

# Annual Facilities Grant Update

STANDING COMMITTEE MEETING – SEPTEMBER 14, 2021

## Project Highlights

# Annual Facilities Grant



## 2021/22 Budget Allocations

Category	Budget Allocations
Accessibility Upgrades	\$ 4,000
Electrical Upgrades	\$ 85,000
Exterior Wall System Upgrades	\$ 151,000
HVAC Upgrades	\$ 2,048,186
Interior Construction Upgrades	\$ 55,394
Roofing Upgrades	\$ 313,000
Site Upgrades	\$ 302,029
	<b>\$ 2,958,609</b>

69% of the 2021/22 budget has been directed into ventilation upgrades

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# Accessibility Upgrades \$4,000



- Cleveland Elementary: accessible ramps to classrooms
- Larson Elementary: new accessible parking spot for south side of school
- Argyle Secondary: new accessible let down by main entrance



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## Electrical Upgrades \$85,000



- Norgate Elementary: PA system upgrade
- Queensbury and Seymour Heights Elementary: fire alarm upgrades



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## Exterior Wall Systems \$151,000



- Dorothy Lynas Modular: entrance doors replaced with powered operators
- Eastview Elementary: partial fascia replacement
- Lynnmour Elementary: south side envelope renewal (gym and StrongStart)
- Ross Road Annex: north face cladding replacement
- Seycove Secondary: gym, 1<sup>st</sup> floor and 2<sup>nd</sup> floor west entrance doors replaced

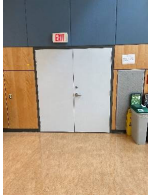
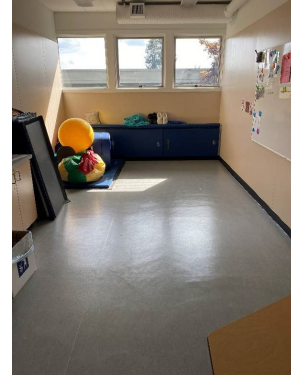


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## Interior Construction Upgrades \$55,300



- Gym floor refinishing - \$17,800
- Flooring repairs and renewals - \$15,000
- Interior functional improvements - \$22,500



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## Roof Repairs \$313,000



- Ridgeway Elementary: cupola, rot repair, cladding and paint
- Windsor Secondary: roof section renewal



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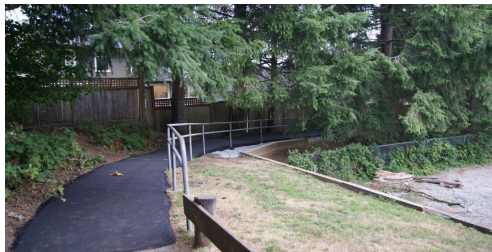
## Site Upgrades \$302,000



- Asphalt and walkway repairs - \$23,500
- Fencing - \$25,300
- Field top dressing - \$10,000
- Line painting - \$24,800
- Masonry - \$5,000
- Playgrounds - \$198,400 (accessible surfacing, drainage, swing mats)
- Trees - \$15,000 (assessment & inventory)

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## Site Upgrades \$302,000



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## Other Notable Summer Projects



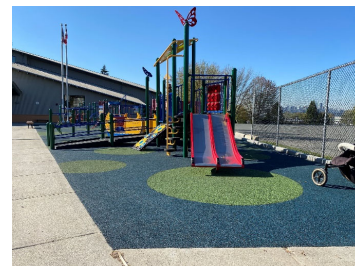
- Playground Equipment Program
- Canyon Heights Elementary Voltage Upgrade
- Cheakamus Centre projects

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## Playground Equipment Program Grant



- Fourth year of Program Grants
  - 2018/19 Norgate Elementary
  - 2019/20 Larson Elementary
  - 2020/21 Westview Elementary
  - 2021/22 Queen Mary & Lynnmour Elementary



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# Playground Equipment Program Grant



- Queen Mary and Lynnmour Elementary both received \$165,000
- AFG will inject \$43,000 into Queen Mary and \$90,000 into Lynnmour Elementary
- Submission to City of North Vancouver for additional \$75,000 for Queen Mary
- RFPs closed early September



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# Canyon Heights Voltage Upgrade



- BC Hydro funded project \$130,000
- Project removes BC Hydro owned transformation equipment from the school to a power pole on the property line

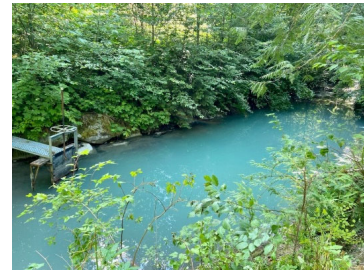


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# Cheakamus Centre



- Composting toilet installation
- Flooring renewals in Melody Hall and old admin office areas
- Gorbusha channel intake remediation



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# COVID-19 Projects & Measures



- Ventilation
- Hand Hygiene
- School Cleanliness

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# COVID-19 Ventilation Strategies



## Ventilation Systems Operations

- Occupancy schedules increased to operate from 6am to 6pm
- Provides pre- and post-occupancy air flush
- Programmed to deliver the maximum levels of outdoor air intake

## District-Wide Building Automation System

- All major ventilation equipment integrated into our building automation system for centralized control and continuous monitoring of performance
- Automated system exception reporting on malfunctioning equipment

## Major Projects

- Identified classrooms without mechanical ventilation in place
- Commenced mechanical ventilation upgrades during summer 2021

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# COVID-19 Ventilation System Upgrades



All NVSD classrooms, including portables, have mechanical ventilation

- In 2020/21, invested over \$3.6M:
  - Annual Facilities Grant (\$2M)
  - Federal Restart Funding (\$1.6M)
- District-wide upgrade to MERV 13 filters wherever possible
- Major projects at 7 schools delivered ventilation to 76 classrooms and 14 support spaces
- Heat Recovery Ventilators installed in 7 portables
- Exhaust ventilation installed in 32 medical rooms
- Gym exhaust fan duct modifications at 4 schools

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# Major Ventilation Upgrades



School	Total Project Budget
Seymour	\$ 474,030
Eastview	\$ 474,030
Capilano	\$ 273,673
Queensbury	\$ 273,673
Larson	\$ 715,477
Montroyal	\$ 840,953
Sherwood Park	\$ 595,496
	\$ 3,647,332

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# HVAC Upgrades



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# HVAC Upgrades



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# HVAC Upgrades



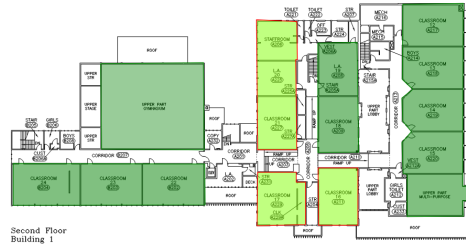
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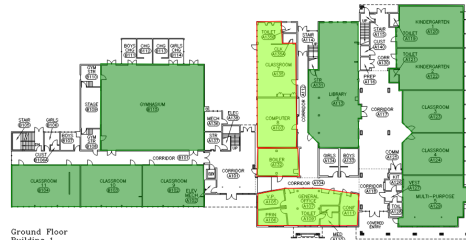
# HVAC Upgrades



Capilano Elementary ventilation installed for 5 classrooms, Staff Room, LA Room and Admin block



Second Floor Building 1



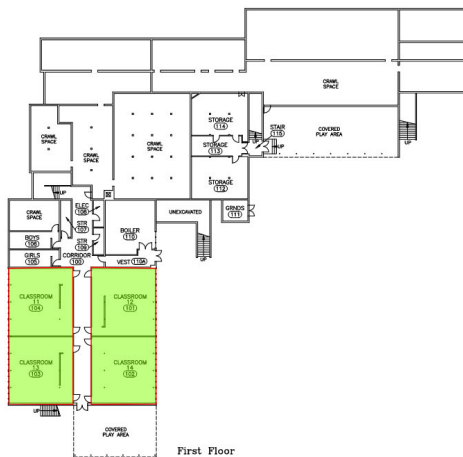
Ground Floor Building 1

- Project Area - New Mechanical Ventilation
- Existing Mechanical Ventilation

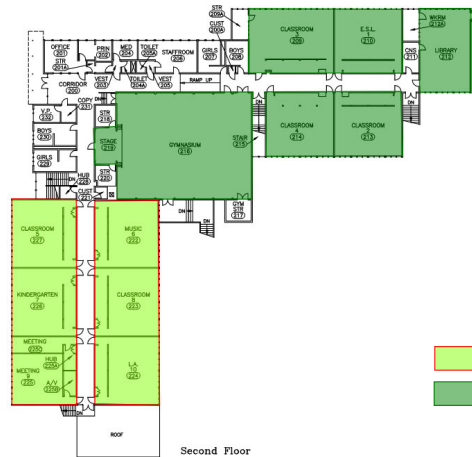
# HVAC Upgrades



Queensbury Elementary: ventilation installed for 10 classrooms



First Floor



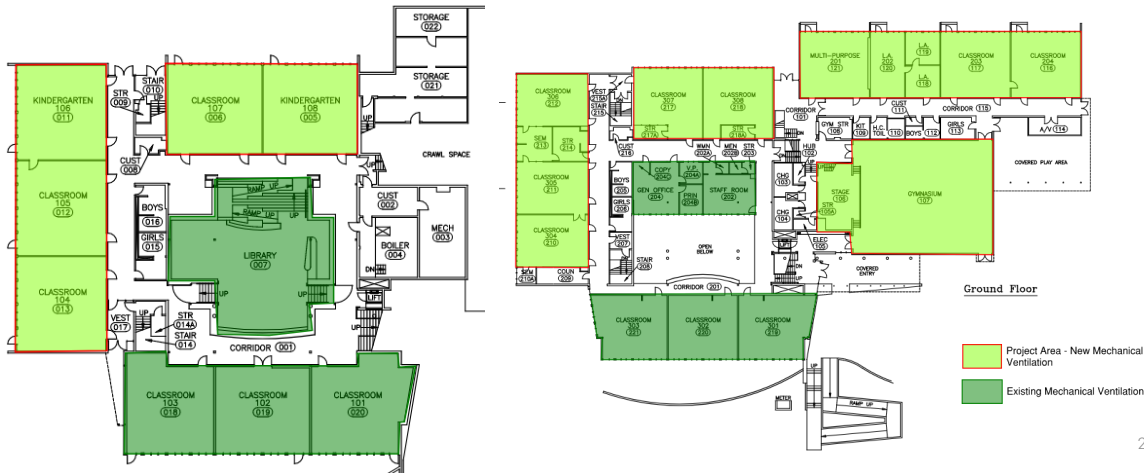
Second Floor

- Project Area - New Mechanical Ventilation
- Existing Mechanical Ventilation

# HVAC Upgrades



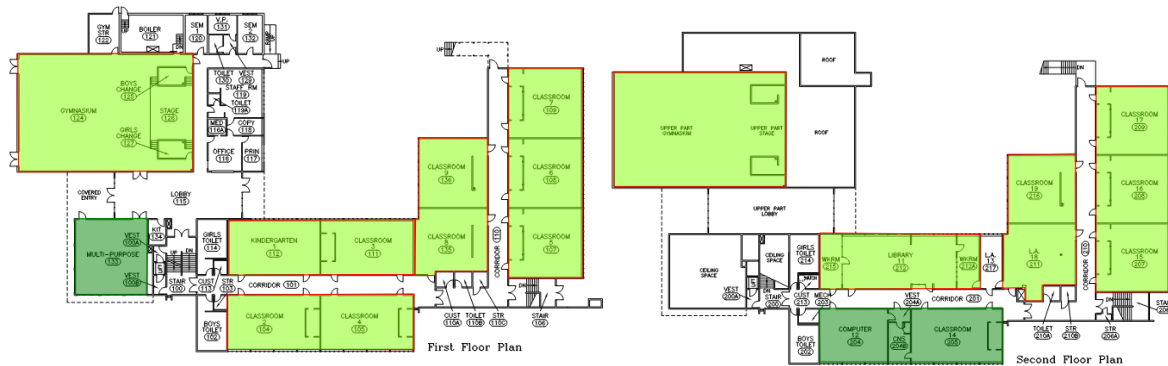
Larson Elementary: ventilation installed for 13 classrooms and 5 LA spaces



# HVAC Upgrades



Montroyal Elementary: ventilation installed for 14 classrooms, library and gym



# HVAC Upgrades

**Sherwood Park Elementary:**  
ventilation installed for 9 classrooms and Multi Purpose Room

- Project Area - New Mechanical Ventilation
- Existing Mechanical Ventilation



# School-Specific Ventilation Information

- Ministry directive to report on school-specific ventilation improvements and measures
- Ventilation System Overview Template to be completed for each school and submitted to the school Joint Occupational Health and Safety Committee
  - Inspections: last date/next date/recent maintenance
  - Outside air intake strategy
  - Filter upgrades
  - Use of other air cleaning technologies
  - Use of building automation
  - Other relevant information
  - Contact information for questions
- Completed templates to be provided to each school-based JOHSC for their October 2021 meetings

## Portable Classroom Ventilation Systems



NVSD has 30 instructional portables

- All have operable windows
- All have mechanical ventilation systems that introduce 100% outdoor air
- Ventilation systems vary in type but will be one of the following:
  - Gas furnace
  - Gas fired unit ventilator
  - Heat recovery ventilator with baseboard electric reheat

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## HEPA Room Air Purifiers



NVSD has focused our resources on centrally dedicated, engineered ventilation systems serving our classrooms

- Air purifier effectiveness is not clear and assumes virus laden aerosol particles make their way to the air purifier recirculating air within a space
- Many factors would effect performance: unit capacity (size), room placement, room layout, open doors, open windows and operating ventilation systems
- Noise levels produced by an air purifier properly sized for a classroom are a concern
- Units typically require a dedicated 15 amp circuit (may not be available)
- Inability to remotely control, monitor the performance and maintain these decentralized stand alone units
- Air purifiers use proprietary filters that may be difficult to source and costly to maintain
- Lack of consumer/industry standards guaranteeing product quality and performance

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# Hand Hygiene

## Increased access to handwashing

- 115 additional hand washing stations installed including:
  - stand alone sinks and
  - modified bottle fill stations with a faucet
- 211 sinks retrofitted with touchless faucets



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# School Cleanliness

## Commercial grade laundry facility

- New high performance commercial grade washing and drying machines installed at Lucas Centre



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# School Cleanliness



## Floor care equipment

- 7 new ride-on floor scrubbing machines procured
- 1 in each elementary school
- 2 in each high school



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# School Cleanliness

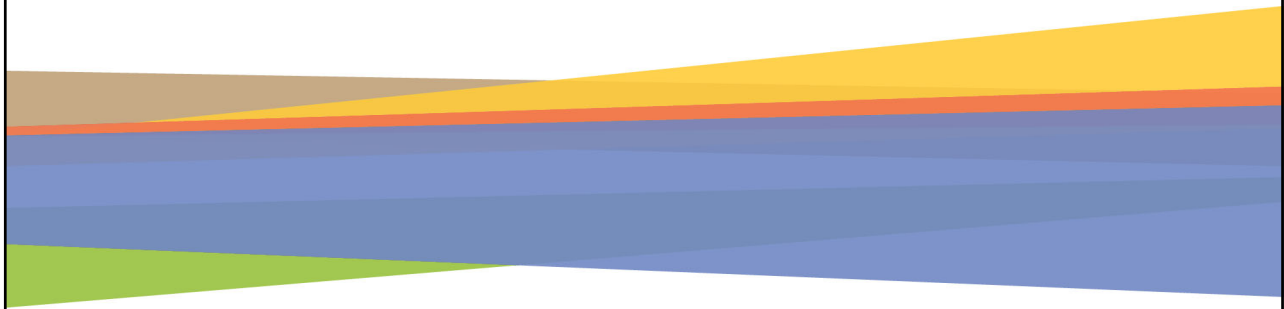


## Microfiber cleaning materials inventory renewal



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## September Highlights



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## 2021/22 Preliminary Budget

- Casual Custodians budget increased by \$155,000 which provides about 5,500 service hours
- Invested additional \$125,000 cleaning supplies
- Continued installation of touchless faucets will add additional handwashing capability

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## 2021/22 New Provincial Funding



### Return to School Recovery Plan Grants

- One-time health and safety measures - \$351,621
- One-time mental health services - \$69,482  
(address the impacts on students and staff of isolation and stress in response to the COVID-19 pandemic and response measures)
- Early Actions Initiative - \$51,000  
(support mental health promotion and capacity building)
- One-time holdback from 2020/21 - \$459,998  
(address learning impacts due to the COVID-19 pandemic)

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## Teachers Teaching On Call (TTOCs)



- On-boarded 117 new TTOCs and 61 new contract teachers since January 2021
- Added 9.0 FTEs Continuing TTOCs
- Currently 308 active TTOCs (noting they may also be employed by other Districts)
- WorkBoard Web implemented: an on-line tool allowing TTOCs to pre-book their future callouts earlier from available vacancies

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Go slow . . .



## Vaccine Passports in K-12 School Context

- Appears the intention will be to exempt “educational activities” from the requirement for vaccine passports
- Strongly expected that vaccine passport requirements will NOT apply to volunteers
- No documentation at present that spells out what is, and what isn’t, an “educational activity” or what “educational activities” may include or apply to parent participation

## Specific K-12 Considerations



- PE - option to wear mask
- Lunch in classes - option to eat outside or at home
- Music/Choir classes - physical spacing, masks, bell covers
- Cheakamus - considered educational site; day trips permitted
- Field trips - no overnights
- Sports - intra and inter-school competition allowed
- PAC meetings - online for now
- Parent teacher conferences - in-person staggered meetings

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Questions?