

TO: CHAIR AND MEMBERS
PUBLIC SAFETY COMMITTEE

DATE: 2021 March 02

FROM: FIRE CHIEF

SUBJECT: BURNABY FIRE DEPARTMENT REPORT

PURPOSE: To provide the Public Safety Committee an information overview of Fire Department operations and initiatives as a resource for the 2021 March 17th Public Safety Committee Meeting.

RECOMMENDATION:

1. **THAT** the Committee receive this report for information.

REPORT

1.0 INTRODUCTION

In its role to advise Burnaby City Council on public safety matters, the Public Safety Committee liaises with City Council, the Burnaby RCMP, the Burnaby Fire Department, the City Engineering Department and the broader communities of Burnaby.

Public Safety Committee meetings provide the Burnaby Fire Department with the opportunity to engage with the community and its representatives and to join together with other City Departments and partners to care for existing and newly developing public safety concerns.

In order to communicate the public safety activities of the Burnaby Fire Department at scheduled Public Safety Committee meetings, this report provides:

- Details on major incident occurrences within the City
- High level statistic review to communicate trends within the City
- Summary of training actions
- Summary of fire prevention and investigation actions

2.0 POLICY SECTION

The Burnaby Fire Department's participation in the Public Safety Committee and the information within this report aligns with the following goals and sub-goals of the Corporate Strategic Plan:

- **A Safe Community**
 - Emergency preparedness – Enhance plans, procedures and services so that we are better prepared to respond to emergencies and are able to maintain City services
- **A Connected Community**
 - Social connection – Enhance social connections throughout Burnaby
 - Partnership – Work collaboratively with businesses, educational institutions, associations, other communities and governments
- **An Inclusive Community**
 - Serve a diverse community – Ensure City services fully meet the needs of our dynamic community
 - Create a sense of community – Provide opportunities that encourage and welcome all community members and create a sense of belonging
- **A Connected Community**
 - Social connection – Enhance social connections throughout Burnaby
 - Partnership – Work collaboratively with businesses, educational institutions, associations, other communities and governments
- **A Healthy Community**
 - Community involvement – Encourage residents and businesses to give back to and invest in the community
- **A Dynamic Community**
 - Economic opportunity – Foster an environment that attracts new and supports existing jobs, businesses and industries
- **A Thriving Organization**
 - Communication – Practice open and transparent communication among staff, Council and the community

3.0 MAJOR INCIDENTS

<i>Event Type:</i>	Building Fire
<i>Date:</i>	Jan 01 – 01:06, 2021
<i>Street Address:</i>	3940 Pender St.
<i>Response:</i>	2 nd Alarm (+): 6 Engines, 2 Ladders, 2 Rescue, 1 Command Unit
<i>Detail:</i>	<ul style="list-style-type: none">• Multi-Unit Residential• Rescue of 2 occupants from building interior, and successful - life saving CPR provided on scene by firefighters• 5 occupants treated for smoke inhalation

<i>Event Type:</i>	Building Fire
<i>Date:</i>	Jan 18 – 07:33,2021
<i>Street Address:</i>	6433 Napier St.
<i>Response:</i>	2 nd Alarm: 5 Engines, 2 Ladders, 2 Rescue, 1 Command Unit
<i>Detail:</i>	<ul style="list-style-type: none">• Multi-Unit Residential• 3 occupants treated for smoke inhalation

<i>Event Type:</i>	Building Fire
<i>Date:</i>	Jan 23 – 02:09, 2021
<i>Street Address:</i>	2900 Blk Boundary Rd.
<i>Response:</i>	2 nd Alarm (+): 6 Engines, 2 Ladders, 2 Rescue, 1 Command Unit
<i>Detail:</i>	<ul style="list-style-type: none">• 401 Hotel• Multiple rescues of occupants performed by Department• 30 occupants temporarily evacuated

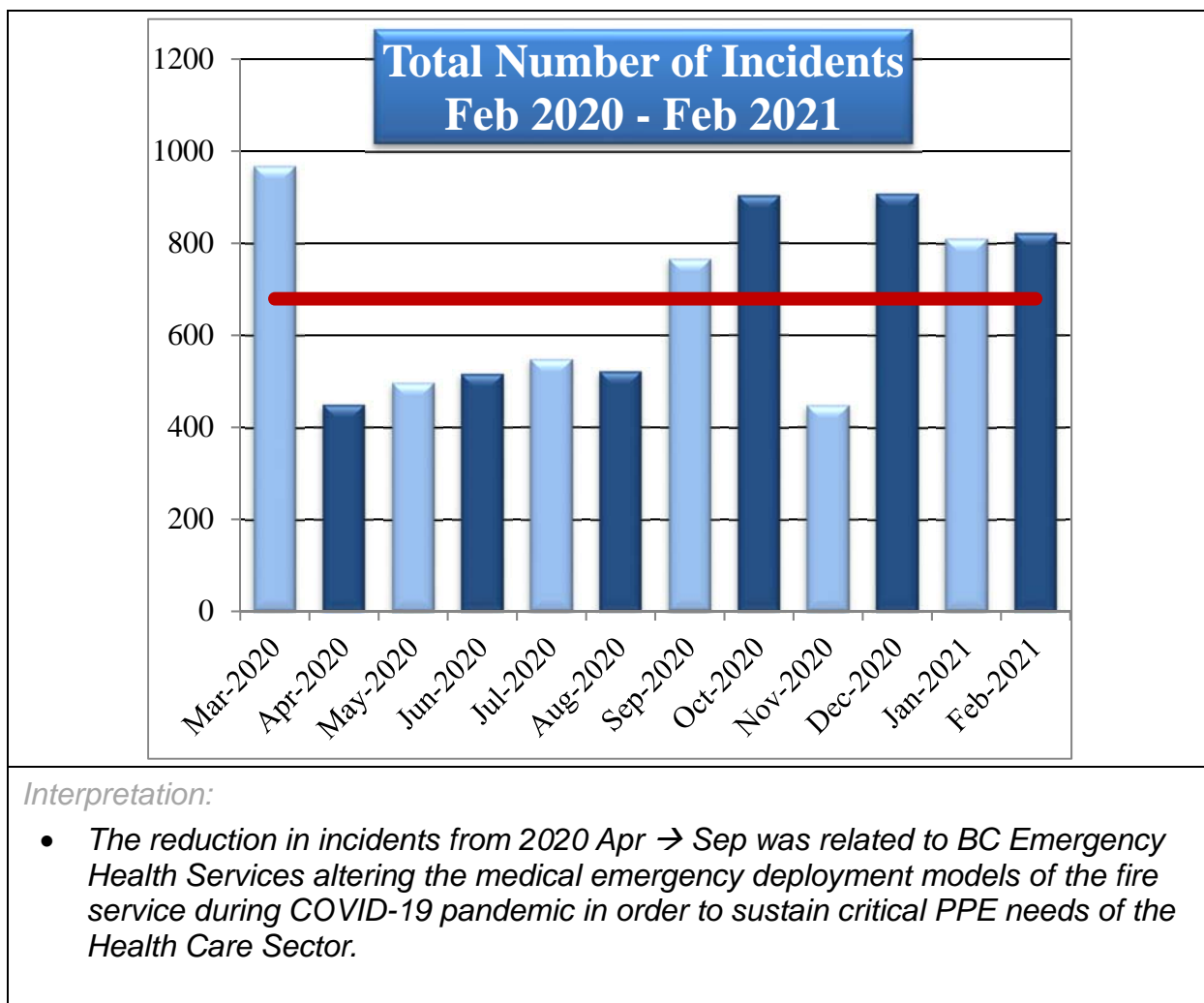
To: Public Safety Committee
From: Fire Chief
Re: Public Safety Committee Report
2021 Mar 17.....Page 4

<i>Event Type:</i>	Mutual Aid Fire Response to City of New Westminster
<i>Date:</i>	Jan 29 – 01:23, 2021
<i>Street Address:</i>	12 th St. @ 10 th Ave.
<i>Response:</i>	1 st Alarm: 3 Engines, 1 Ladder, 1 Rescue, 1 Command Unit
<i>Detail:</i>	<ul style="list-style-type: none">• Department was asked to assist City of New Westminster Fire Department at a well developed commercial strip mall fire

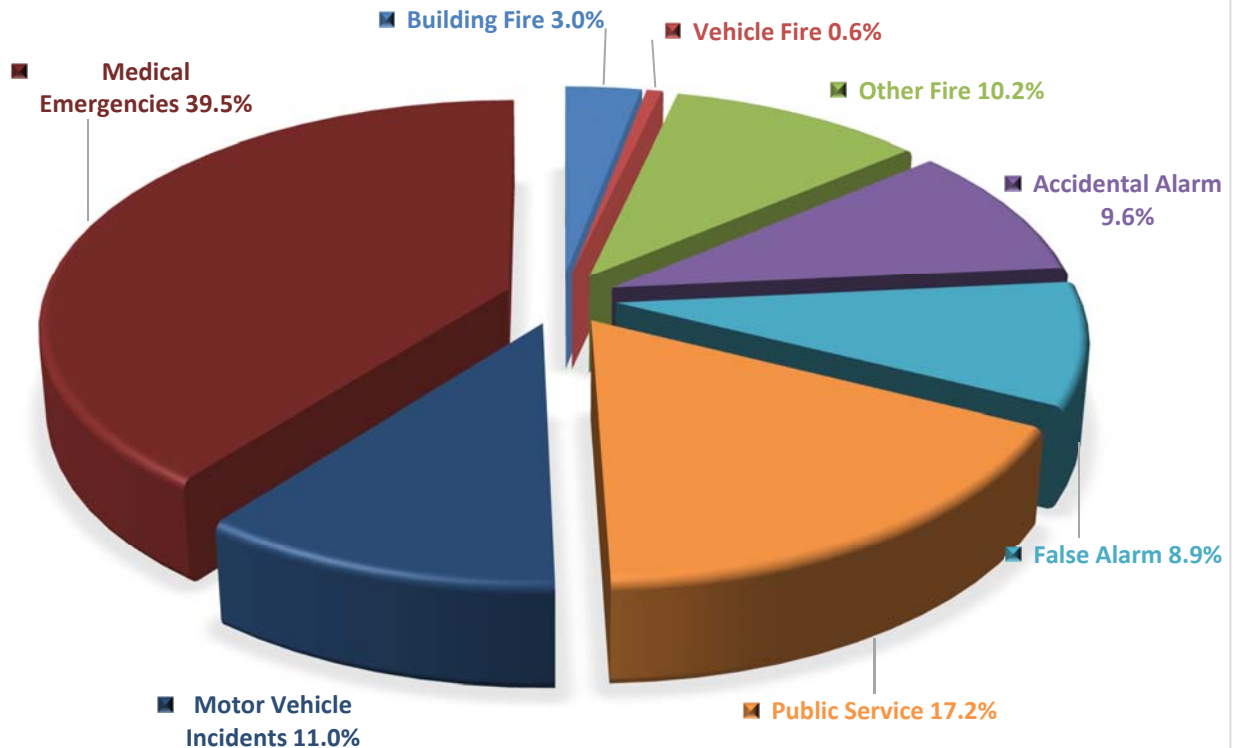
<i>Event Type:</i>	Building Fire
<i>Date:</i>	March 01 - 07:36, 2021
<i>Street Address:</i>	4112 Edinburgh St.
<i>Response:</i>	2 nd Alarm: 5 Engines, 2 Ladders, 2 Rescue, 1 Command Unit
<i>Detail:</i>	<ul style="list-style-type: none">• 2 Storey Multi-Unit Residential• 3 occupants treated for smoke inhalation

4.0 STATISTICS

4.1 Suppression Division



DISTRIBUTION OF INCIDENTS FEB 2020 - FEB 2021



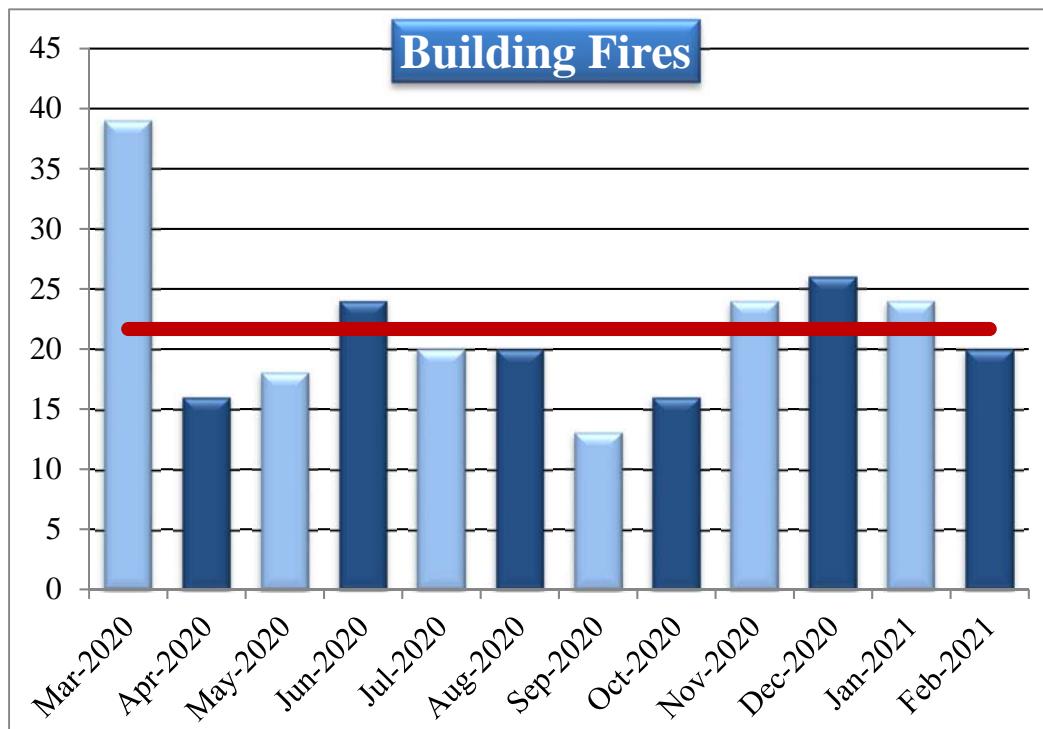
Interpretation:

- *To Date 12 Month Distribution*

Fire Incidents:	+0.3%
Motor Vehicle Incidents:	+1.0%
Medical Emergencies:	-2.5%
Public Service:	+1.2%

- *2020 Distribution*

Fire Incidents:	32%
Motor Vehicle Incidents:	10%
Medical Emergencies:	42%
Public Service:	16%

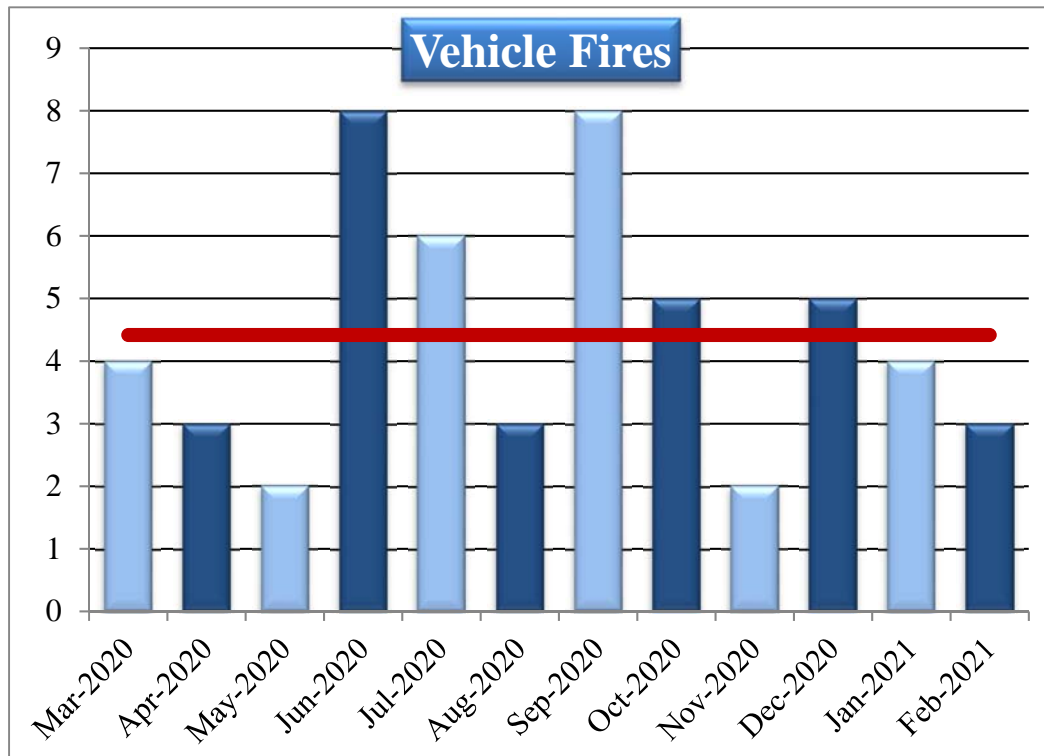


Interpretation:

- *Building Fires have been increasing through the winter months, which can be associated with increased seasonal-holiday activities related to fire risk.*
- *As the density of the City increases the number of multi-unit residential and commercial buildings, the firefighting resources required to attack fires within larger, more complex buildings with more lives present also increases. This leads to an increase in 2nd and 3rd Alarm fire incidents annually.*

Description:

- *Fires within all types of buildings and structures.*

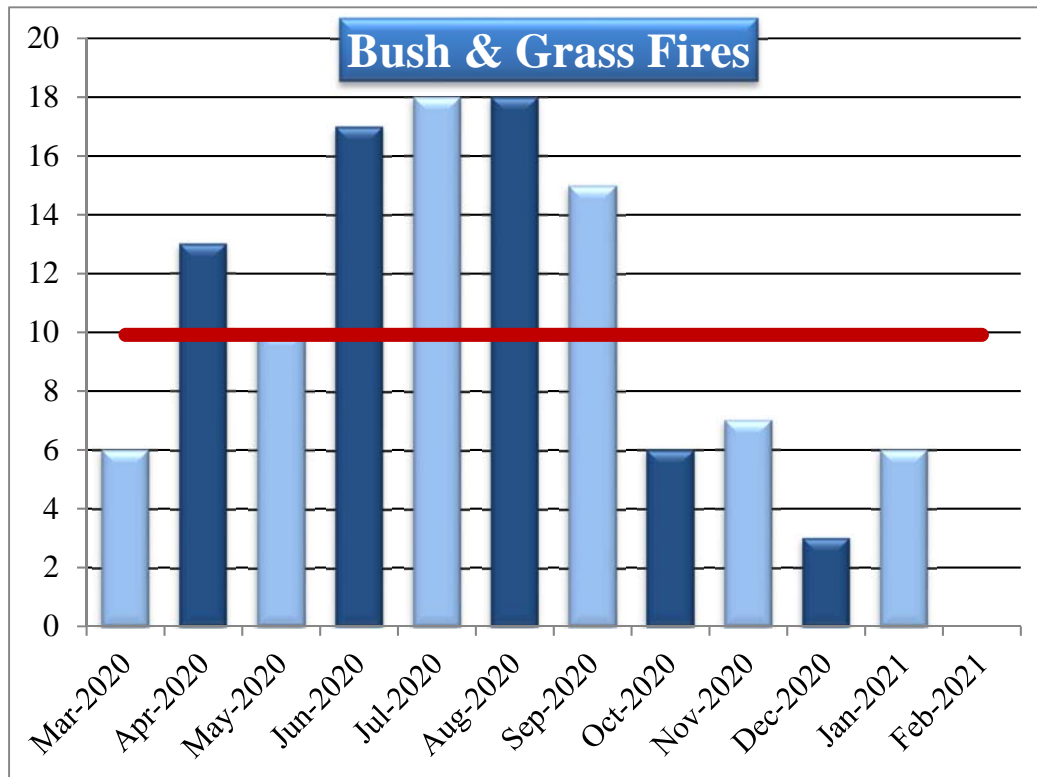


Interpretation:

- None provided.

Description:

- Fire related to all types of vehicles and mobile equipment:
 - Automobiles
 - Cranes
 - Motorcycles
 - Tractors
 - Trucks
 - Boxcars
 - Fork-lifts
 - Motor homes
 - Trailers
 - Vans

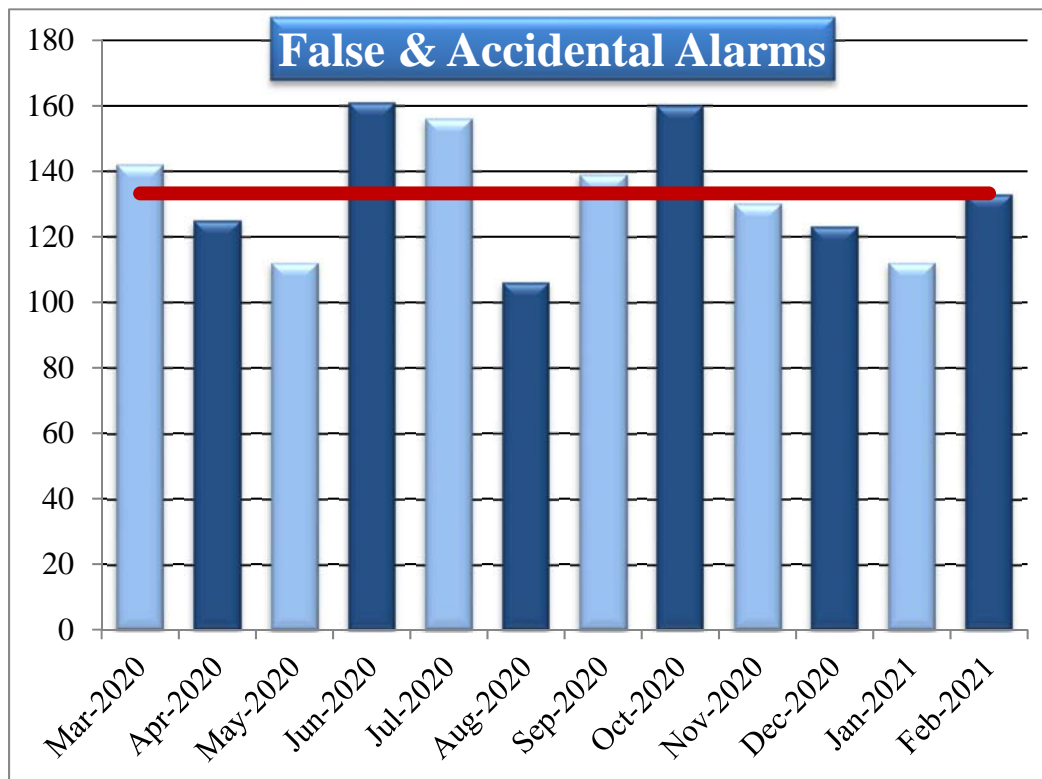


Interpretation:

- Fires in outdoor spaces typically increase during the summer months of the year.
- The drying effects of climate change on City wildland spaces has been notable.
- The dry wildland season now begins early in April and extends to October, a 6 month period.

Description:

- Fires related to outdoor spaces and lands



Interpretation:

- *It is expected that with the increasing density of living within the City, and the increase in buildings required to utilize automatic fire detection systems that the number of False & Accidental Alarm incidents will consistently and continually increase.*

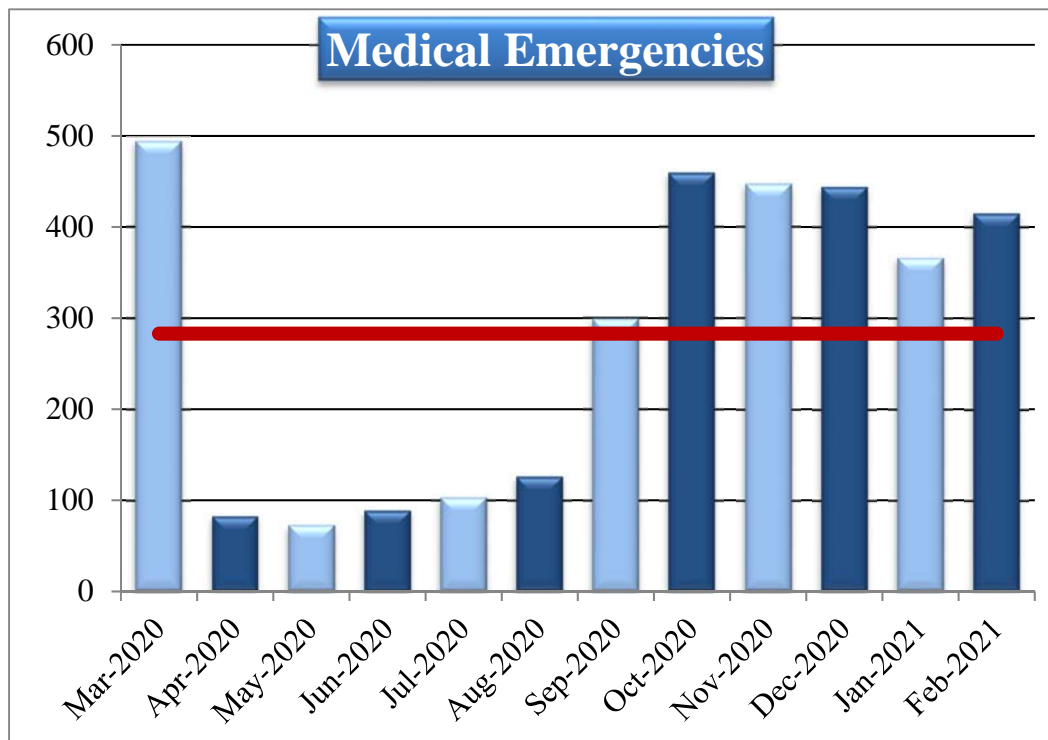
Description:

Accidental Alarm:

- *When there is a malfunction in a fire alarm system*
- *When a fire alarm is inadvertently activated*

False Alarm:

- *When a person deliberately reports a non-existent fire or emergency*
- *When a person deliberately activates an alarm system knowing that there is no fire or emergency*

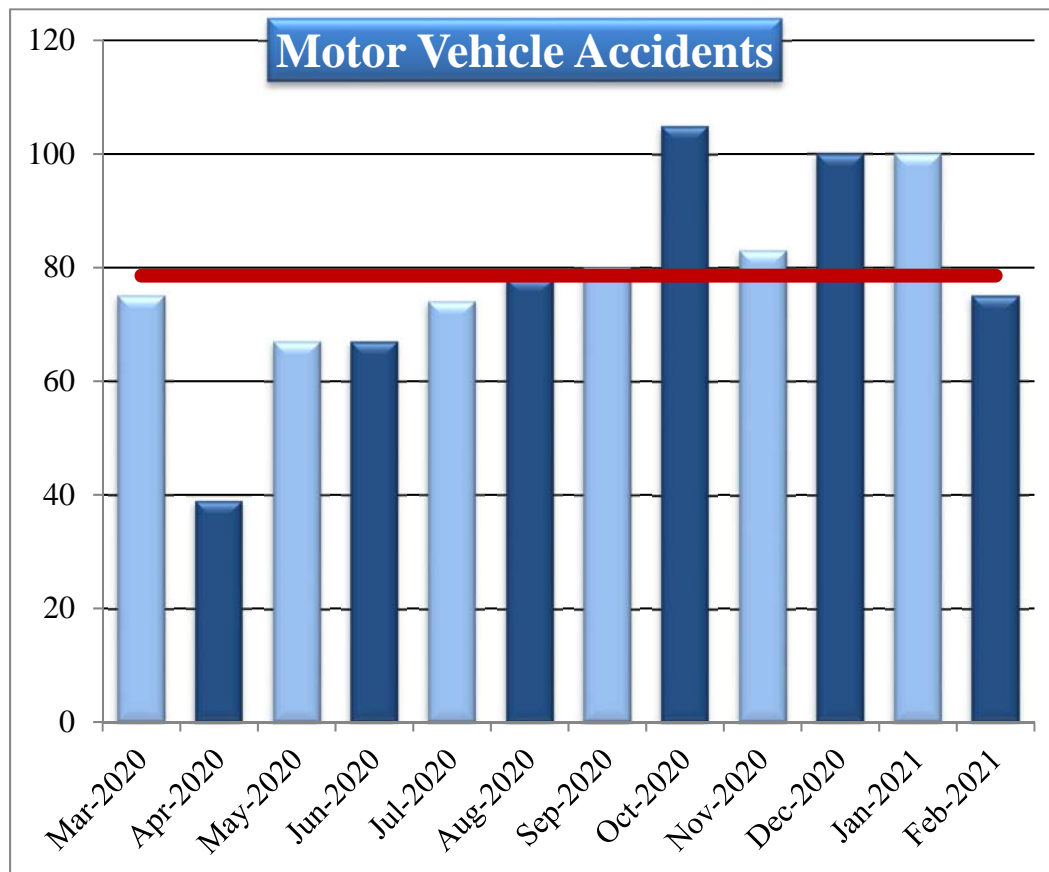


Interpretation:

- The reduction in incidents from 2020 Apr → Sep was related to BC Emergency Health Services altering the medical emergency deployment models of the fire service during COVID-19 pandemic in order to sustain critical PPE needs of the Health Care Sector.

Description:

- Home accidents
- Industrial accidents
- Sports accidents
- Other medical emergencies
- Cardiac emergencies
- Miscellaneous
- Technical rescues
- Medical emergencies involving assault
- Medical emergencies involving an overdose

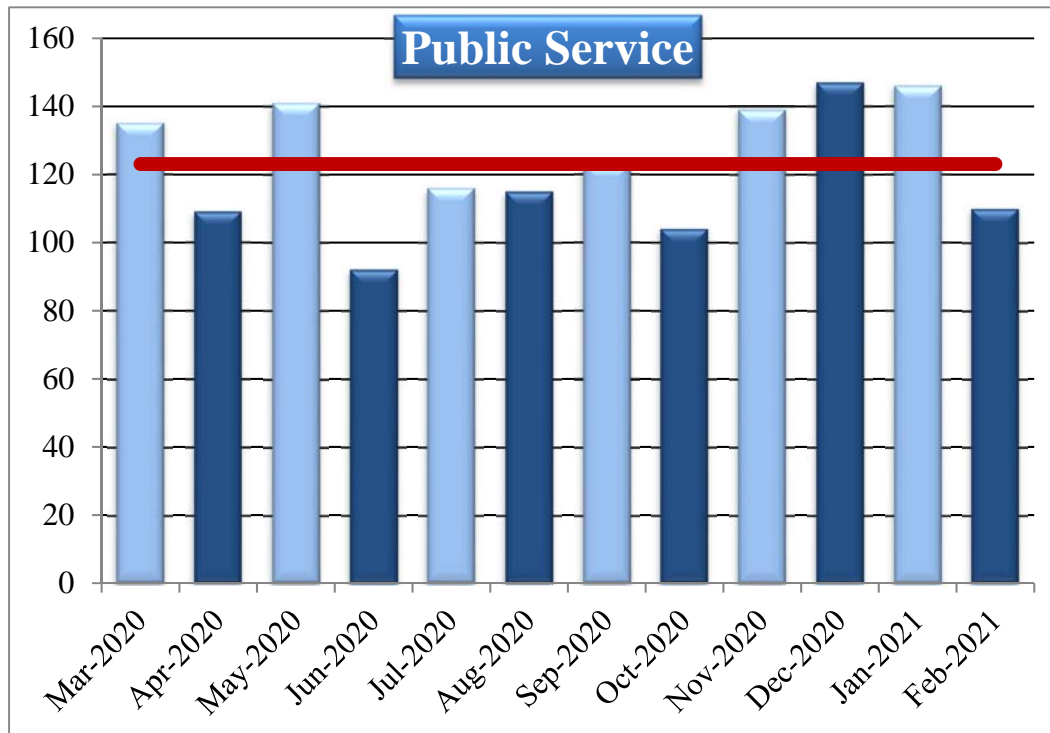


Interpretation:

- The reduction in incidents from 2020 Apr → Sep was related to BC Emergency Health Services altering the motor vehicle accident deployment models of the fire service during COVID-19 pandemic in order to sustain critical PPE needs of the Health Care Sector.
- During this initial period of the pandemic, the fire service was utilized only for high-mechanism of injury accidents where patients were more likely to be in need of Fire Department Heavy Rescue operations.

Description:

- Motor Vehicle Accidents with or without injuries



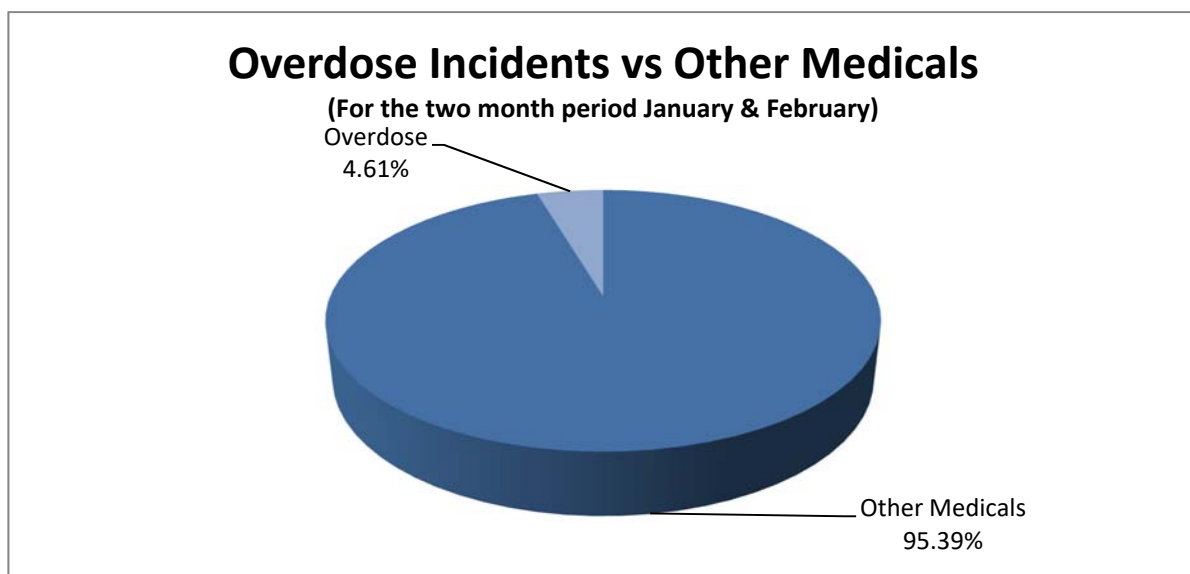
Interpretation:

- Even through the pandemic with more residents staying at home, the City is identifying increased citizen needs for non-emergency assistance of the Department.

Description:

- Assist incapacitated person(s)
- Assist person(s) to gain entry
- Assist police or other agency
- Street/road wash down
- Utility wires down
- Vehicle problems
- Water problems
- Miscellaneous
- Filming on Location
- Public Education/Demonstration/Show & Shines
- Tower Crane Survey

OVER DOSE STATISTICS	January & February
Total Medical Emergencies	781
Total Overdose Incidents	36
% of Medicals that are Overdose Incidents	4.61
Number of Naloxone Interventions	10
Number of Naloxone Doses Administered	15

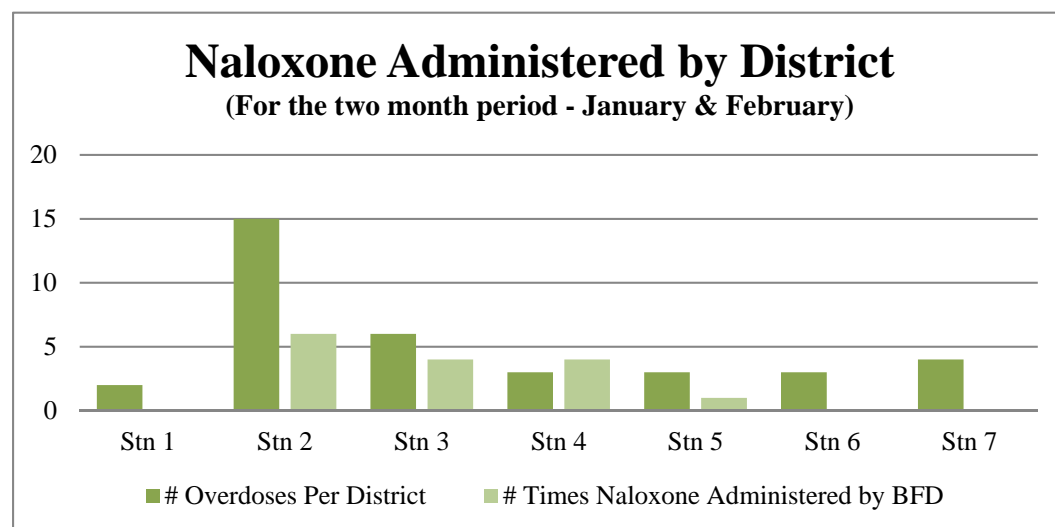
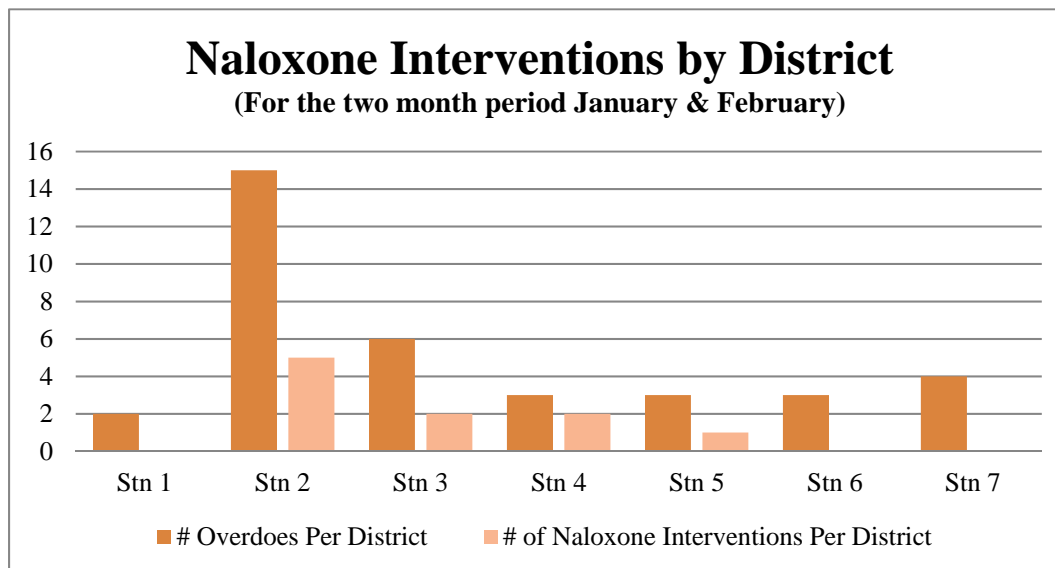


Interpretation:

- Changes in overdose incidents are driven by many factors including instability in product supply (strength), new products, and increased rates of use.

- *Overdose Incidents Historical*

Feb 2020	26	6.27%
Jan 2020	10	2.73%
Dec 2020	23	5.18%
Nov 2020	29	6.49%
Oct 2020	20	4.36%
Sep 2020	14	4.68%



Interpretation:

- Fire Station #2 - Edmonds services the South-East quadrant of the City
- Fire Station #3 – Metrotown services the South-West quadrant of the City
- Fire Station #4 – Duthie services the Northern quadrants of the City
- Fire Station #5 – Hastings services the North-West quadrant of the City

To: Public Safety Committee
 From: Fire Chief
 Re: Public Safety Committee Report
 2021 Mar 17..... Page 16

4.2 Fire Prevention Division

January	Total Activity:	197
February	Total Activity:	199

Approval & Reviews - Completed	January 2021	February 2021	Total
Building Final Approvals	19	20	39
Fire Safety Plan Approvals	13	7	20
Permit Application Reviews	49	49	98
Alternative Solutions Code Report Reviews	4	0	4
Witnessed Life Safety Functional Tests	15	8	23
Business Licenses	10	30	40
Sprinkler	23	14	37
Day Care Applications	1	1	2
	134	129	263

Investigations - Completed	January 2021	February 2021	Total
Fire Investigations Conducted	28	34	62

To: Public Safety Committee
From: Fire Chief
Re: Public Safety Committee Report
2021 Mar 17.....Page 17

Initial Inspections							
	Annual	Building	Complaint	Lockbox	Maintenance	On-Site Request	Total
January 2021 - Completed							
High-Rise Buildings	2	0	2	0	0	0	2
Low-Rise Buildings	2	0	0	1	1	0	2
Business Complexes (Warehouse, Office)	5	0	1	0	0	2	5
Base Buildings	1	1	0	0	1	2	2
Child Care Facilities	0	0	0	0	0	0	0
Educational Institutions & Schools	0	0	0	0	0	0	0
							11

Re-Inspections							
	Annual	Building	Complaint	Lockbox	Maintenance	On-Site Request	Total
January 2021 - Completed							
High-Rise Buildings	3	0	0	1	0	0	4
Low-Rise Buildings	4	0	0	0	0	0	4
Business Complexes (Warehouse, Office)	11	0	0	0	0	1	12
Base Buildings	3	0	0	1	0	0	4
Child Care Facilities	0	0	0	0	0	0	0
Educational Institutions & Schools	0	0	0	0	0	0	0
							24

To: Public Safety Committee
 From: Fire Chief
 Re: Public Safety Committee Report
 2021 Mar 17..... Page 18

Initial Inspections							
	Annual	Building	Complaint	Lockbox	Maintenance	On-Site Request	Total
February 2021 - Completed							
High-Rise Buildings	1	0	4	0	0	0	1
Low-Rise Buildings	3	0	0	2	2	0	3
Business Complexes (<i>Warehouse, Office</i>)	4	0	0	0	0	1	4
Base Buildings	3	0	2	0	0	0	3
Child Care Facilities	0	0	0	0	2	0	0
Educational Institutions & Schools	0	0	0	0	0	0	0
							11

February 2021 - Re-Inspections							
	Annual	Building	Complaint	Lockbox	Maintenance	On-Site Request	Total
February 2021 - Completed							
High-Rise Buildings	2	0	4	0	0	0	6
Low-Rise Buildings	9	0	0	0	0	0	9
Business Complexes (<i>Warehouse, Office</i>)	4	0	0	0	0	0	4
Base Buildings	3	0	3	0	0	0	6
Child Care Facilities	0	0	0	0	0	0	0
Educational Institutions & Schools	0	0	0	0	0	0	0
							25

4.3 Training Division

Fire Company Training - Completed

- *New Respirator - Rollout*
- *Pre Fire planning Burnaby Hospital*
- *Nozzle Forward working group*
- *Department watercraft maintenance*
- *First Responder training for 50 personnel*
- *AED Maintenance*
- *Monthly Safety meetings*
- *SCBA Demonstration*
- *Air Quality Indexing - Rollout*
- *CO C40 Rattler operations*
- *Satellite Phone operations*
- *New 2.5 hose proposal*
- *Mental health training*
- *Ladder platform breathing air operations*
- *BC Mental Health speaking series*
- *VHF portable radio operations*
- *Forcible Entry*
- *Dispatch Tabletop training*
- *Fire Bozz Sprinkler operations*
- *Watercraft Burnaby Lake training*
- *Ground Ladders*
- *Hose Evolutions*
- *Emergency Response*
- *Hazmat Team Leader*
- *Inclusive language*
- *Back Strength and Flexibility*
- *Learning Management log in*

Professional Development Training - Completed

Probationary Firefighter Development

- *Year 1 written and practical exams for 16 recruits*
- *Mentorship-Recruit training*
- *Chief Officer expectations*
- *Covid-19 Protocols*
- *Safety on the Job*
- *Hydrants/ Hose loads / Hose stretches*
- *Nozzle - types and applications*
- *SCBA*
- *Door procedures and dressing in*
- *Hose lines advancing charged*
- *Air Management*
- *Collision Avoidance*
- *Driving With Finesse*
- *Hose Team Stairwell*
- *Ground Ladders*
- *Ladder Rescue*
- *Fire Dynamics*
- *Advancing hose lines up ladders*
- *Portable Radios*
- *Power Equipment*
- *Hose clamping and extending*
- *Bellingham and Tudor Stretch*
- *Blitz Gun & Fire Streams*
- *Interior Search & Victim removal*
- *Tactical Ventilation*
- *Fire Ground Survival*

Fire Officer Qualification

- *Fire Officer 2 Mod 1 Online course*
- *AFC/CPA tabletop Simsushare training*

To: Public Safety Committee
From: Fire Chief
Re: Public Safety Committee Report
2021 Mar 17..... Page 21

<i>Special Operations Training - Completed</i>	
Technical Rope Rescue & Confined Space	<ul style="list-style-type: none">• <i>Technical Rescue Burnaby Mountain exercise</i>
Hazardous Material Responder	<ul style="list-style-type: none">• <i>Hazmat management group meeting</i>
Rescue Task Force – Heavy Rescue & Rapid Intervention	<ul style="list-style-type: none">• <i>Auto Extrication</i>

5.0 COMMUNITY OUTREACH

5.1 Community Engagement

<i>Event Type:</i>	Burnaby Hoarding Response Team
<i>Date:</i>	In Development
<i>Location:</i>	TBD
<i>Detail</i>	<ul style="list-style-type: none">• City Fire Department, RCMP, Property Use/Bylaw Enforcement and Citizens Support Services collaborating to respond to mental health issue that develop hoarding compulsions

<i>Event Type:</i>	BMART - Burnaby Mobilization and Resiliency Table
<i>Date:</i>	Feb 10, 17, 24, 2021
<i>Location:</i>	Fire Station #1
<i>Detail</i>	<ul style="list-style-type: none">• Working with the acutely elevated risk individuals in Burnaby

<i>Event Type:</i>	BCAT - Burnaby Community Action Table
<i>Date:</i>	Feb 17, 2021
<i>Location:</i>	Fire Station #1
<i>Detail</i>	<ul style="list-style-type: none">• Providing statistics review of Overdoses• Engaging in community safety via Zoom meetings

<i>Event Type:</i>	Ballard Power Group Meeting – Fire Extinguisher Training
<i>Date:</i>	Feb 23, 2021
<i>Location:</i>	Fire Station #7
<i>Detail</i>	<ul style="list-style-type: none">• To organize fire extinguisher training event

<i>Event Type:</i>	Polar Plunge Charity Event - March 4 th
<i>Date:</i>	Feb 11, 2021
<i>Location:</i>	Fire Station #1
<i>Detail</i>	<ul style="list-style-type: none">• Coordinated organization with RCMP and community

<i>Event Type:</i>	School Outreach Engagement
<i>Date:</i>	Feb 16, 2021
<i>Location:</i>	Fire Station #7
<i>Detail</i>	<ul style="list-style-type: none">• Meeting - Student Work Experience Teaching Fire Life Safety

5.2 Recruitment

<i>Activity:</i>	Established Portfolio Initial Objectives
<i>Date:</i>	Jan 01, 2021
<i>Detail</i>	<ul style="list-style-type: none">• To attract a larger group of target applicants into recruitment Fire processes• To facilitate greater diversity and higher quality of applicants for recruitment• To develop public outreach programs to showcase the Department as a leader within the Fire Service• To provide support for fitness preparation to job requirements and recruitment support for potential recruitment candidates• To create a stronger news media relationship and social media presence

<i>Activity:</i>	Coordination within existing Fire Service Programs
<i>Date:</i>	Jan 01 - 21, 2021
<i>Detail</i>	<ul style="list-style-type: none">• City of Burnaby Marketing• BC Fire Training Officers Association• Vancouver Fire & Rescue Services• Surrey Fire Service• Delta Fire Emergency Services• Richmond Fire Rescue• Maple Ridge Fire Department• Pitt Meadows Fire & Rescue Service• Chilliwack Fire Department

<i>Activity:</i>	Projects in Development
<i>Date:</i>	Jan 28 - current, 2021
<i>Detail</i>	<ul style="list-style-type: none">• Outreach within Department to current members• Pre-Recruitment Workshops for target recruit candidates• Media based showcasing Department and recruitment process• Re-fresh Department webpage to support greater connection

6.0 CONCLUSION

In addition to the information within this report, the Fire Department would like to communicate the following issues for consideration by the Public Safety Committee:

- Continued health and psychological impacts of the global COVID-19 pandemic stretch both the public and the City as we adjust our daily lives and operations.
- Planned industrial expansion on Burnaby Mountain poses increased risk to the community due to the operation and the commodities proposed.
- The Burnaby Mountain Conservation Area by its nature as a pristine environmental space is at high risk of wildfire caused by limited opportunities to provide fuel management activities, the general drying of the forest due to regional weather change, and increased human use and interactions.
- In 2020, the Office of the Fire Commissioner has reported an increase of greater than 100% in the number of lives lost within structure fires in the province of BC.

Chris Bowcock
FIRE CHIEF

:cb