



9. MINUTES FOR INFORMATION
  - (a) CHILD CARE DEVELOPMENT ADVISORY COMMITTEE MEETING  
Attachment: Minutes of Meeting held May 4 2022
10. NEXT MEETING DATE Monday, October 3, 2022 at 4:30pm
11. ADJOURNMENT





## Report to the Facilities & Building Committee PUBLIC

DATE: 07 September 2022

FROM: Frank Geyer, Executive Director, Facilities Services  
Umur Olcay, Manager, Facilities Planning  
Joseph Balderston, Facilities Planner

SUBJECT: Facilities Planning Update

The following report is for information only. No further action on the part of the Facilities & Building Committee (FBC) is required at this time.

### STRATEGIC PLAN REFERENCES

Strategic Priority 3: Optimized Facilities & Technology

-maintained, equitable, safe, and conducive to learning.

### DISCUSSION

Major Items of note:

1. Long Range Facilities Plan (LRFP):

The Planning Team is updating the LRFP Action Plan to track planning actions, facilities decisions of the Board of Education and potential or recommended changes for the next revision of the LRFP in 2023.

2. Seismic Mitigation Program (SMP):

Development of Project Definition Reports (business cases) for the recently Ministry-supported

4. Just B4 Program:

R.M. Grauer Elementary has been approved as a second location to accommodate Just B4 beginning

## Report to the Facilities & Building Committee PUBLIC

DATE: 07 September 2022

FROM: Frank Geyer, Executive Director, Facilities Services

SUBJECT: Capital Projects Update

6. Howard DeBeck Elementary and Alfred B. Dixon Elementary Seismic Upgrades  
(approx. \$7 Million)

- x Project Definition Reports (business cases) drafted and submitted to the Ministry for review targeting project approval and execution of Capital Funding Project Agreements by November 2022.

7. Manoah Steves Elementary and Maple Lane Elementary Childcare Facilities (\$1.5 Million each)

- x Design nearly completed on modular facilities for delivery set up by January 2023; sitework started at Maple Lane and to be tendered at Steves

B. Major Local Capital Projects (capital projects greater than \$1 Million funded by Board of Education)

1. Mitchell Education Centre (\$2.5 Million)

- { Project substantially complete and occupied; working on minor deficiencies

2. Rideau Park Resource Centre (\$4 Million)

- x Design complete and submitted to Learning & Business Technologies for final review; expect to start construction in late September 2022 with completion by May 2023

3. Classroom Ventilation Program (\$12 Million max.)

- x Contracts for the supply and delivery of 187 unit ventilators over a 14 month period in place; concept plans for the design/build by both in-house and contracted forces completed; proof of concept installations at Mitchell Elementary and Ferris Elementary underway by SD38 forces; meeting with construction manager to develop program and schedule for balance of sites to ensure completion by September 2023.

C. Minor Capital Projects (less than \$1 Million funded by the Province)

1. Howard DeBeck Elementary Building Envelope Upgrade (approx. \$400,000)

- x Design underway under the project management of BC Housing with oversight and district coordination by SD38; expect construction to be undertaken as part of seismic upgrade project

2. Mechanical System Upgrades

- Shop dust extraction system replacement at Matthew McNair Secondary to be tendered in September 2022/23 SEP \$472,000)
- HVAC digital controls replacements at Hugh McRoberts Secondary and Lord Byng Elementary 75% complete 2022/23 CNCP \$371,500)
- Lab ventilation system upgrades at four secondary schools (A.R. MacNeill, H.J. Cambie, Matthew McNair, Steveston/London) to be tendered in September 2022/23 SEP \$252,730)



### 3. Electrical System/Energy Upgrades

- LED lighting upgrade at Steveston Secondary complete (2021/22 CNCP \$550,000)
- LED lighting upgrade at R.A. McMath Secondary for tender (2022/23 SEP \$547,287)

### D. Minor Capital Projects (less than \$1 Million but of significance)

- Installed two portables at Brighthouse Elementary and one portable at Tomsett Elementary to accommodate future student population growth (\$375,000)
- Upgraded door locks at MacNeill Secondary Aspen Program for student and staff safety (\$50,000)
- Commenced design on BC Hydro electrical service upgrade at Steves Elementary needed to accommodate new classroom ventilation system and modular childcare facility (\$200,000)
- Relocated LINC Program from Blundell Adult Learning Centre and rented space at R

**Report to the Facilities & Building Committee PUBLIC**

DATE: 07 September 2022  
FROM: Frank Geyer, Executive Director, Facilities Services  
SUBJECT:

- Minor paving projects completed at Hamilton, Kidd, Cook and Thompson
- New playground installation at DeBeck is complete, Maple Lane equipment ordered and will be installed in October/November 2022;
- Outdoor classroom and learning area installations completed at Tomsett, McMath Brighthouse
- Major site cleanups across District sites completed for school reopening and
- Summer playground inspections and fall protection top up across the District completed

{ Finishes

- Interior and exterior new paint completed Adult Education Centre (Mitchell);
- Kingswood exterior trim and door paint nearing completion
- Errington and Boyd interior painting nearing completion
- Gym floors recoated at 6 sites, and full sand and coat at 2 sites and
- Parking lot line painting refresh and updates at multiple locations

{ Mechanical

- Boiler replacements substantially completed at Hamilton and Byng
- Awaiting equipment delivery (c) 5792 to (c) 0 0 612 79

HEgit coo replacements

Operations Activities

x Energy and Sustainability

- Contracts awarded for McMath Secondary and Ferris Elementary LED lighting upgrade projects
- Implemented the SBO lighting upgrade project
- 10 sites finalized for Continuous Optimization of building mechanical and electrical systems
- Development of "calendar of events" for energy and sustainability activities for the 2022/2023 school year, combining thermal comfort Energy Wise campaign with Eco Wise program
- Tracking of solid waste metrics from 2020/2021 and 2021/2022 school years at a district and individual school level presentation developed for RLT and school specific data, as well as a "solid waste 101" primer with concrete actions we can take to improve our waste diversion performance
- Building Operations Supervisor demo project at Boyd Secondary, using AI and machine learning to balance occupant comfort with energy savings combined with a student engagement project to help kick start a Green Team at Boyd to use the demo data outputs to engage students
- Climate resiliency reviews of 8 sites underway as part of executing the DISCARP physical reviews under way, but will roll out surveys to our building occupants in the fall as part of the climate resiliency review and
- Working with independent consultant to develop two custom retrofit study proposals for the classroom ventilation program at 11 school sites. Submitted these proposals to FortisBC for energy study funding.

Frank Geyer, PEng, FMA

Executive Director, Facilities Services / Richmond Project Team

## Report to the Facilities & Building Committee PUBLIC

DATE: 07 September 2022

FROM: Frank Geyer, Executive Director, Facilities Services  
Jonathan Ho, Manager, Energy and Sustainability

SUBJECT: Community Energy and Emissions Plan (CEEP)/DSCAP Update

The following report is for information only. No further action on the part of the Facilities & Building Committee (FBC) is required at this time.

STRATEGIC PLAN REFERENCES



Progress Updates for Energy Conservation, Sustainable Transportation and Waste Reduction

Energy Conservation

For the 2021/22 school year, pandemic-related ventilation requirements resulted in a 19% increase in



## Waste Reduction

performance with that of the City of Richmond. The City of Richmond has achieved a waste diversion rate of 80%, but the Zero Waste Strategy has a target of 75%, with an aspirational goal of 80%. This is because the District is an institutional organization, and our operational activities and waste stream composition are sufficiently different from a residential waste stream to make an 80% waste diversion challenging.

A summary of data from the past two school years, however, shows that we are falling short of our Zero Waste Strategy goals

	2020/21 DIVERSION	2021/22 DIVERSION
DISTRICT FACILITIES	48%	48%
SECONDARY	37%	32%
ELEMENTARY	43%	40%

A number of waste audits at elementary, secondary, and the Board Office have been undertaken over the past two years. The results of the audits indicate that there is a path forward to increasing our waste diversion metrics.

The following is an aggregate waste composition of two elementary schools and one secondary school:

Organics is the largest portion of the waste stream, representing 40% of all audited materials (food waste, food scraps, food packaging, soiled cloths, and paper towels). If we are able to divert the organics that were found in the garbage stream, this would represent a significant improvement in our waste diversion metrics. Further, since organics are half the cost to dispose of, better waste diversion would result in lower costs for the District.

## Learning and Engagement

With a return to normal activities, the Energy and Sustainability team plans on re

funding provided to Green Teams who conduct the mandatory sustainability activities. Additional funding is available for schools that complete optional campaigns. A calendar of events has been developed that will bring seasonally appropriate activities at the elementary and secondary school level.

To support this work, the Energy and Sustainability team will work with Learning & Business Technologies to translate the extensive data collected on our energy and utility use, and solid waste metrics, into school and building information (and is not in real time), having this information will give schools the ability to see how their efforts make a difference in our Energy and Sustainability metrics.

Further, to ensure that we celebrate successes and help to inspire schools, staff, and wider District community, we plan on holding three Eco Wise Cafes throughout the school year. The intent is to allow schools to present what works, and what does not, in their various sustainability initiatives.

We will also reconvene the Richmond Sustainability Advisory Committee (RSAC), composed of members across the District community: students, RTA, RASA, RMAPS, CUPE, RDPA, Executive Team, and Trustees.

### Conclusion

The District is making progress against the District Sustainability and Climate Plans, with success in energy conservation and sustainable transportation. Our Zero Waste Strategy performance is trending the wrong direction, with decreasing waste diversion year over year. A renewed focus on educating our students and staff on proper waste diversion will be a focus for the upcoming year.

Communications and Engagement has been lacking to date, and the Energy and Sustainability team intends to reengage with the wider District community to foster shared ownership of the DSCAP. This includes new ways to present our Energy and Sustainability data, as well as restarting the RSAC and Eco Wise cafes that were held pre-pandemic.

### Next Steps

Our intent is to present this update to an upcoming Board of Education meeting

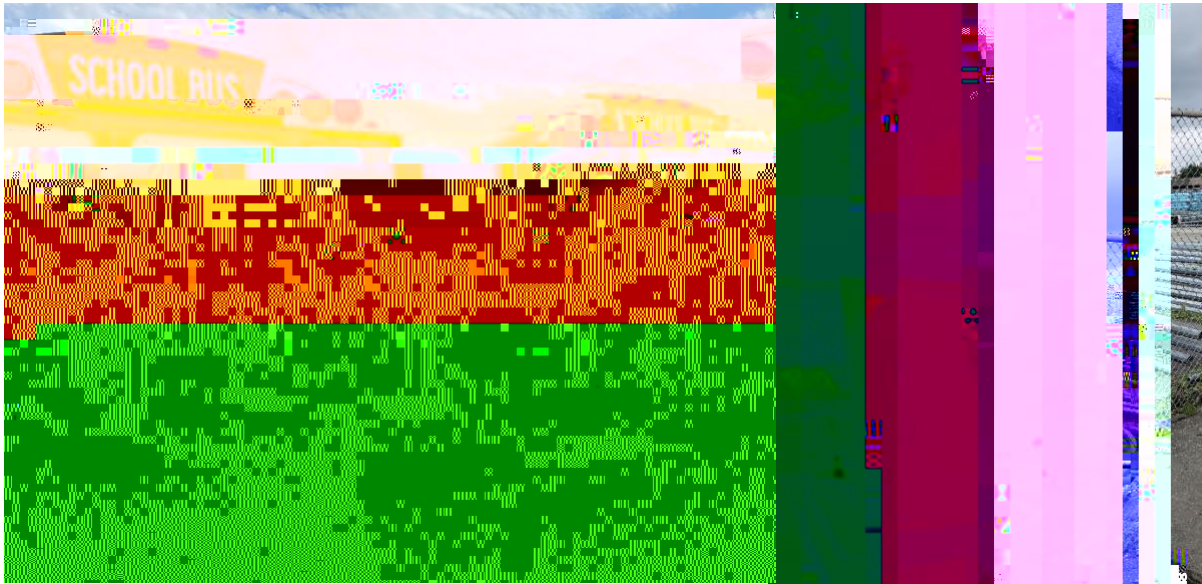


## 2021 Greenhouse Gas Emissions and Offsets Summary

In 2021, there were 6,822 ton of GHG emissions that required offset by Richmond School District, of which 91.1% was

## Building Emissions

Technical – as existing vehicles reach a point where maintenance costs become greater than the cost of replacement, they will be retired in favour of electric vehicles where feasible, or with a more fuel efficient version of the same.



In 2021, through the Association of School Transportation Services of BC, and through the provincial Bus Acquisition Program, that Richmond School District purchased two Type C electric buses from Western Canada Bus, to replace two diesel Type D buses. Delivery was completed in the summer of 2022. At the same time, the electrical infrastructure at the Facilities Services Centre was upgraded to allow each bus to be independently charged via DC “slow” chargers.

### Thermal Comfort Campaign

One notable success story was our Thermal Comfort campaign. The Energy and Sustainability team ran 6 thermal comfort educational workshops at 6 schools from November 2021 to February 2022, coinciding with District Professional Development Days and staff meetings to raise thermal comfort awareness of building occupants and how their behavior change in thermal comfort may reduce unnecessary building set point temperature adjustments. We provided 5 facts about how our schools are heated or cooled, tips to improve thermal comfort, and frequently asked questions. The audiences of these workshops highly appreciated the information, and they committed to reviewing and changing their behaviours toward sustainability.

After 5 months of the campaign, a noticeable amount of natural gas savings were recorded. Conservatively, this campaign was helped to save 3.5% of natural gas, which is equivalent to 162 GJ. This amount is enough to heat a typical elementary school in one and a half months.

With the above positive impacts, this campaign was recognized by FortisBC as the [Best Behavioural Campaign in BC in 2021/22](#) during the [in May 2021](#).















CCRR referred over 400 child care centres to over 50 parents in March alone. Referrals have increased and parents are starting to think about returning to child care. CCRR's internal referral database has been updated and will support staff when they are making referrals to parents and individuals who are looking for child care. CCRR staff have also responded to a large volume of questions about the Affordable Child Care Bill.