UPDATE**

(File Ref. No. 10-6350-06-03) (REDMS No. 6903210)

GP-143

See Page GP-143 for full report

Designated Speaker: Sonali Hingorani

STAFF RECOMMENDATION

That the report titled “Highway 99 Tunnel Program - Update” dated June 21, 2022, from the Director, Transportation be received for information.



NOTICE OF MOTION

General Purposes Committee Agenda – Monday, July 18, 2022

Pg. # ITEM

7. **BANNING MARINE SCRUBBERS**
(File Ref. No.)

See Page **GP- 154** for background material

Designated Speaker: Councillor Carol Day

RECOMMENDATION

That Council write to the Federal Government, Minister of Environment and our Local Members of Parliament to ask them to ban marine scrubbers in Canadian waters.

☐

ADJOURNMENT

☐



General Purposes Committee

Date: Monday, July 4, 2022

Place: Council Chambers
Richmond City Hall

Present: Mayor Malcolm D. Brodie, Chair
Councillor Chak Au
Councillor Carol Day (by teleconference)
Councillor Andy Hobbs
Councillor Alexa Loo
Councillor Bill McNulty
Councillor Linda McPhail (by teleconference)
Councillor Harold Steves (by teleconference)
Councillor Michael Wolfe (by teleconference)

Call to Order: The Chair called the meeting to order at 4:00 p.m.

NOTICE OF MOTION

Councillor Day put forward the following Notice of Motion to be considered at the July 18, 2022 General Purposes Committee meeting:

That a letter be written to the Federal Government, Minister of Environment and Local Members of Parliament to ask them to ban marine scrubbers in Canadian waters.

MINUTES

It was moved and seconded

That the minutes of the meeting of the General Purposes Committee held on June 20, 2022, be adopted as circulated.

CARRIED

General Purposes Committee

Monday, July 4, 2022

DELEGATIONS

1. Yannick Simovich, Board Chair, and Nancy Small, CEO, Tourism Richmond, were in attendance to provide an update on the tourism industry and Tourism Richmond's activities.

A PowerPoint presentation was given (copy on file) highlighting the areas of focus in developing and marketing a thriving tourism industry and visitor experience to Richmond.

It was noted that the Richmond Discovery Shuttle bus will be operating on weekends and statutory holidays from June 25 through September 5, 2022, providing an alternate form of transportation for residents and visitors from central Richmond, connecting Lansdowne station, the Richmond Oval and Steveston. It is anticipated the success of this service, in partnership with Tourism Richmond, the City of Richmond and the Richmond Hotel Association, will see an expansion of the program for 2023 and beyond.

It was further noted the Bicycle Valet is open from July 1st through September 5th on weekends and statutory holidays (10am – 6pm), providing a free secured area for bicycles while visiting Steveston, and also promoting bike connections throughout Richmond as an alternate form of transportation.

Discussion ensued with respect to the market shift and challenges to the tourism industry over the past two years, most notably the overall labour shortage.

In closing, the delegation noted the considerable amount of work around sustainability and additional tourism opportunities for Richmond as a result.

COMMUNITY SERVICES DIVISION

2. **2022 UBCM COMMUNITY EXCELLENCE AWARDS**

(File Ref. No. 01-0103-01) (REDMS No. 6896973)

That the City's entries for the Union of BC Municipalities (UBCM) Community Excellence Awards be endorsed, including:

- (1) *Excellence in Service Delivery: Single-Use Plastic and Other Items Bylaw No. 10000;*
- (2) *Excellence in Asset Management: City of Richmond Flood Protection Program; and*
- (3) *Excellence in Sustainability: Brighthouse Fire Hall No. 1 – Solar Photovoltaic Panel Installation.*

CARRIED

2.

General Purposes Committee
Monday, July 4, 2022

ADJOURNMENT

It was moved and seconded

That the meeting adjourn (4:21 p.m.).

CARRIED

Certified a true and correct copy of the
Minutes of the meeting of the General
Purposes Committee of the Council of the
City of Richmond held on Monday,
July 4, 2022.

Mayor Malcolm D. Brodie
Chair

Lorraine Anderson
Legislative Services Associate



City of Richmond

Report to Committee

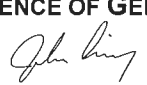

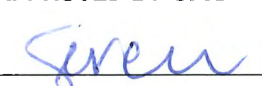
To: General Purposes Committee **Date:** June 30, 2022
From: Peter Russell, MCIP RPP **File:** 10-6125-07-02/2022-
Director, Sustainability and District Energy Vol 01
Re: **Technical and Economic Considerations for Rooftop Solar Energy Systems for New Buildings**

Staff Recommendation

That as described in the report titled “Technical and Economic Considerations for Rooftop Solar Energy Systems for New Buildings” dated June 30, 2022, from the Director, Sustainability and District Energy, staff proceed with engaging local builders and developers as part of identifying regulatory and incentive pathways to advance building electrification and on-site low carbon energy systems, including rooftop solar PV systems, and report back.

Peter Russell, MCIP RPP
Director, Sustainability and District Energy
(604-276-4130)

Att. 1

REPORT CONCURRENCE		
ROUTED TO:	CONCURRENCE	CONCURRENCE OF GENERAL MANAGER
Building Approvals	<input checked="" type="checkbox"/>	
Development Applications	<input checked="" type="checkbox"/>	
Policy Planning	<input checked="" type="checkbox"/>	
SENIOR STAFF REPORT REVIEW	INITIALS: 	APPROVED BY CAO 

Staff Report

Origin

At the Planning Committee meeting of December 18, 2018, City Council resolved that:

“Staff examine the potential of a comprehensive policy on solar panels, in particular including options for incentives, and the environmental and economic impacts, and report back.”

At the Council Meeting of June 8, 2020, City Council resolved that:

“Staff examine the requirements for increasing the capacity for electric vehicle charging stations for non-residential projects, including a review of rooftop solar panels and rooftop agricultural uses, and report back.”

This report responds to the request for staff to conduct a review of rooftop solar panels. Proposed EV charging infrastructure requirements for non-residential buildings will be covered in a forthcoming report.

This report supports Council’s Strategic Plan 2018-2022 Strategy #2 A Sustainable and Environmentally Conscious City:

Environmentally conscious decision-making that demonstrates leadership in implementing innovative, sustainable practices and supports the City's unique biodiversity and island ecology.

2.1 Continued leadership in addressing climate change and promoting circular economic principles.

This report supports the implementation of the City’s Community Energy and Emissions Plan 2050, and OCP emission reduction policies through:

Strategic Carbon Neutral New Buildings

Direction 3:

- Actions:
- ☒ Advance implementation of low carbon energy systems in new construction
 - ☒ Raise awareness of the benefits of building electrification
 - ☒ Encourage cost-effective on-site renewable energy generation in new construction

Analysis

This report presents key findings from technical and economic analysis of rooftop solar photovoltaic (PV) energy systems for new residential, commercial office and industrial buildings, representing the first phase of work on the above referrals. A subsequent report on policy options will be completed following engagement with building design and construction stakeholders in the fall of 2022, subject to Council approval to proceed with the second phase of work.

Background on Solar-Friendly Richmond Framework

On January 28, 2016, Council endorsed a high-level policy approach for utilizing solar energy systems on both City facilities and private buildings within the *Solar-Friendly Richmond Framework*. The report provided conclusions on the applicability of three solar technologies:

- **Solar photovoltaic (PV) systems** (panels producing electricity supplying energy to the building and/or electric grid); and
- **Solar hot water systems** (panels producing thermal energy for domestic hot water use and heating swimming pools); and
- **Solar air heating** (a solar collector is used to pre-heat air, which then provides supplemental heating to conditioned building space).

The staff report noted that solar PV systems have applicability to a wide range of buildings, particularly given continued reduction in the market costs of solar panels and supportive equipment such as PV array racking, wiring, charge controllers and inverters. Staff further note that there are a number of firms in BC with experience designing and installing rooftop PV arrays in a range of sizes and roof configurations.

The City installed a rooftop solar array at Brighthouse Fire Hall No. 1 in 2018. This building hosts 136 PV panel array that produces approximately 60,000 kWh of electric power annually. Excess power not used is sent directly to BC Hydro's electrical grid, and is credited against the building's electricity bill through a standard net-metering arrangement.

City Policy Direction on Building Energy Efficiency, Decarbonisation and Electrification

Community GHG emissions from the operation of buildings represent a significant proportion (41%) of annual citywide emissions, and actions to reduce these emissions are included in the Community Energy and Emissions Plan 2050. Council policy is for all new applicable buildings to meet the top performance level of the BC Energy Step Code (Step Code) at Building Permit by 2027. The Step Code is the primary regulatory tool to achieve more energy efficient new construction, with the top performance level of the Step Code considered 'net zero energy ready'.

In BC, building electrification has been identified as the main pathway to achieve major reductions in emission from buildings. BC's low emission electrical grid provides opportunities to quickly shift from high carbon fuel sources to near zero carbon sources of energy. This entails a large scale transition toward low-carbon mechanical systems, such as high efficiency electric heat pumps for space heating / cooling and domestic hot water, or connecting the building to low-carbon district energy within areas of Richmond being served by these systems.

Solar PV Costs and Grid Parity in BC

Rooftop PV systems can help offset annual electrical demand in buildings, and pairing a sufficiently sized onsite solar PV array on an energy efficient, all-electric building can make it possible to achieve net zero energy and net zero emission performance on an annual basis.

The total cost of solar PV includes the following components:

Hard Costs

- Solar module (i.e., the panel)
- Other hardware (inverters, charge controller, racking / mounting system)
- Financing cost and installer profit

Soft costs

- Permitting, inspection and interconnection (electrical permits, building permits, utility interconnection fee)
- Labour

Implementation of solar PV systems worldwide is accelerating rapidly. Continuous improvements in PV panel manufacturing and generation output, in tandem with decreasing production and installation costs, result in a steep and continuous decline in the cost of panels between 2008 and 2020, as per North American trend analysis done by the US National Renewable Energy Laboratory. As prices have declined, PV panels have become more efficient in converting sunlight to electrical energy (kWh per panel). Improvements to other hardware components, noted above, have further reduced system costs. As a result, solar PV systems have become a low cost power generation technology in many parts of the world. The only change in this 12-year trend has been a modest increase in costs in 2021 (since reaching the lowest price point in 2020) due to economic and supply chain disruptions of the past two years.

Greater Vancouver has lower total annual hours of sunshine than most urban regions in North America. BC also has some of the lowest grid electricity prices in North America. Another factor historically limiting solar energy projects in BC has been less generous incentives for solar energy relative to those available in the United States, although this situation has recently improved. As a result, local solar projects may still have longer payback periods than their counterparts in other areas of America. However, due to the declining cost of PV panels and related components in recent years, solar PV systems are becoming more economically viable in coastal BC.

Staff estimate that the total installed cost of a solar PV array would need to be no more than \$2.00 per Watt to be fully cost competitive with grid-supplied electricity at residential rates. Based upon a review of the engineering study prepared for City staff, as well as costing information provided by solar installers, staff estimate that the current cost per Watt installed for greater Vancouver would range between \$2.75 and \$2.25 per Watt, with larger arrays benefitting from economies of scale.

Interconnection to the BC Electrical Grid

Rooftop solar PV systems within BC Hydro's service area typically connect to the provincial electrical distribution grid via the utility's Net Metering Program. This program has been set up for residential and commercial customers with an onsite solar PV system. Net metering allows a building to draw energy from the electrical grid as needed, but also send excess energy to the grid when generating more kilowatts than the building uses. In effect, local generation offsets a portion of the building's electrical consumption, allowing it to receive a credit on their utility bill (excess generation is credited by BC Hydro to the account at a rate of 9.99 cents per kWh).

BC Hydro also sets a maximum generation limit for 'simple net metering' projects up to 27 kW in size, rated at 425 Watts / panel); and up to 100 kW for 'complex net metering projects, rated at 425 Watts / panel) under BC Hydro's Net Metering Program.

Technical and Economic Analysis – Methodology

To complete the first phase of this project, detailed energy modelling was conducted to predict the level of energy used in a building constructed to a mid level and top level of the BC Energy Step Code, and the Passive House standard. Staff sought to assess the modelled physical size of a PV array, annual generation potential, and estimated total cost of rooftop mounted PV in eleven representative new building archetypes in Richmond.

For purposes of this analysis, each building type, except for industrial, was modelled at three performance levels:

- 1) Mid level of BC Energy Step Code;
- 2) Top level of BC Energy Step Code; and,
- 3) Certified Passive House standard.

Scenario (1) reflects modelled energy demand in a mid-Step Code building, establishing a baseline for comparison. Scenarios (2) and (3) are at the highest levels of building energy efficiency, referred to as ‘net zero energy ready’ performance.

To establish consistent and comparable benchmarks that could inform future policy measures and/or regulatory requirements, energy modelling was conducted for each building archetype using software from the US National Renewable Energy Laboratory (PV Watts Calculator) and Photovoltaic Geographic Information System (PVGIS) by the European Commission. Using these tools, determination was made of array size (number of panels), area of roof coverage, power generation potential and capital cost of an onsite PV system that could offset all, or a portion of, annual grid electricity use for each building type, under the following scenarios:

- a) Offset 100% of the building’s total annual energy requirement;
- b) Offset the building’s annual internal and external electrical lighting load;
- c) Offset the building’s annual external electrical lighting load only;
- d) Offset total modelled annual cooling load only; and,
- e) Offset 10% of modelled annual load (kWh/year) for Level 2 electric vehicle charging.

See Attachment 1 for tables showing modelled solar PV offset potential for each building type, and at the three levels of building energy efficiency noted above.

Key Findings

Analysis indicates that for smaller residential buildings (single-detached, duplexes and townhouses) there is sufficient roof space for solar PV to significantly offset electrical energy demand in these buildings, particularly as they reach the highest levels building energy efficiency (i.e., top level of the BC Energy Step Code or Passive House standard), and with comparatively fewer PV panels than what would be required at the mid level of the Step Code.

For larger multi-unit residential, commercial and industrial buildings, analysis indicated that there is sufficient roof space for solar PV to provide 100% of annual external lighting load in both hotels and mid-rise residential apartment buildings. External lighting loads are more significant in larger buildings, as they have parkades with 24-hour lighting requirements. For both mid rise and taller

multi-unit residential buildings, the model assumes all resident parking stalls have Level 2 charging capability, as per the City's Zoning Bylaw requirement. For mid rise residential buildings, up to 25% of annual EV charging loads could be offset by an onsite PV array, and up to 10% can be offset in a taller multi-unit residential building.

Smaller buildings offer relatively greater potential than larger buildings to offset electricity loads with an onsite solar PV array. This is a reflection of building form factor, where small buildings have more roof area relative to total floor area. For large buildings (other than industrial warehouses), roof area is much smaller relative to total floor area, so the potential to completely offset annual electrical load is more limited. Staff also note that the other factor limiting array size in larger buildings is BC Hydro's cap of 100 kW for net metering projects, which means a maximum array size of 224 to 235 PV panels based upon annual productivity of 430 to 445 kWh per panel.

With respect to integrating onsite solar PV in a building that is also served by low-carbon district energy, both systems would be entirely compatible. The thermal energy delivered by district energy would complement the electrical energy supplied to the building through a combination of onsite solar PV and connection to the BC electrical grid.

Phase 2: Opportunities for Solar PV to Support Building Electrification and Decarbonisation

With Phase 1 analysis completed, staff are requesting Council approval to proceed to the next stage of this work, which would explore policy and regulatory approaches, identify potential incentives, and understand market drivers by answering the following questions:

- **Advancing Net Zero Energy buildings:** What role could onsite solar PV have in supporting the transition toward low energy buildings (top level of the Step Code and Passive House)?
- **Building decarbonisation and electrification:** What are the opportunities for onsite solar to help drive the transition to electric heat pumps for building heating and cooling? Are there 'niche' roles for onsite solar to improve the business case for electrification (e.g., avoiding higher Tier 2 electricity rates in high-demand buildings)?
- **Enhancing energy and climate resiliency:** Do onsite solar PV systems have a role in advancing building resiliency in Richmond? Can they play a role in offsetting a portion of rising grid electricity demand due to electrification of buildings and vehicles?
- **Use of rooftop space and south-facing walls in larger multi-unit residential buildings:** What are the potential friction points in potentially situating a solar PV array within an outdoor residential amenity space or green roof? Could we eventually see building integrated photovoltaic panels (BIPs) in vertical cladding elements in BC?

Staff will engage with building design and construction community, solar PV system installers, affordable housing providers and other subject area experts to further refine the conclusions reached in Phase 1. Three workshops will be convened to facilitate dialogue and exchange ideas on technical and economic considerations, including exploration of opportunities and potential directions with respect to policy, regulation, and incentives. With Council approval, staff will conduct a three-part engagement process that will begin in fall 2022, as shown in Table 1.

Table 1 – Proposed Industry Dialogues on Opportunities and Directions

Explore Ideas and Cost Factors	Options and Trade-Offs	Proposed Approaches	Council Review
Workshop 1	Workshop 2	Workshop 3	
Review results from Phase 1 analysis and explore opportunities for each building type	Deep dive into opportunities and gather feedback on how they could drive building electrification	Identify preferred approaches for proposed policy, incentive and regulatory measures	Present engagement results and recommended approach for Council consideration

With Council approval, staff will proceed with Phase 2 of this work in fall 2022, and report back with options for consideration.

Financial Impact

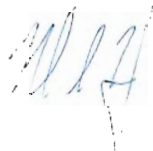
None.

Conclusion

Staff have completed analysis of technical and economic considerations for rooftop solar PV systems for new buildings, with modelling of solar PV offset potential completed for ten building archetypes, and at mid- and high-levels of building energy efficiency. A second phase of work is proposed for Council consideration, beginning in fall 2022. This would engage the building design and construction community in exploration of opportunities and options that would inform proposed policy, regulatory, and incentive drivers for building electrification and decarbonisation, including the role of onsite solar PV systems in supporting these objectives.



Norm Connolly, MCIP RPP
Manager, Sustainability
(604-247-4676)



Nicholas Heap
Project Manager, Sustainability
(604-276-4267)

Att. 1: Solar PV Offset Potential for Modelled New Building Archetypes in Richmond

Solar PV Offset Potential for Modelled New Building Archetypes in Richmond

Modelled Archetypes and Building Characteristics Summary

Archetype	Roof Type	Floor Area (m ²)	Building Height (m)	Total Roof Area (m ²)	Dwelling Units
Single-Detached Home	45-degree slope	202	9	176	1
Single-Detached Home	flat roof	285	9	120	1
Single-Detached Home	low-angle roof	286	9	150	1
Duplex	45-degree slope	234	8	162	2
Townhouse ¹	flat roof	438	10	350	3
Mid-Rise MURB ²	flat roof	14,326	25	2,360	160
14 floor MURB ²	flat roof	29,830	47	895	361
14 floor Hotel ²	flat roof	7,295	47	660	100
10 floor Office ²	flat roof	6,151	35	1,200	-
Light Industrial	flat roof	8,286	16	2,870	-
Large Industrial	flat roof	46,542	15	16,124	-


⁽¹⁾ Townhouse archetype is a 15-unit complex, with a 3-unit building being modelled.

⁽²⁾ Assumes mixed-use building with ground floor retail / restaurant uses, utilizing 381 m² of floor area.

Solar PV Offset Potential for Modelled New Building Archetypes in Richmond

Single-Detached Home (45-degree roof)

Single-Detached Home (45-degree roof)										
Target Scenario	Electrical Load (kWh/year)	Max Solar Capacity (kWp)	Per Panel Productivity (kWh/year)	Solar Output (kWh/year)	% of Target	# of Panels	% of Roof Covered	Cost	Payback Period	IRR
Mid Level Step Code										
Offset 100% Annual Electrical Load (kWh/year)	19,277	17.4	479	19,647	102%	41	62%	\$47,919	23	0.98%
Offset Internal and External Lighting	3,317	3.0	479	3,354	101%	7	8%	\$8,181	23	0.98%
Offset External Lighting Load Only	1,253	1.3	479	1,438	115%	3	3%	\$3,506	23	0.98%
Offset Annual Cooling Load	5,656	5.1	479	5,750	102%	12	14%	\$14,025	23	0.98%
Top Level Step Code										
Offset 100% Annual Electrical Load (kWh/year)	15,237	13.6	479	15,334	101%	32	36%	\$37,400	23	0.98%
Offset Annual Cooling Load	2,545	2.6	479	2,875	113%	6	7%	\$7,013	23	0.98%
Passive House Standard										
Offset 100% Annual Electrical Load (kWh/year)	14,043	12.8	479	14,376	102%	30	34%	\$35,063	23	0.98%
Offset Internal and External Lighting	2,654	2.6	479	2,875	108%	6	7%	\$7,013	23	0.98%
Offset External Lighting Load Only	1,002	1.3	479	1,438	143%	3	3%	\$3,506	23	0.98%
Offset Annual Cooling Load	2,262	2.1	479	2,396	106%	5	6%	\$5,844	23	0.98%
EV Charging Load										
Offset 10% Annual EV Charging Load (kWh/year)	422	0.4	479	479	114%	1	1%	\$1,169	23	0.98%
Offset 100% Annual EV Charging Load (kWh/year)	4,220	4.0	479	4,790	114%	10	10%	\$11,690	23	0.98%

 Modelled building energy loads that could be entirely offset with an onsite solar PV array.


Notes to modelling results table:

- Due to the roof angle in the single-detached sample provided by City staff, 62% of roof coverage is the maximum amount PV array coverage that can be installed on this sample home (or 41 panels) in a home achieving Step 3 of the BC Energy Step Code. The array size drops to 32 panels at Step Code level 5, and 30 panels at a Passive House level of energy efficiency.
- All modelled electrical loads for this home can be fully offset with an onsite solar PV array at the sizes indicated.

Solar PV Offset Potential for Modelled New Building Archetypes in Richmond

Single-Detached Home (flat roof)

Single-Detached Home (flat roof)										
Target Scenario	Electrical Load (kWh/year)	Max Solar Capacity (kWp)	Per Panel Productivity (kWh/year)	Solar Output (kWh/year)	% of Target	# of Panels	% of Roof Covered	Cost	Payback Period	IRR
Mid Level Step Code										
Offset 100% Annual Electrical Load (kWh/year)	25,466	14.0	442	14,589	57%	33	83%	\$37,166	22	0.43%
Offset Internal and External Lighting	4,683	4.7	442	4,863	104%	11	28%	\$11,660	22	0.43%
Offset External Lighting Load Only	1,770	2.1	442	2,210	125%	5	13%	\$5,300	22	0.43%
Offset Annual Cooling Load	7,980	8.1	442	8,400	105%	19	48%	\$20,140	22	0.43%
Top Level Step Code										
Offset 100% Annual Electrical Load (kWh/year)	19,766	14.0	442	14,589	74%	33	83%	\$37,166	22	0.43%
Offset Annual Cooling Load	3,591	3.8	442	3,979	111%	9	23%	\$9,540	22	0.43%
Passive House Standard										
Offset 100% Annual Electrical Load (kWh/year)	18,081	14.0	442	14,589	81%	33	83%	\$37,166	22	0.43%
Offset Internal and External Lighting	3,746	3.8	442	3,979	106%	9	23%	\$9,540	22	0.43%
Offset External Lighting Load Only	1,416	1.7	442	1,768	125%	4	10%	\$4,240	22	0.43%
Offset Annual Cooling Load	3,192	3.4	442	3,537	111%	8	20%	\$8,480	22	0.43%
EV Charging Load										
Offset 10% Annual EV Charging Load (kWh/year)	422	0.4	442	442	105%	1	3%	\$1,060	22	0.43%
Offset 100% Annual EV Charging Load (kWh/year)	4,220	4.0	442	4,420	105%	10	27%	\$10,600	22	0.43%

 Modelled building energy loads that could be entirely offset with an onsite solar PV array.

Notes to modelling results table:

- Due to the configuration of the roof in the sample provided by City staff, some areas of the roof are not large enough to house PV panels, or are shaded by taller parts of the roof.
- Overall, the maximum PV array roof coverage on this sample home is 83% of the available portion of the roof (or 33 panels), in a home achieving Step 3 of the BC Energy Step Code.
- With the exception of 100% of annual electrical load, all other modelled electrical loads can be fully offset by an onsite PV array.

Solar PV Offset Potential for Modelled New Building Archetypes in Richmond

Single-Detached Home (low angle roof)

Single-Detached Home (low angle roof)										
Target Scenario	Electrical Load (kWh/year)	Max Solar Capacity (kWp)	Per Panel Productivity (kWh/year)	Solar Output (kWh/year)	% of Target	# of Panels	% of Roof Covered	Cost	Payback Period	IRR
Mid Level Step Code										
Offset 100% Annual Electrical Load (kWh/year)	25,541	21.3	446	22,282	87%	50	70%	\$58,438	22	0.65%
Offset Internal and External Lighting	4,698	4.7	446	4,902	104%	11	15%	\$12,100	22	0.65%
Offset External Lighting Load Only	1,775	1.7	446	1,783	100%	4	5%	\$4,400	22	0.65%
Offset Annual Cooling Load	8,008	7.7	446	8,022	100%	18	24%	\$19,800	22	0.65%
Top Level Step Code										
Offset 100% Annual Electrical Load (kWh/year)	19,821	19.1	446	20,054	112%	45	60%	\$52,594	22	0.65%
Offset Annual Cooling Load	3,604	3.8	446	4,011	111%	9	12%	\$9,900	22	0.65%
Passive House Standard										
Offset 100% Annual Electrical Load (kWh/year)	18,129	17.4	446	18,271	101%	41	54%	\$47,919	22	0.65%
Offset Internal and External Lighting	3,758	3.8	446	4,011	107%	9	12%	\$10,519	22	0.65%
Offset External Lighting Load Only	1,420	1.7	446	1,783	126%	4	5%	\$4,400	22	0.65%
Offset Annual Cooling Load	3,203	3.4	446	3,565	111%	8	11%	\$8,800	22	0.65%
EV Charging Load										
Offset 10% Annual EV Charging Load (kWh/year)	422	0.4	446	446	106%	1	1%	\$1,100	22	0.65%
Offset 100% Annual EV Charging Load (kWh/year)	4,220	4.0	446	4,460	106%	10	10%	\$11,000	22	0.65%

 Modelled building energy loads that could be entirely offset with an onsite solar PV array.

Notes to modelling results table:

- Due to the configuration of the roof in the sample provided by City staff, 70% of roof coverage (50 panels) is the maximum array size that can be installed on this single-detached home achieving Step 3 of the BC Energy Step Code.
- With the exception of offsetting 100% of electrical load at Step Code level 3, all other modeled electrical loads can be fully offset with an onsite solar PV array.

Solar PV Offset Potential for Modelled New Building Archetypes in Richmond

Duplex (flat roof)

Duplex Home (flat roof)										
Target Scenario	Electrical Load (kWh/year)	Max Solar Capacity (kWp)	Per Panel Productivity (kWh/year)	Solar Output (kWh/year)	% of Target	# of Panels	% of Roof Covered	Cost	Payback Period	IRR
Mid Level Step Code										
Offset 100% Annual Electrical Load (kWh/year)	25,893	21.3	478	23,889	92%	50	62%	\$58,438	22	0.96%
Offset Internal and External Lighting	3,031	3.0	478	3,344	110%	7	9%	\$8,181	22	0.96%
Offset External Lighting Load Only	637	0.9	478	956	150%	2	2%	\$2,338	22	0.96%
Offset Annual Cooling Load	6,558	6.0	478	6,689	102%	14	17%	\$16,363	22	0.96%
Top Level Step Code										
Offset 100% Annual Electrical Load (kWh/year)	21,209	19.1	478	21,500	101%	45	56%	\$52,594	22	0.96%
Offset Annual Cooling Load	2,951	3.0	478	3,344	113%	7	9%	\$8,181	22	0.96%
Passive House Standard										
Offset 100% Annual Electrical Load (kWh/year)	19,824	17.9	478	20,067	101%	42	52%	\$49,088	22	0.96%
Offset Internal and External Lighting	2,424	2.6	478	2,867	118%	6	7%	\$7,013	22	0.96%
Offset External Lighting Load Only	510	0.9	478	956	187%	2	2%	\$2,338	22	0.96%
Offset Annual Cooling Load	2,623	2.6	478	2,867	109%	6	7%	\$7,013	22	0.96%
EV Charging Load										
Offset 10% Annual EV Charging Load (kWh/year)	843	0.9	478	956	113%	2	2%	\$2,338	22	0.96%
Offset 100% Annual EV Charging Load (kWh/year)	8,430	9.0	478	9,560	113%	20	20%	\$23,380	22	0.65%

 Modelled building energy loads that could be entirely offset with an onsite solar PV array.

Notes to modelling results table:

- Due to the configuration of the roof in the sample duplex provided by the City, 62% of roof coverage (or 50 panels) is the maximum array size that can be installed in this duplex achieving Step 3 of the BC Energy Step Code.
- With the exception of offsetting 100% of electrical load at Step Code level 3, all other modeled electrical loads can be fully offset with an onsite solar PV array.

Solar PV Offset Potential for Modelled New Building Archetypes in Richmond

Townhouse (3 units, flat roof)

Townhouse (3 units, flat roof)										
Target Scenario	Electrical Load (kWh/year)	Max Solar Capacity (kWp)	Per Panel Productivity (kWh/year)	Solar Output (kWh/year)	% of Target	# of Panels	% of Roof Covered	Cost	Payback Period	IRR
Mid Level Step Code										
Offset 100% Annual Electrical Load (kWh/year)	60,067	38	442	39,785	66%	90	77%	\$101,363	22	0.84%
Offset Internal and External Lighting	5,424	5.5	442	6,189	114%	13	11%	\$14,641	22	0.84%
Offset External Lighting Load Only	946	1.3	442	1,326	140%	3	3%	\$3,379	22	0.84%
Offset Annual Cooling Load	12,268	11.9	442	12,378	101%	28	24%	\$31,535	22	0.84%
Top Level Step Code										
Offset 100% Annual Electrical Load (kWh/year)	51,304	38.3	442	39,785	78%	90	77%	\$101,363	22	0.84%
Offset Annual Cooling Load	5,520	5.5	442	5,747	104%	13	11%	\$14,641	22	0.84%
Passive House Standard										
Offset 100% Annual Electrical Load (kWh/year)	48,713	38.3	442	39,785	82%	90	77%	\$101,363	22	0.84%
Offset Internal and External Lighting	4,339	4.3	442	4,421	102%	10	9%	\$11,263	22	0.84%
Offset External Lighting Load Only	757	0.9	442	884	117%	2	2%	\$2,253	22	0.84%
Offset Annual Cooling Load	4,907	5.1	442	5,305	108%	12	10%	\$13,515	22	0.84%
EV Charging Load										
Offset 10% Annual EV Charging Load (kWh/year)	2,740	2.8	442	2,878	105%	7	6%	\$7,420	22	0.84%
Offset 100% Annual EV Charging Load (kWh/year)	27,400	28.0	442	28,780	105%	21	18%	\$22,260	22	0.84%

 Modelled building energy loads that could be entirely offset with an onsite solar PV array.


Notes to modelling results table:

- Due to roof configuration and various rooftop equipment on the sample townhouse development, 77% of roof coverage (or 90 panels) is the maximum sized PV array that can be installed in a 3-unit townhouse project achieving Step 3 of the BC Energy Step Code.
- With the exception of offsetting 100% of electrical load in these townhouses, all other modeled electrical loads can be fully offset with an onsite solar PV array.

Solar PV Offset Potential for Modelled New Building Archetypes in Richmond

Mid-Rise MURB (6 floors, flat roof)

Mid-Rise MURB (6 floors, flat roof)										
Target Scenario	Electrical Load (kWh/year)	Max Solar Capacity (kWp)	Per Panel Productivity (kWh/year)	Solar Output (kWh/year)	% of Target	# of Panels	% of Roof Covered	Cost	Payback Period	IRR
Mid Level Step Code										
Offset 100% Annual Electrical Load (kWh/year)	2,479,816	100	432	101,500	4%	235	32%	\$235,000	22	1.38%
Offset Internal and External Lighting	215,358	100	432	101,500	47%	235	32%	\$235,000	22	1.38%
Offset External Lighting Load Only	68,949	68	432	69,106	100%	160	20%	\$159,800	22	1.38%
Offset Annual Cooling Load	401,118	100	432	101,500	25%	235	32%	\$235,000	22	1.38%
Top Level Step Code										
Offset 100% Annual Electrical Load (kWh/year)	2,193,303	100	432	101,500	5%	235	32%	\$235,000	22	1.38%
Offset Annual Cooling Load	180,503	100	432	101,500	56%	235	32%	\$235,000	22	1.38%
Passive House Standard										
Offset 100% Annual Electrical Load (kWh/year)	1,535,569	100	432	101,500	7%	235	32%	\$235,000	22	1.38%
Offset Internal and External Lighting	172,286	100	432	101,500	59%	235	32%	\$235,000	22	1.38%
Offset External Lighting Load Only	55,160	54	432	55,285	100%	128	16%	\$127,840	22	1.38%
Offset Annual Cooling Load	160,447	100	432	101,500	63%	235	32%	\$235,000	22	1.38%
EV Charging Load										
Offset 10% Annual EV Charging Load (kWh/year)	33,720	34	432	34,104	101%	84	11%	\$78,960	22	1.38%
Offset 25% Annual EV Charging Load (kWh/year)	84,300	85	432	85,260	101%	210	28%	\$197,400	22	1.38%

 Modelled building energy loads that could be entirely offset with an onsite solar PV array.

Notes to modelling results table:

- BC Hydro's net metering program limits onsite power generation to a maximum system size of 100kWp. The solar modelling results reflect that cap (which translates to 235 panels for this mid-rise residential building, at the rated panel efficiency).
- The mid-rise residential archetype has relatively large external lighting loads due to 24/7 parking garage lighting operation.
- 100% of external lighting load from this building can be fully offset with on onsite PV array.
- Up to 25% of total annual EV charging load in this building can be fully offset with on onsite PV array.

Solar PV Offset Potential for Modelled New Building Archetypes in Richmond

Tall MURB (14 floors, flat roof)

Tall MURB (14 floors, flat roof)										
Target Scenario	Electrical Load (kWh/year)	Max Solar Capacity (kWp)	Per Panel Productivity (kWh/year)	Solar Output (kWh/year)	% of Target	# of Panels	% of Roof Covered	Cost	Payback Period	IRR
Mid Level Step Code										
Offset 100% Annual Electrical Load (kWh/year)	4,693,919	100	431	101,339	2%	235	79%	\$235,000	22	1.37%
Offset Internal and External Lighting	728,516	100	431	101,339	14%	235	79%	\$235,000	22	1.37%
Offset External Lighting Load Only	222,040	100	431	101,339	46%	235	79%	\$235,000	22	1.37%
Offset Annual Cooling Load	835,239	100	431	101,339	12%	235	79%	\$235,000	22	1.37%
Top Level Step Code										
Offset 100% Annual Electrical Load (kWh/year)	4,680,943	100	431	101,339	2%	235	79%	\$235,000	22	1.37%
Offset Annual Cooling Load	375,857	100	431	101,339	27%	235	79%	\$235,000	22	1.37%
Passive House Standard										
Offset 100% Annual Electrical Load (kWh/year)	3,311,360	100	431	101,339	3%	235	79%	\$235,000	22	1.37%
Offset Internal and External Lighting	582,813	100	431	101,339	17%	235	79%	\$235,000	22	1.37%
Offset External Lighting Load Only	177,632	100	431	101,339	57%	235	79%	\$235,000	22	1.37%
Offset Annual Cooling Load	334,096	100	431	101,339	30%	235	79%	\$235,000	22	1.37%
EV Charging Load										
Offset 10% Annual EV Charging Load (kWh/year)	81,602	81	431	81,934	100%	190	64%	\$189,763	22	1.37%

 Modelled building energy loads that could be entirely offset with an onsite solar PV array.


Notes to modelling results table:

- BC Hydro's net metering program limits onsite power generation to a maximum system size of 100kWp. The solar modelling results reflect this cap (which translates to 235 panels for this mid-rise residential building, at the rated panel efficiency).
- The tall multi-unit residential building archetype has significantly larger external lighting loads due to 24/7 parking garage lighting operation.
- Up to 10% of total annual EV charging load in this building can be fully offset with on onsite PV array (190 panels).

Solar PV Offset Potential for Modelled New Building Archetypes in Richmond

Hotel (14 floors, flat roof)

Hotel (14 floors, flat roof)										
Target Scenario	Electrical Load (kWh/year)	Max Solar Capacity (kWp)	Per Panel Productivity (kWh/year)	Solar Output (kWh/year)	% of Target	# of Panels	% of Roof Covered	Cost	Payback Period	IRR
Mid Level Step Code										
Offset 100% Annual Electrical Load (kWh/year)	948,402	84	429	84,939	9%	198	90%	\$197,753	22	1.53%
Offset Internal and External Lighting	102,168	84	429	84,939	83%	198	90%	\$197,753	22	1.53%
Offset External Lighting Load Only	24,813	25	429	24,881	100%	58	26%	\$57,928	22	1.53%
Offset Annual Cooling Load	204,271	84	429	84,939	42%	198	90%	\$197,753	22	1.53%
Top Level Step Code										
Offset 100% Annual Electrical Load (kWh/year)	875,448	84	429	84,939	10%	198	90%	\$197,753	22	1.53%
Offset Annual Cooling Load	91,922	84	429	84,939	92%	198	90%	\$197,753	22	1.53%
Passive House Standard										
Offset 100% Annual Electrical Load (kWh/year)	437,724	84	429	84,939	19%	198	90%	\$197,753	22	1.53%
Offset Internal and External Lighting	97,205	84	429	84,939	87%	198	90%	\$197,753	22	1.53%
Offset External Lighting Load Only	19,851	20	429	20,162	102%	47	21%	\$46,941	22	1.53%
Offset Annual Cooling Load	81,708	81	429	81,936	100%	191	87%	\$190,761	22	1.53%

 Modelled building energy loads that could be entirely offset with an onsite solar PV array.


Notes to modelling results table:

- BC Hydro's net metering program limits onsite power generation to a maximum system size of 100kWp. The solar modelling results reflect this cap.
- Due to some rooftop space being occupied by mechanical equipment (HVAC) and elevator access, 90% of rooftop area is the maximum coverage for a solar PV array (198 panels) for this sample hotel.
- Hotels have relatively larger external lighting loads due to 24/7 parking garage lighting operation.
- 100% of external lighting load from this building can be fully offset with on onsite PV array (190 panels).
- EV charging load was not modelled for hotels, as the City has not yet established by-law requirements on minimum Level 2 charging capability in non-residential buildings. This analysis will be covered in a subsequent report.

Solar PV Offset Potential for Modelled New Building Archetypes in Richmond

Office (10 floors, flat roof)

Office (10 floors, flat roof)										
Target Scenario	Electrical Load (kWh/year)	Max Solar Capacity (kWp)	Per Panel Productivity (kWh/year)	Solar Output (kWh/year)	% of Target	# of Panels	% of Roof Covered	Cost	Payback Period	IRR
Mid Level Step Code										
Offset 100% Annual Electrical Load (kWh/year)	1,045,736	100	431	101,339	10%	235	59%	\$235,000	22	1.37%
Offset Internal and External Lighting	160,815	100	431	101,339	63%	235	59%	\$235,000	22	1.37%
Offset External Lighting Load Only	25,423	25	431	25,443	100%	59	15%	\$58,926	22	1.37%
Offset Annual Cooling Load	172,239	100	431	101,339	59%	235	59%	\$235,000	22	1.37%
Top Level Step Code										
Offset 100% Annual Electrical Load (kWh/year)	615,139	100	431	101,339	16%	235	59%	\$235,000	22	1.37%
Offset Annual Cooling Load	77,508	77	431	77,621	100%	180	45%	\$179,775	22	1.37%
Passive House Standard										
Offset 100% Annual Electrical Load (kWh/year)	3,311,360	100	431	101,339	27%	235	59%	\$235,000	22	1.37%
Offset Internal and External Lighting	133,297	100	431	101,339	76%	235	59%	\$235,000	22	1.37%
Offset External Lighting Load Only	24,983	25	431	25,011	100%	58	15%	\$57,928	22	1.37%
Offset Annual Cooling Load	68,896	68	431	68,997	100%	160	40%	\$159,800	22	1.37%

 Modelled building energy loads that could be entirely offset with an onsite solar PV array.


Notes to modelling results table:

- BC Hydro's net metering program limits onsite power generation to a maximum system size of 100kWp. The solar modelling results reflect this cap. Therefore, 59% of rooftop area is the maximum coverage for a solar PV array (235 panels) for this archetype.
- The Office archetype has comparatively lower external lighting loads than mid-rise and taller MURBs, due to the common practice of turning off lighting when businesses do not require it (assumed run time is based on Vancouver Energy Modelling Guidelines and National Energy Code for Buildings).
- EV charging load was not modelled for commercial office buildings, as the City has not yet established by-law requirements on minimum Level 2 charging capability in non-residential buildings. This analysis will be covered in a subsequent report.

Solar PV Offset Potential for Modelled New Building Archetypes in Richmond

Light Industrial Warehouse (flat roof)

Light Industrial Warehouse (flat roof)										
Target Scenario	Electrical Load (kWh/year)	Max Solar Capacity (kWp)	Per Panel Productivity (kWh/year)	Solar Output (kWh/year)	% of Target	# of Panels	% of Roof Covered	Cost	Payback Period	IRR
20% more energy efficient than current BC Building Code										
Offset 100% Annual Electrical Load (kWh/year)	1,034,711	100	431	101,373	10%	235	25%	\$225,000	20	1.91%
Offset Internal and External Lighting	205,448	100	431	101,373	49%	235	25%	\$225,000	20	1.91%
Offset External Lighting Load Only	4,394	4.7	431	4,745	108%	11	1%	\$10,519	20	1.91%
Offset Annual Cooling Load	139,205	100	431	101,373	73%	235	25%	\$225,000	20	1.91%
70% more energy efficient than current BC Building Code										
Offset 100% Annual Electrical Load (kWh/year)	415,980	100	431	101,373	24%	235	25%	\$225,000	20	1.91%
Offset Annual Cooling Load	92,803	92	431	93,177	100%	216	23%	\$206,550	20	1.91%

 Modelled building energy loads that could be entirely offset with an onsite solar PV array.

Notes to modelling results table:

- BC Hydro's net metering program limits onsite power generation to a maximum system size of 100kWp (235 panels covering 25% of available rooftop space). The above solar modelling results reflect this cap.
- EV charging load was not modelled for industrial buildings, as the City has not yet established by-law requirements on minimum Level 2 charging capability in non-residential buildings. This analysis will be covered in a subsequent report.
- Currently, the BC Energy Step Code does not cover industrial warehouse uses, so energy performance scenarios were set at 20% and 70% better than current (2018) BC Building Code requirements.
- For this study, light industrial warehouse buildings were not modelled at a Passive House level of energy performance.

Solar PV Offset Potential for Modelled New Building Archetypes in Richmond

Large Industrial Warehouse (flat roof)

Large Industrial Warehouse (flat roof)										
Target Scenario	Electrical Load (kWh/year)	Max Solar Capacity (kWp)	Per Panel Productivity (kWh/year)	Solar Output (kWh/year)	% of Target	# of Panels	% of Roof Covered	Cost	Payback Period	IRR
20% more energy efficient than current BC Building Code										
Offset 100% Annual Electrical Load (kWh/year)	5,799,596	100	431	101,373	2%	235	3%	\$225,000	20	1.91%
Offset Internal and External Lighting	1,150,728	100	431	101,373	9%	235	3%	\$225,000	20	1.91%
Offset External Lighting Load Only	23,613	23.4	431	23,726	100%	55	1%	\$52,594	20	1.91%
Offset Annual Cooling Load	780,386	100	431	101,373	13%	235	3%	\$225,000	20	1.91%
70% more energy efficient than current BC Building Code										
Offset 100% Annual Electrical Load (kWh/year)	2,331,899	100	431	101,373	4%	235	3%	\$225,000	20	1.91%
Offset Annual Cooling Load	520,257	100	431	101,373	19%	235	3%	\$225,000	20	1.91%

 Modelled building energy loads that could be entirely offset with an onsite solar PV array.

Notes to modelling results table:

- BC Hydro's net metering program limits onsite power generation to a maximum system size of 100kWp (235 panels covering 3% of available rooftop space). The above solar modelling results reflect this cap.
- EV charging load was not modelled for industrial buildings, as the City has not yet established by-law requirements on minimum Level 2 charging capability in non-residential buildings. This analysis will be covered in a subsequent report.
- Currently, the BC Energy Step Code does not cover industrial warehouse uses, so energy performance scenarios were set at 20% and 70% better than current (2018) BC Building Code requirements.
- For this study, large industrial buildings were not modelled at a Passive House level of energy performance.



City of Richmond

Report to Committee

To: General Purposes Committee

Date: June 30, 2022

From: Jim V. Young, P. Eng.
Director, Facilities and Project Development

File: 06-2052-25-SCCR1/Vol 01

Elizabeth Ayers
Director, Recreation and Sports Services

Re: Steveston Community Centre and Branch Library – Form and Character Design

Staff Recommendation

That the form and character design for the Steveston Community Centre and Branch Library as outlined in the report titled, "Steveston Community Centre and Branch Library – Form and Character Design," dated June 30, 2022 from the Director, Facilities and Project Development and the Director, Recreation and Sport Services be approved.

Jim V. Young, P. Eng.
Director, Facilities and Project Development
(604-247-4610)

Elizabeth Ayers
Director, Recreation and Sport Services
(604-247-4669)

Att. 2

REPORT CONCURRENCE		
ROUTED TO:	CONCURRENCE	CONCURRENCE OF GENERAL MANAGER
Library Services	<input checked="" type="checkbox"/>	
Parks Services	<input checked="" type="checkbox"/>	
Development Applications	<input checked="" type="checkbox"/>	
SENIOR STAFF REPORT REVIEW	INITIALS: 	APPROVED BY CAO

Staff Report

Origin

On December 12, 2016, Council identified the Steveston Community Centre and Branch Library as a priority Phase 2 Major Facilities project for 2016-2026. Since then, Council has made a number of key decisions which include the approval of the program totaling 60,350 sq. ft., the site location at the southeast quadrant of the park, parking and the building concept form as well as the \$90 million capital budget and the \$5 million construction escalation contingency.

The purpose of this report is to present the proposed form and character design of the Steveston Community Centre and Branch Library for Council endorsement. The approval of this key stage will allow staff to continue to detailed design as well as enabling works and site preparation for construction of the new facility.

This report supports Council's Strategic Plan 2018-2022 Strategy #3 One Community Together:

Vibrant and diverse arts and cultural activities and opportunities for community engagement and connection.

3.1 Foster community resiliency, neighborhood identity, sense of belonging, and intercultural harmony.

This report supports Council's Strategic Plan 2018-2022 Strategy #4 An Active and Thriving Richmond:

An active and thriving community characterized by diverse social and wellness programs, services and spaces that foster health and well-being for all.

4.1 Robust, affordable, and accessible sport, recreation, wellness and social programs for people of all ages and abilities.

4.2 Ensure infrastructure meets changing community needs, current trends and best practices.

4.3 Encourage wellness and connection to nature through a network of open spaces.

This report supports Council's Strategic Plan 2018-2022 Strategy #8 An Engaged and Informed Community:

Ensure that the citizenry of Richmond is well-informed and engaged about City business and decision-making.

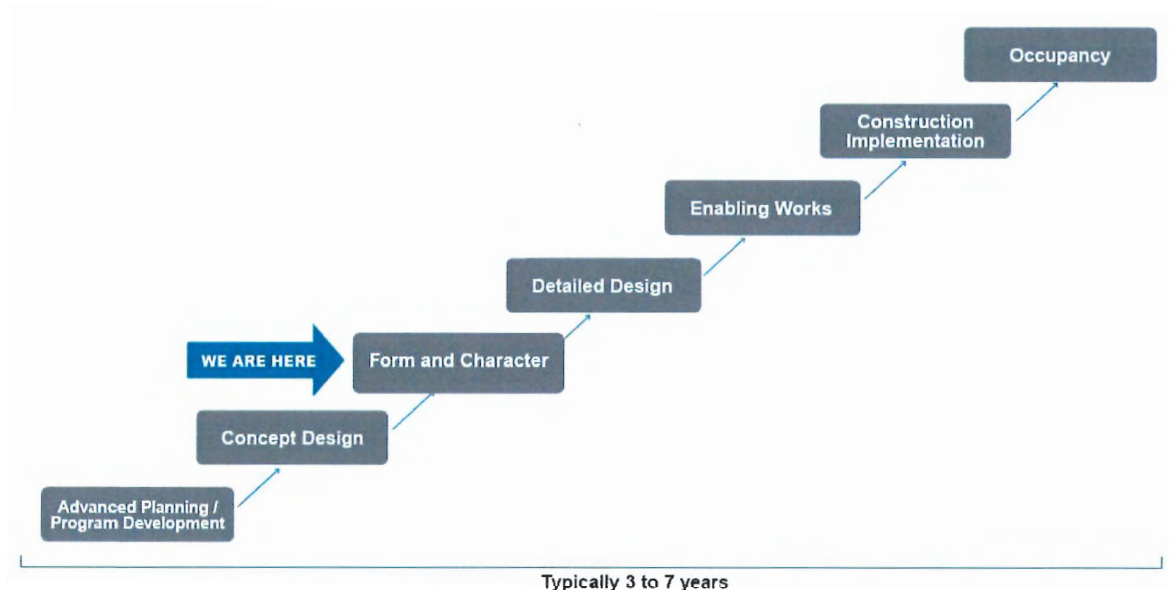
8.1 Increased opportunities for public engagement.

Background

The building design form with a 36,000 sq. ft. building footprint was determined and approved by Council, to be a three-storey facility plus one level of underground parking, which provides a balanced approach where program synergies are realized, impacts on green space and trees are minimized, and views and connections to the park are achieved from many of the program spaces.

The project has now reached the final steps in the Form and Character stage, which is the third stage of a multi-stage process in the delivery of a major facility project, as illustrated in Figure 1 below. Form and character refers to the general shape, volume, materials and general colour scheme of the building. Completion of form and character is an iterative and involved process that brings the exterior design to a point where detailed design of the facility can proceed.

Figure 1: Delivery Stages of a Major Facility Project



Analysis

The Form and Character design stage was an iterative process that included a Design Charrette and a variety of public engagement opportunities. The Design Charrette was implemented in April 2022 and was an inclusive, consensus-based session that informed potential design themes for the form and character of the facility. The Design Charrette along with subsequent discussions included City and Library staff, members of the Steveston Community Society and Richmond Public Library Board, as well as members of the architect and construction manager firms. Following the Design Charrette, the architects refined the character design and developed renderings of key views of the building for presentation to the public.

Recommended Character Design

The character of the new building is a culmination of the Design Charrette, public engagement, guiding principles for the project, and inspiration from various buildings and landmarks around the Steveston area. All of these elements were cohesively incorporated together, within the Council approved budget and program, to form the facility's exterior design.

Key inspirations for the proposed character design were:

- the project guiding principles – to be innovative, sustainable, inclusive, a model of wellness, synergistic, connected, and reflective;
- Steveston's unique cultural and historical identity; and
- synergies with surrounding buildings.

Key reflecting elements of the character design included:

- the platforms and docks at the Steveston waterfront;
- the canopies and fascia trims from the Steveston Interurban Tram Building;
- the traditional Japanese curved roof form of the Martial Arts Centre; and
- materiality and patterns from the surrounding industrial buildings.

The proposed character design builds on earlier engagement and feedback from the public and stakeholders, and considers the surrounding park environment and Steveston Village context. The new facility will serve the community into the future supporting the physical, wellness, life-long learning, and creative needs of those who live, work and play in Steveston and surrounding neighbourhoods (refer to Attachment 1).

Public Engagement Process

Fundamental to the character design process was implementation of an extensive public engagement program to confirm that the proposed form and character of the building aligns with the current and future needs of the community. Engagement opportunities were promoted extensively through direct mail, distribution of a news release, posters at community facilities, newspaper advertisements, social media, and outreach to key stakeholders.

Engagement opportunities were implemented from May 18 – June 7, 2022 and included 4 open houses, display boards on site at the Steveston Community Centre and Branch library, and a Let's Talk Richmond survey. The engagement opportunities were well received with the completion of 254 Let's Talk Richmond surveys and over 1,000 visitors at the in-person engagement opportunities.

The community expressed overwhelming support for the proposed character design as indicated on the Let's Talk Richmond survey responses:

- 83% of respondents agree or strongly agree that the proposed building character design reflects the Guiding Principle “Be Inclusive” and reflects the community as a whole.
- 80% of respondents agree or strongly agree that the proposed building character design reflects the Guiding Principle “Be Reflective” and the spirit of Steveston. It will inspire current and future generations to explore and use the facility.
- 79% of respondents agree or strongly agree that the proposed building character design is complementary to the existing facilities at the Steveston Community Park site.
- 80% of respondents agree or strongly agree that the proposed building character design provides a sense of connection between the building and the areas around it such as the plaza, park, and walking paths.
- 83% of respondents agree or strongly agree that the proposed building character design encourages them to want to explore the building and discover what is inside.

Overall support for the proposed character design was expressed by the community with comments including the following:

“The architecture design of this building is very fitting to Steveston. Very nice.”

“This appears to be a very well thought out project. I love that the environment is being strongly considered.”

Some of the feedback received through the Let's Talk Richmond surveys and in-person opportunities are best addressed at the detailed design stage. Examples of those comments include requests for art display space and sound mitigation between program areas.

The proposed character design is supported by both the Steveston Community Society and Richmond Public Library Board.

Advisory Design Panel (ADP)

Overall, the ADP was very supportive of the proposed facility design and were complimentary of the accessibility strategy and universal design principles seamlessly integrated throughout the project. There were a number of questions throughout the meeting that were answered by members of the project team. The questions and comments will be taken into consideration during the detailed design phase.

The proposed character design and budget currently reflect completing the facility to the City's Council adopted Sustainable High Performance Building Policy for all new City buildings to meet a standard of LEED (Leadership in Energy and Environmental Design) Gold Certification.

Should Council approve the character design outlined in this report, staff will proceed with detailed design development including consideration of ADP recommendations regarding the proposed facility form and character. It is anticipated that minor adjustments to the drawings presented in Attachments 1 and 2 will be made as the detailed design proceeds to ensure the project remains on budget and meets operational and stakeholder needs.

Tree Management and Communications Plan

City staff and the project arborist surveyed 112 trees located within the construction site and surrounding area. As a result, staff have confirmed that the number of trees anticipated to be impacted by the new facility is in the range of 60 - 70. The exact number of trees will be developed in tandem with the landscape design in the detailed design phase. The comprehensive tree management plan includes:

- complete inventory, condition assessment and retention value of all the trees that will likely be impacted by the new building and on site parking;
- strategy for the removal, retention or relocation of specific trees;
- protection plan for retained trees during construction; and
- maintenance and monitoring program to ensure the continued health of the trees.

Building construction enabling works are anticipated to commence in Fall 2022. Part of the enabling works is removal or relocation of trees directly impacted by the building footprint and realigned access road. The remaining tree removals or relocations required for plaza construction and demolition of the existing community centre will be completed at a later date, to be determined as the new community centre construction progresses.

A Certified Arborist Tree Management Report identified that of the 112 trees surveyed:

- 45 trees will be preserved and protected for retention on the site. Prior to construction, tree protection fencing will be placed around the trees that are to be retained and will be monitored during construction.
- A total of 67 trees will be removed or relocated as follows:
 - 55 trees are located in the construction zone and will be removed
 - 12 trees are recommended for transplanting within the park as the size and vitality are suitable for relocation

Trees impacted by the building footprint and construction enabling works will be removed. For every tree removed and not transplanted, 3 new trees will be planted. The 55 trees removed will be compensated by planting 165 new trees on the site or at another City location. Staff are also investigating feasibility options to incorporate salvaged timber into playground features, public art, or milled into lumber and developed into furniture pieces for the project. A Tree Management Communication Plan has been developed and includes on-site tree removal notices and information signage that will be posted at all removal locations at least 2 weeks prior to commencing the work.

Project Cost

Ongoing construction manager pre-construction services include cost estimates, material procurement, site logistics, and overall project schedule determination. For an added degree of cost certainty, the construction manager reviewed the form and character design and confirmed alignment with the project budget.

Financial Impact

None.

Conclusion

Public feedback received through the public engagement opportunities overwhelmingly indicate support for the proposed form and character design of the Steveston Community Centre and Branch Library. The proposed form and character design is also supported by the Steveston Community Society Board, the Richmond Public Library Board and the City's Advisory Design Panel. Council approval of the recommended building form and character design is required in order to complete the Form and Character stage and progress to the Detailed Design stage. Enabling works required for site preparatory works to facilitate the construction of the new centre are expected to start by early Fall 2022. The new facility will serve the community into the future supporting the physical, wellness, life-long learning, and creative needs of those who live, work and play in Steveston and surrounding neighbourhoods.



Martin Younis, B. Eng., M. Eng.
Manager,
Capital Buildings Project Development
(604-204-8501)

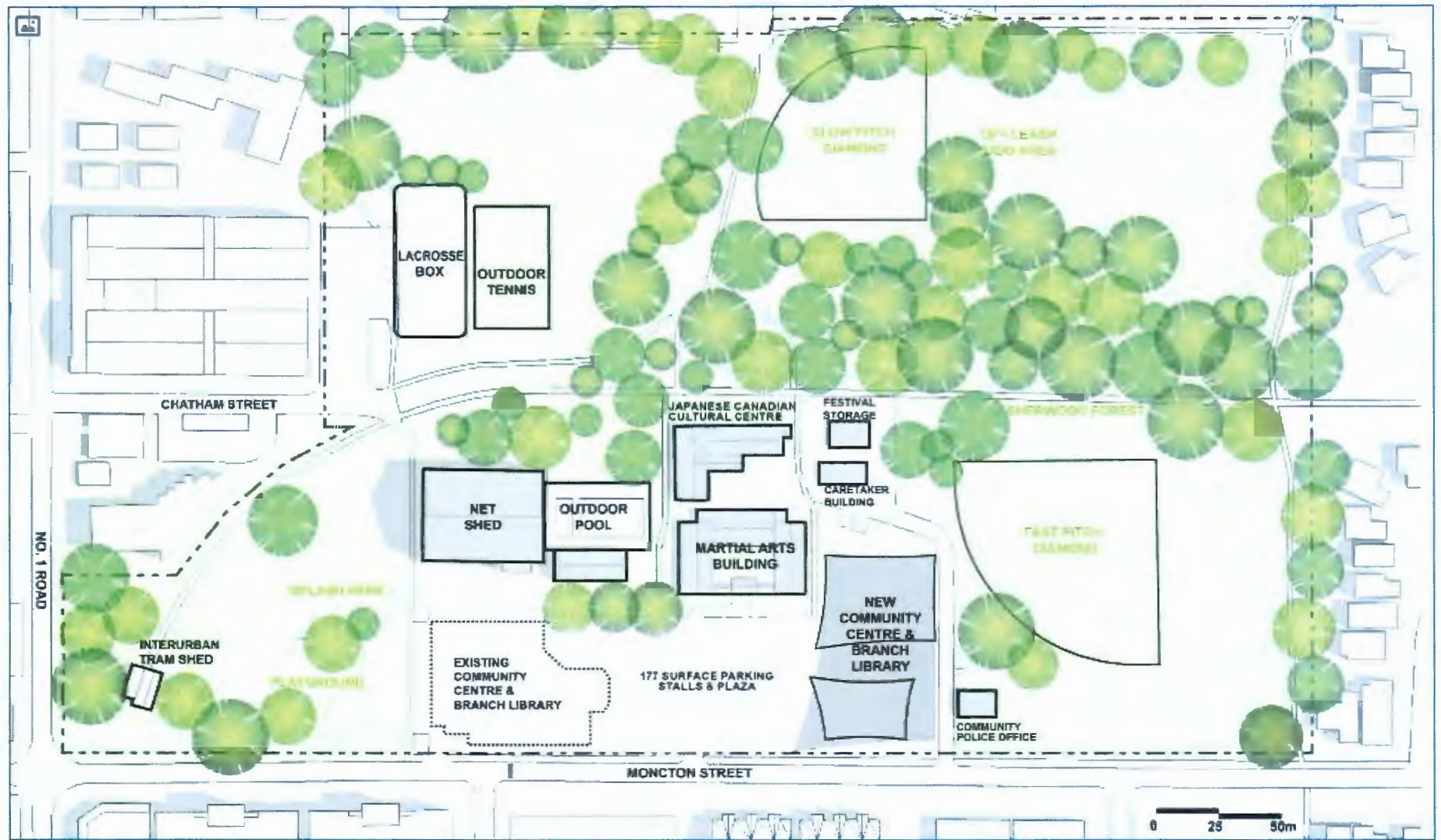


Mandeep Bains
Manager,
Community Services Planning and Projects
(604-247-4479)

MY:ek

- Att. 1: Steveston Community Centre and Branch Library Site Plan
2: Steveston Community Centre and Branch Library – Perspective Renderings

Steveston Community Centre and Branch Library – Site Plan



Steveston Community Centre and Branch Library – Perspective Renderings



PROJECT
Steveston Community Centre and Branch Library

CLIENT
City of Richmond

DATE
June 30, 2022

DRAWING TITLE
Front View of the Facility



PROJECT
Steveston Community Centre and Branch Library

CLIENT
City of Richmond

DATE
June 30, 2022

DRAWING TITLE
View from Moncton Street

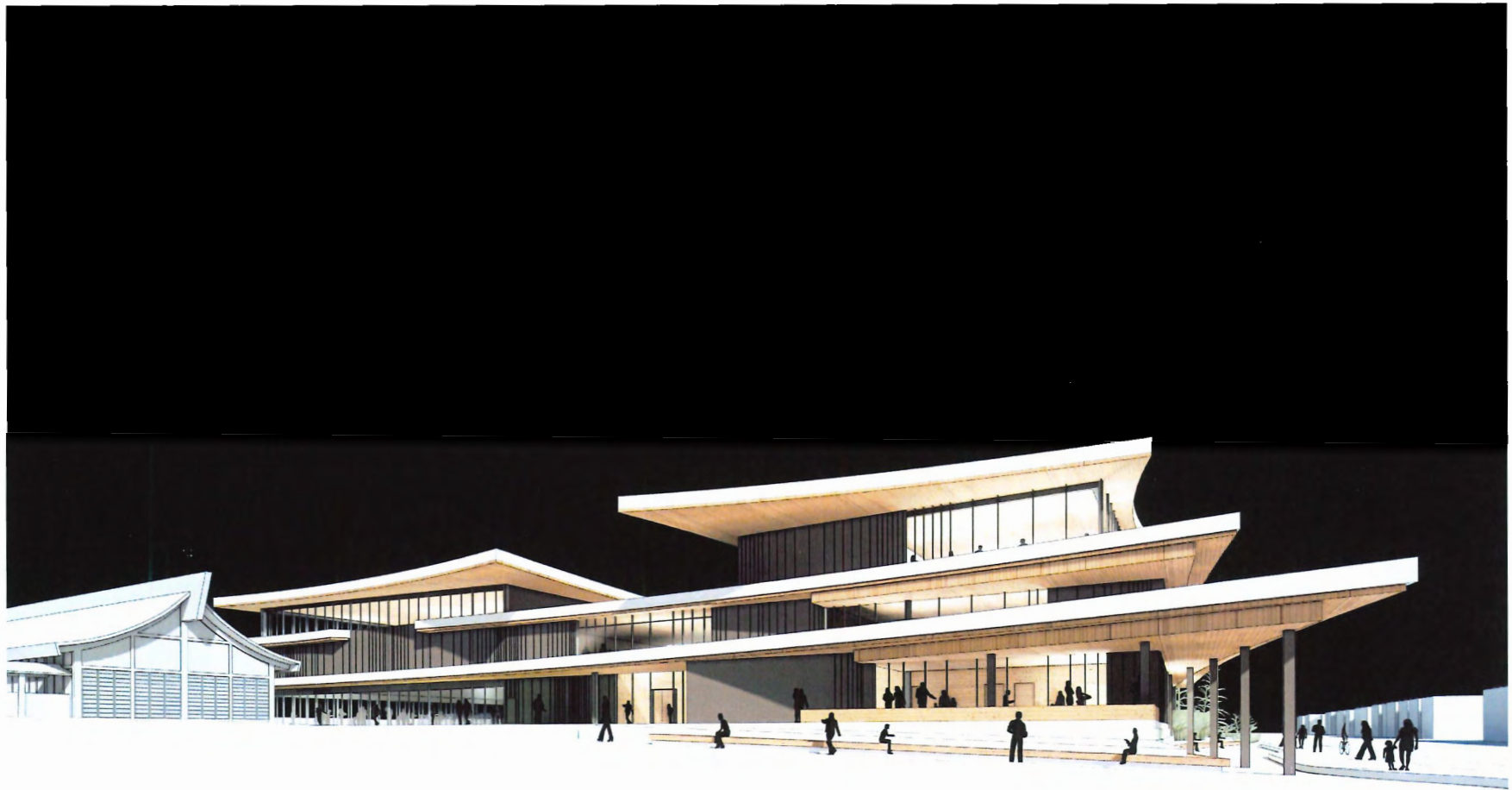


PROJECT
Steveston Community Centre and Branch Library

CLIENT
City of Richmond

DATE
June 30, 2022

DRAWING TITLE
View from Baseball Diamond Park



PROJECT
Steveston Community Centre and Branch Library

CLIENT
City of Richmond

DATE
June 30, 2022

DRAWING TITLE
Night Perspective



City of Richmond

Report to Committee



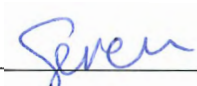
To: General Purposes Committee **Date:** June 7, 2022
From: Jason Kita **File:** 01-0005-01/2022-Vol
Director, Intergovernmental Relations and
Corporate and Strategic Planning
Re: **Council Strategic Plan 2018-2022 Term Highlights**

Staff Recommendation

1. That the report titled, "Council Strategic Plan 2018-2022 Term Highlights" dated June 7, 2022, from the Director, Intergovernmental Relations and Corporate and Strategic Planning, be received for information; and
2. That the attached reports titled, "Council Strategic Plan 2018-2022: Achievement Highlights" (Attachment 1) and "Council Strategic Plan 2018-2022: Achievement Highlights Overview" (Attachment 2) be made available for download on the City of Richmond website.

Jason Kita
Director, Intergovernmental Relations and Corporate and Strategic Planning
(604-276-4091)

Att. 2

REPORT CONCURRENCE		
ROUTED TO:	CONCURRENCE	CONCURRENCE OF GENERAL MANAGER
Animal Protection & Contract Administration	<input checked="" type="checkbox"/>	
Arts, Culture & Heritage	<input checked="" type="checkbox"/>	
Building Approvals	<input checked="" type="checkbox"/>	
City Clerk	<input checked="" type="checkbox"/>	
Communications	<input checked="" type="checkbox"/>	
Community Bylaws & Licencing	<input checked="" type="checkbox"/>	
Community Safety Policy & Programs	<input checked="" type="checkbox"/>	
Community Social Development	<input checked="" type="checkbox"/>	
Corporate & Strategic Planning	<input checked="" type="checkbox"/>	
Corporate Business Service Solutions	<input checked="" type="checkbox"/>	
Development Applications	<input checked="" type="checkbox"/>	
Engineering	<input checked="" type="checkbox"/>	
Facility Services & Project Development	<input checked="" type="checkbox"/>	
Finance Department	<input checked="" type="checkbox"/>	
Fire Rescue	<input checked="" type="checkbox"/>	
Human Resources	<input checked="" type="checkbox"/>	
Information Technology	<input checked="" type="checkbox"/>	
Intergovernmental Relations	<input checked="" type="checkbox"/>	
Parks Services	<input checked="" type="checkbox"/>	
Policy Planning	<input checked="" type="checkbox"/>	
Public Works Operations	<input checked="" type="checkbox"/>	
RCMP	<input checked="" type="checkbox"/>	
Real Estate Services	<input checked="" type="checkbox"/>	
Recreation & Sport Services	<input checked="" type="checkbox"/>	
Sustainability & District Energy	<input checked="" type="checkbox"/>	
Transportation	<input checked="" type="checkbox"/>	
SENIOR STAFF REPORT REVIEW	INITIALS: 	APPROVED BY CAO 

Staff Report

Origin

On June 24, 2019, Council adopted the Council Strategic Plan 2018-2022, which identifies the collective strategic focus and priorities for Richmond City Council for this term of office. The plan reflects Council's desire for proactive and forward-thinking leadership that remains rooted in Richmond's distinct history and identity.

The setting of a strategic plan is an integral process to establish the strategic vision for Council and allows the City to accomplish a visionary agenda while also being flexible and responsive to new opportunities, issues, and circumstances that may emerge during the term. Once established, staff work plans align with the outcomes identified in the strategic plan in order to achieve a productive and successful term of office.

Analysis

Council adopted eight strategic focus areas in the Council Strategic Plan 2018-2022 with additional priorities identified for each focus area.

The eight strategic focus areas include:

1. A Safe and Resilient City - *Enhance and protect the safety and well-being of Richmond.*
2. A Sustainable and Environmentally Conscious City - *Environmentally conscious decision-making that demonstrates leadership in implementing innovative, sustainable practices and supports the City's unique biodiversity and island ecology.*
3. One Community Together - *Vibrant and diverse arts and cultural activities and opportunities for community engagement and connection.*
4. An Active and Thriving Richmond - *An active and thriving community characterized by diverse social and wellness programs, services, and spaces that foster health and well-being for all. .*
5. Sound Financial Management - *Accountable, transparent, and responsible financial management that supports the needs of the community into the future.*
6. Strategic and Well-Planned Growth - *Leadership in effective and sustainable growth that supports Richmond's physical and social needs.*
7. A Supported Economic Sector - *Facilitate diversified economic growth through innovative and sustainable policies, practices and partnerships.*
8. An Engaged and Informed Community - *Ensure that the citizenry of Richmond is well-informed and engaged about City business and decision-making.*

During this term of office, many achievements were made to advance these eight strategic focus areas and related priorities, including a number of new initiatives resulting from the COVID-19 pandemic. The Council Strategic Plan 2018-2022: Achievement Highlights report (**Attachment 1**) provides key highlights demonstrating the progress made in Council's term. A brief overview report is also included in **Attachment 2**.

Staff recommend that the Council Strategic Plan 2018-2022: Achievement Highlights and Council Strategic Plan 2018-2022: Achievement Highlights Overview reports be made available for download on the City of Richmond website.

Financial Impact

None.

Conclusion

The Council Strategic Plan 2018-2022 forms the basis of a focused and productive work program for the City's operations and services. The attached reports provide Council with information on some of the key work that was completed in this term to advance the eight focus areas identified in the plan. Staff recommend that the attached reports be made available for download on the City of Richmond website.



Daisy Byrne
Manager, Corporate Strategic Initiatives
(604-204-8683)

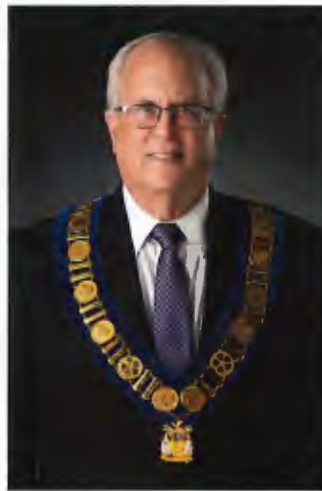
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Att. 1: Council Strategic Plan 2018-2022: Achievement Highlights

Att. 2: Council Strategic Plan 2018-2022: Achievement Highlights Overview



Council Strategic Plan 2018–2022: **Achievement Highlights**



Richmond City Council

Top Row (Left to Right):

Councillor Chak Au, Councillor Carol Day, Councillor Andy Hobbs, Councillor Alexa Loo

Middle Row:

Mayor Malcolm Brodie

Bottom Row (Left to Right):

Councillor Bill McNulty, Councillor Linda McPhail, Councillor Harold Steves, Councillor Michael Wolfe

City of Richmond Council Strategic Plan 2018–2022

The Council Strategic Plan identifies the collective strategic focus and priorities for Richmond City Council for the 2018–2022 term of office. The plan reflects Council’s desire for proactive and forward-thinking leadership that remains rooted in Richmond’s distinct history and identity.

Council adopted eight strategic focus areas for the 2018–2022 term with additional priorities identified for each focus area. The Council Strategic Plan allows the City to accomplish a visionary agenda set by Council while also being flexible and responsive to new opportunities, issues, and circumstances that may emerge during the term.

This report provides highlights of achievements made towards the advancement of the Council Strategic Plan strategic focus areas throughout 2018–2022.





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Sea to Sky by Thomas Cannell

1. A Safe and Resilient City



Enhance and protect the safety and well-being of Richmond.

Richmond is a safe community, and ensuring that it remains safe is a top priority for Council. This term, a focus is placed on enhancing safety services and partnerships to ensure the City can continue to respond quickly and effectively to community needs. Council is committed to future-proofing Richmond's infrastructure and maintaining effective networks that are essential to a safe community. These measures will support preparation and ensure Richmond is ready in the event of a disaster or emergency of any kind. Coming together as a community to plan for emergencies is a priority and will help to ensure Richmond remains resilient.

Priorities include:

- 1.1 Enhance safety services and strategies to meet community needs.
- 1.2 Future-proof and maintain city infrastructure to keep the community safe.
- 1.3 Ensure Richmond is prepared for emergencies, both human-made and natural disasters.
- 1.4 Foster a safe, caring and resilient environment.

1. A Safe and Resilient City

1.1 Enhance safety services and strategies to meet community needs.

Council completed implementation of the Safe Community Strategy which included a total of 107 new positions for Richmond Fire-Rescue and Richmond's RCMP Detachment. Over the course of three years, Richmond has added:

- 51 additional police officers;
- 20 municipal employees to support policing services; and
- 36 firefighters.

In 2021, the City procured a rescue truck and an additional fire engine to enhance response capacity. Council also endorsed the procurement of a land-based high-flow industrial fire engine using funds from the Vancouver Airport Fuel Facilities Corporation (VAFFC). The added resources will support current and future community safety priorities identified by Council.



New Richmond Fire-Rescue Recruits

Community outreach initiatives included:

- In support of cultural harmony and diversity, the Richmond RCMP launched a variety of community awareness initiatives, including the Safe Place Program, Project Rainbow and the Hate Has No Place campaign. In addition, outreach to local religious communities and regular police patrols at places of worship built trust while offering assurance and safety to members of the faith communities.
- The Richmond RCMP promoted crime prevention education through volunteer deployments, the Block Watch Program and "Pop-Up Detachment" events throughout the community. Tips and information were also shared through enhanced public communications including social media and the Community Safety mobile app.
- The Richmond RCMP worked with local students on an expanded road safety awareness campaign to promote safe driving behaviors. As a reminder to drivers not to drink and

drive, students decorated paper bags with artwork and messages for the "Think of Me" campaign.

- "The World Is Not Your Ashtray" campaign continues to raise awareness about preventable fires caused by improperly discarded cigarette buds. Multilingual signs are used to mark the location of preventable cigarette fires, and local businesses place signs as deterrents in known problem areas. Over the years, the campaign has seen increased engagement on social media and cigarette fires have followed a downward trend throughout the term.
- The City continues to support the Camp Ignite Youth Firefighter Mentorship Program, which focuses on giving female youth the chance to explore firefighting as a career. In 2021, the City sponsored two students to participate in the program. In addition, two of Richmond's firefighters volunteered as camp mentors.
- Through a collaboration between the City, Minoru Seniors Society, Richmond RCMP, Richmond Fitness and Wellness Association, ICBC, Richmond Cares, Richmond Gives (RCRG), and TransLink, a Road Safety Series for seniors was offered, with the support of a grant awarded to the Minoru Seniors Society by the ICBC Provincial Community Grants Program.
- In 2021, Richmond RCMP resumed outreach with money service businesses, which had previously been suspended due to COVID-19. Through this initiative, officers conduct money laundering outreach and education. In addition, officers conduct gang suppression patrols which include commercial business checks. These patrols serve as both an enforcement initiative and deterrent to criminal activity.

Richmond made amendments to the *Unightly Premises Bylaw No. 7162* which expanded the defined terms for unsightliness related to noxious weeds, derelict vehicles, discarded materials, and garbage. The minimum timeline for compliance was also reduced from 14 days to 10 days and the minimum fine for court prosecutions was set to \$1,000. It is anticipated that these changes will provide enforcement staff additional means to gain compliance within a timely matter.

The City implemented a drone inspection program for a variety of applications including asset inspections, public engagement, project tracking and emergency response. Aerial inspections allow staff to access locations that would previously be difficult to access and mitigate potential hazards by eliminating the need to physically climb on to areas that could have potential fall risks. For example, in 2021 the City conducted its first drone inspection of the dike around the island at low tide. Data gathered from drone flights is stored for future use, allowing for data comparison and analysis to identify potential deficiencies in City assets, as well as use in future public outreach.

Richmond Fire-Rescue undertook a variety of reviews and updates to ensure continued service excellence to the community, such as:

- A turnout time study and analysis to improve the response time for emergency calls resulting in an updated working methodology that can be applied to all fire halls;
- A review and upgrade of all fire suppression training material in alignment with the Office of the Fire Commissioner's competency standards for "Full Service" fire departments in preparation for anticipated new hires;
- Training and testing for all existing staff in the most advanced emergency response skills; and
- Thorough and comprehensive training for new hires to ensure all staff can operate at a very high competency level.

Each winter, the City pre-treats and/or de-ices an average of 32,400 lane kilometres and plows an average of 6,500 lane kilometres of first, second and third priority routes.

In order to operate a Food Truck or other Mobile Outdoor Food Service Unit (MOFSU) in Richmond, operators must obtain a valid Richmond Fire-Rescue proof of fire and safety inspection decal that is issued annually. In April 2022, Richmond Fire-Rescue partnered with the Greater Vancouver Fire Chief's Association to host a single-day Mobile Outdoor Food Service Unit (MOFSU) Inspection Event, providing free MOFSU Fire and Life Safety Inspections for the day. Working with other lower mainland fire departments, there were a total of 77 inspections carried out in the single day, which was an increase over the previous two years.

The City's updated and improved procedures for identifying contaminated sites at the time of development permit-related applications resulted in greater adherence to senior regulatory requirements and improved mitigation of potential contaminant exposure.

As of February 2022, the City installed approximately 476 closed-circuit television (CCTV) cameras to provide low-resolution video with recording capabilities at 119 intersections. Traffic cameras help improve road safety and manage traffic congestion. Traffic camera footage is available for the public to purchase online through the MyRichmond portal to assist with insurance claims. The total number of requests from the public and ICBC between the project launch in May 2021 and December 2021 was 116 requests. Phase 3 of

the project is ongoing, and will be completed gradually with the expansion of the fibre optic cable network.

Richmond was among the first municipalities in Canada to implement an advertising ban on vaping and vaping-related products on City property.

In April 2022, Council endorsed the Richmond RCMP Detachment's Annual Performance Plan, which outlines local priorities. This plan ensures policing initiatives are aligned with the City and RCMP strategic priorities. The following five areas of focus were identified:

- Property Crime
- Organized Crime
- Vulnerable Persons
- Road Safety
- Fighting Racism

Throughout the term, property crimes followed a downward trend. For example, in 2021 compared to the previous year:

- Overall property crimes were down 7%
- Residential break and enters were down 27%
- Commercial break and enters were down 13%
- Auto thefts were down 9%

To provide an increased police presence in the Hamilton neighbourhood, Richmond Fire-Rescue and Richmond RCMP established a cooperative relationship based out of Fire Hall No. 5. This has allowed for more patrols, visibility and faster response time within the area.

In 2021, Richmond's Animal Services provider changed to the BC SPCA. Under the new contract, the BC SPCA provides the full-range of animal services including operating Richmond's animal shelter, enforcing Richmond's animal control bylaws, and proactively patrolling the City's parks and school grounds. Under this new model, the BC SPCA provides enforcement between the hours of 7:00am–9:00pm, seven days a week.

The City became a member of the British Columbia Crime Prevention Association (BCCPA) to participate in the Stolen Auto Recovery (SAR) program. The partnership program involves the BCCPA, RCMP, ICBC, and Canadian Police Information Centre (CPIC) and assists to identify stolen vehicles. Information is updated daily and shared to officers in the field.

1. A Safe and Resilient City

1.2 Future-proof and maintain city infrastructure to keep the community safe.

Guided by the City's Flood Protection Management Strategy updated in 2019, Council continues to invest in strengthening and upgrading the City's flood protection infrastructure, including \$12.2 million in 2022 flood protection projects approved by Council as part of the 2022–2026 Capital Program. The City was also awarded \$15.7 million in funding from various levels of senior government grant programs throughout the term to support flood protection improvements.



Richmond's South Dyke

The City's flood protection program was accelerated to a 50 year implementation period in order to provide additional flood resilience for the City. Throughout the term, significant work was completed as part of the City's ongoing efforts to protect Richmond from potential flooding. Initiatives include:

- The Steveston Island Flood Risk Assessment and Sea Gates Concept Study was completed to assess the alternative dike alignment proposed in Dike Master Plan Phase 1. Following this assessment, a preliminary design for the Steveston Island Dike was also completed to support the Council endorsed work plan for Steveston Island.
- Dike Master Plan Phase 3, targeting the south dike between No. 2 Road and Boundary Road, and Phase 5, targeting Sea Island dike from the Sea Island Connector Bridge to the south end of 3800 Cessna Drive, Mitchell Island and Richmond Island, were completed.
- Dike Master Plan Phase 4, which focuses on Richmond's north dike between No. 6 Road and Boundary Road, was endorsed by Council in 2021 for public and stakeholder engagement which took place in 2022.
- The Drainage Pump Station Condition Assessment report was finalized and significant progress was made in upgrading the City's drainage pump stations, including work on the Shell Road North Pump Station, No. 7 Road South Pump Station, Horseshoe Slough Pump Station, Steveston Highway at No. 3 Road Pump Station and Steveston Highway at Gilbert Road Pump Station.
- The south dike between Gilbert Road and No. 3 Road was upgraded, widened and raised by 1.4 meters and the south dike between No. 3 Road to near No. 4 Road was upgraded, widened and raised by 1.6 meters. Both of these projects are located in the Dike Master Plan Phase 3 area.
- Phases 1 and 2 of the Burkeville Area Drainage, Watermain and Sanitary Sewer Upgrades project were completed to upgrade storm sewer capacity and ageing watermain and sanitary sewers.
- The City's drainage, water and sanitary models were updated with current infrastructure, population and rainfall data. The models are a mathematical representation of the City's drainage, water and sanitary systems that are used to analyze the performance and guide long-term infrastructure planning.
- The City's flood protection community engagement initiatives were advanced with new informational videos, an update to the City's flood protection webpage, and participation in numerous public presentations promoting flood protection throughout the term.

Six road and weather information stations were installed providing full remote communications and analytic capabilities to support winter operations response.

Configuration changes and site improvements were made at the Richmond Recycling Depot to update ageing infrastructure and improve operations. The improvements include a new site layout, expansion of the hazardous waste materials area

inclusive of tent covering, a new steel awning spanning the centralized large recycling bins, new heavy equipment, and a classroom for depot tours and recycling workshops. Throughout the pandemic, safety protocols were in place to protect the health and safety of all users.

The enhanced City Centre Community Police Office (CPO) was opened in September 2021 and front counter services for the public launched in April 2022. Located on the corner of Gilbert Road and Granville Avenue, the 10,000 square foot facility will provide the public centralized policing services and improved police response times for Richmond residents.



Councillor Carol Day, Councillor Chak Au, Councillor Bill McNulty, Superintendent Will Ng, Mayor Malcolm Brodie, Assistant Commissioner Maureen Levy, Councillor Linda McPhail, Councillor Alexa Loo, and Councillor Andy Hobbs at the City Centre Community Police Office Opening.

The Richmond Community Animal Shelter will be re-opening in 2022 with the BC SPCA managing the operations of the Shelter. The renovation and expansion project upgraded the previous existing facility and added additional space in order to accommodate more animals and provide a higher quality of care.

The City improved ammonia detection systems and processes at Minoru Arenas, Richmond Ice Centre, and the Richmond Curling Club. Staff from Community Services, Richmond Fire-Rescue, and the Richmond Olympic Oval also participated in an extensive safety training workshop on emergency response plans and the unlikely event of a "live-fire."

Condition assessments for the City's pressure reducing valve (PRV) stations, which deliver water throughout Richmond, and 51 of the City's sanitary pump stations were completed to identify required rehabilitation and plan for replacement work.

1.3 Ensure Richmond is prepared for emergencies, both human-made and natural disasters.

In partnership with OPTA Information Intelligence Corp, the City began work on the implementation of a Fire Risk Prediction Modelling system. The system uses fire incident, inspection and property data to develop predictive models of structure fire and inspection risks in the City. The solution will result in an intelligence-led, data-driven predictive model to prioritize property inspections to protect properties at the greatest risk of fire and more efficient use of inspection resources.

The City transitioned Emergency Support Services to the Canadian Red Cross (CRC), which provides the City with access to a wider network of resources. Through the direction of Emergency Programs, CRC's provision of services has met the standard of service excellence and has resulted in the delivery of critical emergency support services to residents in a functional, efficient and supportive way.

In order to more effectively provide Emergency Support Services in the field, the City implemented a digital evacuee registration and referral tool through Emergency Management BC's Emergency Support Services Modernization project in 2020. In 2021, the City received a \$15,200 grant from Union of British Columbia Municipalities (UBCM) for the purchase of portable equipment and power supply to enhance the provision of these services through mobile computer registration access, allowing staff to support evacuees remotely when they need shelter and assistance.

In 2019, the City facilitated 10 inter-departmental and inter-agency emergency training exercises with 30 response partners.

Following the extensive damage caused by wildfires in 2018, Richmond Fire-Rescue, in collaboration with WASP Manufacturing, designed a Structure Protection Unit (SPU) Type II Trailer that meets requirements set by BC Wildfire Service to protect Richmond against wildfire threat. The SPU trailer unit provides wildfire protection for up to 30 homes, carrying over 16,000 feet of fire hose, 130 sprinklers, multiple pumps, water tanks and supporting firefighting equipment. During the summer of 2021, the SPU and firefighters were deployed upon request to the BC interior to help with the wild fires in that region. In addition, the City provided Emergency Support Services to the Emergency Support Services Regional Wildfire Operations and Emergency Management B.C. (EMBC) – Provincial Regional Emergency Operations Centre (PREOC) to

1. A Safe and Resilient City

assist with evacuee management from several wildfire events in the interior of the Province and developed a support plan for the Mass Care and Evacuee Support in collaboration with Richmond School District No. 38 and BC Housing in the event that more evacuees were displaced into the lower mainland.

The City participated in regional emergency response planning, including:

- The Greater Vancouver Integrated Response Plan's expanded coverage, which involved working with the Marine Emergency Response Coordination Committee (MERCC) to accurately communicate the City's role, capabilities and equipment in order to align a regional response in the event of a water-based incident.
- The Metro Vancouver regional exercise for Disaster Debris Management, which resulted in a number of learnings and best practices that would be invaluable in a real disaster.

The City developed a robust, three-pronged Hazardous Materials and Dangerous Goods Management program, encompassing compliance monitoring, training and procedural development and documentation. A Corporate Hazardous Materials Management Training program was established to centralize all hazardous materials information management through customized staff training and data management. This initiative not only ensures the City meets its compliance obligations, but also reduces the use of hazardous waste in the workplace while mitigating the potential for safety-related incidences.

In 2021, the City publicly launched a new Emergency Notification System (ENS), "RichmondBCAlert." Within two weeks of the launch, new subscriptions reached 2,344 for Emergency Notifications and 1,174 for the Crime Prevention Newsletter. The system is also fully integrated with the MyRichmond public portal, providing easy access to update subscription and emergency contact information. Residents may choose between email, SMS, and automated phone calls for emergency notification.

Every year, the City participates in the Great BC Shake-Out event. In 2021, the City successfully tested the ENS, opened the Department Operations Centre (DOC), and implemented a Multi-Agency Emergency Response exercise that included various departments, Vancouver Airport Authority and E-Comm 9-1-1. Learnings from this exercise will help the City and other agencies be better prepared in case of a large earthquake.

In 2019, over 250 community facility staff received training to respond to potential safety threats and keep community members and staff safe.

In response to the unprecedented "heat dome" experienced in June 2021, the City developed a Hot Weather and Poor Air Quality Operations Guide. The plan sets out a coordinated approach across City departments to enable responsive mobilization in situations, including roles and responsibilities, facilities that will be available for the public, and other public amenities such as misting stations. This plan will enable the City to proactively respond to extreme heat and poor air quality events, improving the community's resilience and ability to weather environmental changes.

In November 2021, Richmond experienced a record-setting rainfall event receiving upwards of 138 mm of rain. The City quickly organized to address drainage system challenges and support residents, responding to over 600 calls from residents and distributing over 20,000 sandbags to those with low-lying properties. In addition, City staff were deployed to support the City of Abbotsford's Emergency Operations Centre (EOC) at the request of the Province in response to the floods and mudslides following the Atmospheric River Events that impacted the Lower Mainland. The Richmond team provided support to their Logistics, Agricultural Operations, Building Assessments, and Planning sections while also building a planning framework to develop a recovery plan for the flood-ravaged Sumas Valley and providing some respite to the emergency response personnel from Abbotsford.

Water quality is monitored by testing samples from 40 sites around Richmond and analyzing real-time PRV data, allowing for a quick response if needed – 24 hours a day, seven days a week.

In 2021, the City worked with GHL Consulting to host a demonstration of a Mass Timber Building under Fire Conditions at the Richmond Fire-Rescue Lafarge training site. The demonstration was part of a project funded by National Resources Canada, the National Research Council, Ontario's Ministry of Natural Resources and Forestry and British Columbia's Forestry Innovation Investment to complete a series of demonstration fire tests to support and expand the use of mass timber in tall buildings in Canada. The project culminated with two demonstrations; one in Richmond and one in Ottawa.

1.4 Foster a safe, caring and resilient environment.

The Richmond RCMP, in collaboration with Vancouver Coastal Health (VCH), launched the Fox 80 Mental Health Car (Fox 80) to provide a joint-response to mental health-related calls for service in Richmond. Fox 80 provides assistance to frontline policing units by conducting wellness checks and police apprehensions under the Mental Health Act. In 2021, the program launched an online platform for referrals through the Richmond Detachment's internal website which made the referral process for frontline police officers easier and more accessible in the field. In addition, the Richmond RCMP's Vulnerable Persons Unit (VPU) collaborated with the Ministry of Social Development and Poverty Reduction to conduct outreach for individuals who are experiencing homelessness. This includes assisting vulnerable persons experiencing homelessness during Extreme Weather Alerts.

Over 1,500 students a year participate in the Richmond RCMP's Drug Abuse Resistance Education (D.A.R.E.) for grade 5 students.

The City worked closely with other organizations in order to have a wider public reach on important safety issues. For example:

- The City worked with community organizations such as S.U.C.C.E.S.S. and Chinese Christian Mission to ensure that emergency preparedness information is translated and preparedness presentations are updated with cultural considerations. In 2020, an online course for the Resilient Richmond Community Program was developed to provide the Richmond community with multi-linguistic emergency preparedness information and tools.
- On-site fire safety education materials were provided to local faith groups at religious events including the annual Burning of the Chametz at Brighthouse Fire Hall No.1 and the Lingyen Mountain Temple 20th anniversary event for a 500-year-old ceremonial burn.
- Richmond Fire-Rescue collaborated with local health groups to carry out home inspections for vulnerable seniors to address safety risks. Seniors and their support person were provided a checklist to address any safety concerns that would be reviewed by a representative of the local health group on a subsequent visit.

The annual Richmond Fire-Rescue community toy drive received 1,000 donated toys for Richmond Cares Richmond Gives in 2021.

- The RCMP Vulnerable Persons Unit, Community Bylaws, Richmond Fire-Rescue and the Ministry of Social Development Outreach Program work collaboratively to respond to calls-for-service related to homeless camps on public property and individuals living in vehicles. As part of this effort, in 2019/2020 the City conducted outreach and distributed resource guides to support the health and safety of vulnerable persons in the community.

In-person volunteer policing programs were resumed in 2021 with enhanced health and safety protocols to support various crime prevention and road safety public education efforts. These included: Pedestrian Safety, Speed Watch, Lock Out Auto Crime, Distracted Driving, Fail to Stop, Crime Watch and Pop Up Detachments. Volunteers distributed:

- 954 Speed Watch information letters
- 2,897 Lock Out Auto Crime information letters
- 632 Fail to Stop information letters
- 7,107 Pedestrian Safety reflectors




The City implemented a new licensing and enforcement procedure for boarding and lodging programs to curb illegal short-term rentals in Richmond. The new measures brought Richmond in line with best practices in regulating short-term rental properties, ensuring adequate long-term rental supply and curbing nuisances such as "party houses".

1. Maintaining a Safe and Resilient City During the COVID-19 Pandemic

When the COVID-19 pandemic reached Richmond, a number of safety programs and strategies were put in place that guided the City's response. Throughout 2020, the following measures enhanced Richmond's ability to meet community needs and remain safe and resilient:

- The City participated in the Richmond COVID-19 Community Task Force (RCCTF), which provided a forum for Richmond community stakeholders, including all levels of government, to regularly connect during the COVID-19 pandemic, share relevant information, and explore collaboration opportunities. The task force was co-chaired by Mayor Malcolm Brodie and the Richmond Chamber of Commerce's Board Chair, Fan Chun.
- Council declared an emergency, which provided Council the authority to quickly and effectively address emerging issues as a result of the COVID-19 pandemic and make decisions in the best interest of Richmond.
- Community facilities and amenities were temporarily closed, including City Hall, the Public Works Yard, community centres, pools and arenas, arts, culture and heritage sites, and park and sport amenities where it would be difficult to maintain physical distancing. Many programs and services were transitioned online to continue to meet the needs of the community.
- Council endorsed the City of Richmond Plan for the Restoration of Programs and Service Affected by the COVID-19 Pandemic (the Restoring Richmond Plan). This plan guided the restoration of programs and services along a continuum of five steps from lower risk, lower potential for exposure, to higher risk, higher impact services from the perspective of health outcomes, financial realities, and public expectations.
- In coordination with the Restoring Richmond Plan, several upgrades and modifications were completed in civic facilities. For example:
 - Touchless automatic door openers and a touchless elevator control panel were installed in select facilities to decrease the need for high-touch surfaces.
 - HVAC systems were switched to 100% outside air where possible for improved air ventilation and filters were upgraded at select facilities, and HVAC upgrades at Thompson Community Centre were supported by a \$900,000 grant from Investing in Canada Infrastructure Program – COVID-19 Resilience Infrastructure Stream (CVRIS) from the Government of Canada and the Province of British Columbia.
 - In preparation for re-opening, facilities adjusted their floor plans to ensure participants could maintain physical distancing and barriers, such as plexiglass, were installed.
- A number of plans and protocols were established to reduce the risk of spread of COVID-19 and to prioritize the health and safety of City facility users. This included the Pandemic Exposure Control Plan, COVID-19 Safety Plans for all civic facilities, and updated plans and guidelines to provide continuity of services while remaining adaptable to the pandemic.
- The City stopped accepting cash payments at City Hall starting March 2020 to minimize touch points. Numerous electronic payment options were provided to taxpayers to encourage safe and efficient bill payments.
- Council adopted a COVID-19 Vaccination Policy in late 2021 to complement other workplace health and safety measures in a commitment to taking every reasonable precaution to protect the health and safety of its workforce and the community from the transmission of the COVID-19 virus. Following Council's adoption, third-party service contractors regularly engaged by the City also confirmed that their staff and subcontractors would be fully vaccinated when entering City facilities and worksites.
- The City procured and distributed critical personal protective equipment (PPE) supplies (such as cleaning supplies, face masks and hand sanitizer) throughout City facilities, including community centres, fire halls, libraries, ice arenas and aquatic facilities.



In the community, a number of initiatives were implemented to prevent the spread of the virus and support vulnerable populations:

- In partnership with BC Housing and Turning Point Recovery Society, the City opened the Emergency Response Centre (ERC) at Minoru Place Activity Centre in May 2020 to provide up to 45 safe spaces for vulnerable people during the COVID-19 pandemic.
- The City received a total of \$3.35 million in funding from UBCM through the Strengthening Communities' Services program to address the needs of Richmond residents experiencing homelessness during the COVID-19 pandemic. Projects under this initiative include:
 - ♦ The creation of a drop-in centre and shower program at the Brighthouse Pavilion at Brighthouse Park for people experiencing homelessness in partnership with Turning Point Recovery Society.
 - ♦ The establishment of a warming centre at South Arm Pool that provided basic accommodation for residents in need during the cold winter months (December-April) during the 2021/22 Winter Season in partnership with The Salvation Army.
 - ♦ A series of community homelessness dialogue sessions to increase understanding and awareness of homelessness and discuss opportunities to foster inclusive communities.
 - ♦ A new homelessness training program for City staff to enhance service provision to individuals experiencing homelessness.
- The City provided space at Minoru Park for VCH to open a drive-thru COVID-19 Assessment Centre with the goal of increasing community assessment and testing to the general public at a central location. With the assistance of the City, VCH later relocated the Assessment Centre to a site near YVR Airport.
- To support VCH's COVID-19 vaccination campaign, the City provided clinic space at East Richmond Community Hall and Minoru Centre for Active Living. City staff also assisted by helping the public navigate the clinics and provide input to VCH on community engagement strategies to better reach target populations.
- The City launched a Community Ambassador program from May–October 2020 to provide public education regarding the provincially and federally mandated Public Health Orders and guidelines. Over 150 City staff were redeployed from all departments in the City to patrol parks, outdoor facilities and businesses.
- Temporary road changes were implemented in Steveston Village in the summer of 2020 to provide increased space for physical distancing, with the addition of supplementary signage, electronic display boards, wayfinding kiosks and planters.

In May 2020, Council endorsed a statement against racism and violence related to the COVID-19 pandemic. In August 2020, the City and Richmond RCMP distributed anti-hate posters throughout Richmond, urging individuals to reach out to police if they experience or witness any hateful behaviour. The poster campaign addressed racially- and hate-motivated incidents.

In alignment with the City's Digital Strategy, online service options were launched or enhanced to ensure business continuity while protecting the health and safety of the public and staff. Some examples include:

- The City enhanced and expanded the electronic building permit submission system to accept applications, process, and issue permits electronically, and introduced measures to conduct inspections in a safe manner.
- In the MyRichmond portal, the MyHome section was enhanced to provide the public with additional transaction details and history related to payments for taxes and utilities.
- Online collaboration and web-conferencing tools were launched and systems were implemented to enable staff to provide remote and virtual service delivery. In addition, mobile and tablet-based applications were enhanced allowing for work to be completed in the field.
- A number of internal business processes were digitized to enable streamlined efficiencies within the City in the pursuit of providing the best service to the community and customers, and safety protocols were adopted for areas that conduct off-site work, such as inspections.

2. A Sustainable and Environmentally Conscious City



Environmentally conscious decision-making that demonstrates leadership in implementing innovative, sustainable practices and supports the City's unique biodiversity and island ecology.

Council views continued leadership in sustainability as a high priority. To be effective in this goal, Council intends to apply new, forward-thinking, and innovative approaches to the way the City conducts business. This includes prioritizing "green" initiatives and circular economic principles where appropriate, and prioritizing sustainability in a holistic sense, including but not limited to environmental concerns. Council's priorities for a sustainable and environmentally conscious city also extend to the community, with a focus on ensuring citizens have access to nature and to resources necessary to make sustainable choices.

Priorities include:

- 2.1 Continued leadership in addressing climate change and promoting circular economic principles.
- 2.2 Policies and practices support Richmond's sustainability goals.
- 2.3 Increase emphasis on local food systems, urban agriculture and organic farming.
- 2.4 Increase opportunities that encourage daily access to nature and open spaces and that allow the community to make more sustainable choices.

2. A Sustainable and Environmentally Conscious City

2.1 Continued leadership in addressing climate change and promoting circular economic principles.

In 2020, the Ministry of Environment and Climate Change Strategy announced approval of the City's Single-Use Plastic and Other Items Bylaw No. 10000, marking a critical milestone in Richmond's goal to promote more sustainable waste management to protect the environment. Extensive engagement was held in preparation of the Bylaw to support businesses as they work towards replacing single-use plastics and other items with products that are compostable or can be used multiple times before being recycled. Council adopted the Single-Use Plastic and Other Items Bylaw No. 10000 in September 2021 and it came into effect in March 2022.

In March 2019, Council declared a climate emergency. Richmond joined hundreds of cities across the globe, representing more than 20 million citizens, who have declared a climate emergency. The movement was in response to a warning from the Intergovernmental Panel in Climate Change (IPCC) in fall 2018 that drastic action is needed immediately to offset the risks of accelerating global warming. At this time, Council directed staff to update the 2014 Community Energy & Emissions Plan.

Following extensive community engagement between July 2019 and September 2021, the City's new Community Energy and Emissions Plan 2050 was adopted by Council in February 2022. The plan will see the City furthering its commitment and investments to realize a net-zero carbon city by 2050. With 200 actions within eight strategic direction areas and an implementation roadmap, these initiatives will chart the path for Richmond to achieve the ambitious targets of 50% reduction in community greenhouse gas (GHG) emissions by 2030, setting the stage for a net-zero carbon city by 2050.

Tree material from the annual Richmond Firefighters Charitable Society Drive-Thru Tree Chipping event is recycled and used for City operations.

In alignment with the OCP amendments made in 2018, work continued on the implementation of the BC Energy Step Code (ESC) to achieve more energy-efficient buildings in Richmond. In 2020, staff engaged over 200 industry stakeholders on extending the requirements that already applied to new residential buildings and most larger commercial buildings to new hotels and motels, and increasing ESC requirements for new detached residential homes and duplexes, matching the current requirement for townhomes. The Building Regulation

Bylaw amendment also introduced a 'two-option' approach for ESC compliance, where applicants can receive a one-step relaxation in Bylaw requirements by incorporating a low-carbon energy system into their project.

In 2019, Council adopted the Public Tree Management Strategy 2045 (A Plan for Managing Richmond's Public Urban Forest), which outlines the goals and objectives for the sustainable stewardship of City-owned trees. In support of this, almost 3,600 trees were planted from 2019-May, 2022. The City also administers regulations to manage the privately-owned portion of the urban tree canopy, upholding the principle that primarily trees are to be retained and those lost to development are replaced at a greater rate than removed. The Tree Protection Bylaw No. 8057 was updated to enable better enforcement along with additional public education for residents and the building industry on tree preservation.

The City's LED light replacement program upgraded 2,870 street lights to LED, reducing energy consumption by 50%.

A Council-endorsed mechanical upgrade was completed at the Richmond Cultural Centre and Library which will reduce the building's greenhouse gas (GHG) emissions by 60% (or 160 tonnes of GHG's) annually. The City received \$139,000 in funding from BC Hydro and was awarded \$750,000 from Federation of Canadian Municipalities (FCM) to complete this project and support Council's target to reduce GHG emissions from civic buildings.



Richmond Cultural Centre and Library

In an effort to complete canal stabilization works in more eco-friendly and efficient ways, the City has undertaken pilot programs where canal stabilization is done with Bio-Engineered solutions rather than traditional rock-based riprap. The solution allows for construction of a protected slope while enabling vegetation to grow on the wall face. The City continues to monitor the pilot program and the results have been positive. These Bio-Engineering solutions have been incorporated into several other recent canal stabilization projects.

2. A Sustainable and Environmentally Conscious City

The City received and recycled over 74,600 tonnes of used asphalt and concrete construction materials to be reused in City construction projects.

2.2 Policies and practices support Richmond's sustainability goals.

The City launched the Mitchell Island Environmental Stewardship Initiative in the spring of 2019 to protect the local environment on the island, which is on the ecologically-sensitive Fraser River Estuary and is one of Metro Vancouver's major industrial hubs. Throughout the term, the City hosted information sessions for businesses; had regular meetings with Federal, Provincial, and regional regulators; and encouraged compliance with environmental best practices. For example, in 2021, *Metamorphosis*, a new mural by artists Karen Yurkovich and Tristesse Seeliger, was painted along Mitchell Road to bring awareness to some of the island's native plant species. Ongoing storm water monitoring has demonstrated improvements in water quality since the program's initiation. In 2020, the City was awarded \$75,000 from the Federation of Canadian Municipalities' (FCM) Green Municipal Fund to support this ongoing work.



Metamorphosis Mural by Karen Yurkovich and Tristesse Seeliger

Council adopted Soil Deposit and Removal Bylaws No.10200 in April 2021 to strengthen the pre-existing regulatory framework related to soil movement in the City. The enhanced regulations serve to better safeguard Council-endorsed strategies such as the Environmentally Sensitive Areas Management Strategy, Agricultural Viability Strategy, and the Invasive Species Action Plan, and ensure that the fees collected reflect the cost to the City.

In 2021, Council endorsed a one-year trial ban of rodent poison products on City property in response to concerns about the harmful effects they may have on local ecosystems and wildlife. During this period, the City also conducted

outreach with residents, provided a 24-hour hotline, and offered preliminary site assessments to residents. In addition, practices shifted to pesticide-free, prevention-first rodent control for City facilities.

Community recycling programs and services were expanded:

- The City's Recycling Depot operating hours expanded to seven days a week in 2021, increasing from five days a week in 2018. The expanded operating schedule increased user traffic by 44%, or by more than 75,000 users per year.
- The scope of materials accepted at the depot was expanded to include lead-acid batteries, fire extinguishers, smoke and carbon monoxide alarms, motor oil and antifreeze, propane tanks, butane canisters, electronics, upholstered furniture, tires, thermostats, and baby car seats as a pilot. This initiative resulted in an additional 2,600 tonnes of materials being diverted for recycling or proper disposal in from 2019–2022.
- Curbside collection for the Large Item Pick Up Program increased from four to six items in 2019. These additions have resulted in an average of 250 tonnes of additional materials being collected each year, while increasing convenience for residents to dispose of unwanted large or awkward items. Through this program, more than 18,500 items are collected on average annually.

By increasing accessibility to recycling services, the City is making recycling easier and more convenient for residents, while supporting a more circular economy. From 2019–2022, the City's Recycling Depot hosted an average of 220,000 customers per year, or one visitor for every 48 seconds that the facility was open. The Recycling Depot represents approximately 12% diversion of the City's overall 79% single-family residential recycling rate. On average, over 6,000 tonnes of materials are received for recycling at the Recycling Depot each year.

136 solar panels were installed on the roof of Brighthouse Fire Hall No.1, which are projected to generate around 60,000 kilowatt-hours of electricity per year.

Through the 2020 Green Fleet Action Plan, the City has applied multiple solutions to realize emission reductions and achieve more sustainable fleet operations. The City exceeded its goal to reduce GHG emissions from the corporate fleet by 20% by 2020, achieving a 28% reduction. Additional achievements include:

- In support of more electric vehicles (EVs) in the City's fleet, the corporate charging infrastructure has grown to include 24 level-two charging ports. In 2021, the City was also awarded a \$420,000 grant from Natural Resources Canada which will contribute to the City's future plans to add 54 level-two and three level-three corporate charging ports.



Electric City Fleet Vehicle

- City Council endorsed the West Coast Electric Fleets Diamond Lane pledge which commits the City to replace above 10% zero emission vehicles for all new corporate passenger fleet vehicle procurements annually.
- Various pilot projects were launched to assess the feasibility and effectiveness of alternative options:
 - 15 City fleet vehicles were converted to use propane from gasoline. This initiative is expected to produce a 30% offset in GHG related fuel emissions. In total, there are 77 lower emissions vehicles in the City's fleet: 34 hybrid, 18 electric, one hydrogen, nine plug-in hybrid electric, and 15 propane.
 - Solar panels were installed on five work trucks to charge auxiliary batteries used for equipment and lighting which would otherwise require vehicles to idle to recharge the power while in the field.
 - A modular hydrogen system was incorporated into three heavy duty vehicles to determine if the modification reduces fuel consumption and emissions by burning diesel more efficiently. The City received matching funding under the Clean BC Heavy-Duty Vehicle Efficiency Program for the conversion cost.
 - Three fully electric power pack generators with solar trickle chargers were added to the fleet to allow for power on work sites and events with no emissions.

As part of the transition away from gas-powered equipment, the City began implementing a replacement program for parks operations equipment that includes the use of electric chain saws, line trimmers and other small equipment.

Through digitization of services and the adoption of new technologies, the City has also reduced the use of materials, increased efficiency and services, and reduced costs. For example:

- Adoption of electronic processes included an Electronic Plan Review system for building permit applications, the Bylaw Violation Dispute adjudication system, and the Monthly Parking Permit and Richmond Resident Veteran Parking Permit application and renewal processes. In addition, the MyRichmond online portal was enhanced to allow for a permitting application, review and approval process for business licensing permits.
- Predictive and remote technologies allowed for more efficient deployment of parking enforcement officers to geographically modelled "hot-spot" locations, remote dispatching of contracted hydro-excavation equipment for field-based reporting and responses, and administration of the Facility Energy Management Program through direct digital controls (DDC) at City Facilities for the monitoring and optimization of energy consumption.

Richmond continues to demonstrate its leadership in water conservation by providing a number of initiatives. For example, during the term:

- The fixed-base water meter reading network was expanded to add additional data acquisition points. In addition, the City implemented remote collection of approximately 94% of the water metering data, reducing the need for vehicle-based mobile readings by 75%.
- The water pressure management program save the City an average of \$1.8 million in avoided water losses annually by reducing the system's pressure during low demand periods to reduce potential leakage.

2. A Sustainable and Environmentally Conscious City

2.3 Increase emphasis on local food systems, urban agriculture and organic farming.

Richmond partnered with FoodMesh, a Vancouver-based company that facilitates food redistribution, in 2019 to launch the Richmond Food Recovery Network and engage local food businesses to divert their unsold surplus food from waste streams to higher value uses. In 2020, FoodMesh expanded their platform nationwide and named Richmond as one of the founding partners. Fifty-nine organizations participated in the Richmond Food Recovery Network, and the original program targets were exceeded:

- 414,555 kg food diverted from waste streams;
- 644,800 meals created;
- \$2.2 million dollars in savings to local food brands and charities; and
- 17,532 kg of food provided to local hobby farmers for animal feed.

For this initiative, the City won the 2021 Community Project Award from the British Columbia Economic Development Association.

The City received \$3,500 from Tree Canada to plant 93 fruit bearing trees, 235 shrubs and 110 ground covering plants at Paulik Park.



Paulik Park

Through a partnership between the City and Urban Bounty (Richmond Food Security Society) and funding by the United Way, a Match Maker/Food Hub project was launched in May 2020. Chefs prepared meals at the East Richmond Hall and the Terra Nova Red Barn and food vouchers were provided to community organizations who managed delivery to families. About 500 meals per week were delivered through a range of community organizations and public-sector sites such as

Cambie Secondary School, Healthiest Babies Possible, McNeely Elementary School. In addition to this, they also supported the Richmond School District with 300-bagged lunches per week. The Richmond Food Security Society was awarded the 2021 British Columbia Recreational and Parks Association (BCRPA) Provincial Award for Community Leadership for the innovative meal program and partnership with the City of Richmond.

The City currently boasts 572 individual community garden plots at 12 City-owned sites that are managed by Urban Bounty, including 200 new individual plots recently constructed at the Garden City Lands. In December 2021, following a community engagement process to receive input from the public on potential future community garden locations, Council approved three new community garden sites along the Railway Greenway, adding up to over 100 new individual plots planned to be constructed in spring 2022. Community gardens promote enjoyment of the outdoors, enhance community social connectedness, and improve food security.

The City was awarded a \$175,000 grant from the Federation of Canadian Municipalities' Green Municipal Fund to support its ongoing studies on the Garden City Lands. The purpose of the studies is to fully identify, characterize and locate contaminants on the project site and secure a Certificate of Compliance from the provincial government. The certificate will certify that the site's contaminants have been safely managed to allow for use as an organic farm.

In support of the native pollinator populations, a number of initiatives were launched or expanded. For example:

- Pollinator Meadows and apiaries were installed in Terra Nova in partnership with Border Free Bees, along with educational material to provide community members information on the importance of pollinators and pollinator habitat.
- The Richmond Nectar Trail Project was launched and piloted in partnership with Border Free Bees in 2020. In response to the positive acceptance from the community, the program continued into 2021. The Nectar Trail promotes community awareness and increase and connect habitats with a series of 'stepping stone' garden plots for insects to rest and forage while en-route between isolated habitat hubs.
- In January 2022, Council endorsed an application for Richmond to be designated a "Canadian Bee City" by Pollinator Partnership Canada, a registered charity that is dedicated to the protection and promotion of pollinators and their ecosystems through conservation, education, and research. Certification as a Canadian Bee City acknowledges Richmond's continued dedication to protect pollinators and pollinator habitat in the community.



Apiaries at the Terra Nova Rural Park

A number of initiatives were launched in the term to support Riparian Management Areas (RMAs), which are important ecosystems where terrestrial and aquatic environments meet. For example:

- The City adopted a stewardship model for single family development reviews of properties with a RMA designation and supported applicants throughout each phase of development to make the process easier for residents.
- The City provided a Municipal Update for the Real Estate Board of Greater Vancouver to help realtors locate RMA designated properties, understand the requirements for single- family residential development, and understand opportunities to enhance the RMA setback.
- The City began developing an engagement and community activation plan to support landowners in implementing practices that enhance biodiversity, reduce GHGs, restore soil resiliency, and increase the sustainability of farms.

Recognizing the importance of access to local fresh food, between 2020 to 2022, Council allocated over \$61,000 to support and enhance farmers' markets. This funding supported an extension of the Kwantlen St. Farmers Market into the fall season, enabled the Sharing Farm to plant a fall crop to supply the extended market dates, and in 2021, helped to re-launch the Steveston Farmers and Artisans Market. The 2022 funding will also support a pilot pocket farmers market in Hamilton coordinated by Urban Bounty, and community events related to food security and/or promotion of local food and food producers, such as the return of The Sharing Farm's Garlic Festival.

2.4 Increase opportunities that encourage daily access to nature and open spaces and that allow the community to make more sustainable choices.

In July 2021, Council endorsed the new Community Environmental Enhancement Grants Program, in recognition that access to nature and healthy, local ecosystems can improve the quality of life for residents. The program grants registered non-profit organizations access to up to \$2,500 annually in funding for materials needed to enhance Richmond's natural environment, including improving boulevards, watercourses and natural parks areas. In March 2022, Council approved the disbursement of \$30,100 to 13 different non-profit societies.

Richmond became the first city in the Lower Mainland to receive a Bat Friendly certification. Related initiatives include the installation of a large bat house in Terra Nova Rural Park, participation in the Bat Matters 2020 Conference which brought together bat citizen scientists, educators, and enthusiasts to discuss issues related to bat education and habitat management, bat education programs for elementary school students, and the addition of information about the protection and preservation of bat species in outreach material for development.

The City's Nest Box Program engages volunteers to monitor and maintain nest boxes for barn owls, chickadees and tree swallows. Nesting boxes have been installed at Garden City Lands, Garden City Park, Paulik Park, Terra Nova Rural Park and Terra Nova Natural Area, with a total of:

- 43 tree swallow boxes
- 30 chickadee boxes
- 15 barn owl nesting box

Creative and innovative programs and services connect members of the community with nature and enhance Richmond's natural environment. For example:

- The City of Richmond GeoTour encourages all ages to explore Richmond on foot or by bike to look for 50 hidden geocaches (treasure boxes). In 2021, 588 geocachers from 14 different countries logged 2,829 geocache finds. New in 2022, the Geocaching Adventure Lab app offers adventure seekers virtual caches at Terra Nova Park and the Richmond Nature Park.
- Richmond Public Library's Storywalks® program expanded in 2019 to offer events for both children and adults. This outdoor literacy program offers a unique active outdoor reading experience. In May 2022, in partnership with the

2. A Sustainable and Environmentally Conscious City

Rotary Club of Richmond Sunrise and the City of Richmond, the Richmond Public Library will launch the permanent McLean Neighbourhood Park Storywalk.

- A series of ExplorePACKS were launched at Richmond Public Library, including 25 birdwatching kits, six fishing kits, and 14 hiking kits. The packs provide opportunities for residents of all ages to explore the community and natural environment and were made possible by community partner donations.
- The City collaborated with Richmond School District No. 38 to participate in the annual iNaturalist City Nature Challenge, which encourages people from all over the world to observe their natural environment by documenting and sharing information about their local ecosystems. In 2020 and 2021, Richmond collected an average of 1,394 observations and 408 different species of organisms were identified per year.
- The 2021 Richmond Earth Day Youth (REaDY) Summit was adapted due to COVID-19. The City collaborated with Richmond School District No. 38 to create an Earth Day Design and Colouring Initiative for Kindergarten to Grade 12 students. Students participated by showcasing their ideas about Richmond's biodiversity in colourful and creative ways. Students in the City's Green Ambassador Program helped create the poster designs by participating in a Richmond Biodiversity and Graphic Design Workshop, led by local artist Laara Cerman.
- In 2022, Richmond Earth Week took place from April 16 to 24. The City hosted over 25 free programs ranging from beekeeping and tree planting to birdwatching and harnessing wind power. Over 550 participants attended Earth Week Programs across the City. The Signature Tree

Plant at Garden City Park saw approximately 90 trees and 1000 shrubs planted by 60 volunteers. Eight community groups supported the City in hosting these programs.

In 2019, the free Wheel Watch bicycle parking program was offered at 11 community events, serving almost 2,100 people.

The City undertook educational and promotional initiatives throughout the term to encourage cycling in the community. For example:

- Free cycling skills training was provided to Richmond students and newcomers. Approximately 1,600 students from 18 elementary schools received the training. In addition, bike maintenance courses were offered in 2019 to promote cycling as a mode of active transportation.
- A Cycling Art Tour self-guided map was developed to encourage residents of all ages to get outdoors and discover community and public art. The artworks highlighted in the tour celebrate the power and resilience of community, connection, togetherness, home and place.
- The free Richmond Recreational Trails & Cycling Map was updated and distributed in 2019 in partnership with Tourism Richmond to promote active transportation.

In 2019, the free, family-oriented Island City, by Bike Tour event had over 100 participants.



Railway Greenway



Flood Protection Dike Works

3. One Community Together



Vibrant and diverse arts and cultural activities and opportunities for community engagement and connection.

Council recognizes that as a community we are stronger when we come together. A range of opportunities for the community to meet and connect, particularly through arts, cultural and heritage programs and activities helps to sustain Richmond's vibrancy. Forming a unified Richmond also involves working with community partners and taking an intercultural and interagency approach where possible to best meet the wide-ranging needs and interests of the community.

Priorities include:

- 3.1 Foster community resiliency, neighbourhood identity, sense of belonging, and intercultural harmony.
- 3.2 Enhance arts and cultural programs and activities.
- 3.3 Utilize an interagency and intercultural approach to service provision.
- 3.4 Celebrate Richmond's unique and diverse history and heritage.

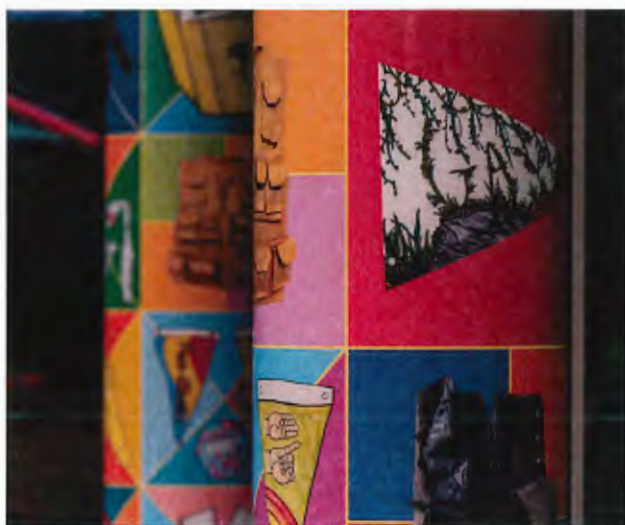
3. One Community Together

3.1 Foster community resiliency, neighbourhood identity, sense of belonging, and intercultural harmony.

Council adopted the first Cultural Harmony Plan (2019–2029) for the City. The plan guides the City's approach to enhancing cultural harmony amongst Richmond's diverse population by identifying innovative and collaborative approaches for intercultural connections. Over 370 individuals, including representatives from 35 organizations, actively participated in the development of the plan through public open houses, focus groups and LetsTalkRichmond.ca.

Pride Week continued to be actively celebrated across Richmond throughout the term to bring together members of Richmond's Lesbian, Gay, Bisexual, Transgender, Queer and Two-Spirit plus (LGBTQ2S+) community and their allies. For example:

- In 2019, Council approved the installation of the first rainbow crosswalk on Minoru Boulevard between the Richmond City Hall Annex and the Richmond Cultural Centre as an ongoing reminder of the City's commitment to recognizing diversity and inclusiveness across the community.
- Throughout the COVID-19 pandemic, various online activities were offered during Pride Week. Some examples include online film screenings, poetry and art workshops, drag queen story times, online dance parties, and informative workshops.
- *Signs of Pride*, a community art project by artists Sam McWilliams, Paige Gratland, Phranc and local youth artists was unveiled at West Richmond Community Centre. In addition, Pride window challenges and other public displays shared supportive and vibrant messages throughout the community.



Signs of Pride by Sam McWilliams, Paige Gratland, Phranc and local youth artists

In 2020, the annual ERASE Bullying campaign celebrated five years of promoting connection, belonging and a respectful city.



Mayor Malcolm Brodie, Councillor Chak Au, Councillor Carol Day, Councillor Alexa Loo, Councillor Bill McNulty, Councillor Michael Wolfe, Councillor Linda McPhail, Councillor Harold Steves and Councillor Andy Hobbs for Pink Shirt Day.

The annual Diversity Symposium was re-imagined into a virtual format spanning a week starting in 2020. In addition, new accessibility measures were implemented for participants with visual or hearing disabilities including providing voiceover welcome information for sessions, live closed captioning during each session and screen-reader compatible instructions during the registration process. The annual event discusses topics to support building diverse, inclusive and equitable communities. Since 2019, 841 individuals from throughout BC, Canada and internationally have registered in 26 engaging sessions.

The City launched the updated Newcomer's Guide to Richmond in 2020 to provide a resource for newcomers seeking information on how to settle into life in Richmond. The guide was first launched in 2009 and revised in 2012 and 2015. This latest iteration was updated in consultation with the Richmond Intercultural Advisory Committee, the Richmond School District and immigrant-serving agencies. The guide is available online in English as well as Traditional and Simplified Chinese.

The One Book, Four Cities program launched in 2019 in partnership with the Sister City Advisory Committee and continued to grow throughout the term. Unique online and in-person programs and activities were offered each year to keep the community connected to reading through learning and community conversations. In 2021, participants had the opportunity to connect with residents in Qingdao and Xiamen, China and Wakayama, Japan which joined in 2021. Over 100 people participated in an online event to hear internationally recognized Canadian author Michael Ondaatje speak live.

3. One Community Together

In 2022, the Neighbourhood Celebration Grant Program was re-launched to support grassroots community efforts with funding up to \$2,500.

Throughout 2021, community programs and initiatives provided opportunities for age-friendly community building. For example:

- The *Artful Aging Enrichment Project* provided art-based and wellness literacy programs in which participants could move beyond the labels of 'youth' and 'seniors' to interact as peers in learning. This program offered at the City Centre Community Centre was funded by an \$11,500 New Horizons Grant from the federal government.
- The City Centre Community Centre Intergen Youth Group leveraged opportunities during Youth Week and Seniors Week to offer two *Aging and the Community* seminars to combat ageism and promote positive intergenerational relationships. These discussion-based sessions fostered interactive dialogue where youth and older adults listened to each other about what ageing means to them.
- The annual *Positive Aging Campaign*, as part of National Seniors Day on October 1, showcased positive images of Richmond seniors to help reduce ageism and stereotypes. In 2021, the theme, *How Aging Positively Spreads*, highlighted the impact and rippling effect one person can have in creating positivity across a community.

In January 2021, the City launched the Youth Civic Engagement Program, a free eight-week education to action program that creates opportunities for youth to engage with one another, develop new skills, and learn about local government. The final session provides participants with the opportunity to present project ideas to the Mayor and Council Members in teams at a virtual mock City Council Meeting. In 2021 and 2022, three cohorts completed the program with a total of 33 participants between the ages of 15 and 23.

On March 23, 2020, the City demonstrated its commitment to promoting inclusion and supporting refugees by signing the United Nations High Commissioner for Refugees (UNHCR) Cities #WithRefugees pledge. This global initiative seeks to amplify the efforts of cities who are creating inclusive communities where everyone can live in safety and contribute to and participate in their local community.

*170 participants took part in two expert panel discussions about the film *The World is Bright*, which explores the prevalence and challenges of mental illness experienced by new immigrants.*

Through a provincial government multiculturalism grant, Richmond Public Library partnered with Connections Community Services to purchase podcasting kits and develop a podcasting program to reduce barriers for Black, Indigenous, and People of Colour (BIPOC) teens and young adults looking to enter the dynamic world of podcasting. The kits and training provided gives participants access to the technology and skills needed to start their own podcast.

In 2019, Gateway Theatre's production of *China Doll* in English included subtitles for both Cantonese and Mandarin speakers at every performance for the first time. Subtitles in simplified and traditional Chinese were also added for 2022's *In Wonderland*.

The new Inter-Faith Prayer and Meditation Space at the Richmond Public Library's Brighouse Branch has been designed for customers to have a quiet area for prayer and reflection.

3.2 Enhance arts and cultural programs and activities.

In 2019, Council adopted ArtWorks: Richmond Arts Strategy 2019–2024, demonstrating leadership in prioritizing the arts as a contributor to a vibrant, appealing and livable community. Rooted in local context, the strategy positions the arts as a means to achieve community goals in economic development, health and well-being, infrastructure and tourism.

The annual Richmond Arts Awards recognized the achievements and contributions to the arts by Richmond residents, artists, educators, organizers and business leaders. In 2022, the awards returned to an in-person format at the Gateway Theatre where award recipients for 2020, 2021 and 2022 were celebrated.

Various public art installations were unveiled across Richmond throughout the term. Major installations include:

- *Sea to Sky* by Thomas Cannell at the corner of No. 3 Road and Cook Road.
- *Together* by David Jacob Harder in front of Minoru Centre for Active Living.
- *Wind Flowers* by Alyssa Schwann and Michael Seymour along the Gilbert Road Greenway.



Wind Flowers by Alyssa Schwann and Michael Seymour

The Community Mural Program saw the installation of 10 murals throughout the term. Murals activate public areas by adding beauty and colour, while the images foster community dialogue and help people connect with places. As well, the process of designing community murals fosters social connections as project participants share ideas to co-create a collaborative vision. The murals can be found at a variety of locations throughout Richmond.

In 2021, Richmond Culture Days returned to in-person programming at the Richmond Cultural Centre with the support of 40 volunteers and many of Richmond's local arts organizations. Overall, 63 unique activations were offered in Richmond both in-person and virtually. As a result, Richmond was once again recognized as one of the top 10 most engaged cities in Canada overall, and top five for mid-size cities across the nation.

In January 2022 the Council-endorsed Blue Cabin Floating Artist Residency arrived at Imperial Landing. The historic cabin will host artist residencies and public programs that connect to the complex histories of the area. Musqueam artist Debra Sparrow and Richmond-based artist Keely O'Brien will be the Blue Cabin's first artists-in-residence in Steveston in 2022.

Throughout the term, the Engaging Artists in the Community (EAC) program fostered cross-cultural exchange, inclusive community building, and education on community issues by collaborating with artists with socially-oriented art practices. Various community programs, workshops and initiatives were offered in collaboration with local artists, including:

- Richard Campbell, Sandra Guerin, Gary Point, Martin Sparrow and Tsatsu Salqayu (the Coastal Wolf Pack) for *Celebration of Musqueam Expression*;

- Wen Wen (Cherry) Lu for *The Interpreter Project*;
- Julie Hammond for *Minoru Manifesto*;
- Popo and Lola (April dela Noche Milne and Dawn Lo) for *Thompson Community Centre Mural Project*;
- Lori Weidenhammer, supported by Lois Klassen, Crystal Lee, Jenn Pearson, Catherine Shapiro and Lori Snyder for the *Victory Gardens for Diversity Project*;
- Rachel Rozanski for *Exploring Ecology Through Place*;
- J Peachy, along with Pat Calihou, Melissa West Morrison, Yolanda Weeks and Tiffany Yang for *Whimsical Garden*;
- Jean Bradbury for *Stories of Home – Past and Present*;
- Sam McWilliams, Paige Gratland and Phranc for *Signs of Pride* at West Richmond Community Centre;
- Edward Fu-Chen Juan for *Art Cultivation from Nature*;
- Sebnem Ozpeta for *WALK*; and
- Mickey L.D. Morgan for *Wayfinding Art Studio*.

The Writer-in-Residence program continued to foster community connection to reading, through learning and community conversations. The annual series delivers hands-on programming for local emerging and aspiring writers. A number of free programs and workshops were offered by writers:

- Cynthia Sharp (2019)
- Lindsay Wong (2020)
- Sonya Lalli (2021)

The annual residency position runs from September through November each year.

The Richmond Art Gallery (RAG) launched a free digital public portal of the Art Gallery's permanent collection of over 300 works of art representing the history of artistic practice in Richmond and BC. The portal allows residents of Richmond and beyond to learn about and enjoy artworks created by some of the most renowned artists from Richmond and BC, including Susan Point, Bill Reid, and Greg Girard.

The Linda Perron Ukulele Lending Library was created in memory of a Richmond resident who was well-known for her passion for music-making, commitment to family and friends, and connection to volunteerism. This community-led donor campaign was initiated by a team of ukulele-loving older adults who wanted to share the many benefits of music. The 35 ukulele kits are available to borrow from Richmond Public Library.

3. One Community Together

In 2022, an immersive Lunar New Year lantern installation, *Into the Light*, was created at Gateway Theatre by artists Marina Szijarto and Stephanie Wong. The all ages, immersive, walk-through experience brought a unique approach to Lunar New Year, a holiday celebrated by many in the community.



Into the Light by Marina Szijarto and Stephanie Wong

3.3 Utilize an interagency and intercultural approach to service provision.

In this term, Council approved the allocation of approximately \$3.6 million through various community grants:

- Arts and Culture: Approximately \$467,700 was allocated for operating and project grants for cultural non-profit organizations.
- Child Care: Approximately \$238,300 was allocated to non-profit organizations that support or deliver licensed child care in Richmond.
- Health, Social and Safety: Almost \$2.5 million was allocated to non-profit community service organizations.
- Parks, Recreation and Community Events: Approximately \$446,700 was allocated to non-profit organizations that deliver programs and services that support the health, well being, and community connection of Richmond residents.

In 2019, the Belonging Matters Symposium was held at the Richmond Public Library in partnership with the Community Action Team (CAT) Overdose Response Committee for service providers across Richmond to learn from community members with lived experiences. In 2020, the City and VCH received a Community Action Initiative Harm Reduction Grant to support Health Champion Conversations between health service providers and people with lived experience of substance use to further reduce stigma and increase understanding.

A variety of programs engaged youth through the arts:

- Transgender, gender diverse, and queer youth participated in a media arts training program that empowered them to express their stories. The participants created a magazine

that reflects the experiences of living as a LGBTQ2S+ youth in Richmond, entitled *Just Like You*. This program was hosted by City Centre Community Centre and the Richmond Youth Media Program through grant funding from Trans Care BC.

- Participants of the Richmond Youth Media Program joined professional filmmaker Glen Andersen to film and edit a 20-minute video of *Hope Beyond Homelessness*, a play created and performed by Richmond community members with lived experience of poverty and unstable housing.
- The Richmond Art Gallery partnered with Emily Carr University to provide youth with opportunities for hands-on and interactive sessions with artists, art professionals and instructors. Over 40 students learned about topics such as creating professional portfolios and exploring post-secondary options in the arts.

In 2021, the fourth biennial ArtRich juried exhibition for local artists was hosted at the Richmond Art Gallery in collaboration with the Richmond Arts Coalition. Over 320 artwork submissions from 178 local artists were received. The final exhibition presented 53 artworks by Richmond and Lower Mainland artists, and three artists were selected to be featured in a public art exhibition for the No. 3 Road Art Columns in 2022.

The Richmond Art Gallery School Art Program created new Classroom Art Kits which bring hands-on art education from professional artists to the classroom. Each kit consists of comprehensive video instruction by contemporary Canadian artists, high-quality art supplies and tools, and lesson plans for students to create a curriculum-based art project. The first two kits, focused on the topic of Indigenous art, were created in partnership with artist Michelle Sound, who is Swan River First Nation Cree and Red River Métis born, and raised in Coast Salish territory. The program has been very successful with schools across the lower mainland with over 900 student participants.

During the 2019/2020 school year, the Art Truck visited six Richmond elementary schools to deliver 60 sessions of arts education.

The annual Winter in the Village event invites the public to experience a number of holiday-themed activities in Steveston Village throughout the month of December in partnership with Tourism Richmond. Over 40 organizations and businesses animate the village with holiday cheer, even when in-person events and activities were limited.

The City of Richmond and the Britannia Shipyards National Historic Site Society entered into a partnership with the *Providence*, naming it the official flagship for Britannia Shipyards National Historic Site. This agreement secures the participation of the active working vessel at City events and other programming opportunities, which generates interest from the classic wooden boat community.

3.4 Celebrate Richmond's unique and diverse history and heritage.

The Richmond Boat Builders at Britannia Shipyards National Historic Site reopened in August 2021 allowing visitors to explore the building for the first time since 2018. A temporary exhibit featured stories of the Kishi family experience and history, boat building skills, tools and methods, and showcased the vessels *MV Burnaby* and *Mukai Princess*. Restoring access to this facility enables the community to preserve knowledge about and celebrate the people who contributed to Richmond's boat building heritage.

In 2021, the *Voyage of the Gikumi* river boat tour was launched to introduce passengers to the Fraser River's history of rum running, rescued whales, salmon cannons, and the namesake of Lulu Island. The three-hour boat tour begins at the Britannia Shipyards National Historic Site, aboard the *MV Gikumi*, a 67-year old restored work boat, and travels the Fraser River.



Voyage of the Gikumi river boat tour

A number of programs and initiatives were developed to share the history and culture of Indigenous communities locally and across Canada. For example:

- The Indigenous Perspectives collections at Richmond Public Library was expanded in 2020 to responsibly represent

Indigenous cultures, history and issues. The library also partnered with Connections Community Services to offer a 10-installment podcast series that featured Indigenous Storytellers and offer two library programs connecting local Indigenous artists with children and families.

- The City introduced a training program for staff to learn about the history and culture of Indigenous communities in Canada, the history of residential schools, and treaties around the country.
- A number of virtual events and learning opportunities were shared in honour of National Indigenous Peoples Day which encouraged participants to listen, reflect and learn about the history, heritage and contributions of vibrant and diverse First Nations, Inuit, and Métis communities.
- In 2019, the Lulu Series hosted a talk by Indigenous knowledge keeper and weaver Debra Sparrow. Over 100 people attended the event to hear the stories shared about the history of Richmond, the links between Musqueam ancestors, her creative practice, and our modern city.

The Nikkei Memorial public art project was unveiled in Steveston Community Park in 2019. This public memorial acknowledges the departure of Japanese Canadians from Steveston and their subsequent return after the period of internment. Commissioned by the City, in partnership with the Steveston Japanese Canadian Cultural Centre Advisory Committee, the project was designed by Hapa Collaborative with input from stakeholder groups and individuals who shared their experiences from before, during, and after the internment period.

Launched in 2019, the Living History Program at Steveston's historic sites is supported by local volunteers, with a peak of over 700 volunteer hours in 2019.

In celebration of Black History Month, various events, programs, and exhibits were featured throughout the term. For example:

- In 2019, eight free events and activities offered for all ages, including an opening ceremony, an art exhibition featuring artists Akem and Odera Igbokwe, storytelling for children, dance performances, a film screening, presentations on notable historical figures, and book displays.

3. One Community Together

- In 2020, the “Are We” exhibition by Chrystal Johnson explored concepts of identity and vulnerability through sculptures made of three-dimensional soapstone carvings.
- In 2021, a series of programs and panels discussion was offered to create awareness about the history and contributions of black community members. Panelists shared how their cultural history has informed their lives and their lived experiences. *Afrofuturism*, an exhibition by artist Eric Mazimpaka, explored the rich history of East African art and classical Renaissance painters within a contemporary African frame.
- In 2022, the exhibition *Black Artists and Creators in our Community*, by artists Sade Alexis and Joella Daniela, portrayed depictions of the Black community that highlight the individuality, multidimensionality and diversity of Black people.

The Richmond Museum developed three new feature exhibitions to inspire curiosity about the community’s history while exploring our place in the world:

- In 2018, *Obsessions: Every Collector Has A Story* provided a peek into the world of collecting;
- In 2019, *City at Work* allowed visitors to explore the invisible inner workings of the City; and
- In 2021, *Reinventing Richmond* explored how the city’s identity has been created—and recreated—over time.

In February 2020, the Richmond Olympic Oval celebrated the 10-year anniversary of the 2010 Vancouver Winter Olympic Games and welcomed over 1,500 students from Richmond schools at the festivities.

The City continued to support the annual Steveston Salmon Festival, which transitioned online during the COVID-19 pandemic. In 2021, the City and Steveston Community Society presented “Canada Day at Home presented by the Steveston Salmon Festival” to celebrate the decades-long tradition. The primarily online program shared and celebrated the traditions and cultural richness of Steveston and Richmond through performances, demonstrations, storytelling and interactive activities that showcased local talent and highlighted the community’s history, diversity and resilience.

With the support of a \$48,900 grant from the Department of Canadian Heritage, the City, Britannia Shipyards National Historic Site Society and the Richmond Arts Coalition re-imagined the annual Richmond Maritime Festival as a hybrid event in 2021 featuring a blend of online and on-site programming. In-person attendance at the festival was estimated at 9,000 visitors over the two-day event.



Net Mending Demonstration at the Richmond Maritime Festival

In 2021, Britannia Shipyards National Historic Site introduced a new activity booklet aimed at children 6–10 years of age to enhance the visitor experience. The guide will be an on-going part of the experience at the historic site for the coming years to foster curiosity and learning about Richmond’s maritime heritage.

3. Demonstrating One Community Together During the COVID-19 Pandemic

The #RichmondHasHeart campaign continued to bring residents, businesses and stakeholders together during the COVID-19 pandemic. A variety of virtual and neighbourhood-scale activities were provided through the initiative aimed at connecting residents in a manner consistent with provincial health directions, while supporting local artists, businesses and community organizations. Some examples include: Eating in the Time of COVID, an exhibit for the No. 3 Road Art Columns, and the *Reconnecting* video produced using LEGO mini-figures created by Culture Days participants.

The City, Minoru Seniors Society with support from six community centre Community Associations and Societies, and Richmond Public Library collaborated with RCRG to expand existing virtual programming available for seniors 55+ years to include phone-in programming options. Supported by a \$10,000 COVID-19 Response Grant from the United Way's Safe Seniors, Strong Communities (SSSC) initiative, over 30 phone-in programs were delivered to 150 participants who may not have been able to participate in online virtual programs.

Eight commemorative signs were installed at picturesque locations throughout the community to serve as backdrops for fun and safe grad photo opportunities.

A number of events, programs and services were transitioned online in response to the COVID-19 pandemic. For example:

- Youth Week: Virtual activities ranged from virtual U-ROC (Richmond Outstanding Community) Youth Awards, online dance parties, photo and video challenges, youth podcasts, and a Careers in Media Arts workshop featuring professionals in animation, music and graphic design. The @CityofRichmondYouth Instagram account encouraged youth to socialize, learn new things and connect with peers while remaining physically distant.
- Doors Open Richmond: Each June, the Doors Open Richmond event gives individuals the opportunity to explore the community through a variety of tours and activities at unique cultural and civic sites. While normally offered in person, during 2020 and 2021, the event was hosted online due to the COVID-19 pandemic. The virtual version of the event was a great success with hundreds of experiences and over 100 minutes of video content shared through social media platforms using #DoorsOpenRichmond. In 2021, public

participation reached over 160,000 views of social media posts and over 13,000 video views making it one of the most engaging events in Doors Open Richmond history.

- Additional virtual events included the Grand Plié event, Ramadan celebrations, and Easter celebrations. Community programs also transitioned online, such as exhibitions, arts classes and workshops, and library programs and services.

New initiatives were launched to continue to provide community services during the temporary closure of facilities and amenities:

- A Self-Guided Historical Walking Tour map series was developed as a means to engage the community in learning about Richmond's history while being physically active outdoors during the COVID-19 pandemic. The Richmond Museum Society received the 2020 Richmond Heritage Award for the tours in the Terra Nova and Brighthouse neighbourhoods. A map featuring Sea Island's aviation history was introduced in 2021.
- The Art Truck program, Richmond Art Gallery, and Richmond Museum worked with Richmond School District No. 38 provide a variety of new programming options to teach students arts, culture and heritage lessons.
- An online eServices library card was created for community members who did not already have a library card but wished to utilize the library's digital resources, which were also expanded.
- For the first time, two outdoor concerts were held on the lawn in front of Gateway Theatre in 2021 as part of the *Songs of Summer* series, featuring performers Amanda Sum, Tiana Jung and Jason Sakaki.
- Various arts, culture and heritage programs, exhibits and classes moved online, such as Art at Work, theatre academy programs, music classes and virtual art gallery displays.
- Free online mental health Zoom meet-ups were hosted by writer-performer and mental health advocate JD Derbyshire. The program provided participants an opportunity to take a break from their day-to-day to hang out and participate at their own comfort level.

Throughout the term, partner organizations received grants and funding from a variety of sources to support operations and the provision of programs and services. Some examples include the Province of BC, British Columbia Arts Council, Canada Council for the Arts, and Department of Canadian Heritage.

4. An Active and Thriving Richmond



An active and thriving community characterized by diverse social and wellness programs, services and spaces that foster health and well-being for all.

Richmond provides opportunities and access to programs and services that support overall health and well-being. This includes support for active living, sport and recreation participation, access to parks spaces and to social services and support networks for individuals and families. Council is committed to planning for community facilities and infrastructure that represents best practices and meet the needs of citizens today and into the future. Equitable access to programs and services is a high priority and Council seeks to work with partners and other agencies to reduce barriers and increase access for those in need.

Priorities include:

- 4.1 Robust, affordable, and accessible sport, recreation, wellness and social programs for people of all ages and abilities.
- 4.2 Ensure infrastructure meets changing community needs, current trends and best practices.
- 4.3 Encourage wellness and connection to nature through a network of open space.

4. An Active and Thriving Richmond

4.1 Robust, affordable, and accessible sport, recreation, wellness and social programs for people of all ages and abilities.

The Recreation Fee Subsidy Program (RFSP) with expanded program eligibility continued to provide residents of all ages who are facing financial hardship opportunities to participate in various parks, recreation and cultural programs offered by the City and Community Associations and Societies. Since its implementation in the fall of 2018, program participation continued to increase and despite the impacts of the COVID-19 pandemic, the 2020-21 program year saw more than 1,200 RFSP clients participate in 1,100 registered programs and use their Active Passes more than 25,700 times for drop-in activities such as swimming, fitness and skating.

Richmond celebrated World Leisure Day for the first time in April 2022 with more than 30 free and low-cost structured and unstructured activities across the city for all ages and interests. For example, Richmond residents danced, jumped and sang at World Leisure Day Storytime hosted by the Richmond Public Library; learned how to attract pollinators to their gardens at Terra Nova Rural Park; and joined in family play using free equipment available year-round in Live 5-2-1-0 Playboxes located in six City parks. This global initiative of the World Leisure Organization (WLO) promotes the importance of participation in leisure for health, well-being and community development. Benefits of participation in leisure activities include stress reduction, mood improvement, and ways to connect with family and friends. In 2017, Richmond became a designated World Leisure Community of Excellence, in recognition of its rich arts and cultural communities, outdoor green spaces, unique heritage and waterfront roots, and breadth of recreation and sport opportunities.

In February 2021, library late fines were permanently removed to ensure services and resources remain accessible for everyone in the community, regardless of circumstance. Library fines created a barrier for many and represented only 1% of the library's operating budget.

In 2021, a multitude of parks, recreation and cultural opportunities were offered across City facilities which saw over 1.3 million visits throughout the year.

Seniors Week was celebrated across the community in a variety of ways throughout the term:

- In 2019, Seniors Week kicked off with the 55+ Activate! Fair hosted at the Seniors Centre at Minoru Centre for Active Living. Featuring 40 booths, 21 workshops, presentations and "Try-It" activities focusing on transportation, mobility, health and safety, the event drew in 1,000 participants. An additional 500 participants also attended the 20 events held across the City throughout the week.
- In 2020, events were held virtually, including a greeting from Mayor Malcolm Brodie, an over 90's fancy hat challenge, a Keeping Your Brain Active with Music workshop, virtual tea, and technology one-on-one services.
- In June 2021, seven days of free outdoor, virtual and phone-in activities were offered to celebrate and recognize the contributions seniors bring to the community. More than 285 seniors participated in over 20 programs themed *Reconnect, Restore and Reactivate*.



Intergenerational Wood Carving Program at Minoru Centre for Active Living

Thirty-two Olympic and Paralympic athletes who trained at the Oval competed in the 2020 Tokyo Summer Olympic Games.

The annual Child Care Symposium for early childhood educators, child care providers, and parents continued to be offered virtually to celebrate Child Care Month in May. The annual symposium offers low-cost and accessible professional development opportunities for participants, including presentations on various topics relating to children's development.

4. An Active and Thriving Richmond

The Forever Young 8K event returned in-person in 2021 for runners and walkers aged 55 and over. Nearly 200 seniors took part in the 7th annual race, with the eldest finisher, Delia Visscher, aged 90 years old.

In April, 2021, Council adopted the Outdoor Sport Facilities and Amenities Policy and an accompanying administrative procedure. The policy includes clear expectations for users to make sure outdoor sports facilities and amenities are managed with the goal of maintaining a fair and sustainable allocation of facilities and ensuring that the City's existing sport fields and amenities are used effectively and efficiently.

Richmond's delivery of virtual fitness classes prioritized quality, safety and excellence despite remote participation by instructors and participants. Interactive live-streamed sessions enhanced participant safety as fitness instructors could see all participants on-screen and provide specific feedback to participants on form or posture, respond to questions about the exercises, and offer alternate movements to tailor the experience for varying skill levels or health situations. In June 2021, the City was invited by the BC Recreation and Parks Association to present to colleagues across the province on the best practices developed in delivering safe and engaging virtual fitness programming.



Fitness Program Taught Virtually

To minimize social isolation, various letter and card-writing programs were implemented, such as:

- A digital Pen Pal Project to create intergenerational community connections between youth from the Richmond Public Library and seniors from the Seniors Centre at Minoru Centre for Active Living. Over 200 letters were exchanged through this program between June 2021 and February 2022.
- The Supporting Seniors During the Holidays program that encouraged the community, including preschool participants, youth council, senior volunteers, schools, community groups and individuals, to create handmade cards. Over 250 cards were submitted and delivered to seniors living in Richmond in 2021.
- The delivery of handmade cards from the Interact Club at Hugh Boyd Secondary School to the Seniors Centre at Minoru Centre for Active Living to include in the Meals to Go in the week leading up to Valentines Day in 2021.

Since the Inspire Curiosity Library Card campaign began in 2018, 1,730 cards have been issued to Richmond students.

In 2021, the Walk Richmond program engaged 815 participants through 41 guided walking opportunities led by 153 volunteer walk leaders, with participation on the rise. In the first four months of 2022 alone, over 400 walkers have joined 92 volunteers on 17 walks.

Richmond actively promoted ParticipACTION's Community Better Challenge, a nation-wide initiative throughout June. To encourage Richmond residents to participate in the challenge, the City coordinated over 100 free online and in-person workshops, events, and activations city-wide, including:

- A Virtual Family Fitness Challenge featuring playful and inclusive workouts led by a certified fitness instructor with a background in Early Childhood Education to raise awareness about the importance of being active as a family.
- Outdoor 'Get Active' Stations featuring posters with physical activity prompts throughout Steveston Park. The posters provided photos demonstrating specific body weight exercises, providing the public with immediate strategies on how to take a spontaneous activity break as they walk through the area.

Participants living in Richmond logged over 9,000,000 minutes of physical activity through the month of June 2021.

The Neighbourhood Free Play program is a free, outdoor, recreation outreach initiative to connect with residents in smaller neighbourhood parks and spaces across the City. In 2019, the program hosted over 130 sessions at 10 sites with an estimated reach of approximately 800 participants. In 2021, the program was offered on a smaller scale due to COVID-19 restrictions. Outdoor play opportunities were enjoyed by approximately 150 participants across 7 sites.

In 2021, the Richmond Olympic Oval offered 50 different summer sports camps; the most camps offered in the Oval's history with a record 2,351 registrants.

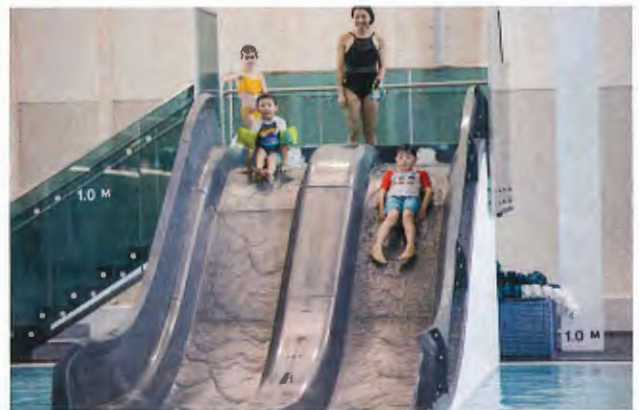
The Richmond Olympic Oval launched a new enhanced fitness program in June 2019, called OVALfit ATHLETIC. This contributed to record group fitness class attendance prior to the COVID-19 pandemic. In 2020, OVALfit at Home was launched to provide on-going programs and services during the COVID-19 pandemic, and by 2021 the program had a library of over 110 professional quality workouts with enhanced video and audio quality. Additionally, a virtual membership was created for individuals that were not ready to return to fitness activities in an indoor setting.

The Richmond Olympic Oval continued to be a training and event hub for adaptive sports. For example in 2021, the Oval was used regularly by groups including Wheelchair Rugby Canada, Wheelchair Basketball Canada, BC Wheelchair Basketball Society and BC Wheelchair Sports Association. School groups were also provided the opportunity to try wheelchair sports with the support of athletes and coaches from the provincial organizations.

To provide support for people experiencing homelessness, a variety of activities were offered at The Salvation Army Richmond House Emergency Shelter throughout 2021, including movie nights and computer classes. This innovative, customized programming was made possible by a Provincial Technology Grant and which funded the purchasing of dedicated technology for use by residents.

The 2021 Summer Reading Club welcomed 3,892 children and teens, and 247 adult participants.

4.2 Ensure infrastructure meets changing community needs, current trends and best practices.



Aquatic Centre at Minoru Centre for Active Living

Minoru Centre for Active Living, a state-of-the-art facility conveniently located in Richmond's city centre, opened to the public offering recreation and wellness opportunities for all ages. The spacious and accessible facility includes a Seniors Centre, Aquatic Centre, Fitness Centre, and Event Centre. Throughout 2021 as COVID-19 restrictions were eased and lifted, the centre became a hub for wellness and physical activity in Richmond. For example:

- Over 400,000 participants attended the centre for swimming or fitness;
- Over 18,000 participants engaged in registered programs; and
- Over 1,100 facility pass memberships for the Seniors Centre were active by the end of the year.

The City acquired Richmond Ice Centre in 2019 and the Richmond Curling Club facility in 2021. Replacement of the ammonia ice plant at the Curling Club, which will improve energy efficiency and public safety, was completed in February 2022. The facility is scheduled to reopen for the 2022/23 curling season. The City will continue to work with the Richmond Winter Club to deliver curling programs and services to the public. This new relationship will ensure the long-term sustainability of the sport in Richmond.

4. An Active and Thriving Richmond

Two of the first Early Childhood Development (ECD) Hubs, secured through community amenity contributions, were transferred to the City in 2021. These ECD Hubs are the City's 11th and 12th City-owned, purpose built child care facilities and will provide Richmond families with support services, community programming, and access to 199 new licensed child care spaces. The facilities are:

- Sprouts, located in Capstan Village, leased to the YMCA of Greater Vancouver.
- Seedlings, located in Brighthouse Village, leased to Aspire Richmond, formerly known as the Richmond Society for Community Living.

In addition, the Hummingbird Child Care Facility located in the Oval Village is under construction and is anticipated to be complete and transferred to the City in the fall of 2022. The facility will be leased to the YMCA of Greater Vancouver and will provide 37 spaces of licensed child care for infants, toddlers and preschool aged children.

In 2019, the City launched a new Parks, Recreation and Culture registration system for program registration, drop-in admissions, facility bookings, memberships and point of sale transactions.

The new Railway Bike Park opened in June 2021, providing opportunities for beginner and intermediate riders to develop their skills on varied terrain, complementing the more advanced Garden City Bike Terrain Park. The bike park features terrain and obstacles built for all ages and rider abilities, such as a pump track, ramps, teeter-totters and other features that teach and enhance essential skills. Connected to existing trail networks and located near the Thompson Community Centre, the Railway Bike Park provides a new outdoor physical activity space for all ages.

The 2016–2026 Major Facilities Priority Projects continued to progress through the design and development process. For example:

- Bowling Green Community Activity Centre: A new, 4,900 sq. ft. multi-purpose facility is envisioned to replace the Lawn Bowling Clubhouse that will support a wide range of programs and activities including community meetings, special events and sport hosting. The detailed design phase was completed in 2021.
- Steveston Community Centre and Branch Library Replacement: Following approval of the site and concept design, the project moved forward to the detailed design

phase. Construction of the 60,350 square foot facility is anticipated to be complete in 2026. This facility will meet the health and wellness needs of the community for generations to come.



Railway Bike Park

- Capstan Community Centre: Following approval of the program for the two-story, 33,000 square foot community centre, the project is in the detailed design phase. Planned for the second phase of the YuanHeng Development as a developer amenity contribution, the facility will include a large gymnasium, an indoor activity track, studios and spaces for arts and creative pursuits, and a children's exploratorium, enhancing community health and well-being and opportunities to develop social connections.

A number of sports facilities and amenities were improved, for example:

- The Hugh Boyd Park Artificial Turf was replaced with an all new surfacing system, including a shock absorbency base layer to improve long term performance, play experience and durability.
- In Minoru, the Clement Track was resurfaced, a fence was added around the perimeter and the Oval Artificial Turf was replaced.
- Tennis Courts were repaired and resurfaced at Minoru Park and King George Park. In addition, the Hugh Boyd tennis courts were upgraded with sports surfacing and fencing with three of the tennis courts converted into six new dedicated Pickleball Courts.

- The McNair and London-Steveston sand fields were upgraded to address deteriorating natural lawn surfacing.
- Construction of the Richmond Olympic Oval's climbing wall was completed. The climbing wall is suitable for climbers both new and seasoned, and features the three disciplines of climbing: lead, speed and bouldering, making it suitable for international competition. In 2020, the Richmond Olympic Oval partnered with Climbing Escalade Canada (CEC) to become the National Training Centre for Canadian sport climbers.

The City received \$1 million from the provincial government's Community Economic Recovery Infrastructure Program (CERIP) – Destination Development Stream for the Sport and Event Plaza at the Richmond Olympic Oval project.

4.3 Encourage wellness and connection to nature through a network of open spaces.

Construction on Phase 2 of the Aberdeen Neighbourhood Park is underway with completion anticipated in summer 2022. The second phase of the park features the Chinese Exchange Garden, an all ages playground, a stage canopy, and public washrooms.

Construction was completed on the new Alexandra Neighbourhood Park, which has an ecological focus while accommodating the expansion of the geothermal Alexandra District Energy Utility; retaining existing trees; improving accessibility; and introducing a variety of recreational features and spaces. The project was supported by \$1 million in funding from the Community Economic Recovery Infrastructure Program (CERIP) – Community Economic Resilience Stream grant from the provincial government. Along the adjacent Alexandra Greenway, the public art project *From Water to Earth* by Bagua Artists Association brings together local ecology and natural heritage to raise awareness and celebrate a sustainable and connected Richmond.



From Water to Earth by Bagua Artists Association

The Minoru Lakes Renewal project began construction to improve their function, environmental benefits and reduce maintenance requirements. Part of the Minoru Park Vision Plan, the Minoru Park Lakes District serves as a place for individuals to connect with nature, be close to the water's edge, and seek respite from the surrounding city centre.


In 2019, the London-Steveston Neighbourhood Park site was regraded to include a hill and storm water detention basins, a 640 m walking loop was added, and 285 trees were planted. In 2020, park enhancements continued with a new playground, half-court basketball court, and picnic shelter. The park is being enhanced in phases in order to meet the needs of the growing and densifying local community.

Phase 1 of Capstan Neighbourhood Park was completed in 2019. The park includes a children's playground, water features, seating, an urban plaza, extensive tree and shrub plantings, and open lawn areas. The 2.1 acre park will be fully realized when the future Capstan Canada Line station along No. 3 Road is completed, and will become the central open space of this new neighbourhood in the Capstan Village area of city centre.



Capstan Neighbourhood Park

The Gardens Agricultural Park opened in early 2019. The ponds, walkways, and garden-like landscape are reminiscent of the original "Fantasy Gardens," with the addition of native plant species to provide more pollinator and bird habitat.



4. Encouraging an Active and Thriving Richmond During the COVID-19 Pandemic

In response to the COVID-19 pandemic, a number of new programs, services and initiatives were launched in a variety of formats to help the Richmond community remain active, connected and thriving:

- The Richmond Connects online hub (www.richmond.ca/connect) was created to help community members stay connected and active during the temporary facility and amenity closures. Virtual activities included wellness, fitness, arts, and stay-at-home challenges for citizen of every age.
- The Meals to Go program at the Seniors Centre at Minoru Centre for Active Living provided healthy and affordable meal options. Through a partnership between Minoru Seniors Society and Steveston Rotary Club, 20 isolated seniors who had limited access to fresh, healthy food benefited from a bi-weekly lunch delivery program. Additionally, a Christmas meal program provided 203 holiday meals to vulnerable seniors.
- Support services were launched to reach vulnerable seniors, including a Seniors Resource Guide; online information and resources; virtual engagement opportunities; wellness and support calls; and one-on-one technology support. For example, throughout 2021, 3,500 birthday and wellness phone calls to seniors were made, with 500 wellness check calls specifically reaching isolated seniors.
- To prevent social isolation, homebound library customers continued to be supported with the Home Services Delivery program. From March to December 2020, over 2,100 items were circulated to 64 customers, and in 2021 over 3,200 items were circulated to over 50 customers.
- While the Richmond Public Library was closed to the public from May to August 2020, a Curbside Holds Pickup service was introduced for customers to safely pick up their holds. Over 35,000 requests were fulfilled during that time.
- A three-part Pandemic Parenting series was developed for parents and caregivers to learn ways to help their children and teens respond to depression, anxiety

and other mental health issues during the pandemic and other times of crisis. Almost 150 people attended these programs, which were made possible by a Democracy Spark Grant.

Following the temporary closure of City facilities and amenities in response to the COVID-19 pandemic, the restoration of services across the City was implemented in a carefully phased approach with strict adherence to health and safety guidelines. Protocols and safety guidelines were developed and updated throughout the pandemic for each area in alignment with WorkSafeBC, the British Columbia Parks and Recreation Association (BCRPA), ViaSport and other relevant authorities.

With the rollout of Step 3 of BC's Restart Plan, sporting events and tournaments resumed in 2021 with robust safety plans in place, providing athletes and spectators the opportunity to compete and enjoy the benefits of sports.

- At the Richmond Olympic Oval, major tournaments included the North American Cup climbing competition, Wheelchair Rugby National Training Camps, City Shred, Western Canadian Powerlifting Championships, Wheelchair Basketball Canada U23 Training Camp, the North American Cup Climbing Series, Taekwondo Provincials, Karate BC Provincials, Pinnacle Cheer Pink, and BC Senior Boys Highschool Volleyball Provincials.
- Watermania hosted 18 events since the restart, including the BC School Sports Aquatics Provincials, Lower Mainland Regional FAST Swim Classic, Waterpolo National Championship League Games, and other regional meets for swim clubs associated with Swim BC and swim clubs associated with BC School Sports.
- Richmond Arenas hosted 15 events since October 2021, beginning with the Richmond Jets U11 & U13 Ice Breaker. Other tournaments to note include the U18 Female Hockey Provincials hosted by BC Hockey and the Richmond Ravens, and the new opportunity to use the dry floor at Minoru Arenas as a venue for the 17U & 18U Volleyball Provincial Championships.

5. Sound Financial Management



Accountable, transparent, and responsible financial management that supports the needs of the community into the future.

Council is committed to the effective management of tax-payers' dollars and ongoing diligence and transparency in decision-making. Rigorous planning and processes will continue to be applied to balance current needs with those of the future. Council intends to take a proactive approach to advocating for Richmond's interests by applying for grants, working with other levels of government, and optimizing strategic opportunities as they arise.

Priorities include:

- 5.1 Maintain a strong and robust financial position.
- 5.2 Clear accountability through transparent budgeting practices and effective public communication.
- 5.3 Decision-making focuses on sustainability and considers circular economic principles.
- 5.4 Work cooperatively and respectfully with all levels of government and stakeholders while advocating for the best interests of Richmond.

5. Sound Financial Management

5.1 Maintain a strong and robust financial position.

The City maintained a solid financial position with cash and investment balances of \$1.3 billion and an accumulated surplus that reached \$3.5 billion in 2021. The City's investment portfolio is diversified in a safe manner while earning a reasonable return.

From 2019–2021, over 80 transactions involving real estate acquisitions and leasing were completed involving over \$65 million of land and buildings, as well as over 1.4 million square feet of commercial and industrial space. These acquisition and dispositions support the City's strategic planning and positioning for the future in regards to land and real estate.

Development Cost Charges (DCC) are collected on new developments to ensure required infrastructure is funded to support population growth. From 2019–May, 2022, the City collected \$110.6 million in DCC. A Major Development Cost Charges Update is also underway to ensure that infrastructure is constructed on a timely basis and the costs that are attributable to growth are paid by development in a fair and equitable manner.

Utility Rates were reviewed and updated in 2021 to allow for full cost recovery. This supports the City's strong financial position and ensures that tax payers pay lower utility rates compared to other municipalities in the Lower Mainland.

Council endorsed a \$96 million Loan Authorization Bylaw to fund the Steveston Community Centre and Branch Library construction project. The use of external funding allows the City to maintain a healthy level of reserve balances without any additional tax impact to taxpayers.



Steveston Community Centre and Branch Library

In 2021, Richmond provided the fifth lowest average residential property taxes in Metro Vancouver and a business to residential tax ratio of 2.46.

5.2 Clear accountability through transparent budgeting practices and effective public communication.

The public was invited to provide feedback on the Consolidated 5 Year Financial Plan (2022–2026) Bylaw No. 10327 which outlines how spending will align with the needs of the community and plan to maintain civic service levels for the coming five years.

The City was awarded an "A" in a report card compiled by the C.D. Howe Institute for the financial presentation of the budget and financial statements. The report grades the most recent budgets and financial statements of major Canadian municipalities on financial reporting standards based on transparency, usefulness and timeliness.

To improve public awareness and understanding of the City's budgeting practices, the City produced Financial Statement Discussion and Analysis (FSD&A) reports to be read in conjunction with Consolidated Financial Statements. The FSD&A reports explain key financial information to non-financial readers and explains the significant differences in the financial statements between the reported year and the previous year, as well as between budgeted and actual results.

The City launched a new online eProcurement platform to advertise bid opportunities and establish a user-friendly online portal for the receipt of submissions from suppliers. When fully implemented, the platform is expected to provide improvements to the City's procurement workflow, enable more effective contract administration and provide data analytics on procurement activities.

In cooperation with the Financial Transactions and Reports Analysis Centre of Canada, the maximum cash amount accepted at City Hall was limited to less than \$10,000 per transaction starting in 2019. This aligned with the federal government's large cash transaction standards as a method to address money laundering. In 2020, cash transactions were suspended in response to the COVID-19 pandemic.

5.3 Decision-making focuses on sustainability and considers circular economic principles.

Council endorsed changes to the City's Procurement Policy to integrate circular economic practices into the procurement process. This supports best practices as part of a wider organizational commitment that intends to advance circular economy principles while maximizing value for money through procurement activities.

The City continued the pilot High Recycled Asphalt Pavement Project to increase the recycled asphalt used for paving from the current 10% to 40%. Launched in partnership with

Lafarge Canada and the National Zero Waste Council, the program includes a controlled and well-documented process for sourcing materials, stock piling and keeping inventory. Over 20 pathways throughout the City were paved with this product. The pilot project results will help inform staff on the continuation of the project and the implementation of high reclaimed asphalt pavement in future road paving projects and other asphalt applications around the City.



Recycled Asphalt Paving on No. 5 Road

The City used excess material from excavation sites as bulk fill for dike upgrade projects. This excavated material is ideal for building up the diking infrastructure while also limiting the amount of fill material that needs to be mined or otherwise transported from longer distances. Road and pathway upgrades adjacent to the dike are completed by reusing material from stripped asphalt and road base. This has provided both cost savings and significantly limited the amount of waste generated.

The City identified opportunities to use low impact trenchless pipe installation techniques for the Steveston Sanitary Sewer Replacement project. This technology can reduce carbon emissions for each project compared to the open cut alternative. Besides reducing emissions, the trenchless method minimizes disruption on the surface resulting in fewer road closures, less noise, and reduced impact to existing structures and vegetation.

5.4 Work cooperatively and respectfully with all levels of government and stakeholders while advocating for the best interests of Richmond.

The City and Metro Vancouver strongly endorsed a new eight lane immersed tube tunnel (ITT) for the George Massey Crossing, with multi-use pathways and two transit lanes as the preferred option. The provincial announcement of the new ITT took place at Richmond's City Hall with Mayor Malcolm Brodie and a number of stakeholders present, including Musqueam First Nation's Chief Wayne Sparrow, Tsawwassen First Nation's Chief Ken Baird, and the City of Delta's Mayor George Harvie. The provincial government also announced Hwy 99 corridor improvements, including the Bridgeport Road bus only southbound on-ramp and the Steveston Interchange Project.



Councillor Andy Hobbs, Councillor Carol Day, Mayor Malcolm Brodie, the Honourable Rob Fleming, Minister of Transportation and Infrastructure, Councillor Bill McNulty, City of Delta Mayor George Harvie, and MLA Kelly Greene

Represented by Mayor Malcolm Brodie, the City was appointed to serve on the Local Government Policing Modernization Roundtable, which serves as an advisory body on provincially-identified policing priorities for the identified focus areas:

- Efficiency and effectiveness;
- Public trust;
- Roles and responsibilities; and,
- Systemic racism and reconciliation.

The City was awarded approximately \$15.7 million in funding from various levels of senior government grant programs throughout the term to support flood protection improvements. This includes:

- \$13.8 million in senior government grant funding through Infrastructure Canada's Disaster Mitigation and Adaptation Fund.
- \$1 million from the National Disaster Mitigation Program.
- \$750,000 from the UBCM Community Emergency Preparedness Fund (CEPF) for Structural Flood Mitigation.
- \$150,000 from the UBCM CEPF for Flood Risk Assessment, Flood Mapping and Flood Mitigation Planning.

Richmond has established one of the most advanced flood protection programs in the region and continues to provide valuable input while advocating for the best interests of Richmond.

Richmond was the recipient of almost \$20.3 million in 2019–2022 in external agency cost-share funding, which offsets City funding, including:

- TransLink: \$19 million for projects to improve bus speed and reliability and active transportation projects, with the most awarded across all municipalities in 2020.

5. Sound Financial Management

- ICBC: \$695,000 for projects to improve road safety.
- Transport Canada: \$547,200 towards a new road-rail warning system at Williams Road and Shell Road.

Richmond City Council has been a strong advocate for a new Acute Care Tower at Richmond Hospital. In July 2021, the provincial government announced that it will move ahead with an approved business plan for the expansion. The four-phase project will add 113 new beds to the hospital, bringing the total to 353, and will include a new nine-floor patient care tower, an intensive care unit, a fully equipped medical imaging department, a pharmacy, short-stay pediatrics, new inpatient psychiatry and psychiatric emergency units, maternity ward and neonatal intensive care unit, a new cancer care clinic, outpatient clinics, and the UBC school of medicine. Construction will begin in 2022 and is anticipated to be completed by 2029 with a cost of approximately \$860.8 million shared by the provincial government and the Richmond Hospital Foundation.

The City continued to work with Port Metro Vancouver and Gateway Transportation Collaboration Forum on projects to enhance goods movement in Richmond and the region, including:

- The Portside Road–Blundell Road overpass and upgrade project, which received \$39.4 million in grant funding from the federal government;
- The development of a short sea shipping concept, which received \$1.6 million in grant funding from the federal government; and
- A supply chain visibility program, which received \$6.0 million in grant funding from the federal government.

The City actively advocated for Richmond's interests on issues regarding the environment. Some examples include:

- The Vancouver Airport Fuel Delivery and Wespac Jetty Projects;
- Metro Vancouver's Air Quality Regulatory Program, Inter-Ministry Invasive Species Working Group, and Soils and Invasive Species Working Group; and
- YVR's Aeronautical Noise Management Committee and YVR Environment Committee.

The City continued to work with various external agencies on topics relating to growth, development, and planning. Some examples include:

- Ministry of Transportation and Infrastructure;
- Metro Vancouver's Regional Planning Advisory Committee, and participation in the update to the Metro Vancouver Regional Growth Strategy;
- Port Metro Vancouver;

- Urban Development Institute;
- Richmond Centre for Disability; and
- Richmond Small Builders.

The City called on the provincial government to take responsibility for licensing and regulating Money Services Businesses (MSBs) to address illegal money laundering.

Richmond works closely with various organizations, stakeholders and committees on social issues that impact the community. Some examples include:

- Ministry of Social Development and Poverty Reduction;
- BC Housing;
- Vancouver Coastal Health;
- Richmond School District No. 38; and
- Local health, social and safety non-profit organizations.

Sister City Initiatives strengthened Richmond's relationship with other cities around the world. For example:

- In November 2021, Mayor Malcolm Brodie and Mayor Masahiro Obana of Wakayama, Japan met virtually to sign a new Memorandum of Understanding, which commits to actively promote educational, cultural, artistic, tourism and economic exchange between both cities over the next five years. Richmond and Wakayama have been Sister City partners since 1973.
- In 2022, Richmond and Pierrefonds, Quebec celebrated 55 years as Sister City partners. The relationship first began on July 29, 1967, when the two cities pledged to promote cultural, tourist, social and economic exchanges between their residents.

During this term, the following UBCM resolutions were carried:

- B42 regarding Comprehensive Provincial Single-Use Item Reduction Strategy;
- B74 regarding Lobbyist Registration;
- B83 regarding Conflict of Interest Complaint Mechanism;
- B129 regarding Transparency and Legislative Reform of Beneficial Ownership of Land and Corporations; and
- B149 regarding Compostable Single-Use Items and C2 Provincial Climate Action Funding After CARIP.



5. Continuing Sound Financial Management During the COVID-19 Pandemic

At the onset of the COVID-19 pandemic, the City established a Financial Resiliency Plan to reduce, eliminate, and defer expenses, as well as reduce the tax burden on residents and businesses. Examples of the decisions made to mitigate impacts include:

- Increased the City's line of credit to provide an additional option for cash flow in case it is needed.
- Halted discretionary spending.
- Implemented a system to track all pandemic-related costs in order to be able to clearly identify and claim back funds wherever possible.
- Digitized services and functions such as invoice approvals and the purchasing and procurement process.
- Deferred large remittances to other agencies.
- Continued the capital program where advantageous in order to leverage pricing incentives.
- Continued to support the City's grants program through responsible and prudent financial

management despite the significant reduction in gaming revenue.

- Savings and efficiencies realized from flexible and remote work arrangements while continuing with service delivery.

In addition, a number of measures were put in place to support the community while remaining in alignment with the City's sound financial practices:

- Reduced the 2020 property tax increase by 2.01%.
- Delayed the property tax penalty date to September 30, 2020 for all classes.
- Withheld the enforcement and collection of unpaid business licenses.
- Established a rent relief program for City-owned facilities with minimal tenant loss and interruption to the City's rental revenue.
- Deferred flat-rate and quarterly metered utility bill deadlines.

6. Strategic and Well-Planned Growth



Leadership in effective and sustainable growth that supports Richmond's physical and social needs.

As Richmond continues to grow, a significant priority for Council is to ensure that growth-related decisions are made holistically and sustainably with the needs and best interests of the community in mind. Planning for growth and development will take into account "green" and environmental practices, maximizing opportunities to connect nature to the urban environment. The continued development of mobility networks and active transportation options is a priority. The preservation and celebration of the city's history and heritage remains an essential part of Richmond's evolution. Ensuring the people that live and work in Richmond have access to affordable and diverse housing options is also at the forefront of Council's attention and opportunities that involve collaboration and partnership to best meet the community's needs will be explored.

Priorities include:

- 6.1 Ensure an effective OCP and ensure development aligns with it.
- 6.2 "Green" and circular economic growth and practices are emphasized.
- 6.3 Build on transportation and active mobility networks.
- 6.4 Recognize Richmond's history and heritage through preservation, protection and interpretation.
- 6.5 Ensure diverse housing options are available and accessible across the housing continuum.
- 6.6 Growth includes supports and/or services for Richmond's vulnerable populations, including youth, seniors, individuals with health concerns, and residents experiencing homelessness.

6. Strategic and Well-Planned Growth

6.1 Ensure an effective OCP (Official Community Plan) and ensure development aligns with it.

Through the City's Servicing Agreement process, approximately \$74 million of improvements to City infrastructure and off-site works were secured through new development from 2019– May, 2022. All new development is reviewed to ensure required City infrastructure improvements are constructed to meet current standards. For example, during that period, approximately 8.6 km of watermain, 2.7 km of sanitary sewer main and 5.9 km of storm sewer main were constructed or upgraded through new developments.

Council endorsed the Master Land Use Plan for Lansdowne Centre, which will introduce 10 acres of City-owned park, more than 2 acres of additional secured public open space and greenlinks, improved cycling infrastructure, on-site mobility hubs, engineering servicing improvements and new infrastructure, new roads, an on-site low carbon district energy system, and an obligation to construct more than 53,000 sq. ft. of City-owned community amenity space, or provide an equivalent cash contribution. Redevelopment will require incremental rezoning and development permit applications and would be subject to Council approval and required to comply with all City amenity contributions and infrastructure requirements that are in place at the time of future redevelopment.

17 Artist Residency Tenancy Units and 4 artist studios were completed and rented out to low-income professional artists in the Capstan Village in alignment with the OCP's City Centre Area Plan.

Building in Richmond reached a construction value of \$719 million in 2021. By administering the Building Regulation Bylaw and working closely with industry, the City ensures that the resulting spaces are safe and meet all applicable codes, standards, regulations, and planning objectives.

Construction of the Hamilton Sanitary Pump Station and installation of new sanitary force main in the area neared completion. This project will support population densities projected by the Hamilton Area Plan.

The OCP Bylaw Preparation Consultation Policy No. 5043 was amended to revise Richmond Board of Education referral criteria to improve decision-making based on projected student enrolment. The City also consulted with the Richmond School District No. 38 for the development of a new policy for referring independent schools to the Richmond Board of Education.

Between 2019 and May 2022, 492 Development Applications were received, including 108 Rezoning, 92 Development Permits, 67 Subdivisions and 92 Servicing Agreements.

In March 2022, the City completed the process of establishing the underlying zoning for the remaining Land Use Contracts (LUCs), consistent with the Local Government Act. All LUCs will expire on June 30, 2024 and municipalities are required to establish underlying zoning for LUC properties by June 30, 2022. Council reviewed and approved underlying zoning bylaws for properties developed under 15 LUCs in the Blundell, Seafair, and Steveston areas, as well as in the north portion of City Centre.

6.2 "Green" and circular economic growth and practices are emphasized.

Lulu Island Energy Company (LIEC)'s Alexandra District Energy Utility (ADEU) and the Oval Village District Energy Utility (OVDEU) continued to expand and provide affordable, low carbon energy to new customers. The \$6.2 million grant received from the CleanBC Communities Fund helped expedite the design and construction of the OVDEU's permanent energy centre. Once completed, the OVDEU will be able to produce up to 80% of low-carbon energy from the Gilbert Trunk sanitary force main sewer.

LIEC obtained ownership of the first onsite low carbon energy plant in the City Centre District Energy Utility (CCDEU) service area. The onsite energy plant is designed to decrease GHG emissions by over 70% compared to conventional natural gas boiler-based systems. Negotiations for the development of the overall CCDEU service area continued to advance at an accelerated pace. Once fully developed, the CCDEU could reduce 45,000 tonnes of GHG emissions annually.



Alexandra District Energy Utility

6. Strategic and Well-Planned Growth

District energy systems expanded by the Lulu Island Energy Company:

- ADEU: One new residential development was connected to the ADEU, bringing the total to 14 developments and 2.4 million sq. ft. of connected floor area.
- OVDEU: One new development connected to the OVDEU, increasing the connected floor area by over 275,000 sq. ft., and bringing the total to 11 developments and 2.9 million sq. ft. of connected floor area.
- CCDEU: One new development was secured to contribute an on-site low carbon energy plant, bringing the total to 11 buildings with expected 5.1 million sq. ft. of serviced floor area at build out.

The City continues to administer the BC Energy Step Code which requires new construction to achieve enhanced levels of energy efficiency. In 2021, Council adopted a suite of incentives including associated zoning bylaw amendments that provide incentives to encourage the construction of new single-family and duplex dwellings that meet Passive House Certification and the top levels of the Step Code. The City is in continuous contact with applicants, the building industry, and residents to provide technical support, and administration of this program to promote high performance construction.

The House Moving and Salvage Program encourages the salvaging of reusable materials and reduction of demolition waste.

The City saw enthusiastic attendance at the 'Builder Breakfast' series for the local design and development community, updates are provided on the BC Energy Step Code and the latest Provincial and City policies and incentives. For example, in 2021, the City offered three free 90-minute virtual Builder Breakfast events, attended by over 500 builders, trades and designers. The events also feature keynote speakers who deliver technical information on building envelope performance and low-carbon mechanical systems.

Council endorsed the City's participation in the Circular Cities and Regions Initiative (CCRI) to identify focused solutions and specifications to advance towards Richmond's circular economy by building capacity, sharing knowledge and best practices, facilitating collaborative activities and learning how to overcome common barriers. Through this participation, a Richmond Circular Roadmap will be developed with the intent of accelerating the transition to a circular economy in

Richmond, including information, guidelines, implementation toolkits, and indicators.

A change order agreement was finalized with Recycle BC for increased incentives starting January 1, 2022 for light-weight material such as Styrofoam, flexible plastic packaging and plastic bags and overwrap that is collected at the City's Recycling Depot. It is estimated that this will result in an increase in material revenue of over \$100,000 for 2022.

The City and Richmond School District No. 38's flexible plastics recycling awareness campaign in 2019 resulted in over 61 kg of recycled material.

6.3 Build on transportation and active mobility networks.

Through extensive collaboration between the City and TransLink, the new Capstan Canada Line Station project moved forward into construction, which was initiated by ground-breaking ceremony with Council in September 2021. Approximately \$31.1 million of developer contributions was forwarded to TransLink for the project. The station is an important component in planning transit-oriented development for residents and businesses in the City Centre surrounding the Canada Line. Completion is anticipated for Fall 2023.

The new Beckwith Parking Lot opened in summer 2021 to alleviate parking strain near the SkyTrain line.

A new, 10-bay, off-street bus exchange opened in November 2020 south of the Richmond-Brighouse Canada Line Station. An important transfer point for bus customers connecting with Canada Line, the exchange provides a smoother transition from bus to rail, reduces the impact of transit vehicles on road users in the area, and allows for future bus service in Richmond. The \$8.5 million investment for the project was paid for through the Public Transit Infrastructure Fund (PTIF), with an additional \$2 million contribution by the City.

87.8% of 722 active bus stops have been upgraded to be accessible, which is above the regional average of 81.4%.



Brighouse Off-Street Bus Exchange

Several improvements were made to active transportation networks and road safety systems. Examples include:

- Opening of the new River Parkway, improving the movement of traffic through the north-end of the City Centre, including protected on-street bike lanes and asphalt walkways. The unveiling was supported by an informative and engaging video showcasing the benefits to traffic movement, as well as pedestrian cyclist safety.
- Installation of Multi-Use Pathway (MUP) in primarily industrial, commercial and mixed use areas increase, such as the Garden City Road MUP, Westminster Highway MUP, Charles Street MUP, and Alderbridge Way MUP. These projects provide a new, safer and more comfortable connection between the City's cycling, pedestrian networks and regional SkyTrain rapid-transit network, while also reducing travel times.
- Development of new bike routes, using local streets and off-street pathways, such as the Crosstown Neighbourhood Bike Route and Woodward-Saunders Neighbourhood Bike Route.
- Completion of a multi-year program to upgrade all City-owned traffic signals and special crosswalks to include accessible pedestrian signal (APS) features to improve safety for all pedestrians, particularly those who are living with disabilities.
- Completion of a Network Screening Study to identify the top 20 collision prone signalized intersections, and substantial completion of short-term improvements, including new pavement markings and signage, green paint in crosswalks for cyclists, and traffic signal modifications to enhance intersection safety. Long-term improvements include project scope confirmed and currently in detailed design for three locations.

- Launch of the Shell Road and Williams Road signalized intersection project to interconnect and upgrade the railway warning system.

During the term, Richmond's active transportation network was expanded by 13.8 km to a total of 88.3 km.

Council endorsed a major expansion of the public EV charging network, combining the City's annual Gas Tax Provision with \$440,000 in funding from Natural Resources Canada's Zero Emission Vehicle Infrastructure Program. Richmond has 46 existing public EV charging ports, with an additional 10 ports planned for future expansion. 24 charging ports meet wheelchair accessible standards, making Richmond the first municipality in Canada to incorporate accessibility into its EV charging network. EV charging capacity within the Oval's parkade was also doubled in 2021.

Richmond secured two new Mobility Hubs through the approval of the Richmond Centre Development.

Phase 2 of public and stakeholder engagement for the Cycling Network Plan Update was completed in November 2021 to seek input to validate findings from the route-level evaluation, and refine feedback from Phase 1 on the existing network and recommendations for future improvements. The final plan will include a prioritized implementation strategy and recommended policy updates.

In 2021, Council endorsed increasing sidewalk widths on arterial roads from 1.5 m wide to 2.0 m wide to improve walkability.

Council endorsed Richmond's participation in and adoption of amended bylaws to support the provincial government's Electric Kick Scooter Pilot Project. The e-scooter pilot project supports a new low-carbon mobility option for Richmond residents, employees and visitors. Richmond is one of eight municipalities in BC participating and will be only municipality in Metro Vancouver to have a shared e-scooter system.

6. Strategic and Well-Planned Growth

90 intersections in Richmond have uninterrupted power supply (UPS), which provides continuous power in the event of an outage.

6.4 Recognize Richmond's history and heritage through preservation, protection and interpretation.

A number of heritage planning initiatives were completed or reached key milestones during the term. These initiatives ensure sustainability of Richmond's heritage resources and promote public access through interpretative initiatives. For example:

- A new master plan for London Farm was approved by Council in February 2021. Created in partnership with the London Heritage Farm Society, this plan will guide future work in the park in the coming years. Site improvements, new heritage elements and signage will increase the ability of the site to share the stories of Richmond's farming history.
- The Steveston Heritage Interpretive Framework was endorsed in principle by Council in September 2021. Through consultation with key stakeholder groups in Steveston, the Framework identifies key themes and stories that shape the telling of Steveston's story and will guide future heritage initiatives across Steveston and at the City-owned heritage sites. Further engagement will take place in 2022 to inform the final Framework for Council endorsement.
- In 2021, the City's artefact collections team worked with the London Heritage Farm Society to review the over 5,000 artefacts that had been collected over the last 30 years. This collaborative effort will see many items transferred into the City's collection, and the City provided guidance on the future care and use for artefacts remaining with the society.



London Heritage Farm

Additional improvements to heritage sites were supported by funding from different levels of government. For example:

- A \$310,000 grant from the provincial government to the Britannia Shipyards National Historic Site Society

will support the conservation of the operational marine slipways at Britannia Shipyards. Restoration of the slipways will preserve the rich cultural heritage of the site and allow future demonstration programs to interpret key activities that took place in the shipyard. The conservation project is expected to be completed in 2023.

- The City received three grants totaling approximately \$270,000 from the federal Department of Canadian Heritage to support the operations of the Richmond Museum and Steveston heritage sites. In 2021, this funding was used to develop two new teacher education kits and complete a review of the London Farm artefact collection. Remaining funding will support the creation of a new website for the Richmond Museum, the refit of the Steveston Museum, and the implementation of interpretive projects identified in the Steveston Heritage Sites Interpretive Framework aimed at destination development in 2022.



Steveston Museum and Post Office

The City awarded the first Steveston Village Heritage Conservation Grant this term and processed five additional applications which were endorsed by Council from 2019–2021. The grant program is available to provide financial assistance to property owners for conserving the exterior of identified heritage buildings in the Steveston Village Heritage Conservation Area. Public information meetings were held with residents and business owners in Steveston to raise awareness of the grant opportunity available for the 17 identified heritage buildings.

The Phoenix Net Loft building at Britannia Shipyards National Historic Site was deconstructed and heritage materials that remained in good condition were salvaged and stored for future use.

The City issued 30 Heritage Alteration Permits in from 2019–2021, which serve to ensure preservation of heritage character in new development and signage in Steveston and other areas in Richmond.

In June 2021, Council adopted changes to the Richmond Heritage Commission to strengthen the review of proposed development projects city-wide and within the Steveston Village. The terms of reference was amended to include new members with heritage design experience to facilitate the review of development applications.

Work continued on the update to the Heritage Inventory; a list of resources that contribute to a community's heritage character. Richmond currently has 93 sites in the inventory, which is a useful planning document to identify and understand local heritage resources and help increase awareness about Richmond's history.

6.5 Ensure diverse housing options are available and accessible across the housing continuum.

In November 2021, Council approved an increase to the Low End Market Rental (LEMR) contribution rate from 10% to 15% for developments with more than 60 units located within the City Centre Area Plan. This increased from 10% of overall residential floor area to 15% of overall residential floor area. This change ensures that the City maximizes the number of affordable housing units built in new developments. Council also approved an update to the LEMR cash in lieu rates to reflect current construction costs.

The City continued to deliver the LEMR program, which has secured more than 900 units since 2007. From 2019–2021, the LEMR program secured an additional 328 units for Richmond residents. In addition, the City secured over \$3.9 million towards affordable housing in cash-in-lieu contributions through new development from 2019–2021, which will be used to support affordable housing developments in the future.

The City's market rental housing policy provides incentives such as density bonusing, parking reductions, and amenity fee reductions in exchange for market rental housing on a voluntary basis. In June 2022, Council adopted an update to the policy to introduce a mandatory 15% market rental construction requirement in apartment developments with more than 60 units and associated cash-in-lieu for apartment developments less than 60 units and for all townhouse developments. Since the policy was first implemented, approximately 740 purpose-built market rental units have been approved by Council through development applications.

In 2019, Richmond's first modular supportive housing opened its doors on Alderbridge Way and was quickly fully occupied. This building provides 40 units of much-needed affordable housing for Richmond residents who were experiencing homelessness, and is managed by RainCity Housing. In 2021, construction began on the Bridgeport Supportive Housing development which, in partnership with BC Housing, will provide 40 temporary supportive units for people experiencing homelessness in Richmond.

In 2021, the City issued 1,391 Building Permits with an overall construction value greater than the 10 year average.

In November 2021, Council endorsed a Housing Needs Report in keeping with new legislative requirements which will provide key insights into Richmond's housing needs and reflect on affordability trends common in the region as well as conditions unique to Richmond.

The City conducted consultation with the Urban Development Institute, local developers, residents and interested stakeholders regarding potential approaches to implementing residential rental tenure zoning, a means of preserving the stock of existing market rental housing in Richmond. The new rental tenure zoning power can also be used to increase the supply of rental housing in the City. In February 2022, Council adopted bylaws to apply rental tenure zoning to 60 existing rental properties which includes over 4,500 rental units to preserve rental housing.

In 2021, Council adopted a policy measure to restrict all future residential strata units from the ability to impose restrictions on age of occupants or rental restrictions. This would be implemented through a condition of rezoning.

6.6 Growth includes supports and/or services for Richmond's vulnerable populations, including youth, seniors, individuals with health concerns, and residents experiencing homelessness.

In September 2019, Council adopted the Richmond Homelessness Strategy 2019–2029 to guide community actions for homelessness service provision over 10 years. The recommended actions are informed by the principles of collaboration, partnership-building, and shared funding responsibility.

6. Strategic and Well-Planned Growth

Richmond's new emergency shelter located on Horseshoe Way opened its doors, offering 30 beds for men and women experiencing homelessness. The shelter was the result of a partnership between the City of Richmond, The Salvation Army, and BC Housing. The facility also meets an immediate need for drop-in shelter spaces for women, and was built to replace the former Salvation Army men's shelter on Shell Road, which offered 10 beds for men only.

In March 2022, Council approved the draft Seniors Strategy 2022–2032, which builds on previous plans and strategies supporting seniors in Richmond. Public engagement on the draft strategy took place in April 2022 and the final strategy, along with a summary of public input, will be presented to Council in the fall.

In 2019, Council adopted the Dementia-Friendly Community Action Plan for Richmond which identifies actions to support people living with dementia, their families and caregivers. This project was funded by a \$25,000 UBCM 2018 Age-Friendly Community Grant. Richmond also received an additional \$25,000 from the UBCM 2019 Age-Friendly Community Grant to engage seniors in the creation of age-friendly neighbourhoods that support successful ageing in place.

In April 2021, City Council adopted the 2021–2031 Richmond Child Care Action Plan, which was developed utilizing a \$25,000 Child Care Planning Grant from the UBCM the City of Richmond received in 2020. The Plan updates the inventory of child care spaces in Richmond and outlines space creation targets for the next 10 years. In addition, work will begin on a new child care needs assessment and strategy before the end of 2022.

In December 2021, City Council adopted the 2021–2031 Collaborative Action Plan to Reduce and Prevent Poverty in Richmond (Collaborative Action Plan). Developed with a grant from the UBCM, the Collaborative Action Plan builds on the City's ongoing commitment to increase social equity and will guide the City's approach, in collaboration with the community, to reducing and preventing poverty in Richmond over the next 10 years.

Council endorsed a stakeholder engagement and community activation program designed to combat "energy poverty." The program's purpose is to create a toolkit in collaboration with participating non-profits to assist low-income households in reducing their energy expenses and reduce community GHGs.



Accessible Pedestrian Crosswalk Signal

7. A Supported Economic Sector



Facilitate diversified economic growth through innovative and sustainable policies, practices and partnerships.

Economic development plays an important role in the well-being and financial sustainability of a city. Council's focus for the economic sector this term is on encouraging a diversified economic base with emphasis on clean sectors and strategic collaborations. Richmond is committed to being a business-friendly city, ensuring goals around growth align with economic goals and that workers' needs for transportation, housing, and training are all supported.

Priorities include:

- 7.1 Demonstrate leadership through strategic partnerships, collaborations and exploring innovative and emerging economic practices and technical advancements.
- 7.2 Encourage a strong, diversified economic base while preserving agricultural land and maximizing the use of industrial land.
- 7.3 Attract businesses to locate in Richmond and support employment and training opportunities in Richmond as we grow.
- 7.4 Inspire the farming and fishing cultures of tomorrow.

7. A Supported Economic Sector

7.1 Demonstrate leadership through strategic partnerships, collaborations and exploring innovative and emerging economic practices and technical advancements.

The City partnered with the City of Surrey, Township of Langley and the BC Tech Association to deliver a provincially funded \$400,000 Supply Chain Resiliency Program to track and enhance the capabilities of the region's manufacturing businesses. As part of this program, a De-risking Emerging Market Opportunities (DEMO) toolkit was created to support future business pivots. This program also encourages technology adoption by manufacturing businesses to help them remain competitive despite challenges such as the shortage of space and workers, and supply chain disruptions.

The Richmond RCMP's Economic Crime Unit conducted outreach to local businesses to raise awareness about fraud.

In 2021, the City renewed its Tourism Partnership Model and agreements with the Richmond Hotel Association and Tourism Richmond, including the development of a 5-Year Strategic Business Plan. The 2022–2027 hotel tax renewal (Municipal Regional District Tax) application to the Province was submitted with 90% support of accommodation providers, and subsequently approved. The MRDT is expected to generate an estimated \$25 million over the next five-year period to continue supporting tourism marketing and development.

The MyBusiness online business licence system will be launched in Q3 2022, streamlining the process for customers with a self-service option that enables existing and new business owners with the convenience of submitting, updating, and renewing their licences online without having to visit City Hall. Council also endorsed a Permitting Optimization Project, which will optimize the development and building permitting process.

The Richmond Discovery Shuttle attracted over 2,000 riders in 2019.

The City is partnering with Kwantlen Polytechnic University (KPU) to map an innovation ecosystem and strengthen the network of services and supports offered for entrepreneurs at all stages of the start-up to scale-up continuum. The project involves stakeholder engagement with post-secondary institutions, business associations, funders, government agencies, co-working spaces, anchor institutions and others to map out the supports that are currently available, identify gaps in service delivery, and develop an ongoing implementation plan including a collection of potential projects for execution. An Innovation and Entrepreneurship symposium is anticipated to take place in late 2022 or early 2023. Sectors of focus include Agrifoods, Social Innovation, and Circular Economy.

Dredging of the Steveston Harbour Channel, Imperial Landing, and the Britannia Shipyards National Historic Site waterfront was completed in 2019.

The introduction of ride-hailing legislation in 2019 resulted in local governments implementing an inter-municipal licencing program to regulate ride-hailing businesses in Metro Vancouver. Inter-municipal licencing allows businesses to apply for a business licence to operate in all participating municipalities with standardized regulations across the Lower Mainland.

Traffic Bylaw No. 5870 was amended to harmonize vehicle weight and dimension limits and cargo securement requirements across Metro Vancouver in support of a future centralized regional permit system for goods movement.

7.2 Encourage a strong, diversified economic base while preserving agricultural land and maximizing the use of industrial land.

A series of bylaw and policy changes were adopted by Council in 2021 to encourage more intensive utilization of existing industrial land. The benefits of the Industrial Lands Intensification Initiative include:

- Allowing increased industrial building and business activity on the existing land base;
- Reducing barriers to future multi-level industrial developments through the consideration of increasing the floor area ratio on sites with adequate transportation and servicing infrastructure; and
- Reducing the pressure to convert agricultural lands to industrial use.

The City is sharing these changes and the resulting opportunities for industrial with a range of stakeholders. A data model to track industrial utilization in Richmond over time is also being developed.

The City participated in the development of the Regional Industrial Lands Strategy, which is intended to establish a vision for the future of industrial lands across Metro Vancouver to the year 2050, and to provide a set of recommendations to guide a broad range of stakeholder actions to achieve that vision. The strategy was approved by the Metro Vancouver Board in July 2020.

The City worked closely with the Agricultural Land Commission and the Ministry of Agriculture on the review of the No. 5 Road Backlands policy, in addition to legislative changes to agriculture. This initiative included consultation with property owners and representatives of community institutions located along the No. 5 Road Backlands policy area, and on Assembly (ASY) zoned lands in the Agricultural Land Reserve (ALR).



Farm Equipment at Garden City Lands

The City worked with various branches of the provincial government, including the Agricultural Land Commission and the Ministry of Agriculture on legislative changes including updates to cannabis regulation, and changes to the Local Government Act with regards to house size and regulations within the ALR.

7.3 Attract businesses to locate in Richmond and support employment and training opportunities in Richmond as we grow.

Richmond continued to attract film productions of all sizes and scales. From 2019–2021, the City processed approximately 212 film permits with roughly \$1.6 million in service and location charges.

Richmond participated in Metro Vancouver's Regional Prosperity Service to attract international investment and high quality jobs to the region.

Richmond has seen extensive growth in the film industry in recent years, with productions actively seeking warehouse spaces and converting them into film studio facilities. The first purpose-built film studio facility opened its doors in Richmond in early 2018. Since then throughout the term, the City has worked with several companies including William F. White Studios, MBS Equipment Company Canada, and Warner Bros. Television on a number of studio development projects. As of 2022, Richmond is home to six film studio facilities.

Council adopted an OCP amendment bylaw to include a new incentive-based policy to ensure that a portion of new office space constructed in the City includes large floorplate office space which would be capable of supporting large employers.

An Airtightness Training Program was provided in 2020 to help local homebuilders achieve BC Energy Step Code requirements and enhance energy performance levels.

The City prepared a Business Tenant Relocation bulletin to provide property owners and the development community with a clear and transparent framework to follow regarding notifying and assisting existing business tenants prior to the submission of a development application. The bulletin includes a reasonable notice to businesses regarding the need to relocate, financial assistance with the relocation, and where feasible, a right of first refusal if there is an opportunity for the business to return to the site.

7. A Supported Economic Sector

In 2020, the City offered three free Innovation and Entrepreneurship Workshops for local small businesses and entrepreneurs to further strengthen the local 'start-up ecosystem'.

7.4 Inspire the farming and fishing cultures of tomorrow.

Council adopted the Farming First Strategy which includes policies and strategies that support the use of agricultural land for local food production, encourages a local food network to increase local food supply and consumption, encourages new investment in agriculture, and identifies opportunities to attract new farmers. Policies in the strategy aim to:

- Protect agricultural land for farming;
- Strengthen the economic viability of food production;
- Improve irrigation and drainage infrastructure;
- Mitigate the impacts of climate change; and
- Work collaboratively with upper levels of government.

Extensive public consultation on this strategy update was conducted with residents, ALR property owners, stakeholders and the farming community.

Council contributed \$50,000 for the Steveston Harbour Authority (SHA) archway sign located in Steveston to commemorate the importance of fishing in the community's history.

The City continues to work with KPU to support agriculture education. In 2020, the City entered into agreements with the KPU that enable components of the Richmond Farm School and the Department of Sustainable Agriculture and Food Systems' degree program on City-owned land. For example:

- The KPU Research and Teaching Farm located on the Garden City Lands is a certified organic farm where students learn and apply knowledge to become future farmers. With the future addition of 200 community garden plots at the Garden City Lands, the potential reach of the KPU program will be amplified as recreational community gardeners are exposed to the Research and Teaching Farm.

- The Gilbert Agricultural Lands located at the Gilbert Road and Dike Road provide KPU's Richmond Farm School a space to train future farmers. Graduates of the KPU Sustainable Agriculture Program can lease land for up to two years at this site to further develop their farming knowledge and apply skills learned in the classroom.



Kwantlen Polytechnic University Research and Teaching Farm at Garden City Lands

The 2019 Richmond Farm Fest had 5,000 participants meeting local farmers, learning about farming equipment and shopping an artisanal farmers market.

Fishing ExplorePACKS were made available at Richmond Public Library, containing the basics for residents of all ages to explore the community and experience Richmond's fishing heritage, including fishing rods, a tackle box, lures, educational material and more. The six fishing ExplorePACKS in the library's collection were made possible by a donation from gofishbc's Rod Loan Program.



Steveston Harbour Authority Archway

In 2021, the City provided 902 cubic yards of soil amender to the Sharing Farm, KPU Farm and community gardens.

7. Supporting Richmond's Economic Sector During the COVID-19 Pandemic

In response to the COVID-19 pandemic, the City implemented a number of initiatives to support Richmond's local businesses and economic sector. For example:

- The City launched a Business Support Centre to provide a centralized, virtual source of accurate and timely information and resources for local businesses. The support centre provided information for businesses about programs and resources from all levels of government and other agencies as well as information on how to access City services for businesses. Key initiatives that were part of the Business Support Centre include:
 - ♦ Job opportunities for displaced workers.
 - ♦ Directory for Richmond-made PPE and COVID-19 safety supplies.
 - ♦ Alternate distribution channels for local goods.
- The City launched the Richmond Business Resilience Program in 2020 offering free training to help local entrepreneurs adapt their businesses so they can emerge from the crisis thriving and able to withstand future economic shocks. The program ended in December 2021 with a total of 111 users who accessed:
 - ♦ An online learning platform providing self-serve support for business owners including tools and resources from experts;
 - ♦ 53 online and recorded Q&A webinars, boot camps and masterclasses;
 - ♦ Three challenges providing businesses the opportunity to win a \$10,000 grant prize;
 - ♦ One-on-one support from the City's Economic Development Office
- In 2020, the City launched an Expedited Temporary Outdoor Patio program and online application process to allow restaurants, cafes and pubs to expand outdoor seating to private property, parking lots or approved space on City sidewalks with respect to

patio layout guidelines. In 2021, nearly 70 businesses participated in the program which was extended until June 1, 2023. An ongoing patio program is now in development to build on the success of the temporary program. This was informed by a public survey that concluded in December 2021 and consultation with business groups and industry associations. The new program is expected to be opened to new applications in Spring 2022.

- The City partnered with Tourism Richmond and the Richmond Chamber of Commerce to create the online hub www.wearerichmond.ca to support local businesses and help bring the community together. The website includes an 'Open for Business' marketplace, a compilation of resources for businesses and residents, and a collection of virtual experiences that people can enjoy from the comfort of their home.
- The Richmond Film Office worked closely with both internal and external stakeholders, including Creative BC's Municipal Film Advisory Committee, to develop plans, implement processes, and provide feedback on the film industry's return to work plan.

Throughout 2021, the City supported the return of events as important economic generators in accordance with evolving Provincial Health Orders. For example:

- The City's REACT (Richmond Event Approval Coordination Team) process facilitated 30 in-person, outdoor community events in 2021.
- Richmond Sport Hosting supported 20 events in 2021, garnering 2,700 hotel room nights at local hotels.

Two Job Fairs were offered at the Richmond Public Library in 2021, one virtual, presented in partnership with WorkBC Employment Services, and one in-person, presented in partnership with WorkBC Richmond and the British Columbia Hotel Association (BCHA). The events were attended by over 450 people.

8. An Engaged and Informed Community



Ensure that the citizenry of Richmond is well-informed and engaged about City business and decision-making.

Council views communication and engagement as a high priority that extends across all areas. With a multitude of communication tools available through advancements in technology, access to accurate, timely and complete information is important for dialogue and participation.

Priorities include:

- 8.1 Increased opportunities for public engagement.
- 8.2 Ensure citizens are well-informed with timely, accurate and easily accessible communication using a variety of methods and tools.

8. An Engaged and Informed Community

8.1 Increased opportunities for public engagement.

The City successfully planned and executed a legislatively compliant By-Election in 2021, with adherence to strict requirements to enable Richmond electors to safely vote due to the COVID-19 pandemic. Voters had a variety of options to cast their votes, including advanced polling with 10 different options, mail-in ballots, and in-person voting at 10 locations, with results viewable via Richmond Elections app. Approximately 13,000 ballots were cast.

The Let's Talk Richmond online engagement platform provided community members a convenient opportunity to share their input on discussions that shape Richmond. From 2019–2021, the platform was used for 82 engagement projects. In 2021 there was a 44% increase in engagement projects from the previous year, over 35,630 users connected with the various online opportunities, and almost 15,380 surveys submitted.

In 2021, the top five LetsTalkRichmond engagement projects for participation were:

- Food Trucks in Steveston
- Cycling Network Plan Update (Phases 1 and 2)
- Patios on Public Space
- Community Gardens
- Community Energy and Emissions Plan 2050

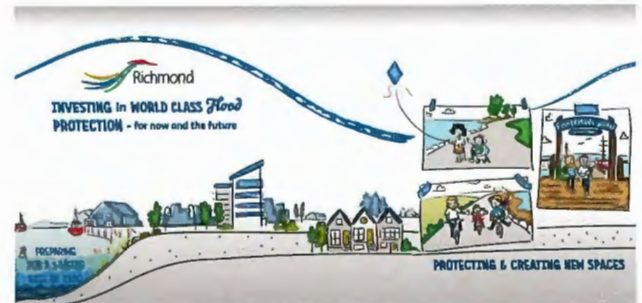
Engagement took place with residents of three neighbourhoods to discuss potential traffic calming measures and address concerns raised by residents.

Throughout the term, a number of other public engagement opportunities were offered. Some examples include:

- Youth Strategy 2022–2032
- Seniors Strategy 2022–2032
- Richmond RCMP Policing Priorities
- Brazilian Elodea Management Program
- Cultural Harmony Plan 2019–2029
- Richmond Homelessness Strategy 2019–2029

The City hosted numerous public and key stakeholder engagement events throughout the term presenting and promoting the City's Flood Protection Program including the Flood Protection Management Strategy and Dike Master Plan. These events were immensely successful and well

supported by the public and key stakeholders. In addition, new informational videos about flood protection and dike raising were created and made available on the City's website and social media accounts.



Flood Protection Virtual Engagement Presentation

The City hosted a virtual three-day design charrette in February 2021 to inform the concept design of the Steveston Community Centre and Branch Library. Each day involved focused discussions with key stakeholders on various factors related to the site and building layout, refinement of concept designs by the architects, and presentation to the public for consideration and feedback. The draft floor plans and renderings were then presented to the public on Let's Talk Richmond and at a virtual open house held in March 2021. This interactive process enabled stakeholders and the public to be intricately involved in the design process, resulting in a facility that will reflect the community's input and needs.

The City of Richmond partnered with Richmond Electric Vehicle Ambassadors, Plug-in Richmond, Plug-In BC, Richmond School District No. 38 and Emotive to create a comprehensive digital teaching package designed for Kindergarten to Grade 12 students. This program was conceived after the City received a grant from the Emotive Community Outreach Incentive Program to promote EV awareness and spark creativity and innovation among youth.

From 2019–2022, a wide variety of workshops and events were undertaken to engage the community in more sustainable and circular economic practices including:

- Almost 2,800 people attended 76 recycling and waste reduction workshops.
- Thirteen outreach events were hosted on the topic of EVs.
- Four repair events were offered where volunteers fixed household items and taught participants about basic repairs.

8. An Engaged and Informed Community

- Informational displays were featured at 17 community events, and garbage and recycling stations were provided for 129 events.
- Virtual workshops and events included Let's Recycle Correctly, Repair Fairs and Zero Heroes: Home Edition, offered in partnership with Dreamrider Productions.
- Approximately 295 people attended 13 tours of the Recycling Depot.
- The Rethink Waste campaign was implemented to promote waste reduction and circular economy principles, including a Think Tank where residents shared 160 ideas that created the new Community Ideas Hub.
- The City collaborated with professors from KPU to focus curriculum on the issues surrounding single-use items to inspire real-world designs that minimize waste and build circular solutions.
- An interactive Recycling Depot map and virtual Take it to the Depot video was provided on the City's website.
- The City participated in the Richmond Youth Foundation 2020 Case Competition on single-use items.

Volunteering looked different this term due to the COVID-19 pandemic, but Richmond residents remained engaged and connected to their community while supporting a wide variety of programs and services. For example:

- In 2019, 1,819 volunteers contributed over 82,000 hours with the City and partner organizations; 239 RCMP volunteers contributed 21,327 volunteer hours; and 250 Green Ambassadors volunteered at 36 special events resulting in 81–94% diversion rates.
- In 2020, 841 volunteers contributed over 19,800 hours with 230 City and partner opportunities. These included a shopping program for isolated seniors, assistants for the Emergency Operations Centre program, and Spanish-speaking volunteers to assist with the temporary foreign workers program.
- In 2021, 593 volunteers contributed over 18,203 hours with 169 City and partner opportunities; 35 RCMP volunteers contributed 1,714 volunteer hours, including 162 hours of volunteer bike patrols; and Green Ambassadors volunteered an estimated 1,730 hours for 26 special events and other programs.
- In 2022, volunteer participation continued to trend upwards. In the first four months alone, 305 volunteers participated in 129 opportunities, contributing over 8,600 volunteer hours.



Green Ambassadors at the Richmond Maritime Festival

The City coordinated with local elementary schools adjacent to construction sites to invite students to learn about the construction and utility upgrades. For example, five classes from Manoah Steves Elementary attended the job site for the Springfield watermain construction to learn about the work underway and water conservation.

8.2 Ensure citizens are well-informed with timely, accurate and easily accessible communication using a variety of methods and tools.

Following an in-person Capital Construction Project Open House in 2019, the event shifted online as the Capital Project Highlights. Through a user-friendly webpage, interactive story maps, and Q&A, residents can conveniently review the information and learn about the upcoming capital projects online. The annual highlights feature Engineering and Public Works, Parks, Transportation, Buildings and Public Art projects.

The City's social media accounts saw an increase in activity throughout the term. For example, by the end of 2021:

On Facebook:

- The City's page reached over 12,200 followers, an increase of 23% from the previous year.

On Instagram:

- The City's account reached 3,400 followers, a 47% increase from November 2020.

On Twitter:

- The City's account reached over 8,800 followers, an 8% increase from the previous year, and resulted in over 4,500 clicks through to the City website.

On YouTube:

- The City's channel reached 928 subscribers, a 50% increase from the previous year, and received over 69,000 views.
- The platform was also used to broadcast Council meetings and live stream events such as the Richmond Maritime Festival, Cherry Blossom Festival and Remembrance Day virtual programming.

In addition, the City issued almost 140 news releases and Info Bulletins in 2021, a 5% increase from the previous year.

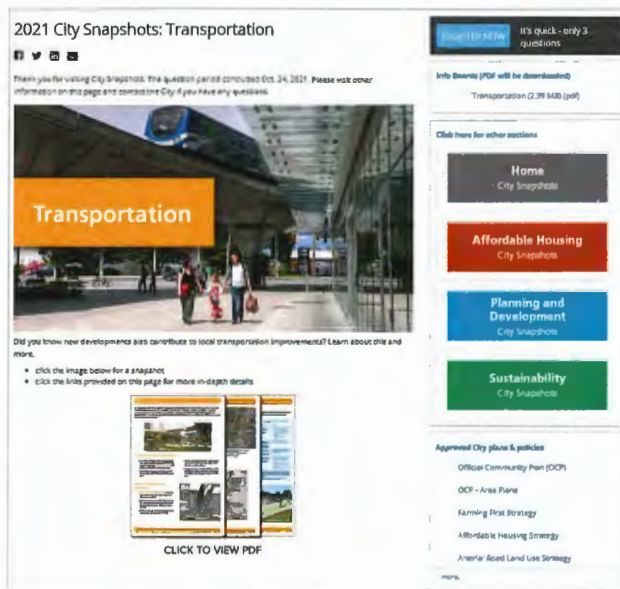
The Richmond Interactive Map (RIM) was updated to include snow and ice response tracking.

Following a series of in-person Community Information Sessions in 2019, the public information initiative shifted online as City Snapshots: Planning for Growth & Development. The online engagement program is used to provide an opportunity for sharing information and engaging the public on four key topic areas: planning and development, transportation, affordable housing and sustainability. Community members were able to access updated policy topics and projects online and share comments or questions to which staff responded on the platform.

A number of new communication and engagement tools were launched to support community safety during the term, including the Community Safety App, Richmond Fire-Rescue's new interactive website and new Instagram account.

The online Council Decisions Database launched in 2019 continued to provide valuable information for the public on voting records from open Council meetings and Public Hearings. The search feature provides easy access for users to conduct research on open Regular and Special Council meetings and Public Hearings dating back to 1998.

The City website (richmond.ca) redesign and revitalization project kicked off in 2021. The update will provide more efficient, customer-focused experience.



City Snapshots Virtual Public Engagement

8. Maintaining an Engaged and Informed Community During the COVID-19 Pandemic

In response to the COVID-19 pandemic and guidelines on public gatherings and physical distancing, the City transitioned Committee, Council and Public Hearing Meetings to a virtual format, enabling Council members and staff to participate remotely in all meetings. To further encourage public involvement and engagement, all Open Committee, Council and Public Hearing meetings were also live-streamed using the City's YouTube channel, enabling the public to watch all meetings live from the comfort of their homes. This service was further enhanced through the provision of phone participation by members of the public, providing direct access to delegate at Council meetings through a remote participation opportunity.

The City launched a dedicated section on the City website (www.richmond.ca/COVID-19) to update the community on news, decisions and status of programs, facilities and services impacted by the pandemic. Information included:

- Up-to-date information about which facilities, amenities and services were open or closed to the public.
- News releases related to the COVID-19 pandemic, including announcements.
- Mayor Brodie's video statements.
- The Restoring Richmond Plan and related information, such as facility COVID-19 Safety Plans and mask requirements.
- Additional links to internal and external resources.

The web page was well utilized, with over 155,000 visits and 203,000 page views from March to December 2020.

The City worked closely with the Richmond School District No. 38, VCH – Child Care Licensing, the Child Care Resource and Referral Centre to gather and disseminate critical information regarding child care for essential service workers.

Information was regularly provided to the Richmond Emergency Operations Centre, Richmond RCMP, Richmond Fire Rescue, the Richmond Division of Family Practice and the Armed Forces to ensure that employees working in essential services had up-to-date and accurate information to support their access to emergency child care in response to the COVID-19 pandemic.

The City worked closely with RCRG, one of 24 designated COVID-19 response hubs in BC, to inform seniors of support services available to them, including: virtual friendly visits, grocery shopping and delivery, frozen meal delivery, prescription pick-up and delivery, peer counselling, and caregiver support. Information was shared through the City's website, print material delivered to seniors housing, the Minoru Centre for Active Living Meals to Go program, newspaper advertisements and one-on-one wellness calls.

In the early stages of the COVID-19 pandemic, the City compiled and shared funding opportunities from other levels of government through various advisory committees, community associations and societies. These included access to income supports, tax relief and direct funding for Richmond non-profits affected by the pandemic. The compilation of funding opportunities provided consistent and up-to-date information eliminating the need for the organizations to find and interpret what funding opportunities were available.

Throughout the COVID-19 pandemic the City worked closely with VCH to ensure information, resources and guidelines produced by the City were in alignment with directions from health authorities and provided accurate and reliable information to the community.

Awards and Recognition



Minoru Centre for Active Living

Awards and Recognition

2019

Canadian Association of Municipal Administrators (CAMA)'s Environment Award

Richmond received the prestigious CAMA Environment Award in 2019 for its innovative District Energy Implementation program. The award recognizes the commitment of a municipality to environmentally sustainable governance, to protecting the environment, and to combating climate change.

Association of Energy Engineers (AEE)'s Canada Region Energy Project of the Year Award

The AEE, an international organization that recognizes excellence in energy management, awarded the City the 2019 Canada Region Energy Project of the Year Award for the delivery of the ADEU project. AEE recognized the City for its innovative renewable energy project that is making a significant impact on climate change.

Government Finance Officers Association (GFOA) of the United States and Canada's Canadian Award for Financial Reporting and Outstanding Achievement in Popular Annual Financial Reporting Award

The City's 2017 Annual Report was honoured with the Canadian Award for Financial Reporting for the 16th year, and the Award for Outstanding Achievement in Popular Annual Financial Reporting for the ninth year in 2019.

UBCM's Community Excellence Award – Excellence in Governance

The City was awarded the UBCM Award for Excellence in Governance for the 2017–2022 Richmond Child Care Needs Assessment and Strategy in 2019. The vision for the current five year strategy is for Richmond to build upon three decades of work to continue to be a municipal leader in fostering the conditions for a comprehensive child care system.

BC Environmental Managers Association's Technological Innovation Award

Richmond received the BC Environmental Managers Association 2019 Technological Innovation Award for the implementation of a simplified non-storm water discharge management program that safeguards the City's sewers and strengthens environmental protection.

Public Works Association of BC's Public Works Week Community Celebration Award

The Public Works Open House received the Public Works Association of BC's Public Works Week Community Celebration award for a population over 100,000 in 2019. The interactive event showcases the work that is done on a daily basis to ensure the safety and health of the community.



Public Works Open House, 2019

Community Energy Association's Climate & Energy Action Award

The City of Richmond's first-of-its-kind EV charging infrastructure requirement for all new residential buildings was recognized with a Climate & Energy Action Award from the Community Energy Association in 2019. The Climate & Energy Action Award recognizes climate leadership of BC local governments.

Homebuilders Association of Vancouver's Ovation Award

The Storeys affordable housing project received an Ovation Award from the Homebuilders Association of Vancouver in 2019 for Best Multi-Family High-Rise Development.

Association of Consulting Engineering Companies BC's Award of Merit

In 2019, the City was recognized for the Britannia Shipyards National Historic Site Flood Protection Improvements Project, which upgraded flood prevention infrastructure for a national historic site which is located outside of Richmond's diking network.

Firehouse Magazine's Station Design Awards

In 2019, Brighthouse Fire Hall No. 1 received notable design mention from Firehouse Magazine, as well as Cambie Fire Hall No. 3 and Ambulance Station No. 250 for being the first combined urban fire and ambulance station and mixed-use facility in British Columbia.



Brighthouse Fire Hall No. 1

Canadian Alliance of Chinese Associations' Public Safety Contribution Award

Richmond Fire-Rescue was awarded the Public Safety Contribution Award from the Canadian Alliance of Chinese Associations at the Richmond 140th Anniversary Awarding Ceremony held in December 2019.

Government Fleet Magazine's Notable Fleets Certificate of Achievement

The City's fleet was awarded a certificate of achievement through the Government Fleet Magazine and American Public Works Association Leading Fleets award in 2019. The award recognizes operations that are performing at a high level in fleet innovation and leadership.

2020

CAMA's Professional Development Award

Richmond received CAMA's Professional Development Award for the City's Engineer-in-Training program in 2020. This award recognizes a community that has developed a unique and innovative program for their staff and can be replicated in other communities.

GFOA of the United States and Canada's Canadian Award for Financial Reporting and Outstanding Achievement in Popular Annual Financial Reporting Award

The City's 2018 Annual Report was honoured with the Canadian Award for Financial Reporting for the 17th year, and the Award for Outstanding Achievement in Popular Annual Financial Reporting for the 10th consecutive year in 2020.

The Energy Globe Foundation's Canadian Energy Globe National Award

The City and LIEC won the national 2020 Energy Globe Award for the ADEU Smart Centres Expansion. The SmartREIT plant is connected with the main ADEU central plant, allowing for energy sharing throughout the entire ADEU distribution system by sharing excess thermal energy capacity into the ADEU network. This prominent award is presented annually to projects focusing on energy efficiency, renewable energies and the conservation of resources.

International District Energy Association's 2020 IDEA Innovation Award

The City and LIEC won the International District Energy Association 2020 IDEA Innovation Award for the ADEU Smart Centres Expansion. The project took an innovative approach to the expansion of the ADEU with construction of a satellite energy plant to both meet the energy demands of large format commercial customers and share energy across the entire district network, all while diversifying the low carbon energy sources available for use in the Utility. This international recognition from peers in the District Energy industry is a result of the City and LIEC's dedication to excellence, innovation and the commitment to reducing GHG emissions through the deployment of district energy systems.



District Energy Utility

BCRPA's Facility Excellence Award

In 2020, the Edwardian Cottage at Terra Nova Rural Park was named by the BCRPA for its provincial Facility Excellence Award for projects with a capital cost less than \$1 million. The annual award recognizes outstanding facility design that reflects community culture and spaces that are accessible, engage community members in design consultation, and ultimately improve the well-being of the community.

Institute of Transportation Engineers – Greater Vancouver Section’s Mavis Johnson Award

Richmond received the 2020 award for Road Safety Project of the Year in the Greater Vancouver area for its Network Screening Study that identified the top 20 collision prone intersections and recommended mitigation measures. This annual award celebrates technical excellence in the field of road safety.

Government Fleet Magazine’s Notable Fleets Certificate of Achievement

The City’s fleet was awarded a certificate of achievement through the Government Fleet Magazine and American Public Works Association Leading Fleets award in 2020. The award recognizes operations that are performing at a high level in fleet innovation and leadership.

2021

Environmental Managers’ Association (EMA) of BC’s Regulatory Challenge Award

The City was a recipient of the 2021 EMA of BC award for the City’s Corporate Hazardous Materials Management Training. The City’s Corporate Hazardous Materials Management Training program was established in 2019 to centralize all hazardous materials information management through customized staff training and data management. The award recognizes the City’s efforts to train over 250 staff since 2019 and improve hazardous materials data management systems on a web-based collaborative platform, fully customized by staff to centralize the management of all hazardous materials information. As a competency-based training program, Richmond’s Corporate Hazardous Materials Management Training complies with all the specific requirements applicable to the City’s operations and incorporates best practices.

EMA of BC’s Discharge Control Award

The City received the EMA of BC award for the Mitchell Island Environmental Stewardship Initiative. The initiative, endorsed by Council in April 2019, aims to improve local stormwater quality and improve compliance through business outreach and senior regulatory engagement. The award recognizes the City’s outstanding work to investigate discharges to the environment, partner with senior government regulators and engage and educate business operators.

International Olympic Committee, International Paralympic Committee, and International Association for Sports and Leisure Facilities’ Architecture Prize for Accessibility

Minoru Centre for Active Living received the 2021 Architecture Prize for Accessibility from the International Olympic Committee, International Paralympic Committee, and International Association for Sports and Leisure Facilities. The annual Distinction for Accessibility Award aims to increase the accessibility of all sports and leisure facilities and architectural structures worldwide so that everyone has an opportunity to practice and view sport freely and without barriers.



Leisure Pool Accessibility Ramp at Minoru Centre for Active Living

Community Energy Association’s Climate & Energy Action Award

The Community Energy Association, a member-based, non-profit organization aiming to reduce emissions, conserve energy and progressively transition to a low carbon, resilient economy, named the City of Richmond recipient of its Climate & Energy Action Award for its successful District Energy Utility Program. The program now provides 22 buildings and over five million square feet of floor space with energy that is reducing GHG emissions by over 7,800 tonnes—the equivalent of removing 2,000 cars from our roads each year.

Global District Energy Climate Awards’ Award of Excellence, Emerging DHC Markets

In cooperation with the International Energy Agency, the UN environment cities initiative and the representative organizations of the district energy sector awarded the City of Richmond and LIEC the 7th Global District Energy Climate Award of Excellence for Emerging DHC Market for the Alexandra District Energy Utility project. ADEU project has been selected from cities and communities across the globe which demonstrate district energy leadership in providing clean and sustainable energy solutions.

UBCM Community Excellence Awards – Excellence in Service Delivery

The Richmond Recycling Depot upgrade project received honourable mention from UBCM for service delivery. The upgrades, supported by a Western Financial Group Communities Foundation – Infrastructure Grant, aimed to promote greater recycling as well as support the City's established waste diversion targets and Council's commitment to the environment.



Councillor Linda McPhail, Mayor Malcolm Brodie, Councillor Alexa Loo and Councillor Bill McNulty at the Recycling Depot Opening

British Columbia Economic Development Association's Community Project Award

The City won the 2021 Community Project Award from the British Columbia Economic Development Association for the Richmond Food Recovery Network. The award recognizes individuals and groups for outstanding work in supporting their local economies, and making a meaningful difference in their communities.

Government Fleet Magazine's Notable Fleets Certificate of Achievement

The City's fleet was awarded a certificate of achievement through the Government Fleet Magazine and American Public Works Association Leading Fleets award in 2021. The award recognizes operations that are performing at a high level in fleet innovation and leadership.

2022

GFOA of the United States and Canada's Canadian Award for Financial Reporting and Outstanding Achievement in Popular Annual Financial Reporting Award

The City's 2020 Annual Report was honoured with the Canadian Award for Financial Reporting for the 18th consecutive year, and the Award for Outstanding Achievement in Popular Annual Financial Reporting for the 11th consecutive year in 2022.

Recreation Facility Association of BC's Bill Woycik Outstanding Facility Award

Minoru Centre for Active Living received the Recreation Facility Association of BC's Bill Woycik Outstanding Facility Award. This award recognizes an outstanding facility that meets the community's needs and exemplifies innovations in design, energy management, and operations and demonstrates community need.

CAMA's Environmental Leadership & Sustainability Award

The City-wide Pollinator Program was awarded the Environmental Leadership & Sustainability Award, in the over 100,000 population category. The award recognizes the City's proactive approach to conserve pollinators and develop and protect their habitat through community programming and engagement.

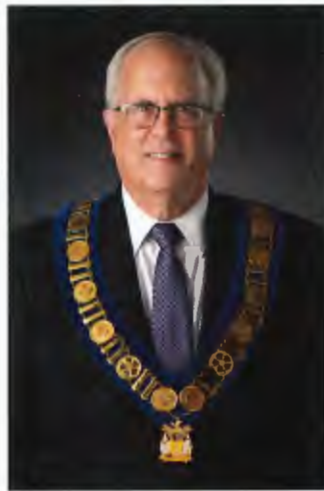


City of Richmond

6911 No. 3 Road, Richmond, BC V6Y 2C1
Telephone: 604-276-4000
www.richmond.ca

Council Strategic Plan 2018–2022: Achievement Highlights Overview





Richmond City Council

Top Row (Left to Right):

Councillor Chak Au, Councillor Carol Day, Councillor Andy Hobbs, Councillor Alexa Loo

Middle Row:

Mayor Malcolm Brodie

Bottom Row (Left to Right):

Councillor Bill McNulty, Councillor Linda McPhail, Councillor Harold Steves, Councillor Michael Wolfe

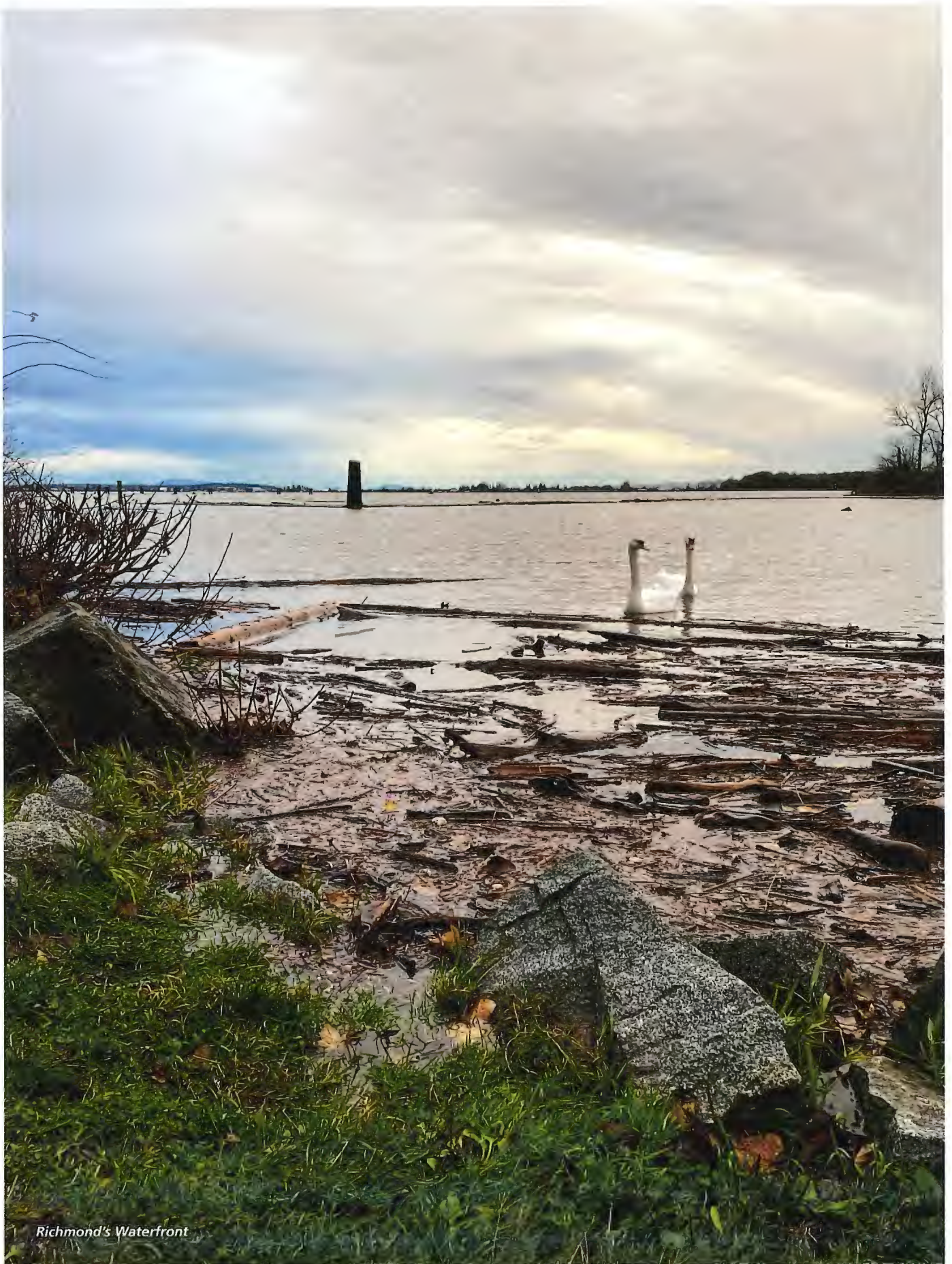
City of Richmond Council Strategic Plan 2018–2022

The Council Strategic Plan identifies the collective strategic focus and priorities for Richmond City Council for the 2018–2022 term of office. The plan reflects Council's desire for proactive and forward-thinking leadership that remains rooted in Richmond's distinct history and identity.

Council adopted eight strategic focus areas for the 2018–2022 term with additional priorities identified for each focus area. The Council Strategic Plan allows the City to accomplish a visionary agenda set by Council while also being flexible and responsive to new opportunities, issues, and circumstances that may emerge during the term.

This report provides highlights of achievements made towards the advancement of the Council Strategic Plan strategic focus areas throughout 2018–2022.





Richmond's Waterfront

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1. A Safe and Resilient City

2018–2022 Highlights



Richmond is a safe community, and ensuring that it remains safe is a top priority for Council.

The City's Flood Protection Management Strategy was updated in 2019 and accelerated the flood protection program to a 50 year implementation period. Throughout the term, significant work was completed and Council continues to invest in strengthening and upgrading the City's flood protection infrastructure, including \$12.2 million in 2022 flood protection projects approved by Council as part of the 2022–2026 Capital Program. The City was also awarded \$15.7 million in funding from various levels of senior government grant programs throughout the term to support flood protection improvements.

Council completed implementation of the Safe Community Strategy which included a total of 107 new positions for Richmond Fire-Rescue and Richmond's RCMP Detachment. Over the course of three years, Richmond has added:

- 51 additional police officers;
- 20 municipal employees to support policing services; and
- 36 firefighters.

The enhanced City Centre Community Police Office (CPO) was opened in September 2021 and front counter services for the public launched in April 2022. Located on the corner of Gilbert Road and Granville Avenue, the 10,000 square foot facility will provide the public centralized policing services and improved police response times for Richmond residents.

Configuration changes and site improvements were made at the Richmond Recycling Depot to update ageing infrastructure and improve operations. The improvements include a new site layout, expansion of the hazardous waste materials area inclusive of tent covering, a new steel awning spanning the centralized large recycling bins, new heavy equipment, and a classroom for depot tours and recycling workshops.

As of February 2022, the City installed approximately 476 closed-circuit television (CCTV) cameras to help improve road safety and manage traffic congestion. Traffic cameras provide low-resolution video with recording capabilities at 119 intersections.

1. A Safe and Resilient City

The Richmond RCMP, in collaboration with Vancouver Coastal Health (VCH), launched the Fox 80 Mental Health Car (Fox 80) to provide a joint-response to mental health-related calls for service in Richmond. Fox 80 provides assistance to frontline policing units by conducting wellness checks and police apprehensions under the Mental Health Act.

The Richmond Community Animal Shelter will be re-opening in 2022 with the BC SPCA managing the operations of the Shelter. The renovation and expansion project upgraded the previous existing facility and added additional space in order to accommodate more animals and provide a higher quality of care.

The City transitioned Emergency Support Services to the Canadian Red Cross (CRC), which provides the City with access to a wider network of resources. Through the direction of Emergency Programs, CRC's provision of services has met the standard of service excellence and has resulted in the delivery of critical emergency support services to residents in a functional, efficient and supportive way.

In November 2021, Richmond experienced a record-setting rainfall event receiving upwards of 138 mm of

rain. The City quickly organized to address drainage system challenges and support residents, responding to over 600 calls from residents and distributing over 20,000 sandbags to those with low-lying properties. In addition, City staff were deployed to support the City of Abbotsford's Emergency Operations Centre (EOC) at the request of the provincial government.

In response to the unprecedented "heat dome" experienced in June 2021, the City developed a Hot Weather and Poor Air Quality Operations Guide. The plan sets out a coordinated approach across City departments to enable responsive mobilization in situations, including roles and responsibilities, facilities that will be available for the public, and other public amenities such as misting stations. This plan will enable the City to proactively respond to extreme heat and poor air quality events, improving the community's resilience and ability to weather environmental changes.

The City implemented a new licencing and enforcement procedure for boarding and lodging programs to curb illegal short-term rentals in Richmond. The new measures brought Richmond in line with best practices in regulating short-term rental properties, ensuring adequate long-term rental supply and curbing nuisances such as "party houses".

1. Maintaining a Safe and Resilient City During the COVID-19 Pandemic

Council declared an emergency, which provided Council the authority to quickly and effectively address emerging issues as a result of the COVID-19 pandemic and make decisions in the best interest of Richmond.

Community facilities and amenities were temporarily closed, and many programs and services were transitioned online to continue to meet the needs of the community. In preparation for re-opening, several upgrades and modifications were completed in civic facilities and plans and protocols were established to reduce the risk of spread of COVID-19 and to prioritize the health and safety of City facility users. Council endorsed the City of Richmond Plan for the Restoration of Programs and Service Affected by the COVID-19 Pandemic (the Restoring Richmond Plan), which guided the restoration of programs and services.

The City participated in the Richmond COVID-19 Community Task Force (RCCTF), which provided a

forum for Richmond community stakeholders, including all levels of government, to regularly connect during the COVID-19 pandemic, share relevant information, and explore collaboration opportunities. The task force was co-chaired by Mayor Malcolm Brodie and the Richmond Chamber of Commerce's Board Chair, Fan Chun.

In partnership with BC Housing and Turning Point Recovery Society, the City opened the Emergency Response Centre (ERC) at Minoru Place Activity Centre in May 2020 to provide up to 45 safe spaces for vulnerable people during the COVID-19 pandemic. The City also provided space at Minoru Park for VCH to open a drive-thru COVID-19 Assessment Centre.

The City received a total of \$3.35 million in funding from UBCM through the Strengthening Communities' Services program to address the needs of Richmond residents experiencing homelessness during the COVID-19 pandemic.

2. A Sustainable and Environmentally Conscious City

2018–2022 Highlights



Environmentally conscious decision-making demonstrates leadership in implementing innovative, sustainable practices and supports the City's unique biodiversity and island ecology.

Council adopted the Single-Use Plastic and Other Items Bylaw No. 10000 in September 2021 and it came into effect in March 2022. Extensive engagement was held leading up to the implementation of the Bylaw to support businesses as they work towards replacing single-use plastics and other items with products that are compostable or can be used multiple times before being recycled.

Following extensive community engagement between July 2019 and September 2021, the City's new Community Energy and Emissions Plan 2050 was adopted by Council in February 2022. The plan will see the City furthering its commitment and investments to realize a net-zero carbon city by 2050.

In 2019, Council adopted the Public Tree Management Strategy 2045 (A Plan for Managing Richmond's Public Urban Forest), which outlines the goals and objectives for the sustainable stewardship of City-owned trees. In support of this, almost 3,600 trees were planted from 2019–May, 2022.

The City launched the Mitchell Island Environmental Stewardship Initiative in the spring of 2019 to protect the local environment on the island, which is on the ecologically-sensitive Fraser River Estuary and is one of Metro Vancouver's major industrial hubs. Throughout the term, the City hosted information sessions for businesses; had regular meetings with Federal, Provincial, and regional regulators; and encouraged compliance with environmental best practices.

Council adopted Soil Deposit and Removal Bylaws No.10200 in April 2021 to strengthen the pre-existing regulatory framework related to soil movement in the City. The enhanced regulations serve to better safeguard Council-endorsed strategies such as the Environmentally Sensitive Areas Management Strategy, Agricultural Viability Strategy, and the Invasive Species Action Plan, and ensure that the fees collected reflect the cost to the City.

Through the 2020 Green Fleet Action Plan, the City has applied multiple solutions to realize emission reductions and

2. A Sustainable and Environmentally Conscious City

achieve more sustainable fleet operations. The City exceeded its goal to reduce GHG emissions from the corporate fleet by 20% by 2020, achieving a 28% reduction.

In December 2021, following a community engagement process to receive input from the public on potential future community garden locations, Council approved three new community garden sites along the Railway Greenway, adding up to over 100 new individual plots planned to be constructed in spring 2022. The City currently boasts 572 individual community garden plots at 12 City-owned sites that are managed by Urban Bounty, including 200 new individual plots recently constructed at the Garden City Lands.

Richmond received Bat Friendly certification in 2020, and was designated a Canadian Bee City by Pollinator Partnership Canada in 2022. These programs recognize the City's commitment to habitat and ecosystem protection, as well as community programming, public engagement, and research. In 2022, the City-wide

Pollinator Program was also awarded Canadian Association of Municipal Administrators (CAMA)'s Environmental Leadership & Sustainability Award in the over 100,000 population category.

Richmond partnered with FoodMesh, a Vancouver-based company that facilitates food redistribution, in 2019 to launch the Richmond Food Recovery Network and engage local food businesses to divert their unsold surplus food from waste streams to higher value uses. For this initiative, the City won the 2021 Community Project Award from the British Columbia Economic Development Association.

Recognizing the importance of access to local fresh food, from 2020 to 2022, Council allocated over \$61,000 to support and enhance farmers' markets. This funding supported an extension of the Kwantlen St. Farmers Market into the fall season, enabled the Sharing Farm to plant a fall crop to supply the extended market dates, and in 2021, helped to re-launch the Steveston Farmers and Artisans Market.



Apiaries at Terra Nova Rural Park

3. One Community Together

2018–2022 Highlights



Vibrant and diverse arts and cultural activities and opportunities are provided for community engagement and connection.

This term, Council approved the allocation of approximately \$3.6 million through various community grants:

- Arts and Culture: Approximately \$467,700 was allocated for operating and project grants for cultural non-profit organizations.
- Child Care: Approximately \$238,300 was allocated to non-profit organizations that support or deliver licensed child care in Richmond.
- Health, Social and Safety: Almost \$2.5 million was allocated to non-profit community service organizations.
- Parks, Recreation and Community Events: Approximately \$446,700 was allocated to non-profit organizations that deliver programs and services that support the health, well being, and community connection of Richmond residents.

Council adopted the first Cultural Harmony Plan (2019–2029) for the City. The plan guides the City's approach to enhancing cultural harmony amongst Richmond's diverse population by identifying innovative

and collaborative approaches for intercultural connections. Over 370 individuals, including representatives from 35 organizations, actively participated in the development of the plan through public open houses, focus groups and [LetsTalkRichmond.ca](https://lets.talk.richmond.ca).

The annual Diversity Symposium was re-imagined into a virtual format spanning a week starting in 2020. In addition, new accessibility measures were implemented for participants with visual or hearing disabilities including providing voiceover welcome information for sessions, live closed captioning during each session and screen-reader compatible instructions during the registration process. The annual event discusses topics to support building diverse, inclusive and equitable communities.

Pride Week continued to be actively celebrated across Richmond throughout the term to bring together members of Richmond's Lesbian, Gay, Bisexual, Transgender, Queer and Two-Spirit plus (LGBTQ2S+) community and their allies. Some examples include the installation of the first rainbow crosswalk on

3. One Community Together

Minoru Boulevard, online film screenings, poetry and art workshops, drag queen story times, online dance parties, and informative workshops, and Signs of Pride, a community art project by artists Sam McWilliams, Paige Gratland, Phranc and local youth artists at West Richmond Community Centre.

A number of programs and initiatives were developed to share the history and culture of Indigenous communities locally and across Canada, including an expansion of the Indigenous Perspectives collections at Richmond Public Library, a training program for City staff, and a variety of virtual events and learning opportunities in honour of National Indigenous Peoples Day.

In 2019, Council adopted ArtWorks: Richmond Arts Strategy 2019–2024, demonstrating leadership in prioritizing the arts as a contributor to a vibrant, appealing and livable community. Rooted in local context, the strategy positions the arts as a means to achieve community goals in economic development, health and well-being, infrastructure and tourism.

Various public art installations were unveiled across Richmond throughout the term. Major installations include:

- *Sea to Sky* by Thomas Cannell at the corner of No. 3 Road and Cook Road.
- *Together* by David Jacob Harder in front of Minoru Centre for Active Living.

- *Wind Flowers* by Alyssa Schwann and Michael Seymour along the Gilbert Road Greenway.

Throughout the term, the Engaging Artists in the Community (EAC) program fostered cross-cultural exchange, inclusive community building, and education on community issues by collaborating with artists with socially-oriented art practices. Various community programs, workshops and initiatives were offered in collaboration with approximately 12 local artists or artist groups.

The Community Mural Program saw the installation of 10 murals throughout the term. Murals activate public areas by adding beauty and colour, while the images foster community dialogue and help people connect with places. As well, the process of designing community murals fosters social connections as project participants share ideas to co-create a collaborative vision.

The Richmond Boat Builders at Britannia Shipyards National Historic Site reopened in August 2021 allowing visitors to explore the building for the first time since 2018. A temporary exhibit featured stories of the Kishi family experience and history, boat building skills, tools and methods, and showcased the vessels MV Burnaby and Mukai Princess. Restoring access to this facility enables the community to preserve knowledge about and celebrate the people who contributed to Richmond's boat building heritage.

3. Demonstrating One Community Together During the COVID-19 Pandemic

The #RichmondHasHeart campaign continued to bring residents, businesses and stakeholders together during the COVID-19 pandemic. A variety of virtual and neighbourhood-scale activities were provided through the initiative. Some examples include: Eating in the Time of COVID, an exhibit for the No. 3 Road Art Columns, and the Reconnecting video produced using LEGO mini-figures created by Culture Days participants.

The City, Minoru Seniors Society with support from six community centre Community Associations and Societies, and Richmond Public Library collaborated with RCRG to expand existing virtual programming available for seniors 55+ years to include phone-in programming options. Supported by a \$10,000

COVID-19 Response Grant from the United Way's Safe Seniors, Strong Communities (SSSC) initiative, over 30 phone-in programs were delivered to 150 participants who may not have been able to participate in online virtual programs.

The Doors Open Richmond event was hosted online in 2020 and 2021 due to the COVID-19 pandemic. The virtual version of the event was a success with hundreds of experiences and over 100 minutes of video content shared through social media platforms using #DoorsOpenRichmond. In 2021, public participation reached over 160,000 views of social media posts and over 13,000 video views making it one of the most engaging events in Doors Open Richmond history.

4. An Active and Thriving Richmond

2018–2022 Highlights



Richmond is an active and thriving community characterized by diverse social and wellness programs, services and spaces that foster health and well-being for all.

The Recreation Fee Subsidy Program (RFSP) with expanded program eligibility continued to provide residents of all ages who are facing financial hardship opportunities to participate in various parks, recreation and cultural programs offered by the City and Community Associations and Societies. Since the expanded program's implementation in the fall of 2018, program participation continued to increase and despite the impacts of the COVID-19 pandemic, the 2020–21 program year saw more than 1,200 RFSP clients participate in 1,100 registered programs and use their Active Passes more than 25,700 times for drop-in activities such as swimming, fitness and skating.

Minoru Centre for Active Living, a state-of-the-art facility conveniently located in Richmond's city centre, opened to the public offering recreation and wellness opportunities for all ages. The spacious and accessible facility includes a Seniors Centre, Aquatic Centre, Fitness Centre, and Event Centre. Throughout 2021 as COVID-19 restrictions were eased and lifted, the centre became a hub for wellness and physical activity in Richmond. For example:

- Over 400,000 participants attended the centre for swimming or fitness;
- Over 18,000 participants engaged in registered programs; and
- Over 1,100 facility pass memberships for the Seniors Centre were active by the end of the year.

The 2016–2026 Major Facilities Priority Projects continued to progress through the design and development process. For example:

- Bowling Green Community Activity Centre: A new, 4,900 sq. ft. multi-purpose facility is envisioned to replace the Lawn Bowling Clubhouse that will support a wide range of programs and activities including community meetings, special events and sport hosting. The detailed design phase was completed in 2021.
- Steveston Community Centre and Branch Library Replacement: Following approval of the site and concept design, the project moved forward to the detailed design phase. Construction of the 60,350

4. An Active and Thriving Richmond

square foot facility is anticipated to be complete in 2026. This facility will meet the health and wellness needs of the community for generations to come.

- Capstan Community Centre: Following approval of the program for the two-story, 33,000 square foot community centre, the project is in the detailed design phase. Planned for the second phase of the YuanHeng Development as a developer amenity contribution, the facility will include a large gymnasium, an indoor activity track, studios and spaces for arts and creative pursuits, and a children's exploratorium, enhancing community health and well-being and opportunities to develop social connections.

The City acquired Richmond Ice Centre in 2019 and the Richmond Curling Club facility in 2021. Replacement of the ammonia ice plant at the Curling Club, which will improve energy efficiency and public safety, was completed in February 2022. The facility is scheduled to reopen for the 2022/23 curling season.

Two of the first Early Childhood Development (ECD) Hubs, secured through community amenity contributions, were transferred to the City in 2021. These ECD Hubs are the

City's 11th and 12th City-owned, purpose built child care facilities and will provide Richmond families with support services, community programming, and access to 199 new licensed child care spaces.

A number of sports facilities and amenities were improved, including the Hugh Boyd Park Artificial Turf, Clement Track in Minoru, the Minoru Park and King George Park tennis courts, the McNair and London-Steveston sand fields, and the Richmond Olympic Oval's climbing wall.

The Minoru Lakes Renewal project began construction to improve their function, environmental benefits and reduce maintenance requirements. Part of the Minoru Park Vision Plan, the Minoru Park Lakes District serves as a place for individuals to connect with nature, be close to the water's edge, and seek respite from the surrounding city centre.

In February 2021, library late fines were permanently removed to ensure services and resources remain accessible for everyone in the community, regardless of circumstance. Library fines created a barrier for many and represented only 1% of the library's operating budget.

4. Encouraging An Active and Thriving Richmond During the COVID-19 Pandemic

In response to the COVID-19 pandemic, a number of new programs, services and initiatives were launched in a variety of formats to help the Richmond community remain active, connected and thriving. Some examples include the creation of the Richmond Connects online hub (www.richmond.ca/connect) to help community members stay connected and active during the temporary facility and amenity closures; the Meals to Go program at the Seniors Centre at Minoru Centre for Active Living which provided healthy and affordable meal options; the launch of support services to reach vulnerable seniors; the continuation of the library Home Services Delivery program; and the introduction of library Curbside Holds Pickup service for customers to safely pick up their holds.

Richmond's interactive, live-streamed fitness classes prioritized quality, safety and excellence in the new virtual format. Fitness instructors continued to monitor

all participants on-screen and provide specific feedback on form and posture, respond to questions about the exercises, and offer alternate movements to tailor the experience for varying skill levels or health situations. In 2021, the City was invited by the BC Recreation and Parks Association (BCRPA) to present to colleagues across the province on the best practices developed in delivering safe and engaging virtual fitness programming.

The Richmond Olympic Oval launched a new enhanced fitness program in June 2019, called OVALfit ATHLETIC. This contributed to record group fitness class attendance prior to the COVID-19 pandemic. In 2020, OVALfit at Home was launched to provide on-going programs and services during the COVID-19 pandemic, and by 2021 the program had a library of over 110 professional quality workouts with enhanced video and audio quality.

5. Sound Financial Management

2018–2022 Highlights



The City's accountable, transparent, and responsible financial management supports the needs of the community into the future.

The City maintained a solid financial position with cash and investment balances of \$1.3 billion and an accumulated surplus that reached \$3.5 billion in 2021. The City's investment portfolio is diversified in a safe manner while earning a reasonable return.

From 2019–2021, over 80 transactions involving real estate acquisitions and leasing were completed involving over \$65 million of land and buildings, as well as over 1.4 million square feet of commercial and industrial space. These acquisition and dispositions support the City's strategic planning and positioning for the future in regards to land and real estate.

Development Cost Charges (DCC) are collected on new developments to ensure required infrastructure is funded to support population growth. From 2019–May, 2022, the City collected \$110.6 million in DCC. A Major Development Cost Charges Update is also underway to ensure that infrastructure is constructed on a timely basis and the costs that are attributable to growth are paid by development in a fair and equitable manner.

The City and Metro Vancouver strongly endorsed a new eight lane immersed tube tunnel (ITT) for the George Massey Crossing, with multi-use pathways and two transit lanes as the preferred option. The provincial announcement of the new ITT took place at Richmond's City Hall with Mayor Malcolm Brodie and a number of stakeholders present, including Musqueam First Nation's Chief Wayne Sparrow, Tsawwassen First Nation's Chief Ken Baird, and the City of Delta's Mayor George Harvie. The provincial government also announced Hwy 99 corridor improvements, including the Bridgeport Road bus only southbound on-ramp and the Steveston Interchange Project.

Council has been a strong advocate for a new Acute Care Tower at Richmond Hospital. In July 2021, the provincial government announced that it will move ahead with an approved business plan for the expansion. Construction will begin in 2022 and is anticipated to be completed by 2029 with a cost of approximately \$860.8 million shared by the provincial government and the Richmond Hospital Foundation.

5. Sound Financial Management

Richmond was the recipient of almost \$20.3 million in 2019–2022 in external agency cost-share funding, which offsets City funding, including:

- TransLink: \$19 million for projects to improve bus speed and reliability and active transportation projects.
- ICBC: \$695,000 for projects to improve road safety.
- Transport Canada: \$547,200 towards a new road-rail warning system at Williams Road and Shell Road.

Through various levels of government and key stakeholders, Richmond was awarded approximately \$25 million in grants and funding over this term.

Council endorsed changes to the City's Procurement Policy to integrate circular economic practices into the procurement process. This supports best practices as part of a wider organizational commitment that intends to advance circular economy principles while maximizing value for money through procurement activities.

5. Continuing Sound Financial Management During the COVID-19 Pandemic

At the onset of the COVID-19 pandemic, the City established a Financial Resiliency Plan to reduce, eliminate, and defer expenses, as well as reduce the tax burden on residents and businesses. Examples of the decisions made to mitigate impacts include:

- Increased the City's line of credit to provide an additional option for cash flow in case needed.
- Halted discretionary spending.
- Implemented a system to track all pandemic-related costs in order to claim back funds wherever possible.
- Digitized services and functions such as invoice approvals and the procurement process.
- Deferred large remittances to other agencies.
- Continued the capital program where advantageous in order to leverage pricing incentives.
- Continued to support the City's grants program through responsible and prudent financial management despite the significant reduction in gaming revenue.

- Savings and efficiencies realized from flexible and remote work arrangements while continuing with service delivery.

In addition, a number of measures were put in place to support the community while remaining in alignment with the City's sound financial practices:

- Reduced the 2020 property tax increase by 2.01%.
- Delayed the property tax penalty date to September 30, 2020.
- Withheld the enforcement and collection of unpaid business licenses.
- Established a rent relief program for City-owned facilities with minimal tenant loss and interruption to the City's rental revenue.
- Deferred flat-rate and quarterly metered utility bill deadlines.

6. Strategic and Well-Planned Growth

2018–2022 Highlights



The City demonstrates leadership in effective and sustainable growth that supports Richmond's physical and social needs.

Through the City's Servicing Agreement process, approximately \$74 million of improvements to City infrastructure and off-site works were secured through new development from 2019– May, 2022. For example, during that period, approximately 8.6 km of watermains, 2.7 km of sanitary sewer main and 5.9 km of storm sewer main were constructed or upgraded through new developments.

Building in Richmond reached a construction value of \$719 million in 2021. By administering the Building Regulation Bylaw and working closely with industry, the City ensures that the resulting spaces are safe and meet all applicable codes, standards, regulations, and planning objectives.

In November 2021, Council approved an increase to the Low End Market Rental (LEMR) contribution rate from 10% to 15% for developments with more than 60 units located within the City Centre Area Plan. From 2019–2021, the LEMR program secured an additional 328 units for Richmond residents. In addition, the City secured over \$3.9 million towards affordable housing in

cash-in-lieu contributions through new development from 2019–2021, which will be used to support affordable housing developments in the future.

In September 2019, Council adopted the Richmond Homelessness Strategy 2019–2029 to guide community actions for homelessness service provision over 10 years. The recommended actions are informed by the principles of collaboration, partnership-building, and shared funding responsibility.

Richmond's first modular supportive housing, located on Alderbridge Way, opened in 2019 and Richmond's new emergency shelter located on Horseshoe Way opened the same year. In 2021, construction began on the Bridgeport Supportive Housing development.

Council endorsed the Master Land Use Plan for Lansdowne Centre, which will introduce 10 acres of City-owned park, more than 2 acres of additional secured public open space and greenlinks, improved cycling infrastructure, on-site mobility hubs, engineering servicing improvements and

6. Strategic and Well-Planned Growth

new infrastructure, new roads, an on-site low carbon district energy system, and an obligation to construct more than 53,000 sq. ft. of City-owned community amenity space, or provide an equivalent cash contribution.

The City continues to administer the BC Energy Step Code which requires new construction to achieve enhanced levels of energy efficiency. In 2021, Council adopted a suite of incentives including associated zoning bylaw amendments that provide incentives to encourage the construction of new single-family and duplex dwellings that meet Passive House Certification and the top levels of the Step Code. In addition, the Building Regulation Bylaw amendment introduced a 'two-option' approach for ESC compliance, where applicants can receive a one-step relaxation in Bylaw requirements by incorporating a low-carbon energy system into their project.

Lulu Island Energy Company (LIEC)'s Alexandra District Energy Utility (ADEU) and the Oval Village District Energy Utility (OVDEU) continued to expand and provide affordable, low carbon energy to new customers. A \$6.2 million grant received from the CleanBC Communities Fund helped expedite the design and construction of the OVDEU's permanent energy centre. Once completed, the OVDEU will be able to produce up to 80% of low-carbon energy from the Gilbert Trunk sanitary force main sewer.

Working in close collaboration with TransLink, the City supported the new Capstan Canada Line Station project which moved forward into construction. In addition, a new, 10-bay, off-street bus exchange opened in November 2020 south of the Richmond-Brighouse Canada Line Station.

Several improvements were made to active transportation networks and road safety systems, including the opening of the new River Parkway, installation of Multi-Use Pathways (MUP) in primarily industrial, commercial and mixed use areas increase, and development of new bike routes using local streets and off-street pathways.

Council endorsed a major expansion of the public EV charging network, combining the City's annual Gas Tax Provision with \$440,000 in funding from Natural Resources Canada's Zero Emission Vehicle Infrastructure Program. Richmond has 46 existing public EV charging ports, including 24 that meet wheelchair accessible standards, with an additional 10 charging ports planned for future expansion.

Council endorsed a new master plan for London Farm, as well as the Steveston Heritage Interpretive Framework. In addition, the City received three grants totaling approximately \$270,000 from the federal Department of Canadian Heritage to support the operations of the Richmond Museum and Steveston heritage sites.



London Farm

7. A Supported Economic Sector

2018–2022 Highlights



The City facilitates diversified economic growth through innovative and sustainable policies, practices and partnerships.

A series of bylaw and policy changes were adopted by Council in 2021 to encourage more intensive utilization of existing industrial land. The benefits of the Industrial Lands Intensification Initiative include:

- Allowing increased industrial building and business activity on the existing land base;
- Reducing barriers to future multi-level industrial developments through the consideration of increasing the floor area ratio on sites with adequate transportation and servicing infrastructure; and
- Reducing the pressure to convert agricultural lands to industrial use.

The City partnered with the City of Surrey, Township of Langley and the BC Tech Association to deliver a provincially funded \$400,000 Supply Chain Resiliency Program to track and enhance the capabilities of the region's manufacturing businesses. As part of this program, a De-risking Emerging Market Opportunities (DEMO) toolkit was created to support future business pivots.

The introduction of ride-hailing legislation in 2019 resulted in local governments implementing an inter-municipal licencing program to regulate ride-hailing businesses in Metro Vancouver. Inter-municipal licencing allows businesses to apply for a business licence to operate in all participating municipalities with standardized regulations across the Lower Mainland.

Richmond continued to attract film productions of all sizes and scales. From 2019–2021, the City processed approximately 212 film permits with roughly \$1.6 million in service and location charges.

Council adopted the Farming First Strategy which includes policies and strategies that support the use of agricultural land for local food production, encourages a local food network to increase local food supply and consumption, encourages new investment in agriculture, and identifies opportunities to attract new farmers.

The City continues to work with KPU to support agriculture education. In 2020, the City entered into

7. A Supported Economic Sector

agreements with the KPU that enable components of the Richmond Farm School and the Department of Sustainable Agriculture and Food Systems' degree program on City-owned land.

The MyBusiness online business licence system will be launched in Q3 2022, streamlining the process for

customers with a self-service option that enables existing and new business owners with the convenience of submitting, updating, and renewing their licences online without having to visit City Hall. Council also endorsed a Permitting Optimization Project, which will optimize the development and building permitting process.

7. Supporting Richmond's Economic Sector During the COVID-19 Pandemic

In 2020, the City developed an Expedited Temporary Outdoor Patio program and online application process to allow restaurants, cafes and pubs to expand outdoor seating to private property, parking lots or approved space on City sidewalks with respect to patio layout guidelines. In 2021, nearly 70 businesses participated in the program which was extended until June 1, 2023. An ongoing patio program is now in development to build on the success of the temporary program. This was informed by a public survey that concluded in December 2021 and consultation with business groups and industry associations. The new program is expected to be opened to new applications in Spring 2022.

A Business Support Centre was activated to provide a centralized, virtual source of accurate and timely

information and resources for local businesses. The support centre provided information for businesses about programs and resources from all levels of government and other agencies as well as information on how to access City services for businesses.

The Richmond Business Resilience Program was launched in 2020, providing free training to help local entrepreneurs adapt their businesses so they can emerge from the crisis thriving and able to withstand future economic shocks. The program ended in December 2021 with a total of 111 users who accessed the services.



Kwantlen Polytechnic University Research and Teaching Farm at Garden City Lands

8. An Engaged and Informed Community

2018–2022 Highlights



The City ensures that the citizenry of Richmond is well-informed and engaged about City business and decision-making.

The City successfully planned and executed a legislatively compliant By-Election in 2021, with adherence to strict requirements to enable Richmond electors to safely vote due to the COVID-19 pandemic. Voters had a variety of options to cast their votes, including advanced polling with 10 different options, mail-in ballots, and in-person voting at 10 locations, with results viewable via Richmond Elections app. Approximately 13,000 ballots were cast.

The online Council Decisions Database launched in 2019 continued to provide valuable information for the public on voting records from open Council meetings and Public Hearings. The search feature provides easy access for users to conduct research on open Regular and Special Council meetings and Public Hearings dating back to 1998.

The City's social media accounts saw an increase in activity throughout the term. For example, by the end of 2021:

- The City's Facebook page reached over 12,200 followers, an increase of 23% from the previous year.
- The City's Instagram account reached 3,400 followers, a 47% increase from November 2020.

- The City's Twitter account reached over 8,800 followers, an 8% increase from the previous year, and resulted in over 4,500 clicks through to the City website.
- The City's YouTube channel reached 928 subscribers, a 50% increase from the previous year, and received over 69,000 views.

The Let's Talk Richmond online engagement platform provided community members a convenient opportunity to share their input on discussions that shape Richmond. From 2019–2021, the platform was used for 82 engagement projects. In 2021 there was a 44% increase in engagement projects from the previous year, over 35,630 users connected with the various online opportunities, and almost 15,380 surveys submitted. In 2021, the top five LetsTalkRichmond engagement projects for participation were:

- Food Trucks in Steveston;
- Cycling Network Plan Update (Phases 1 and 2);
- Patios on Public Space;

8. An Engaged and Informed Community

- Community Gardens; and
- Community Energy and Emissions Plan 2050.

Throughout the term, a number of other public engagement opportunities were offered. Some examples include:

- Youth Strategy 2022–2032;
- Seniors Strategy 2022–2032;
- Richmond RCMP Policing Priorities;
- Brazilian Elodea Management Program;
- Cultural Harmony Plan 2019–2029;
- Richmond Homelessness Strategy 2019–2029;
- Flood Protection Management Strategy and Dike Master Plan;
- Steveston Community Centre and Branch Library Concept Design and Character Design; and
- City Snapshots: Planning for Growth & Development.

From 2019–2022, a variety of workshops and events were undertaken to engage the community in more sustainable and circular economic practices, including recycling and waste reduction workshops, EV outreach events, repair events, and Recycling Depot tours.

Volunteering looked different this term due to the COVID-19 pandemic, but Richmond residents remained engaged and connected to their community while supporting a wide variety of programs and services. For example:

- In 2019, 1,819 volunteers contributed over 82,000 hours with the City and partner organizations; 239 RCMP volunteers contributed 21,327 volunteer hours; and 250 Green Ambassadors volunteered at 36 special events resulting in 81–94% diversion rates.
- In 2020, 841 volunteers contributed over 19,800 hours with 230 City and partner opportunities. These included a shopping program for isolated seniors, assistants for the Emergency Operations Centre program, and Spanish-speaking volunteers to assist with the temporary foreign workers program.
- In 2021, 593 volunteers contributed over 18,203 hours with 169 City and partner opportunities; 35 RCMP volunteers contributed 1,714 volunteer hours, including 162 hours of volunteer bike patrols; and Green Ambassadors volunteered an estimated 1,730 hours for 26 special events and other programs.
- In 2022, volunteer participation continued to trend upwards. In the first four months alone, 305 volunteers participated in 129 opportunities, contributing over 8,600 volunteer hours.

8. Maintaining an Engaged and Informed Community During the COVID-19 Pandemic

In response to the COVID-19 pandemic and guidelines on public gatherings and physical distancing, the City transitioned Committee, Council and Public Hearing Meetings to a virtual format, enabling Council members and staff to participate remotely in all meetings. All Open Committee, Council and Public Hearing meetings were also live-streamed using the City's YouTube channel, enabling the public to watch all meetings live from the comfort of their homes. Members of the public were also able to participate by phone, providing direct access to delegate at Council meetings through a remote option.

The City launched a dedicated section on the City website (www.richmond.ca/COVID-19) to update the community on news, decisions and status of programs,

facilities and services impacted by the pandemic. Information included:

- Up-to-date information about which facilities, amenities and services were open or closed to the public.
- News releases related to the COVID-19 pandemic, including announcements.
- Mayor Brodie's video statements.
- The Restoring Richmond Plan and related information, such as facility COVID-19 Safety Plans and mask requirements.
- Additional links to internal and external resources.

The web page was well utilized, with over 155,000 visits and 203,000 page views from March to December 2020.

Awards and Recognition

2018–2022 Highlights



2019

Canadian Association of Municipal Administrators: Environment Award for the District Energy Implementation Program

Association of Energy Engineers: Canada Region Energy Project of the Year Award for the Alexandra District Energy Utility Project

Government Finance Officers Association of the United States and Canada: Canadian Award for Financial Reporting and Outstanding Achievement in Popular Annual Financial Reporting Award for the 2017 Annual Report

Union of BC Municipalities: Community Excellence Award – Excellence in Governance for the 2017–2022 Richmond Child Care Needs Assessment and Strategy

BC Environmental Managers Association: Technological Innovation Award for the Simplified Non-Storm Water Discharge Management Program

Public Works Association of BC: Public Works Week Community Celebration Award for the Public Works Open House

Community Energy Association: Climate & Energy Action Award for the Electric Vehicle Infrastructure Zoning Bylaw Requirement

Homebuilders Association of Vancouver: Ovation Award for the Storeys Affordable Housing Project

Association of Consulting Engineering Companies BC: Award of Merit for the Britannia Shipyards National Historic Site Flood Protection Improvements Project

Firehouse Magazine: Station Design Awards Notable Design Mention for Brighthouse Fire Hall No. 1 and Cambie Fire Hall No. 3 and Ambulance Station No. 250

Canadian Alliance of Chinese Associations: Public Safety Contribution Award for Richmond Fire-Rescue

Government Fleet Magazine: Notable Fleets Certificate of Achievement for the City Fleet

2020

Canadian Association of Municipal Administrators: Professional Development Award for the Engineer-in-Training program

Government Finance Officers Association of the United States and Canada: Canadian Award for Financial Reporting and Outstanding Achievement in Popular Annual Financial Reporting Award for the 2018 Annual Report

The Energy Globe Foundation: Canadian Energy Globe National Award for the Alexandra District Energy Utility Smart Centres Expansion

International District Energy Association: 2020 IDEA Innovation Award for the Alexandra District Energy Utility Smart Centres Expansion

BC Recreation and Parks Association: Facility Excellence Award for the Edwardian Cottage at Terra Nova Rural Park

Institute of Transportation Engineers – Greater Vancouver Section: Mavis Johnson Road Safety Project of the Year Award for the Network Screening Study

Government Fleet Magazine: Notable Fleets Certificate of Achievement for the City Fleet

2021

Environmental Managers Association of BC: Regulatory Challenge Award for the Corporate Hazardous Materials Management Training Program

Environmental Managers Association of BC: Discharge Control Award for the Mitchell Island Environmental Stewardship Initiative

International Olympic Committee, International Paralympic Committee, and International Association for Sports and Leisure Facilities: Architecture Prize for Accessibility for the Minoru Centre for Active Living

Community Energy Association: Climate & Energy Action Award for the District Energy Utility Program

Global District Energy Climate Awards: Award of Excellence, Emerging DHC Markets for the Alexandra District Energy Utility Project

Union of British Columbia Municipalities: Community Excellence Awards – Excellence in Service Delivery for the Richmond Recycling Depot Upgrade Project

British Columbia Economic Development Association: Community Project Award for the Richmond Food Recovery Network

Government Fleet Magazine: Notable Fleets Certificate of Achievement for the City Fleet

2022

Government Finance Officers Association of the United States and Canada: Canadian Award for Financial Reporting and Outstanding Achievement in Popular Annual Financial Reporting Award for the 2020 Annual Report

Recreation Facility Association of BC: Bill Woycik Outstanding Facility Award for the Minoru Centre for Active Living

Canadian Association of Municipal Administrators: Environmental Leadership & Sustainability Award for the City-Wide Pollinator Program



City of Richmond

6911 No. 3 Road, Richmond, BC V6Y 2C1

Telephone: 604-276-4000

www.richmond.ca



City of Richmond

Report to Committee

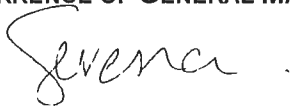


To: General Purposes Committee **Date:** May 25, 2022
From: Jason Kita **File:** 01-0103-01/2022-Vol
Director, Intergovernmental Relations and 01
Corporate and Strategic Planning
Re: **Proposed New Federal Electoral District Boundaries - Richmond**

Staff Recommendation

That the information outlined in the report titled "Proposed New Federal Electoral District Boundaries – Richmond" dated May 25, 2022, from the Director, Intergovernmental Relations and Corporate and Strategic Planning, be received for information.

Jason Kita
Director, Intergovernmental Relations and Corporate and Strategic Planning
(604-276-4091)

Att. 5

REPORT CONCURRENCE		
ROUTED TO:	CONCURRENCE	CONCURRENCE OF GENERAL MANAGER
Policy Planning	<input checked="" type="checkbox"/>	
SENIOR STAFF REPORT REVIEW	INITIALS: 	APPROVED BY CAO 

Staff Report

Origin

At the General Purposes Committee meeting on May 16, 2022, the following referral motion was carried:

That staff take a look at the proposed changes to British Columbia's federal electoral district boundaries with respect to Steveston-Richmond East, and provide comments.

This report supports Council's Strategic Plan 2018-2022 Strategy #5 Sound Financial Management:

5.4 Work cooperatively and respectfully with all levels of government and stakeholders while advocating for the best interests of Richmond.

This report is in response to the above referral motion.

Analysis

Background

The Constitution of Canada requires that federal electoral districts be reviewed after each decennial (10-year) census to reflect changes and movements in Canada's population. The current federal redistribution process began in October 2021 and is led by independent commissions working separately in each province to establish electoral boundaries. The Chief Electoral Officer is tasked with applying the representation formula found in the Constitution to determine the new allocation of seats. A representation order describing and naming Canada's future electoral districts is expected to be completed in September 2023. Changes to electoral districts will be applied in the first general election called at least seven months after the representation order is proclaimed and it is anticipated that these changes will not come into effect until April 1, 2024, at the earliest.

Proposed Changes for British Columbia

The 2022 Federal Electoral Boundaries Commission for the Province of British Columbia (Commission) was established as an independent commission on November 1, 2021, pursuant to the *Electoral Boundaries Readjustment Act* to reconfigure the boundaries of British Columbia's electoral districts for the election of members of Parliament. The increase in electoral districts by one from 42 to 43 is the result of increased population in the Province. The 2021 decennial census reports an increase of about 600,000 residents to a current population of 5,000,879. On the basis of 43 electoral districts, this translates into about 116,300 people per electoral district. This number is called the electoral quota.

The census information received in February 2022 records significant, but uneven, population growth in the Province. In some electoral districts, population has grown dramatically. In others, including some in the Lower Mainland, population has grown at a slower pace. Some of the fastest growing districts are ones that, even in 2012, were at the higher end of variance from the

electoral quota, a feature compounding the effect of the last 10 years' population growth. An established pattern of rapid growth between the North Shore and the Fraser Valley has continued. Population growth on Vancouver Island is concentrated in the southern portions and Nanaimo. Electoral districts in the Southern Interior, already on the high end, have experienced significant population growth.

Proposed Changes for Richmond

In the 2012 redistribution of electoral districts, Richmond was divided into the following two districts:

1. Richmond East (currently known as Steveston-Richmond East) – population 102,230 according to 2021 Census of Population.
2. Richmond West (currently known as Richmond Centre) – population 107,707 according to 2021 Census of Population.

With new growth in the region and to allow for Richmond to achieve the electoral quota of 116,300 people, a reconfiguration is being proposed for the two Richmond electoral districts. Please see **Attachment 1** for maps of the current Steveston-Richmond East electoral district and the proposed Richmond East electoral district and **Attachment 2** for maps of the current Richmond Centre electoral district and the proposed Richmond West electoral district. Under the previous 2012 redistribution of electoral districts, both Richmond districts would remain under quota, thus the reason for the proposed changes.

In order to achieve the electoral quota, the population of the new proposed electoral districts in Richmond are:

1. Richmond East (currently known as Steveston-Richmond East) – population 116,764
 - Key changes: elimination of the Steveston area, incorporation of areas in Delta (Tilbury, Annacis Island, Nordel, and area north of 72 Avenue west of 112 Street), and incorporation of areas in New Westminster located on Lulu Island.
2. Richmond West (currently known as Richmond Centre) – population 119,857
 - Key changes: incorporation of the Steveston area.

Considerations for Proposed Richmond East Electoral District

There are potential impacts and considerations for the proposed Richmond East electoral district and include, but are not limited to:

- Adding other municipalities to the Richmond East electoral district (City of Delta and City of New Westminster) may dilute the voice of Richmond residents on federal issues.
- Cities have different issues and priorities and these may not be addressed by a single Richmond East representative.
- This situation may be confusing for Richmond East voters. Richmond-specific electoral districts could promote consistent and focused federal representation on the wide variety of issues that affect the municipality.
- Adding smaller areas of other municipalities could introduce other goals and priorities that may not be relevant for Richmond.

- The electoral quota is 116,300 but there are several proposed electoral districts under the 116,300 population quota across B.C. (16 out of 43 electoral districts). Please see **Attachment 3** for a list of proposed electoral districts for B.C. and their 2021 population.
- At its meeting on May 16, 2022, the City of Delta Council passed a motion to express Delta's opposition to the proposed changes to Delta's electoral boundary and request that Delta remain as a single electoral district.

Alternative Proposed Option

Populations for the electoral districts are taken from the most recent census data (in this case, 2021 Census of Population) which determines population during a single point in time. Inevitably, some people are not counted for various reasons (their household did not receive a census questionnaire, they were not included in the questionnaire completed for the household, they may have been missed because they have no usual residence, etc.). To determine how many individuals were missed, Statistics Canada conducts postcensal coverage studies of a representative sample of individuals. Results of these studies in combination with the census counts are used to produce population estimates which take into account net undercoverage. Postcensal coverage study results are usually available two years after enumeration date. These will be used to revise and update the population estimates based on the 2021 Census results.

In past years, this net undercoverage ranges from 1% up to 5% in the Metro Vancouver region. Taking a conservative approach and factoring an undercoverage of 2.5% for the 2021 Census data, Richmond's total population would increase to 215,320. In addition to the undercoverage, Richmond is estimated to grow by 8.0% over the next five years, bringing Richmond's total population to 232,545. This total population estimation will occur very close to when any changes to the electoral boundaries will take place.

An alternative option in keeping Richmond as two distinct Richmond-only electoral districts is to take into consideration the conservative estimated undercoverage (2.5%) along with the estimated growth (8.0%). **Attachment 4** shows a map and population of the current electoral districts with 2021 Census data. **Attachment 5** shows a map and population of alternative electoral districts moving a small area of West Cambie from Richmond Centre to Steveston-Richmond East in order to balance the population of the two electoral districts. This map also shows the population in 2026 with the Census undercoverage and estimated growth added. Each electoral district is in-line with the electoral quota.

This option can be proposed to the Commission as an alternative.

Key Stakeholders

Affected neighbouring municipalities include City of Delta and City of New Westminster. The alternative option outlined above allows the City of Delta to add 15,701 back to their electoral quota and the City of New Westminster to add 10,983 back to their electoral quota.

Timeline

The main steps in the redistribution of federal electoral districts, as set out in the *Electoral Boundaries Readjustment Act*, are outlined in below. They are currently in Step 5 – Public Hearings from May to October 2022.

Steps	Expected Timeline
1. Allocation of seats	Mid-October 2021
2. Establishment of commissions	November 1, 2021
3. Publication of census data	Mid-February 2022
4. Publication of commission proposals	April-August 2022
5. Public hearings	May-October 2022
6. Completion of the report	November-December 2022
7. Objections from MPs	March-May 2023
8. Commissions consider objections	May-June 2023
9. Representation order	September 2023
10. Boundaries established	April 2024

← They are here

Public Engagement

The Commission is required by the Act to hold sittings to hear comments and feedback by interested parties about the recommended changes to the boundaries of electoral districts. The Commission is scheduled to sit in Richmond at the Richmond Olympic Oval on Monday, September 12, 2022 at 7:00pm.

In addition, the Commission is accepting written comments until October 3, 2022.

The Federal Electoral Districts Redistribution 2022 website contains information on all the proposed new electoral districts and can be found at:

https://redcoupage-redistribution-2022.ca/index_e.aspx

Actions for Council's Consideration

Any or all of the following could be actions considered by Council:

- A letter be sent to the 2022 Federal Electoral Boundaries Commission for the Province of British Columbia to express Richmond's opposition to the proposed changes to Richmond's electoral boundaries for Richmond East and Richmond West;
- The City of Richmond be represented at the Public Hearing on September 12, 2022 in Richmond and speak in opposition to the proposed changes; and/or
- A letter be sent to Richmond Members of Parliament stating Richmond's opposition to the proposed changes.

Financial Impact

None.

Conclusion

Should the proposed changes to Richmond's Federal Electoral Boundaries be approved, Steveston-Richmond East would become Richmond East and include areas of Delta and New Westminster as part of the new electoral district. If Council chooses, opposition to the proposed changes can be communicated to the Commission in writing and through the Public Hearing process.



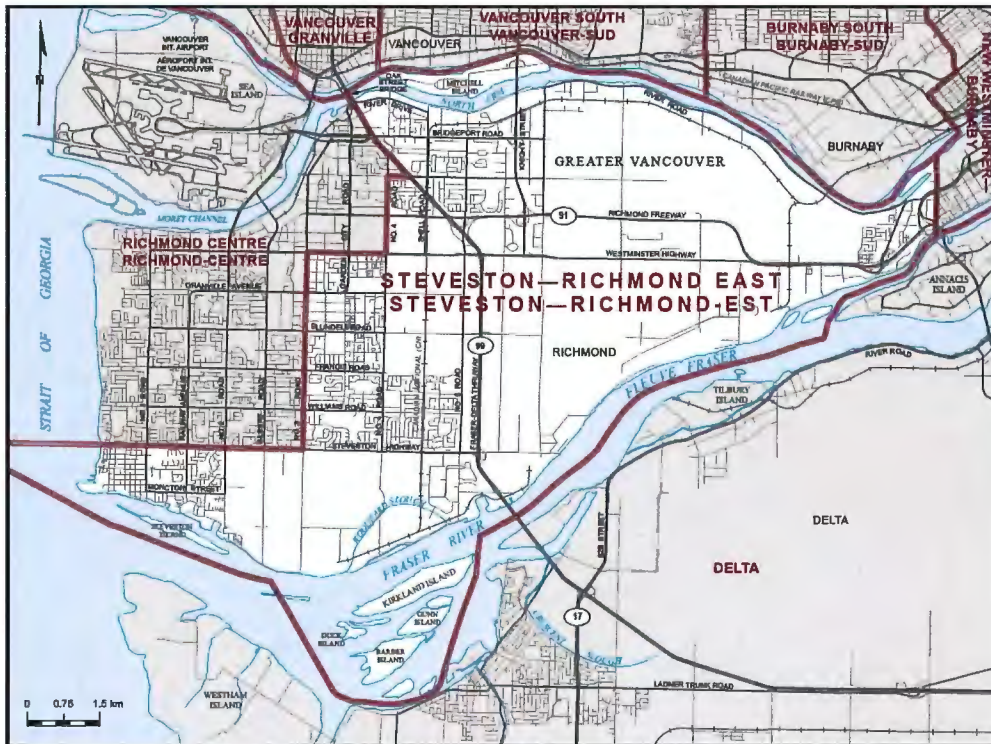
Jason Kita

Director, Intergovernmental Relations and Corporate and Strategic Planning
(604-276-4091)

- Att. 1: Current Steveston-Richmond East Electoral District Map and the Proposed Richmond East Electoral District Map
- 2: Current Richmond Centre Electoral District Map and the Proposed Richmond West Electoral District Map
- 3: Proposed Electoral Districts for B.C. and Populations
- 4: Current Electoral District Map with 2021 Census Population
- 5: Alternative Electoral District Map with 2021 Census Population and 2026 Population Estimate

Richmond Electoral Districts Current and Proposed

Steveston-Richmond East (current)

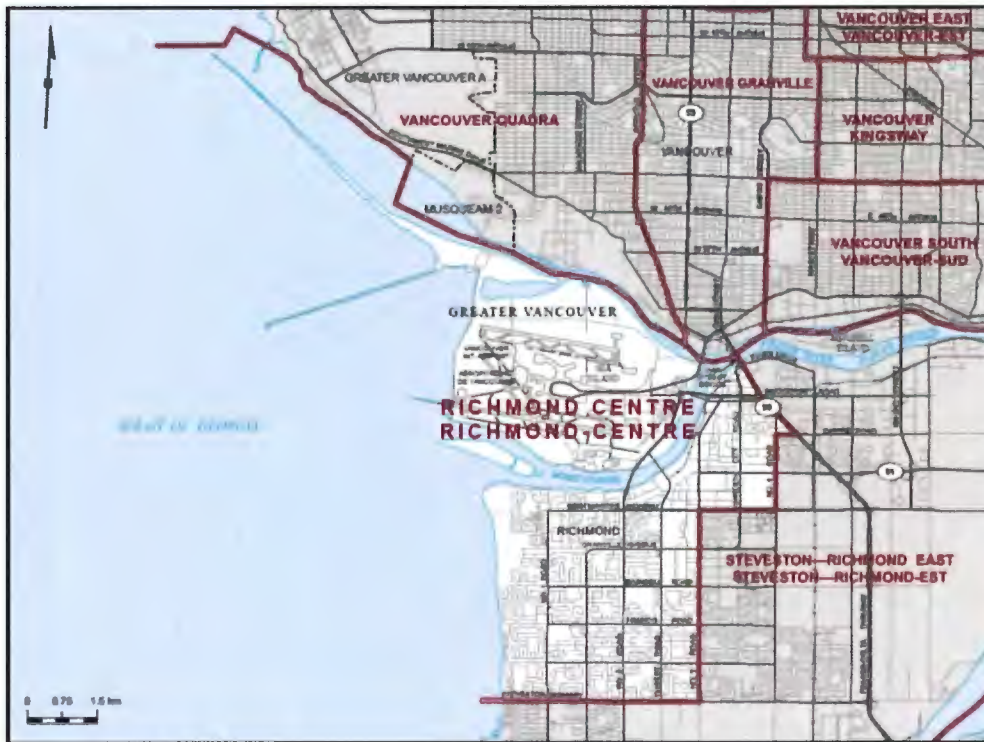


Richmond East (proposed)

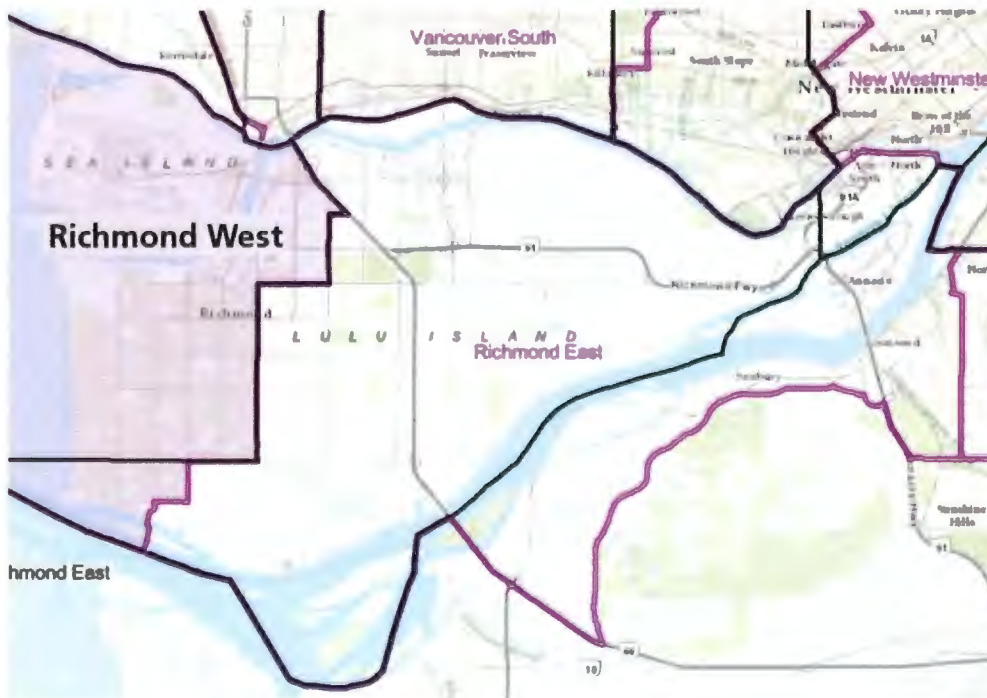


Richmond Electoral Districts Current and Proposed

Richmond Centre (current)



Richmond West (proposed)



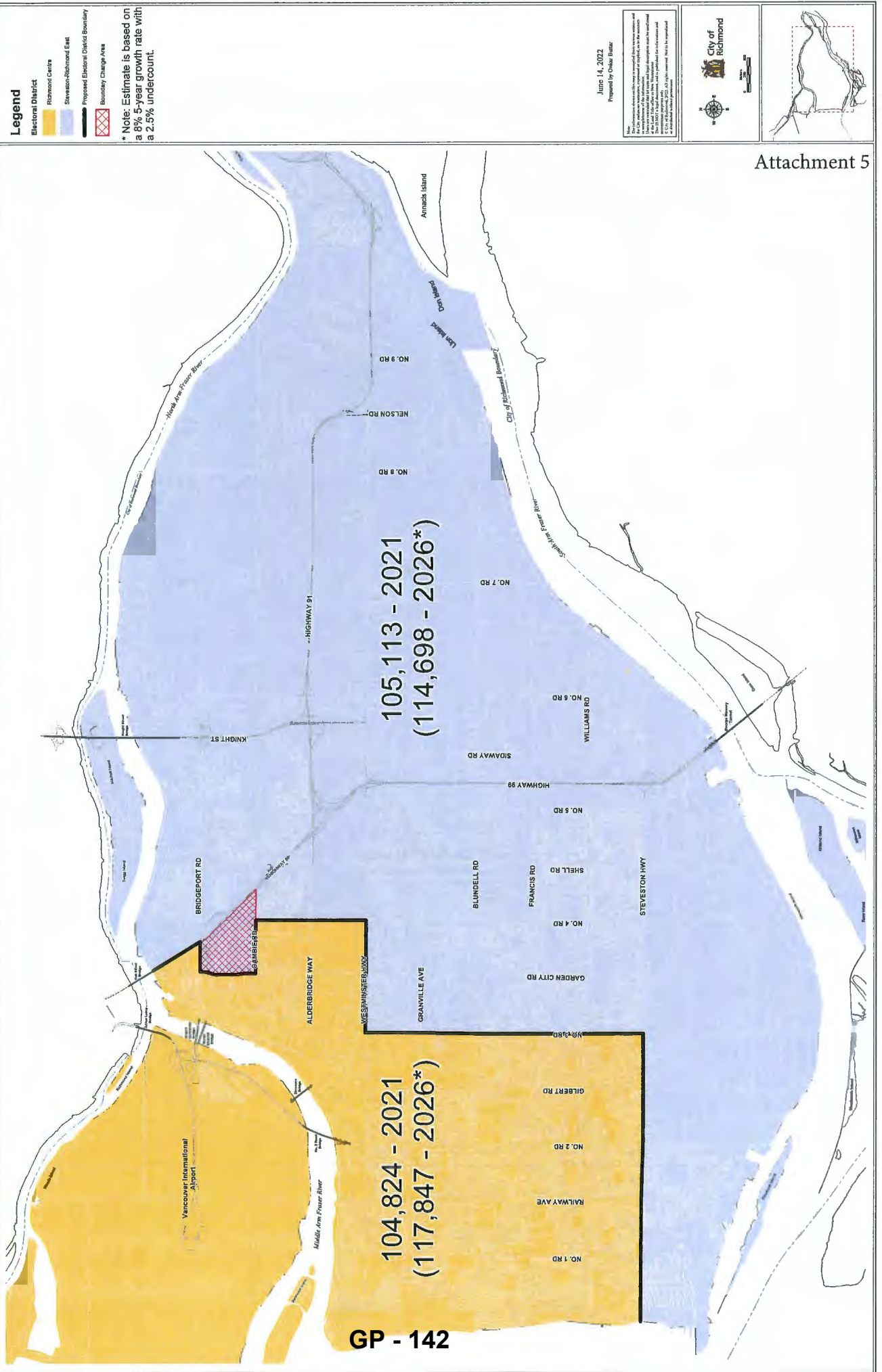
Proposed Electoral Districts for B.C. and Populations

PROPOSED ELECTORAL DISTRICT NAME (CURRENT NAME)	POPULATION
Abbotsford	117,561
Burnaby North--Seymour	116,426
Burnaby South	116,391
Cariboo—Prince George	117,160
Coquihalla (Central Okanagan—Similkameen—Nicola)	110,776
Chilliwack (Chilliwack—Hope)	116,113
Cloverdale—Langley City	118,518
Coquitlam—Port Coquitlam	115,171
Courtenay—Alberni	123,827
Cowichan—Malahat—Langford	123,679
Delta	117,020
Esquimalt—Saanich—Sooke	120,606
Fleetwood—Port Kells	116,776
Kamloops—Thompson—Lytton (Kamloops—Thompson—Cariboo)	115,087
Kelowna (Kelowna—Lake Country)	109,006
Kootenay—Columbia	111,821
Langley—Aldergrove	117,066
Mission—Maple Ridge (Mission--Matsqui--Fraser Canyon)	117,220
Nanaimo—Ladysmith	121,493
New Westminster—Bridgeview (New Westminster—Burnaby)	118,377
North Island—Powell River	126,130
North Okanagan—Shuswap	109,966
North Vancouver	114,310
Pitt Meadows—Fort Langley (Pitt Meadows—Maple Ridge)	116,538
Port Moody—Coquitlam	116,470
Prince George—Peace River—Northern Rockies	116,962
Richmond West (Richmond Centre)	119,857
Saanich—Gulf Islands	122,147
Skeena—Bulkley Valley	89,689
South Okanagan—West Kootenay	108,973
South Surrey—White Rock	115,956
Richmond East (Steveston—Richmond East)	116,764
Surrey West (Surrey—Newton)	115,780
Surrey Centre	117,715
Vancouver Centre	115,964
Vancouver East	115,759
Vancouver Granville	117,201
Vancouver Kingsway	117,209
Vancouver Quadra	115,873
Vancouver South	117,680
Victoria	123,482
West Vancouver—Sunshine Coast—Sea to Sky (West Vancouver—Sunshine Coast—Sea to Sky Country)	119,155
Vernon—Lake Country	111,205
TOTAL POPULATION	5,000,879





Richmond Proposed Federal Electoral Districts With 2021 Census Population and 2026 Population Estimate





City of Richmond

Report to Committee

To: General Purposes Committee
From: Lloyd Bie, P.Eng.
Director, Transportation
Re: Highway 99 Tunnel Program - Update

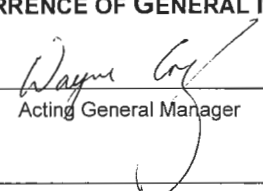
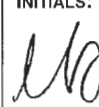
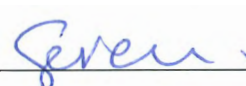
Date: June 21, 2022
File: 10-6350-06-03/2022-
Vol 01

Staff Recommendation

That the report titled "Highway 99 Tunnel Program - Update" dated June 21, 2022, from the Director, Transportation be received for information.

Lloyd Bie, P.Eng.
Director, Transportation
(604-276-4131)

Att. 3

REPORT CONCURRENCE		
ROUTED TO:	CONCURRENCE	CONCURRENCE OF GENERAL MANAGER
Parks Services	<input checked="" type="checkbox"/>	 Acting General Manager
Engineering	<input checked="" type="checkbox"/>	
Sustainability & District Energy	<input checked="" type="checkbox"/>	
SENIOR STAFF REPORT REVIEW	INITIALS: 	APPROVED BY CAO 

Staff Report

Origin

This report provides an update on the provincial Highway 99 Tunnel Program including staff's comments on the Initial Project Description of the Fraser River Tunnel Project for the Early Engagement phase of the Environmental Assessment process.

This report supports Council's Strategic Plan 2018-2022 Strategy #5 Sound Financial Management:

Accountable, transparent, and responsible financial management that supports the needs of the community into the future.

5.4 Work cooperatively and respectfully with all levels of government and stakeholders while advocating for the best interests of Richmond.

This report supports Council's Strategic Plan 2018-2022 Strategy #6 Strategic and Well-Planned Growth:

Leadership in effective and sustainable growth that supports Richmond's physical and social needs.

6.3 Build on transportation and active mobility networks.

Analysis

Recent activities for the five projects comprising the provincial Highway 99 Tunnel Program are summarized below.

Fraser River Tunnel Project

The George Massey Tunnel will be replaced with a new eight-lane immersed tube tunnel (ITT) that includes two dedicated transit lanes and a separate multi-use path (Figure 1).



Figure 1: Rendering of Fraser River Tunnel Project

The project scope includes the removal of the existing tunnel, replacement of the road and rail overpasses on Rice Mill Road, and replacement of the Deas Slough Bridge (Attachment 1). The project is planned to be operational in 2030 (Figure 2).

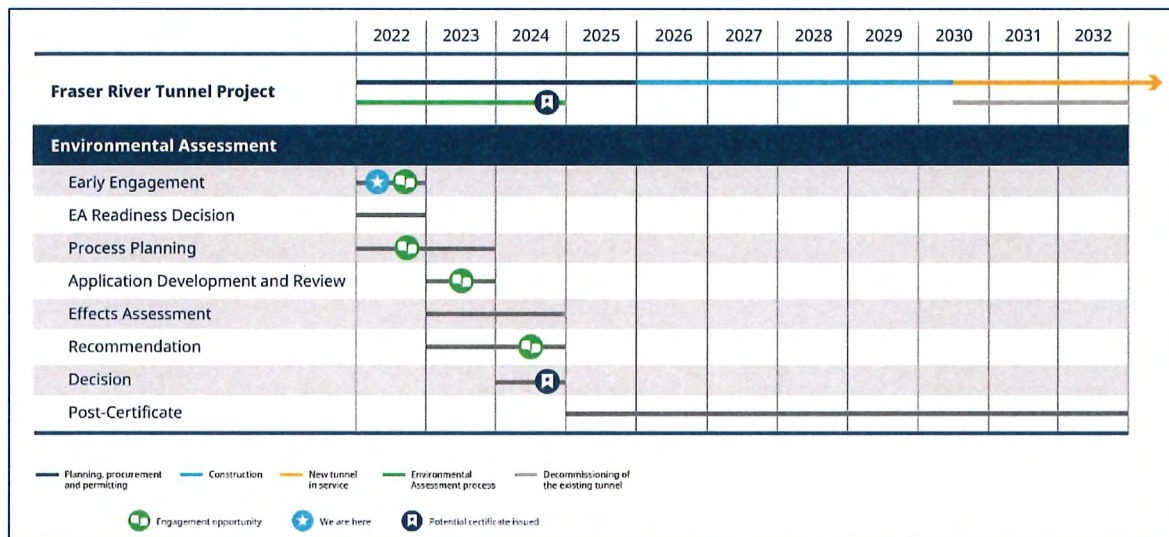


Figure 2: Planning and Delivery Timeline for Fraser River Tunnel Project

In February 2022, nine contracts were awarded for technical and engineering expertise to support the Province's delivery of the project. On May 13, 2022, the Province submitted an application to the federal Minister of Transport pursuant to the federal Canadian Navigable Waters Act for approval of investigatory geotechnical testing and dredging works related to the project (Attachment 2). Geotechnical investigations including subsequent monitoring are proposed to occur across the full width of the Fraser River at the proposed new alignment. Pending approval, activities are expected to start in August 2022 and be complete in February 2023.

Staff meet regularly with the Project Team and will continue to review and provide comments as the development of the design progresses.

Environmental Assessment Process for Fraser River Tunnel Project

As construction of the new ITT and removal of the existing tunnel is expected to cause direct physical disturbance of more than two hectares of foreshore and/or submerged land below the natural boundary of the Fraser River, the project triggers an environmental review under the BC Environmental Assessment Act as a shoreline modification project.

There are eight phases in the revitalized Environmental Assessment (EA) process, which was updated in 2018 (Figure 3). Under the new process, the BC Environmental Assessment Office (BCEAO) will hold two additional public engagement periods during an EA for a total of four, including a new Early Engagement phase that provides an opportunity for all EA participants to better understand the project and establish a foundation for the rest of the EA.

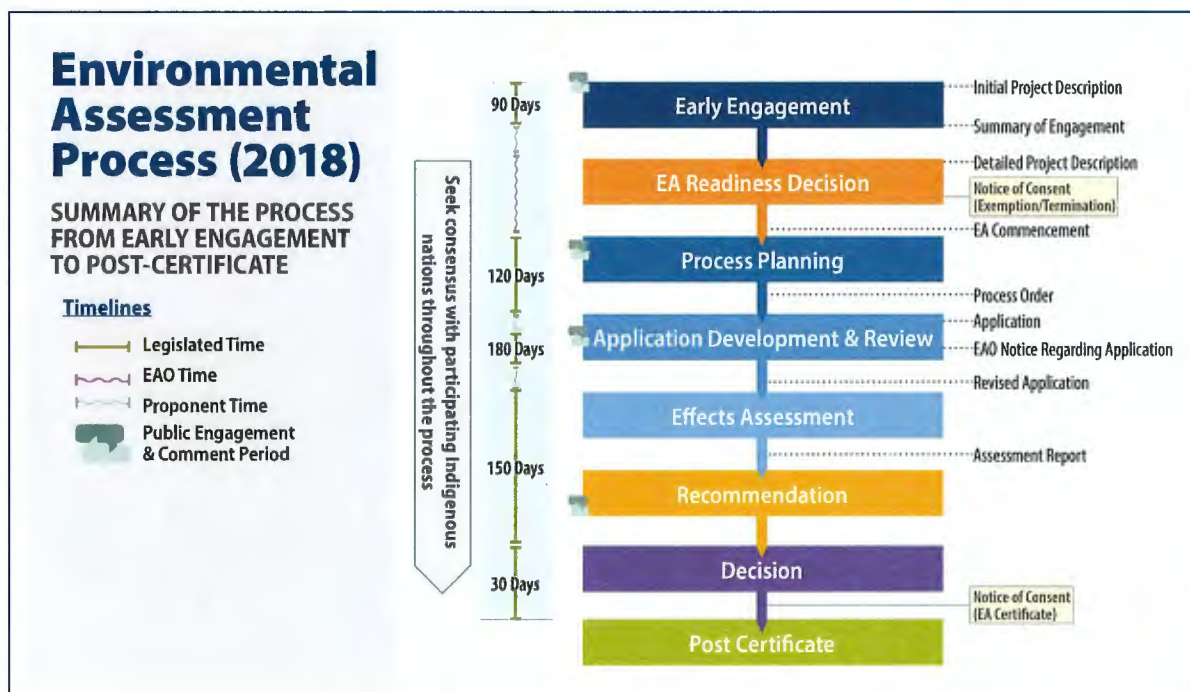


Figure 3: Environmental Assessment Process

Early Engagement Phase

In April 2022, the BC Environmental Assessment Office (BCEAO) approved an Initial Project Description (IPD) and Engagement Plan for the Fraser River Tunnel Project as proposed by the Ministry of Transportation and Infrastructure. At the request of the TI Corp Project Team, staff provided input into the development of both documents. The IPD is a high level description of the major components of the project, where they will be located and the anticipated interactions with the surrounding environment and existing human activities.

The acceptance of these documents starts the legislated 90 day Early Engagement phase prior to a potential EA process. Early Engagement is a preparatory phase where Indigenous nations, stakeholders and the public identify engagement approaches, potential interests, issues, and concerns about the project early in the EA process. The input will inform the development of the Detailed Project Description, which will be considered in the next phase of the EA process, the EA Readiness Decision phase. A Technical Advisory Committee (TAC) is also formed at the Early Engagement phase; staff are representing the City's interests and providing technical expertise at this forum.

Early Engagement includes the first public engagement and comment period, held April 25 to June 9, 2022, to obtain input on the IPD. Two in-person open houses were held: one in Delta (May 10th) and one in Richmond (May 11th) with the latter attended by staff. Staff also attended both virtual information sessions (May 17th and 19th). Overall, a variety of questions were asked regarding design features (e.g., height and depth of new tunnel) and potential construction impacts (e.g., noise related to the location of the temporary casting basin for the tunnel elements on Deas Island). An engagement summary including all comments received and TI Corp's responses will be posted on the BCEAO website following the end of the Early Engagement phase on July 11, 2022.

City Comments on Initial Project Description

The BCEAO requested that TAC members review the IPD and provide comments by June 3, 2022 on the following broad categories:

- Key issues and values to be considered in the environmental assessment
- Suggested design changes
- Missing project interactions
- Additional information required in the Detailed Project Description to inform the Readiness Decision

Staff prepared comments (Attachment 3) and submitted them to the BCEAO by the deadline. Key items identified include:

- The design of the new tunnel should not preclude the inclusion of BC Hydro infrastructure, as the City's strong preference is for the relocated infrastructure to be underground rather than overhead.
- Robust monitoring of the existing dikes should be conducted before, during and after all construction activities, particularly during ground improvement works.
- Decommissioning of the existing tunnel should include construction of a new dike at that location.
- Liquefaction and geotechnical analysis on the project impacts to the City's dike under current, seismic and future conditions should be conducted.

Next Steps

Should the EA Readiness Decision phase determine that the project will proceed to an EA process, there will be a further three engagement periods with opportunities to comment prior to a decision by the BCEAO regarding issuance of an EA Certificate. More detailed project information will be available during these phases, which in turn will allow for more informed comments by the City.

Steveston Interchange Project

The project scope involves replacement of the Steveston Interchange with a five-lane structure comprising two eastbound lanes and three westbound lanes, including a left-turn lane onto Highway 99, and sidewalks and separated bike lanes on both sides of the overpass. A contract was awarded in March 2022 with construction expected to begin in mid-2022 and scheduled completion in 2025. Staff continue to have regular meetings with the Ministry Project Team to coordinate construction activities that may impact City lands or infrastructure. Geotechnical review of the site is anticipated to occur over the next month.

Bridgeport Road Bus Connection

The project will redirect southbound bus services from Sea Island Way to Bridgeport Road with a new transit-only connection southbound to the on-ramp to Highway 99 and includes improved cycling and pedestrian connections. Construction commenced in February 2022 with project completion scheduled for fall 2022 (Figure 4). Placement of the sub base gravel is complete. All work is within the provincial lands.



Figure 4: Construction Activities for Bridgeport Road Bus Connection Project

While this work requires temporary removal of access to the northbound cycling and pedestrian sidewalk along Oak Street Bridge for the duration of the project, staff have not received any complaints from the public and signage has been posted to advise the public of the alternative route available via the Canada Line Bridge.

Transit Lanes on Highway 99

The project extends the bus-on-shoulder facilities between Highway 17A and Ladner Trunk Road in both the northbound and southbound directions. Project completion is scheduled for summer 2023.

Highway 99-Highway 17A Interchange

The project extends and widens the northbound Highway 99 off-ramp approach to the Highway 17A intersection, upgrades the existing bike shuttle stop and improves cycling facilities in and around the interchange. Construction started in March 2022 with project completion scheduled for fall 2022.

Financial Impact

None.

Conclusion

Design and construction work continues to progress on the components of the provincial Highway 99 Tunnel Program. The Fraser River Tunnel Project to replace the existing George Massey Tunnel has entered the preparatory Early Engagement Phase of the Environmental Assessment process with the issuance of the Initial Project Description for stakeholder and public comment. Staff provided comments on the high level document to the BC Environmental Assessment Office by the requested deadline of June 3, 2022. There will be further opportunities to provide comments should the project proceed to an Environmental Assessment process. Staff will continue to provide updates to Council at key milestones of the Highway 99 Tunnel Program.

June 21, 2022

- 7 -



Sonali Hingorani, P.Eng.
Transportation Engineer
(604-276-4049)

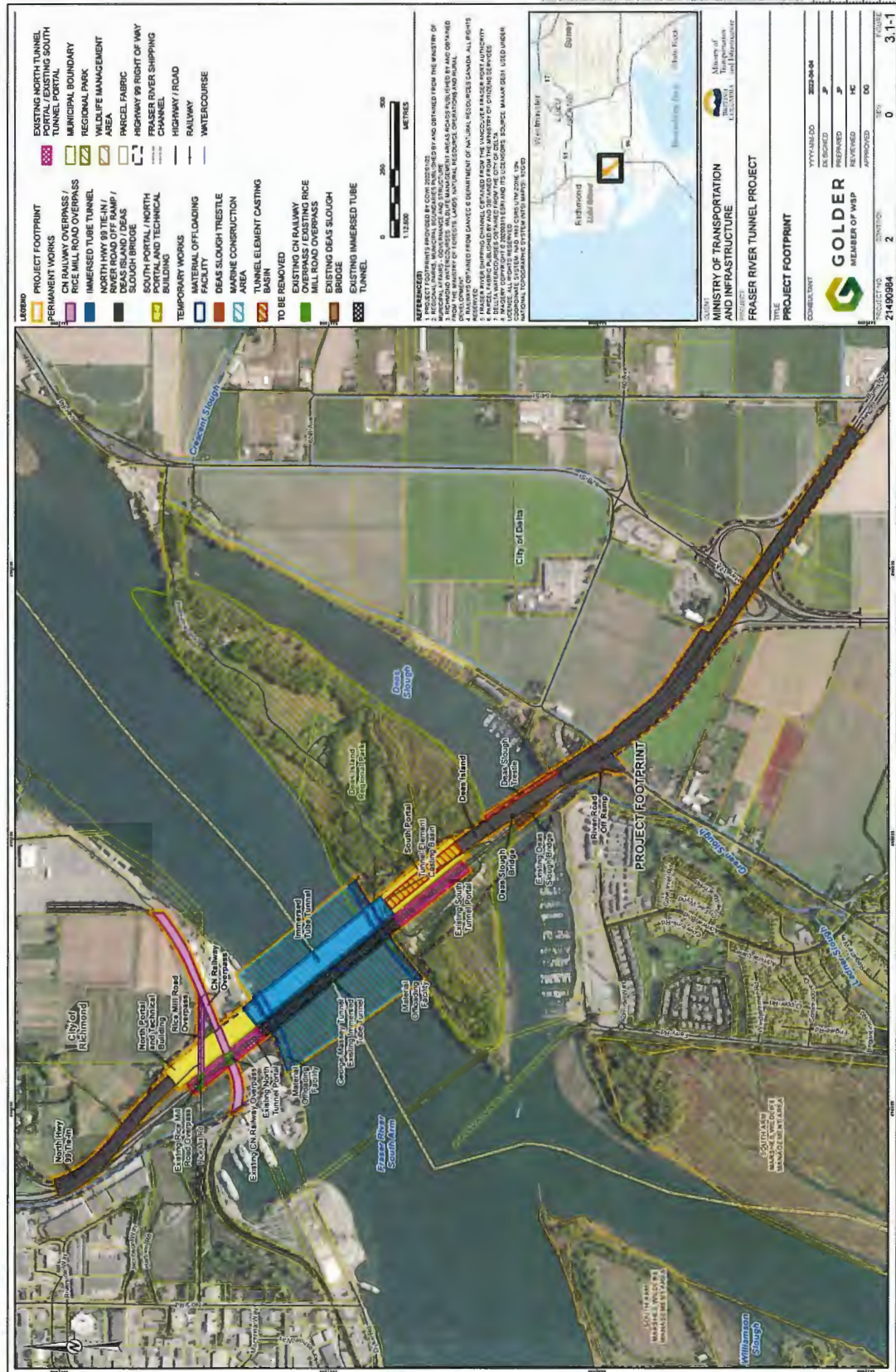


Joan Caravan
Transportation Planner
(604-276-4035)

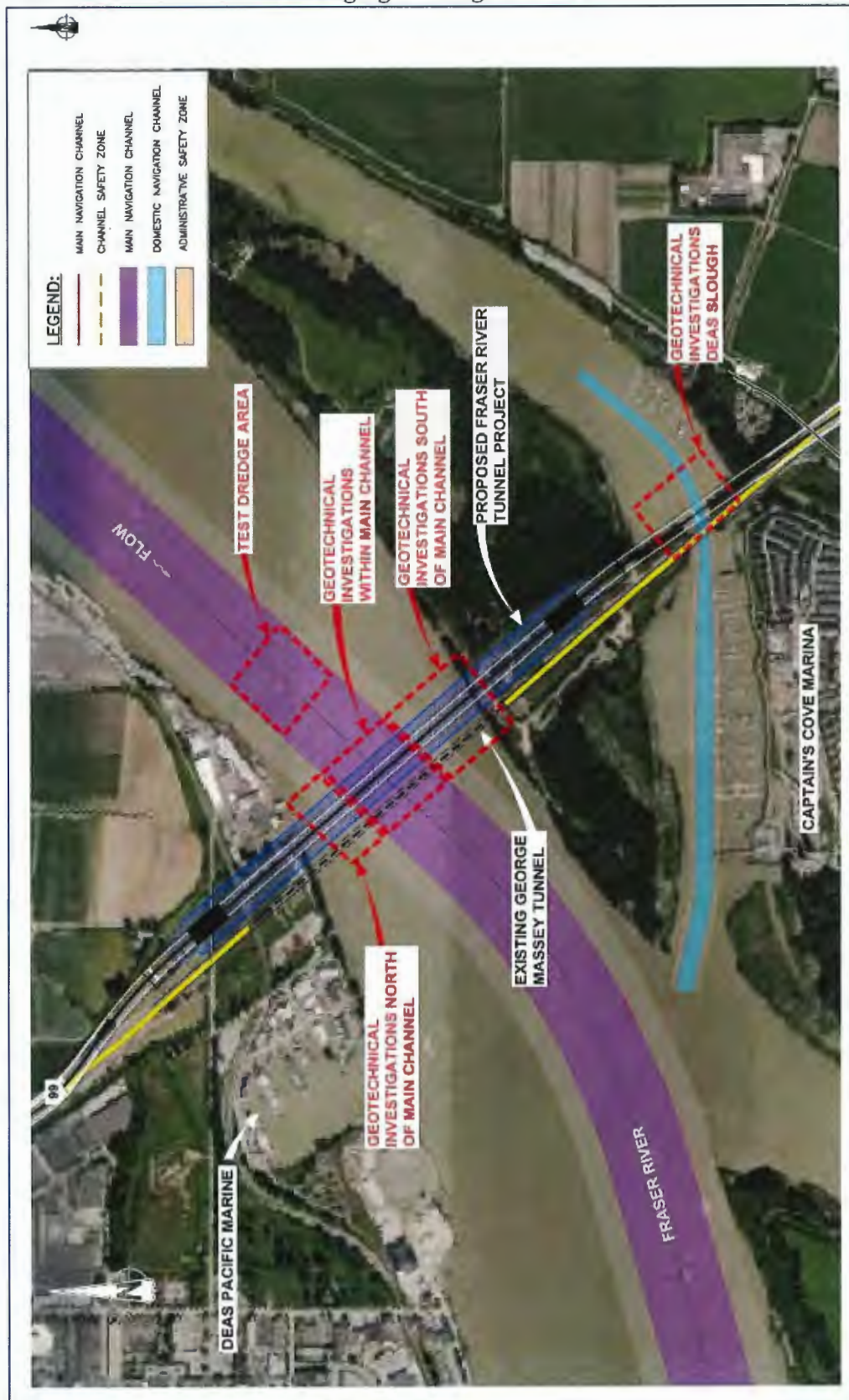
JC:jc

- Att. 1: Fraser River Tunnel Project Footprint
2: Location of Geotechnical and Dredging Investigations for Fraser River Tunnel Project
3: City Comments on Initial Project Description

Fraser River Tunnel Project Footprint



Location of Geotechnical and Dredging Investigations for Fraser River Tunnel Project



City Comments on Initial Project Description

Category	Comments/questions
Key Issues and Values to be Considered in EA	<ul style="list-style-type: none"> EA process should include BC Hydro infrastructure relocation required to accommodate the project works. Regarding relocation of the BC Hydro infrastructure, Richmond's strong preference is for this to be underground rather than overhead. Minister Rob Fleming indicated that this is also MoTI's preference at the UBCM meeting in September 2021. In a December 17, 2021 letter to Mayor Brodie, Minister Rob Fleming and Minister Bowinn Ma indicated that the ministry is working with BC Hydro on a design to incorporate the existing hydro lines into the new tunnel.
Suggested Design Changes	<ul style="list-style-type: none"> Section 3.6.2, Crossing Configuration: Confirm that 2 of the 8 lanes will be dedicated as transit lanes rather than all 8 lanes for GP traffic Stormwater runoff needs to be mitigated/managed through the construction phase and should not enter any of local watercourses. Need further details on how construction will be managed. Flood protection considerations should include robust monitoring of the existing dikes before, during and after all construction activities, in particular during ground improvement works, and including all third party activities such as BC Hydro works. Liquefaction and geotechnical analysis on project impacts to the City's dike under current, seismic and future conditions should be conducted prior to commencing any works. More details required on the temporary flood protection measures and how these will work while they are in place. How long will they be in place for? What level of protection will they provide? Dike Maintenance Act will also need to be addressed for the decommissioning of the existing tunnel. The revised IPD does not consider lighting implications for the new tunnel or the tunnel approaches. Include a section that speaks to potential lighting impacts both on the surrounding environment as well as the potential lighting impacts on motorists, active transport users and pedestrians using the tunnel infrastructure.
Missing Project Interactions	<ul style="list-style-type: none"> When noting key benefits of Project with respect to traffic congestion relief, reference associated traffic congestion on the adjacent municipal road network and the impacts (e.g., idling, GHG emissions). Further details are required on the impacts of the decommissioning on flood protection. Richmond would like to see a new dike built after the decommissioning of the existing tunnel. The revised IPD should make reference to both the further study and creation of a Contaminated Soils Management Plan, as well as an assessment of emerging contaminants of concern. In addition to wildlife, fish, and vegetation impacts, the IPD should also consider impacts to invertebrates (specifically insects and aquatic invertebrates) and microbes. Related to the assessment of wildlife, there is the potential for dike riprap to provide habitat for marmots. An assessment for marmots and marmot habitat should also be a consideration of the IPD. The IPDs vegetation assessments should also include provisions for the

City Comments on Initial Project Description

Category	Comments/questions
	<p>surveying, studying and management of invasive species communities within the project area.</p> <ul style="list-style-type: none"> The revised IPD should include some detail of anticipated habitat offsetting work and when those anticipated works are proposed to be delivered (i.e., in the construction phase of the project). It is understood that more complete details of habitat offsetting will be finalized through the EA and associated senior government permitting processes; but should be a consideration during early project planning phases.
Additional Information required in the Detailed Project Description to inform the Readiness Decisions	<ul style="list-style-type: none"> Agricultural land is identified for construction site facilities. If used, agricultural land should be restored to current (minimum) or improved (preferred) condition. Need more information on location and size of temporary laydown areas, crew parking, etc. to assess any impacts to City. Need more information on location and design of MUP and how CPTED and security issues for users will be addressed. All land associated with flood protection infrastructure should include SRW in favour of the City for future flood protection operation and maintenance. Detailed assessments and studies should be conducted to assess potential impacts that the project will have on fuel consumption and emissions from daily commuter use. Potable water is proposed to be used for the batch concrete plant. Additional detail should be provided for exploring alternatives to using potable water for this purpose, as the region is expected to experience continued pressure on potable water sources due to climate change. Has the use of river water been considered for the batch concrete plant? Section 6.6 of the IPD should be updated to include reference to any anticipated Municipal Agreements that will result from the tunnel works, if applicable.
Other Comments/ Questions	<ul style="list-style-type: none"> Section 5.2, bottom of Page 31: Sentence should read as "Land adjacent to and east of the north tunnel approach roads and portal is designated as agricultural, while land adjacent to and west of the north tunnel approach is designated as mixed employment (which is inclusive of industrial, commercial and other employment-related uses) and industrial." Given that the City and MoTI drainage systems are interconnected, additional work must be done by MoTI to plan and construct new drainage infrastructure that can accommodate large rainfall events and to proactively maintain existing drainage infrastructure. The City expects that MoTI will improve drainage along the Highway 99 corridor from the north to south end of Lulu Island by increasing the overall drainage system capacity. Consider depositing the dredged material on Sturgeon Bank. Table 5.5-1 should be updated to include reference to the City's Industrial Lands Intensification Initiative, as the project is located in an area identified for industrial uses by the City: (https://www.richmond.ca/shared/assets/ILII_GP_01052157450.pdf)

Motion: Carol Day

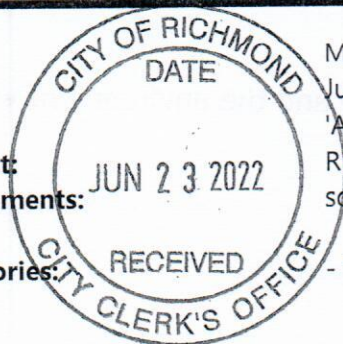
Write to the Federal Government , Minister of Environment and our Local Members of Parliament to ask them to ban marine scrubber in Canadian waters.

Rational The Port of Vancouver has enacted a 3-phase ban of scrubbers in its jurisdiction for ships that travel in our waters but we need to move faster to protect all Canadian waters. Scrubbers use alkaline water (often Sea water) to transfer harmful air pollutants such as Sulphur oxides into wash water which is dumped into coastal waters. The dumping of this waste water is a threat to aquatic organisms and causes dead zones. The chemicals accumulates up the food chain to larger marine animals and can work itself into the human food chain.

Nemes,Adrian

TO: MAYOR & EACH
COUNCILLOR
FROM: CITY CLERK'S OFFICE

From: Mayor and Councillors
Sent: June 17, 2022 9:03 AM
To: 'Anna Barford'; Mayor and Councillors
Subject: RE: Motion at UBCM Protecting BC Coasts From Acidic Wastewater Dumping
Attachments: scrubbers_infographic.pdf; 2022 06 17 letter for Richmond from Stand.Earth.pdf
Categories: - TO: MAYOR & EACH COUNCILLOR / FROM: CITY CLERK'S OFFICE



Good Morning,

Thank you for your email and letter. Please note that copies will be provided to the Mayor and each Councillor. In addition, your comments will be received by Peter Russell, Director, Energy and Sustainability, and Jason Kita, Director, Intergovernmental Relations and Corporate and Strategic Planning.

Sincerely,

Matt O'Halloran | Manager, Legislative Services
City of Richmond | 6911 No.3 Road, Richmond, BC V6Y 2C1
Phone: 604-276-4098 | Fax: 604-278-5139
Email: mohalloran@richmond.ca



From: Anna Barford <anna@stand.earth>
Sent: June 17, 2022 8:15 AM
To: Mayor and Councillors <MayorandCouncillors@richmond.ca>
Subject: Motion at UBCM Protecting BC Coasts From Acidic Wastewater Dumping

City of Richmond Security Warning: This email was sent from an external source outside the City. Please do not click or open attachments unless you recognize the source of this email and the content is safe.

Good Morning,

Attached please find a letter for the Mayor and Council.

We are writing today as Stand.Earth to bring your attention to an important resolution that will be coming before UBCM to address acidic wastewater discharge in all waters off BC.

Thank you for your official consideration of our letter. Please do not hesitate to reach out to myself if I can be of assistance.

Many thanks,

Anna Barford | she/her
Canada Shipping Campaigner O: +1 604 757 7029

GP - 155

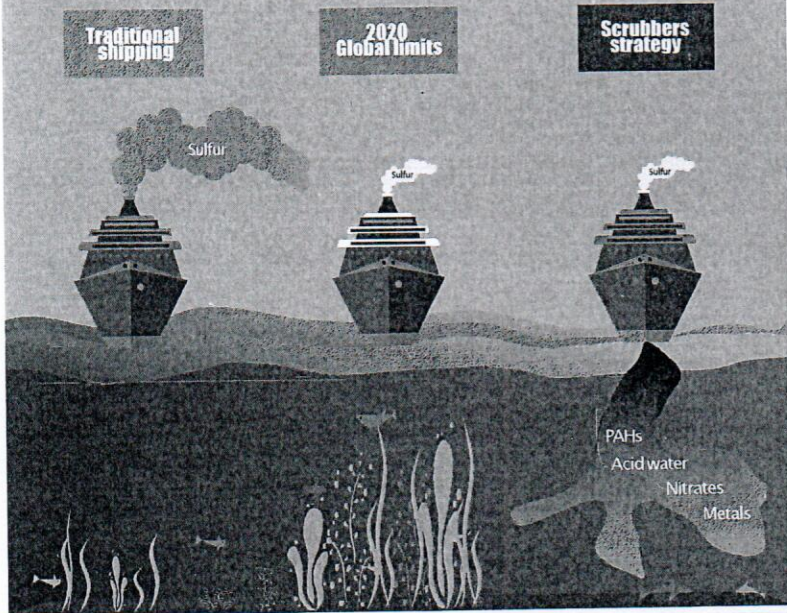
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JUN 23 2022
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& DISTRIBUTED

We Need to Move Faster on the Ban of Marine Scrubbers in the Port of Vancouver and Across Canada

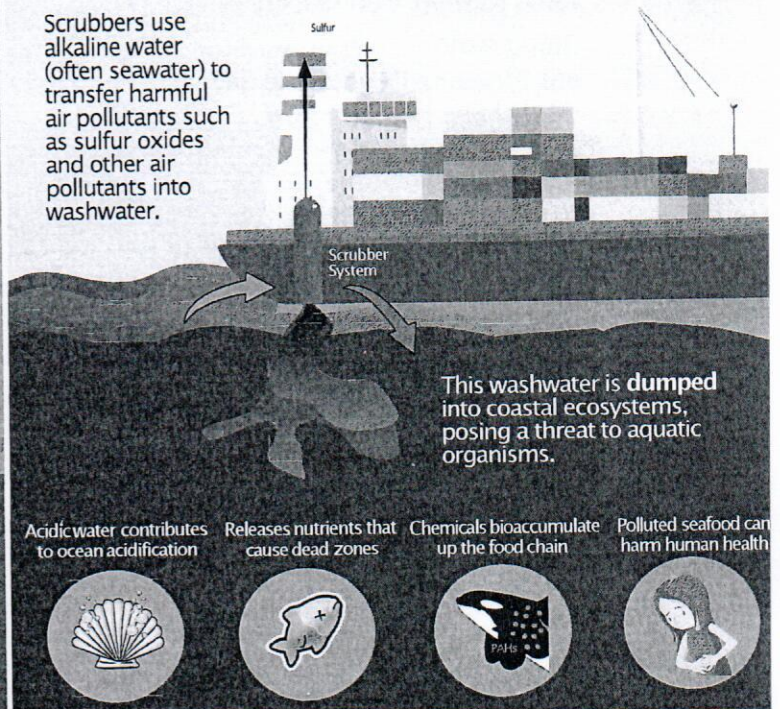
WHAT ARE MARINE SCRUBBERS?

Marine Scrubbers were created as a **loophole** for ships to avoid switching to cleaner fuels in response to more strict 2020 sulfur emission guidelines.



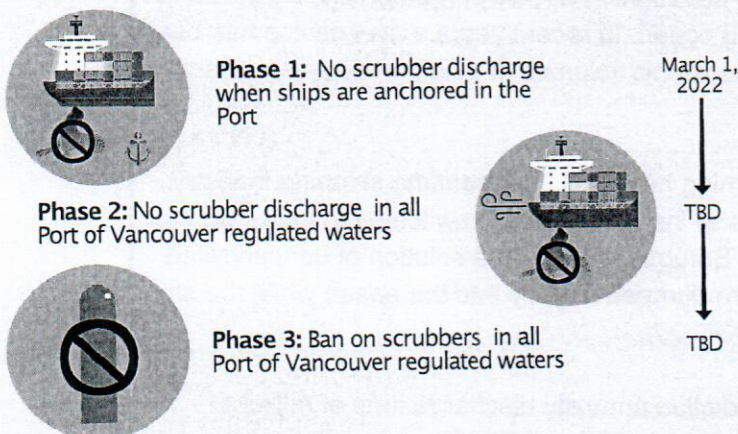
WHY ARE SCRUBBERS BAD?

Scrubbers use alkaline water (often seawater) to transfer harmful air pollutants such as sulfur oxides and other air pollutants into washwater.



WHAT IS BEING DONE LOCALLY?

The Port of Vancouver has enacted a 3 phase ban of scrubbers in its jurisdiction:



Currently, ships can still dump scrubber washwater while moving in and out of port. We need to move faster to a full scrubber ban.

We also need **Canada-wide** legislation banning scrubber use to protect all Canadian waters.

WHAT CAN YOU DO?

1. Get Talking



Spreading awareness about the issue helps to put more pressure on local and federal governments to **ban scrubbers now**.

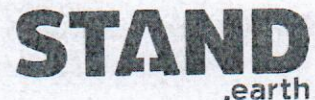
2. Put Pressure on Government



@Transport_gc

Write an e-mail to your local MP or tweet Transport Canada.

#banscrubbers #nodumping



GRAPHIC ATTRIBUTION





The Vancouver Fraser Port Authority is demonstrating regional leadership in preventing acidic wastewater dumping and is phasing in a requirement simply for ships to burn cleaner fuels. They join the Port of Seattle, Quebec's Port Sept-Iles, The State of California and ports around the world in taking steps to prevent the use of scrubbers and mandate a transition to cleaner fuels.

The resolution before UBCM is critical to bring this issue to the table with levels of government that have jurisdiction over territorial waters and can protect the Salish and Great Bear Seas. The unanimous vote at LMLGA to pass this resolution for consideration at UBCM is a clear signal that local elected leaders care about the health of coastal waters, and are concerned about the future of coastal communities if acidic dumping isn't addressed. We are so grateful for this clarity and signal of care from elected leaders from Hope to Pemberton, and are counting on your continued support.

We urge you to support the motion "Protecting B.C.'s Coasts From Acidic Wastewater Dumping" at the upcoming UBCM convention in September.

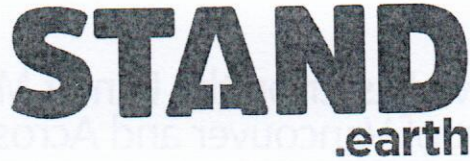
Thank you for your consideration of our letter. Please do not hesitate to reach out at anna@stand.earth.

Sincerely,

Anna Barford
Canada Shipping Campaigner
Stand.earth
Vancouver, BC

STAND.earth

Stand.earth challenges corporations and governments to treat people and the environment with respect, because our lives depend on it.



Anna Barford
Stand.earth
5307 Victoria Drive, Suite 347
Vancouver, BC, V5P 3V6
anna@stand.earth

17 June 2022

Mayor and Council
City of Richmond

6911 No. 3 Road
Richmond, BC, Canada
V6Y 2C1
Sent via: email

Re: Motion at UBCM Protecting BC Coasts From Acidic Washwater Dumping being brought forward by Vancouver

We are writing today as Stand.Earth to bring your attention to an important resolution that will be coming before UBCM, having passed unanimously at LMLGA, to address acidic wastewater discharge in all waters off BC.

It is well established that ocean acidification has devastating effects on marine life, aquaculture, and coastal communities dependent on a thriving ocean. In recent years a new device has been taken up in record numbers that is dumping catastrophic volumes of acidic wastewater directly into the ocean from vessels.

In order to mitigate sulphur air pollution from burning heavy oil, the maritime shipping industry employs exhaust gas cleaning systems (scrubbers) instead of simply switching to lower sulphur fuels which are already available on the market. Scrubbers result in a solution of concentrated acidic sulphates, metals, and other toxins that are dumped directly into the ocean while the ship is in operation.

Cruise and cargo vessel traffic in Canadian jurisdiction annually discharge tens of millions tonnes of this acidic washwater directly into the coastal waters of BC. The International Council for the Exploration of the Seas has found that scrubber washwater has lethal and sub-lethal effects on plankton, a critical component of marine ecosystems.