

Follow-up report 3

08/01/2021

The event is ongoing. Weekly follow-up reports will be submitted.

Sender	Country/territory	Report ID
Delegate of Canada	Canada	FUR_37450
Report reference	Event status	Self-declaration
CAN-2020-CoV-001	On-going	No

General information

Country or zone - Country	Disease - SARS-CoV-2 in animals (Inf. with)	Started on - 26/11/2020
Animal type - Terrestrial	Confirmed on - 08/12/2020	Causal agent - SARS-CoV-2
Disease category - Emerging	Reported on - 08/01/2021	Reason - Emerging disease

Disease impact

Outbreak morbidity - 2.0	Outbreak mortality - 2.0
Zoonotic potential - Yes	Zoonotic potential description - Zoonotic disease

Epidemiology

Source of the event or origin of the infection - Suspected human transmission

Epidemiological comments The near complete genome sequences of SARS-CoV-2 were obtained for all 3 BC mink samples from the second mink farm (approx. 99.7% genome coverage) by CFIA NCFAD. Sequence analysis of the 3 new mink sequences identified at least 3 single nucleotide polymorphisms (SNP) compared to the SARS-CoV-2 sequences from the first BC mink farm and other sequences reported in GISAID. The 3 new mink sequences belong to SARS-CoV-2 lineage B.1.1.73, which is a lineage primarily consisting of North American sequences (all 319 lineage B.1.1.73 sequences reported in GISAID were collected in North America as of 2020-12-31).

Control measures at event level

Domestic control measures

Applied	To be applied - Screening
- Slaughter	
- Quarantine	
- Movement control inside the country	

Wild control measures

Applied	To be applied - Screening
- Slaughter	
- Quarantine	
- Movement control inside the country	

Diagnostic

Clinical signs - No

Method of diagnostic - Diagnostic test

Test name	Category	Test type	Laboratory	Species sampled	Outbreaks	Tested from	Tested until	Result
Real-time reverse transcription polymerase chain reaction	Nucleic acid detection	Laboratory Test	Animal Health Center Local Laboratory	Mustelidae		05/12/2020		Positive

(rRT-PCR)								
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	Nucleic acid detection	Laboratory Test	National Centre for Foreign Animal Disease	Mustelidae		08/12/2020		Positive
Virus sequencing	Genotyping	Laboratory Test	National Centre for Foreign Animal Disease	American Mink		11/12/2020		Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	Nucleic acid detection	Laboratory Test	Animal Health Center	American Mink		21/12/2020		Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	Nucleic acid detection	Laboratory Test	National Centre for Foreign Animal Disease	American Mink		23/12/2020		Positive
Virus sequencing	Genotyping	Laboratory Test	National Centre for Foreign Animal Disease	Mustelidae		31/12/2020		Positive

Quantitative data summary

Measuring unit - Animal

Species	Type	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated	Outbreak morbidity	Outbreak mortality
Mustelidae	New	-	-	-	-	-	-	-	-
Mustelidae	Total	15950	233	233	0	10917	-	1.46	1.46
All species	New	-	-	-	-	-	-	-	-
All species	Total	15950	233	233	0	10917	-	1.46	1.46

Event morbidity - 2.0

Event mortality - 2.0

Outbreaks

1000142208-Fraser Valley

Outbreak reference - BC-2020-002

Started on - 16/12/2020

First administrative division - British Columbia

Second administrative division - Fraser Valley

Epidemiological unit - Farm

Geographic coordinates - 49.1,-122.0

Third administrative division - Chilliwack

Location - Fraser Valley

Description of the affected populationBC-2020-002 Domestic American Mink (Neovison vison) commercial farm.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and	Slaughtered	Vaccinated
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						disposed of		
Mustelidae	New	Animal	-	-	-	-	-	-
Mustelidae	Total	Animal	950	33	33	0	917	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	950	33	33	0	917	-

1000140723-Fraser Valley

Outbreak reference - BC-2020-001 Started on - 26/11/2020 First administrative division - British Columbia

Second administrative division - Fraser Valley Epidemiological unit - Farm Geographic coordinates - 49.1,-122.1

Third administrative division - Abbotsford Location - Fraser Valley

Description of the affected populationBC-2020-001Domestic American Mink (Neovison vison) commercial farm.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Mustelidae	New	Animal	-	-	-	-	-	-
Mustelidae	Total	Animal	15000	200	200	0	10000	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	15000	200	200	0	10000	-

Map legend

OUTBREAKS REPRESENTATION ON MAP

OUTBREAKS NATURE

Single / Cluster

Domestic species



Wild species



Domestic & Wild



OUTBREAKS STATUS

Outbreak currently reported



Ongoing outbreak



Resolved outbreak



AGGREGATION REPRESENTATION

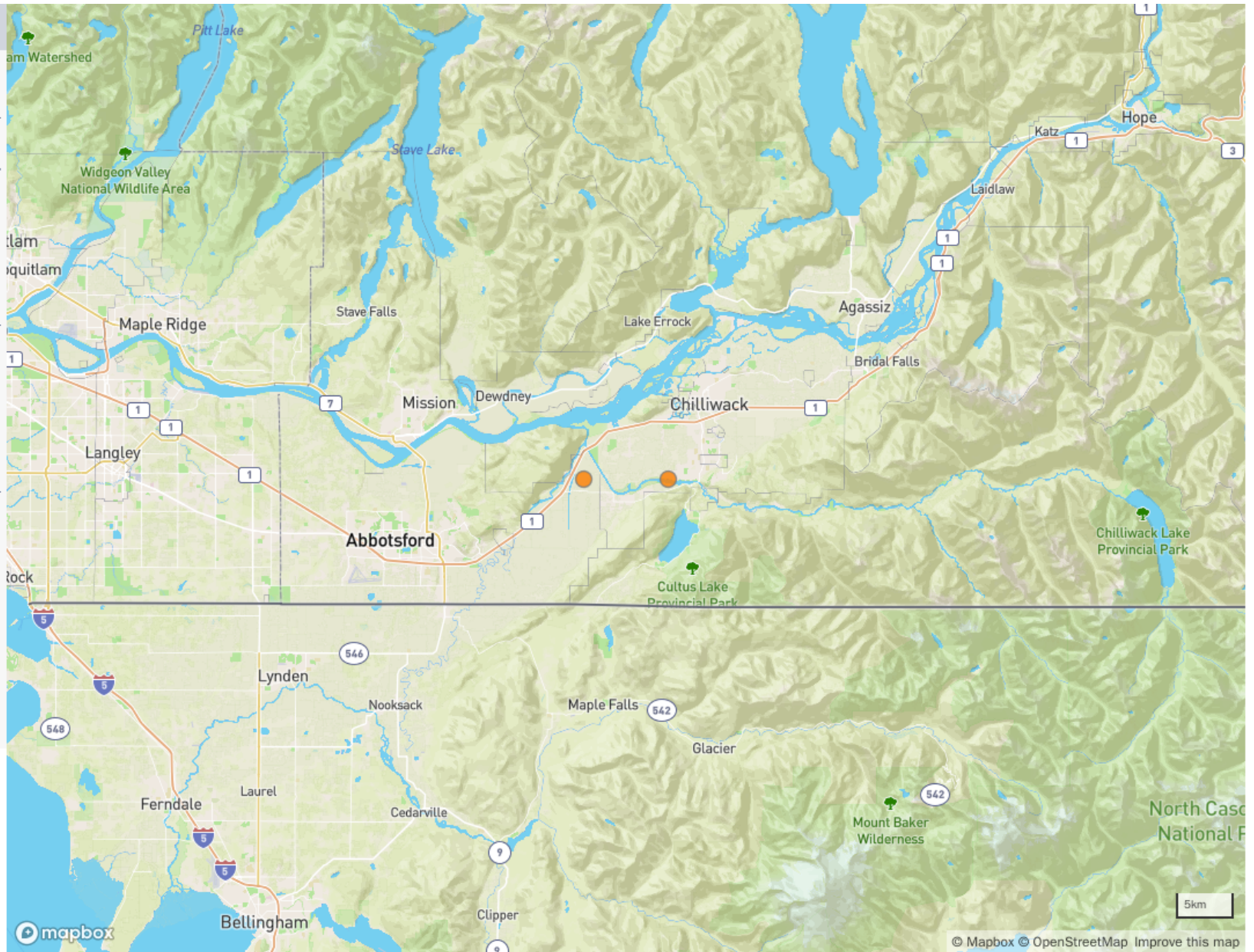
< 20 outbreaks



20 - 100 outbreaks



> 100 outbreaks



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