

Update # 11 - Flooding - Atmospheric River Event - Multiple Regions

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Sent: November 15, 2021 12:19:17 PM PST

Attachments: image002.png, image004.png, image005.png, image006.png, image003.png,
 image001.png

Update # 11

15 November, 2021 – 1215hrs

Central Region

- An evacuation order has been issued for the entire City of Merritt.
- Buses are being used to provide transportation for persons without personal means of transit.
- Where possible persons are being encouraged to stay with family and friends. For residents where this is not an option they are being directed to Kelowna and Kamloops.
- Residents of Merritt with odd number addresses are being directed to the Kamloops ESS Reception Centre, located at McArthur Island (1655 Island Parkway).
- Residents of Merritt with even number addresses are being directed to the Kelowna ESS Reception Centre is located at 1800 Parkinson Way.

SW Region

- The JRCC is currently supporting response for persons stranded on Highway 7 due to landslides.
- 3 Cormorants are working to assist RCMP, BCEHS, Aggasiz Fire and Canada Task Force One to evacuate stranded motorists into Aggasiz.

VIR Region

- An evacuation order has been issued for the Halalt First Nations community due to flooding and an ruptured water main.

The Provincial Emergency Coordination Centre has been stood up to support response.

Further updates will be provided as information becomes available.

Colin Mathie | Provincial Duty Manager

Emergency Management BC

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Update # 10

City of Merritt – Central Region

- The water treatment plant is considered unsafe for personnel and will be locked up and un-occupied.
- As a result, there will be potentially no clean water or sewage treatment with the likelihood of evacuating the entire City of 7800 people.

Further updates will be provided as information becomes available on this developing event.

Mitchell Lee | Provincial Duty Manager

Update # 9

City of Merritt – Central Region

- The City is at risk of losing their water treatment plant which would compromise the entire city utility infrastructure.
 - Public works have been reassigned from other areas to focus on saving the plant.
- Swift water team was required to assist in evacuating one homeowner due to high, rushing water.
- This event will require ESS supports - intending to send some evacuees to Kamloops.

Mitchell Lee | Provincial Duty Manager

Update # 8

15 November, 2021 – 5:24 hrs

City of Merritt – Central Region

- Declared a SOLE due to flooding.
- Evacuation Order issued for properties South of Coldwater Avenue and East of Voght Street:

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Mitchell Lee | Provincial Duty Manager

Update # 7

15 November, 2021 – 3:03 hrs

Central Region

- A SOLE was declared for the Town of Princeton.

Mitchell Lee | Provincial Duty Manager

Central Region

15 November, 2021 – 2:41 hrs

Regional District of Okanagan-Similkameen

- Village of Coalmont intends to issue an Alert.

- The fire department from Coalmont is in Tulameen assisting with efforts.

Town of Princeton

- 3 Evacuation Orders issued for low-lying properties along the Tulameen River.
- Dike has breached. Estimated water level is 18 inches above dike.
- Downtown core is flooded, as well, as areas north and west of the community.
- Group lodging/comfort centres are being set up at Riverside Community Hall. Schools may be used, if out of room.
- SAR has been requested to assist with evacuations- swift water capability only.
- Boil water notice in effect.

City of Merritt

- Dike has breached while rain is still falling and water levels rising.
- Evacuating 800 to 900 residences.
- Group lodging/warming centres are being set up. Churches may be used, if out of room.

Southwest Region

Motor Vehicle Accident – Lougheed Highway (Ruby Creek, near Agassiz)

- According to news media: 6-10 people trapped within vehicles due to mudslide.
- HUSAR TF#1 expected to be fully on site around 01:45 am.
- News link: <https://www.cbc.ca/news/canada/british-columbia/agassiz-bc-mudslides-highway-closure-1.6248999>

Mitchell Lee | Provincial Duty Manager

Update # 5

15 November, 2021 – 2:14 hrs

Central Region

City of Merritt

- An Evacuation Order issued for all properties within the Coldwater River 200-year flood plain. An Alert was previously issued for the same area.

Mitchell Lee | Provincial Duty Manager

Update # 4

15 November, 2021 – 1:36 hrs

Southwest Region

Fraser Valley Regional District

- An Evacuation Order issued for 53730 Bridal Falls Road (Camperland RV Resort & Cabins).
- An Evacuation Order issued for 4 properties on Auchenway Road in EA “E”.

District of Kent

- SOLE declared due to flooding.
- An Evacuation Alert for residents south of 6500 block of Rockwell Drive.

Mitchell Lee | Provincial Duty Manager

Update # 3

15 November, 2021 – 0:58 hrs

Southwest Region

Fraser Valley Regional District

- SOLE declared due to flooding and mudslides.

City of Abbotsford

- An Evacuation Alert issued for Clayburn Area: Clayburn Village and surrounding area.
- An Evacuation Alert issued for Eagle Mountain Areas: Cranberry Court, Briarwood Place, Doneagle Place.
- An Evacuation Alert issued for Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road.
- An Evacuation Alert issued for Sumas Prairie: Westside of Whatcom Road, East of Huntington Village, Southside of Vye Road.
- An Evacuation Alert issued for Straiton Areas: Dawson Road East of Sumas Mountain Road.

DGIR 213178 - Train Derailment (2 Cars) - Mile 80 Yale - SWE

- Derailment likely due to rain.
- No dangerous goods. Dry materials.

- No injuries or waterways impacted.
- Assessing situation.

Central Region

City of Merritt

- An Evacuation Alert issued for all properties within the Coldwater River 200-year flood plain. An Evacuation Order is expected to be issued later.

Regional District of Okanagan-Similkameen

- An Evacuation Order issued for 34 addresses in EA “H” due to flooding.

Highway Closures

- Highway 1 (Agassiz – Spences Bridge).
- Highway 3 (Sunshine Valley).
- Highway 5 (Hope – Merritt).
- Highway 7 (Maple Ridge – Hope).
- Highway 11 (US border – Vye Road, Abbotsford) .

Further updates will be provided as information becomes available.

Mitchell Lee | Provincial Duty Manager

Update # 2

14 November, 2021 – 22:25 hrs

Southwest Region

- SWE PREOC is activated.
- Abbotsford, Pitt Meadows, District of Kent and City of Langley have activated their EOCs.
- **Landslide** – District of Kent. EPC will investigate tomorrow.
- **Landslide** – Abbotsford (Quadling Road). EPC will investigate tomorrow. No impacts to report at this time.
- **Rockslide** - Highway 1 (south of Spuzzum, north of Yale). No impacts to report at this time.
- **Mudslide** – Abbotsford (Glencoe Place). 1 residence on Evacuation Alert.
- **Mudslides** – Abbotsford (Eagle Mountain/Cranberry Court). Potential of Evacuation Order and SOLE being declared.
- **Mudslide** - Highway 1 (Hope to Chilliwack) closed in both directions between Annis Rd and K St for 38.4 km.
 - Road will remain closed pending geotechnical study.
- **Flooding** - Highway 11 (Abbotsford) is closed from 4th Avenue to the Sumas Border.
- **Tactical Evacuation** - 200 residents were tactically evacuated by Popkum Fire Department in Bridal Falls area.
- **Motor Vehicle Accident** – Lougheed Highway (Ruby Creek, near Agassiz).
 - Initial report of a semi-truck and two cars going over an embankment due to mudslide.
 - Agassiz Fire Department and Hope SAR assisting. HUSAR TF#1 called out.

Central Region

- **Evacuation** - Initial report of 24 properties evacuated in Tulameen.
 - Dike built by FLNRO has potential to burst under current conditions.
- Potential of an Evacuation Order/Alert being issued in Princeton.
- Both Princeton and Tulameen activated their EOCs.

Further updates will be provided as information becomes available.

Mitchell Lee | Provincial Duty Manager

Update # 1

14 November, 2021 – 20:00 hrs

- An additional 13 people were evacuated due to flooding in the Clayburn Lane area.
- The City of Langley has issued an evacuation order to a family of two, due to a landslide affecting their home.
- The City of Fernie, the Fraser Valley Regional District, and the Regional District of Okanagan-Similkameen activated their Emergency Operations Centres to monitor flooding and assist homeowners.
- Emergency Support Services continues to respond to support evacuees.
- Multiple roads around the Lower Mainland are experiencing closures and washouts. City/MOTI crews are responding as required.
- BC Hydro reports a large outage in Hope, Spuzzum, Yale, and surrounding areas caused by the weather event. The estimated time of power restoration is unknown at this time.

Further updates will be provided as information becomes available.

Paul Brandson | Provincial Duty Manager

Initial Report

14 November, 2021 17:00 hrs

Heavy rainfall in the southwest has resulted in mudslides closing both the Trans-Canada and Coquihalla Highway near Hope.

Highway 11 is closed near the Sumas border due to flooding.

Flooding in Abbotsford has displaced people from 12 homes in the Clayburn Lane area. Emergency Support Services is responding to provide assistance.

Chilliwack, Hope, and Abbotsford have activated their Emergency Operations Centres to monitor flooding and provide assistance as necessary.

Further updates will be provided as information becomes available.

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Msg to Dist List 1, SWE.

Media:

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Paul Brandson | Provincial Duty Manager

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PECC Situation Report (INITIAL) November 15, 2021

From: EMBC PECC Operations 1 EMBC:EX <s.17 >
Sent: November 15, 2021 11:10:07 PM PST
Attachments: 21_PECC SitRep_Nov 15_2021_#1_FINAL.pdf

Please find attached, the situation report for the Provincial Emergency Coordination Centre for November 15, 2021.

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PECC ACTIVATION DAY NO. 1

NOVEMBER 15, 2021

Hazard(s): Atmospheric River Storm

Operational Period: November 15, 2021, 08:30 hrs to Closing

Next Sitrep will be issued: November 16, 2021

Primary PECC E-mail:s.17

Primary PECC Phone: 778-698-8617

Information current as of Nov 15, 2021 at 17:00h

Note: Information contained in this situation report is for operational purposes only. The contained information is not meant for external dissemination. If you wish to use information contained herein for release, you must clear it with the PECC Director.

PROVINCIAL SITUATION

The EMBC Provincial Emergency Coordination Centre (PECC) is activated in support of three Provincial Regional Emergency Operations Centres (PREOCs) and a widespread atmospheric river storm event that has resulted in multiple flooding, landslide, mudslide, power outage and other incidents and human consequence impacts across the BC southern coastal and interior regions.

The storm has damaged, blocked, and impacted multiple roadways, causing widespread road closures and stranding hundreds of motorists overnight on Nov. 14, 2021. Rescue efforts have continued throughout Nov. 15, 2021, and reports indicated all stranded motorists have now been able to seek shelter and appropriate supports in nearby communities.

First Nations and Local Authority communities have seen widespread flooding and power outages which have led to roadway closures, infrastructure impacts, evacuation orders and evacuation alerts. The situation is dynamic and full, accurate situational awareness remains challenging, but current estimates suggest that provincially there are over 524 properties on Evacuation Order, 315 properties on Evacuation Alert and then an additional 7,800 people on Evacuation Order in the Town of Merritt because of the storm.

As a result of the severe weather events this week, EMBC has approved Disaster Financial Assistance (DFA) for flooding in the Vancouver Island & Central Coast, Southwest, and Central regions of the province, including all First Nations communities, electoral areas, and municipalities within these areas.

WEATHER OUTLOOK AND ALERTS

A significant atmospheric river has made landfall across southern coastal regions of British Columbia. Observed rainfall amounts since yesterday have been in the 50-185 mm range across the Coquihalla, upper Coldwater and Tulameen River watersheds. Temperatures have been rising, with temperatures in the 5-7°C range being observed at automated snow weather stations across the region. Snowmelt is being observed at mid-elevations and is adding additional runoff to rivers. Rivers have risen rapidly, with

further rain in the forecast through today, Monday, November 15th (turning to snow at higher elevations).

While the weather picture calmed somewhat over the day, weather warnings continue for much of the southeastern part of the province tonight, including both rainfall and snow warnings. More information available on current warnings available from [Environment Canada](#).

RIVER FORECAST CENTRE (RFC) WATCHES AND WARNINGS

EMBC Central Region

RFC is upgrading or maintaining a Flood Warning for:

- Lower Nicola River
- Similkameen River
- Tulameen River and tributaries
- Coldwater River

EMBC Southwest Region

RFC is upgrading or maintaining a Flood Warning for:

- Coquihalla River
- Sumas River and areas around the US Border

RFC is upgrading to or maintaining a Flood Watch for:

- Sea-to-Sky
- Howe Sound
- North Shore Mountains Fraser Valley including surrounding tributaries
- Fraser Canyon tributaries, including tributaries around Hope
- Chilliwack River

RFC is maintaining a High Streamflow Advisory for:

- Sunshine Coast
- Metro Vancouver

EMBC Vancouver Island & Central Coast Region

RFC is upgrading or maintaining a Flood Warning for:

- Englishman River (NEW)
- Cowichan River
- Koksilah River

HUMAN CONSEQUENCE IMPACTS

EMERGENCY SUPPORT SERVICES (ESS)

Due to the widespread and dynamic nature of the extreme atmospheric river event, exact reporting of ESS activity across all regions and communities remains challenging, and the information below will likely be amended as greater reporting accuracy is achieved.

The total number of active ESS Reception Centres is reported to be approximately 20 (many of these communities are providing mutual aid as host communities)

Communities hosting Reception Centres include:

- Kamloops
- Kelowna

- Abbotsford
- Chilliwack
- Hope
- Agassiz
- Regional District Okanagan Similkameen/Penticton
- Salmon Arm

Additional Information

- The Provincial ESS Call Centre is receiving high call volume and has extended their hours until 18:00h tonight
- Availability of commercial accommodation in Kamloops is low and the city is experiencing up to 5-hour wait times at their Reception Centre to provide supports.
- Kelowna has accommodation capacity for additional evacuees.

FLOOD IMPACTS

INFRASTRUCTURE & TRANSPORTATION

- Highway Closures:
 - Highway 1 (Agassiz – Spences Bridge)
 - Highway 3 (Sunshine Valley)
 - Highway 5 (Hope – Merritt)
 - Highway 7 (Maple Ridge – Hope)
 - Highway 11 (US border – Vye Road, Abbotsford)
- Stranded Motorists Incident – Highway 7 near Agassiz - SWE
 - Two vehicles and a semi-truck went over an embankment due to mudslide.
 - Approximately 80 vehicles were stranded overnight on the roadway.
 - Agassiz Fire Department, Hope SAR and HUSAR Taskforce #1 responded to assist people trapped in their vehicles
 - The Joint Rescue Coordination Centre (JRCC) supported the response with 3 Canadian Armed Forces (CAF) Cormorant helicopters
 - Reports suggest over 270 people were rescued from site and up to 5 patients were transferred to hospital
- Stranded Motorists Incident - Hwy 99 near Lillooet - SWE
 - At least 3 slides were identified in the 30km area south of Lillooet
 - 42 vehicles and 65 people were stranded at the location
 - Ground Search and Rescue teams assisted the response
 - Reports indicate all motorists were rescued
 - Information was limited due to a lack of cell coverage in the area
- Stranded Motorists Incident – Hwy 1 near Haig - SWE
 - Approximately 200 vehicles were stranded on Hwy 1 by landslides in the Haig area
 - Rescue efforts were slowed by the need to de-energize nearby powerlines
 - After de-energization had occurred, an egress path to Hope was cleared
 - As of the evening of Nov. 15, 2021, all motorists are reported to have arrived in Hope
 - Further emergency supports are being planned for the Hope community and travellers stranded there for Nov. 16, 2021
- Train Derailment (2 Cars) - Mile 80 Yale – DGIR Code 1 - SWE
 - Cause unknown, but suspected to be due to rain
 - No dangerous goods; dry materials only
 - No reports of injuries or waterways impacted

- Reports are being investigated of further mud and landslides events impacting District of Kent, Highway 1, and Abbotsford
- There have been multiple additional road closures throughout the day in the SWE, CTL and VIC regions, with impacts continuing in numerous locations across all 3 regions.
- For a complete list of highway and road closures, including ferry disruptions due to flooding, see [DriveBC](#).

UTILITIES/ TELECOMMUNICATIONS

- Fortis BC:
 - Sunshine Coast at Roberts Creek distribution line and intermediate pressure line exposed in creek. Hydro line de-energized and FD on scene.
 - Halfmoon Bay distribution pressure line is exposed
 - A main distribution line at Princeton is impacted with up to 1200 customers possibly affected
 - Distribution line at Merritt is impacted but the full extent cannot be confirmed due to current high-water levels
 - Fraser Valley distribution line service in a farmer's field near Seabird Island is leaking and being isolated
- Telecommunications:
 - Bell cellular voice/data outages in the Fraser Valley and Northern Vancouver

CROSS-MINISTRY AND AGENCY UPDATES

HEALTH

- Due to the sewage and water shutdowns in Merritt, Interior Health is planning the evacuation of the Merritt hospital, as well as several other health facilities in the area, including Long-Term-Care and Assisted Living sites.
- Power outages and road closures are impacting staffing and critical supply lines to health facilities and Long-Term Care and Assisted Living sites, particularly in the Hope area.
- Some vaccine clinics in VCH/PHC have been canceled due to weather conditions and travel issues.
- Planning underway to prepare for the impacts of expected wind and power outages in the Island and south-coast areas overnight.

PROVINCIAL REGIONAL UPDATES

CENTRAL REGION (CTL)

CTL PREOC has activated in response to flooding.

Due to the widespread and dynamic nature of the extreme atmospheric river event, exact reporting of community impacts remains challenging, and the information below will likely be amended as greater reporting accuracy is achieved.

FIRST NATIONS

- Coldwater First Nation
 - Band Council Resolution Declared
 - Evacuation Order Issued: 3 Properties
- Shakan First Nation

- Band Council Resolution Declared
 - Evacuation Order Issued: Approximately 70 people
 - Evacuation Alert Issued
- Nooaitch First Nation
 - Band Council Resolution Declared
 - Evacuation Order Issued: Approximately 100 people

LOCAL AUTHORITIES

- City of Merritt
 - State of Local Emergency Declared
 - Evacuation Order Issued: Entire Community (Approx. 7800 people)
 - Due to failure of sewage treatment plant (unsanitary conditions)
 - Significant ESS supports being provided in Kamloops & Kelowna
 -
- Columbia Shuswap Regional District
 - State of Local Emergency Declared
- Regional District Okanagan-Similkameen
 - EOC Activated
 - State of Local Emergency Declared
 - Evacuation Order Issued: 24 Properties
- Thompson Nicola Regional District
 - Evacuation Alerts Declared
 - Electoral Area “I” (Blue Sky Country)
 - Electoral Area “M” (Beautiful Nicola Valley – North)
 - Electoral Area “N” (Beautiful Nicola Valley – South)
- Tulameen
 - EOC Activated
- Town of Princeton
 - EOC Activated
 - State of Local Emergency Declared
 - Evacuation Order Issued: Properties along the Tulameen River
 - Evacuation Alert Issued: Properties along the Similkameen & Tulameen Rivers
- Salmon Arm District
 - EOC Activated

ESS Reception Centres:

- Regional District Central Okanagan: Kelowna – Parkinson Activity Centre
- City of Kamloops: McArthur Island Sport and Event Centre
- Regional District Okanagan Similkameen: Penticton - Bus Barn

SOUTHWEST REGION (SWE)

SWE PREOC activated in response to flooding

Due to the widespread and dynamic nature of the extreme atmospheric river event, exact reporting of community impacts remains challenging, and the information below will likely be amended as greater reporting accuracy is achieved.

FIRST NATIONS

- Chawathil First Nation
- Kwikwetlem First Nation
 - Put on flood alert from BC Hydro Dams.
- Leq'á:mel First Nation
- Matsqui First Nation
 - Band Council Resolution Declared
- Peters First Nation
- Skawahlook First Nation

LOCAL AUTHORITIES

- City of Abbotsford
 - State of Local Emergency Declared
 - 3 Evacuation Orders Issued
 - 7 Evacuation Alerts Issued
- Bowen Island
- Burnaby
- City of Chilliwack
- Fraser Valley Regional District
 - State of Local Emergency Declared
 - 4 Evacuation Orders Issued
 - 3 Evacuation Alerts Issued
- Town of Hope
 - Access from all Highways (1,3,5) cut off
 - Significant power outages for much of the day (w/hospital on generator)
 - Many motorists stranded in community
 - Report of restoration of power late day
- District of Kent
 - State of Local Emergency Declared
- City of Langley
- Mission
- New Westminster
- Pemberton
- Pitt Meadows
- Port Coquitlam
- Richmond
- Squamish Lillooet Regional District
- Squamish District
- Sunshine Coast Regional District

ESS Reception Centres:

- Abbotsford: Abbotsford Recreation Centre
- Agassiz: Agassiz Agricultural Hall
- Chilliwack: Chilliwack Secondary School
- Hope: Grace Baptist Church and Hope Secondary School

VANCOUVER ISLAND AND CENTRAL COAST REGION (VIC)

VIC PREOC activated in response to flooding

FIRST NATIONS

- Halalt First Nation:
 - 150 evacuees
 - Band Council Resolution Declared
 - Evacuation Order Issued
- Snuneymuxw First Nation:
 - Band Council Resolution Declared
 - Evacuation Order Issued
 - 25 evacuees (approximate)
- Penelakut First Nation:
 - Evacuation Order Issued
 - 50 evacuees (approximate)
- Cowichan Tribes:
 - Evacuation Order Issued
 - 120 evacuees (approximate)
- Pauquachin First Nation
 - Evacuation Order Issued

LOCAL AUTHORITIES

- Cowichan Valley Regional District:
 - State of Local Emergency Declared (applying to Cowichan Tribes, Halalt First Nation, Penelakut Tribe, Cowichan Valley Regional District, Municipality of North Cowichan and City of Duncan)
 - Evacuation Order Issued (City of Duncan)
 - 2 ESS reception centres open
 - SOLE in place
- Nanaimo Regional District:
 - 3 States of Local Emergency in place
 - Parts of Electoral Area A
 - Parts of Electoral Area G: Pathfinder Resort
 - Parts of Electoral Area G: Cedar Grove Campsite
 - 3 Evacuation Orders Issued
 - Englishman River
 - Nanaimo River
 - Little Qualicum
- Capital Regional District
 - EOC Activated
- District of Sooke
 - EOC Activated
- District of Highlands
 - EOC Activated
- City of Langford
 - EOC Activated
 - Evacuation Alert Issued

- 20+ properties on alert
- Central Saanich
 - EOC activated

ESS Reception Centres:

- Cowichan Valley Regional District (2 Reception Centres)
- Nanaimo ESS taking on a tele-registration support role for Halalt FN
- Oceanside EMO ESS is going to support first 72 hrs in Parksville

Key Internet Links:

Avalanche Canada Weather Forecast [Drying out at last \(avalanche.ca\)](http://avalanche.ca)

Emergency Info BC

<https://www.emergencyinfobc.gov.bc.ca>

BC Hydro Outage Map <https://www.bchydro.com/power-outages/app/outage-map.html>

BC River Forecast Centre

<https://www2.gov.bc.ca/gov/content/environment/air-land-water/water/drought-flooding-dikes-dams/river-forecast-centre>

Drive BC

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Information about Disaster Financial Assistance is available on the DFA web site at

<http://www.gov.bc.ca/disasterfinancialassistance>

Environment Canada [British Columbia - Weather Conditions and Forecast by Locations - Environment Canada](#)

APPROVED BY:

Brendan Ralfs
PECC Director

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PECC Standing down November 15, 2021

From: EMBC PECC Operations 1 EMBC:EX <s.17 >
Sent: November 15, 2021 11:16:20 PM PST

Good evening,

The Provincial Emergency Coordination Centre is standing down this evening and will reactivate tomorrow, Nov 16, 2021 at 08:30 hrs.

All emergency calls after hours should be directed to the Provincial Duty Manager via the Emergency Coordination Centre, 1-800-663-3456.

Sonia Woolford
Operations Section Deputy Chief
Provincial Emergency Coordination Centre (PECC)
Emergency Management BC
PO Box 9201 Stn Prov Gov
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Update # 12 - Flooding - Atmospheric River Event - Multiple Regions

From: EMBC PDM EMBC:EX <s.17 >
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<Tim.Howlett@gov.bc.ca>

Sent: November 16, 2021 5:01:23 AM PST

Attachments: image001.png, image003.png, image004.png, image002.png, image005.png

Update # 12

16 November, 2021 – 05:00hrs

The City of Abbotsford has issued an Evacuation Order for an area formerly under Alert in East Abbotsford (Sumas Prairie).

- The dike system has begun to overflow.
- The Order will affect a few thousand people, however the exact number is unknown at this time.
- Due to the closure of Highway 1 between Hwy 11 and No. 3 Rd, evacuees will likely have to evacuate towards Chilliwack.
- Chilliwack and Central Fraser Valley Search and Rescue have been activated to assist with evacuations.

Further updates will be provided as information becomes available.

Ryan Hetschko | Provincial Duty Manager
Emergency Management BC
Block A – Suite 200, 2261 Keating Cross Rd
Saanichton, BC CANADA V8M 2A5

Ph: 250-952-4278 Fax: 250-952-4872
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Update # 11

15 November, 2021 – 1215hrs

Central Region

- An evacuation order has been issued for the entire City of Merritt.
- Buses are being used to provide transportation for persons without personal means of transit.
- Where possible persons are being encouraged to stay with family and friends. For residents where this is not an option they are being directed to Kelowna and Kamloops.
- Residents of Merritt with odd number addresses are being directed to the Kamloops ESS Reception Centre, located at McArthur Island (1655 Island Parkway).
- Residents of Merritt with even number addresses are being directed to the Kelowna ESS Reception Centre is located at 1800 Parkinson Way.

SW Region

- The JRCC is currently supporting response for persons stranded on Highway 7 due to landslides.
- 3 Cormorants are working to assist RCMP, BCEHS, Aggasiz Fire and Canada Task Force One to evacuate stranded motorists into Aggasiz.

VIR Region

- An evacuation order has been issued for the Halalt First Nations community due to flooding and an ruptured water main.

The Provincial Emergency Coordination Centre has been stood up to support response.

Further updates will be provided as information becomes available.

Colin Mathie | Provincial Duty Manager

Update # 10

City of Merritt – Central Region

- The water treatment plant is considered unsafe for personnel and will be locked up and un-occupied.
- As a result, there will be potentially no clean water or sewage treatment with the likelihood of evacuating the entire City of 7800 people.

Further updates will be provided as information becomes available on this developing event.

Mitchell Lee | Provincial Duty Manager

Update # 9

City of Merritt – Central Region

- The City is at risk of losing their water treatment plant which would compromise the entire city utility infrastructure.
 - Public works have been reassigned from other areas to focus on saving the plant.
- Swift water team was required to assist in evacuating one homeowner due to high, rushing water.
- This event will require ESS supports - intending to send some evacuees to Kamloops.

Mitchell Lee | Provincial Duty Manager

Update # 8

15 November, 2021 – 5:24 hrs

City of Merritt – Central Region

- Declared a SOLE due to flooding.
- Evacuation Order issued for properties South of Coldwater Avenue and East of Voght Street:

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Mitchell Lee | Provincial Duty Manager

Update # 7

-
15 November, 2021 – 3:03 hrs

- Central Region

-
- A SOLE was declared for the Town of Princeton.

Mitchell Lee | Provincial Duty Manager

Central Region

15 November, 2021 – 2:41 hrs

Regional District of Okanagan-Similkameen

- Village of Coalmont intends to issue an Alert.
- The fire department from Coalmont is in Tulameen assisting with efforts.

Town of Princeton

- 3 Evacuation Orders issued for low-lying properties along the Tulameen River.
- Dike has breached. Estimated water level is 18 inches above dike.
- Downtown core is flooded, as well, as areas north and west of the community.
- Group lodging/comfort centres are being set up at Riverside Community Hall. Schools may be used, if out of room.
- SAR has been requested to assist with evacuations- swift water capability only.
- Boil water notice in effect.

City of Merritt

- Dike has breached while rain is still falling and water levels rising.
- Evacuating 800 to 900 residences.
- Group lodging/warming centres are being set up. Churches may be used, if out of room.

Southwest Region

Motor Vehicle Accident – Loughheed Highway (Ruby Creek, near Agassiz)

- According to news media: 6-10 people trapped within vehicles due to mudslide.
- HUSAR TF#1 expected to be fully on site around 01:45 am.
- News link: <https://www.cbc.ca/news/canada/british-columbia/agassiz-bc-mudslides-highway-closure-1.6248999>

Mitchell Lee | Provincial Duty Manager

Update # 5

15 November, 2021 – 2:14 hrs

Central Region

City of Merritt

- An Evacuation Order issued for all properties within the Coldwater River 200-year flood plain. An Alert was previously issued for the same area.

Mitchell Lee | Provincial Duty Manager

Update # 4

15 November, 2021 – 1:36 hrs

Southwest Region

Fraser Valley Regional District

- An Evacuation Order issued for 53730 Bridal Falls Road (Camperland RV Resort & Cabins).
- An Evacuation Order issued for 4 properties on Auchenway Road in EA “E”.

District of Kent

- SOLE declared due to flooding.
- An Evacuation Alert for residents south of 6500 block of Rockwell Drive.

Mitchell Lee | Provincial Duty Manager

Update # 3

15 November, 2021 – 0:58 hrs

Southwest Region

Fraser Valley Regional District

- SOLE declared due to flooding and mudslides.

City of Abbotsford

- An Evacuation Alert issued for Clayburn Area: Clayburn Village and surrounding area.
- An Evacuation Alert issued for Eagle Mountain Areas: Cranberry Court, Briarwood Place, Doneagle Place.
- An Evacuation Alert issued for Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road.
- An Evacuation Alert issued for Sumas Prairie: Westside of Whatcom Road, East of Huntington Village, Southside of Vye Road.
- An Evacuation Alert issued for Straiton Areas: Dawson Road East of Sumas Mountain Road.

DGIR 213178 - Train Derailment (2 Cars) - Mile 80 Yale - SWE

- Derailment likely due to rain.
- No dangerous goods. Dry materials.
- No injuries or waterways impacted.
- Assessing situation.

Central Region

City of Merritt

- An Evacuation Alert issued for all properties within the Coldwater River 200-year flood plain. An Evacuation Order is expected to be issued later.

Regional District of Okanagan-Similkameen

- An Evacuation Order issued for 34 addresses in EA "H" due to flooding.

Highway Closures

- Highway 1 (Agassiz – Spences Bridge).
- Highway 3 (Sunshine Valley).
- Highway 5 (Hope – Merritt).
- Highway 7 (Maple Ridge – Hope).
- Highway 11 (US border – Vye Road, Abbotsford) .

Further updates will be provided as information becomes available.

Mitchell Lee | Provincial Duty Manager

Update # 2

14 November, 2021 – 22:25 hrs

Southwest Region

- SWE PREOC is activated.
- Abbotsford, Pitt Meadows, District of Kent and City of Langley have activated their EOCs.
- **Landslide** – District of Kent. EPC will investigate tomorrow.
- **Landslide** – Abbotsford (Quadling Road). EPC will investigate tomorrow. No impacts to report at this time.
- **Rockslide** - Highway 1 (south of Spuzzum, north of Yale). No impacts to report at this time.
- **Mudslide** – Abbotsford (Glencoe Place). 1 residence on Evacuation Alert.
- **Mudslides** – Abbotsford (Eagle Mountain/Cranberry Court). Potential of Evacuation Order and SOLE being declared.
- **Mudslide** - Highway 1 (Hope to Chilliwack) closed in both directions between Annis Rd and K St for 38.4 km.
 - Road will remain closed pending geotechnical study.
- **Flooding** - Highway 11 (Abbotsford) is closed from 4th Avenue to the Sumas Border.
- **Tactical Evacuation** - 200 residents were tactically evacuated by Popkum Fire Department in Bridal Falls area.
- **Motor Vehicle Accident** – Lougheed Highway (Ruby Creek, near Agassiz).
 - Initial report of a semi-truck and two cars going over an embankment due to mudslide.
 - Agassiz Fire Department and Hope SAR assisting. HUSAR TF#1 called out.

Central Region

- **Evacuation** - Initial report of 24 properties evacuated in Tulameen.
 - Dike built by FLNRO has potential to burst under current conditions.
- Potential of an Evacuation Order/Alert being issued in Princeton.
- Both Princeton and Tulameen activated their EOCs.

Further updates will be provided as information becomes available.

Update # 1

14 November, 2021 – 20:00 hrs

- An additional 13 people were evacuated due to flooding in the Clayburn Lane area.
- The City of Langley has issued an evacuation order to a family of two, due to a landslide affecting their home.
- The City of Fernie, the Fraser Valley Regional District, and the Regional District of Okanagan-Similkameen activated their Emergency Operations Centres to monitor flooding and assist homeowners.
- Emergency Support Services continues to respond to support evacuees.
- Multiple roads around the Lower Mainland are experiencing closures and washouts. City/MOTI crews are responding as required.
- BC Hydro reports a large outage in Hope, Spuzzum, Yale, and surrounding areas caused by the weather event. The estimated time of power restoration is unknown at this time.

Further updates will be provided as information becomes available.

Paul Brandon | Provincial Duty Manager

Initial Report

14 November, 2021 17:00 hrs

Heavy rainfall in the southwest has resulted in mudslides closing both the Trans-Canada and Coquihalla Highway near Hope.

Highway 11 is closed near the Sumas border due to flooding.

Flooding in Abbotsford has displaced people from 12 homes in the Clayburn Lane area. Emergency Support Services is responding to provide assistance.

Chilliwack, Hope, and Abbotsford have activated their Emergency Operations Centres to monitor flooding and provide assistance as necessary.

Further updates will be provided as information becomes available.

Msg to Dist List 1, SWE.

Media:

<https://www.castanet.net/news/BC/351544/Rock-slide-closes-Highway-1-through-Fraser-Canyon-Sunday>
<https://bc.ctvnews.ca/flood-watches-issued-in-fraser-valley-fraser-canyon-amid-heavy-rain-melting-snow-1.5665962>
<https://www.cbc.ca/news/canada/british-columbia/coquihalla-closure-rainstorm-1.6248785>

EMBC UPDATE - November 16, 2021 @ 07:00 hrs

From: EMBC PDM EMBC:EX <s.17>
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Sent: November 16, 2021 7:00:05 AM PST

Attachments: image008.png, image004.png, image006.png, image002.png, image007.png

Good morning,

EMBC UPDATE – November 16, 2021 @ 07:00 hrs

OVERVIEW

Atmospheric River Events– Multiple Regions

This weekend's atmospheric river caused heavy rain and localized flooding. Multiple rain-induced incidents occurred across Vancouver Island and the Southern half of the province in the past 24hrs. Several States of Local Emergency and Evacuation Alerts and Orders have been declared. EMBC has approved Disaster Financial Assistance for flooding in the Vancouver Island & Central Coast, Southwest, and Central regions of the province, including all First Nations communities, electoral areas, and municipalities within these areas.

Provincial Overview

- The Provincial Emergency Coordination Center will be stood up again today to support response.
- The storm blocked, damaged, and impacted multiple roadways, causing widespread road closures, and stranding multiple motorists yesterday.
 - Search and Rescue, Canada Task Force 1, 442 Squadron, and local first responders have reportedly rescued all stranded motorists and brought them to shelter and appropriate supports in nearby communities.
- BC Hydro reported widespread outages yesterday, and crews worked through the night to restore power.
- The situation is dynamic and full, accurate situational awareness remains challenging, but current estimates suggest that provincially there are over 524 properties on Evacuation Order, 315 properties on Evacuation Alert and then an additional 7,800 people on Evacuation Order in the City of Merritt because of the storm.
 - The City of Merritt has been evacuated in its entirety due to flooding and ensuing unsafe drinking water from the failure of their water treatment plant.
- Emergency Support Services volunteers are responding in affected areas to provide supports to evacuees.
 - Approximately 20 locations are activated as Reception Centers.
- Multiple highways remain closed throughout BC causing disruptions to travel.
 - Highway 1 (Malahat)
 - Highway 1 (Agassiz – Spences Bridge)
 - Highway 3 (Sunshine Valley)
 - Highway 5 (Hope – Merritt)
 - Highway 7 (Maple Ridge – Hope)
 - Highway 11 (US border – Vye Road, Abbotsford)

- For a complete list of highway and road closures, including ferry disruptions due to flooding, see [DriveBC](#).

Aircraft Crash – SWE

- An aircraft of unknown size and type was reported to have crashed near Needle Peak, outside of Hope.
- Details continue to be limited due to the location of the crash and the ongoing weather event.
- The Joint Rescue Coordination Center leads the response efforts and are expected to access the crash site at first light.
- Avalanche and other safety concerns are present at the site.

DGIR Code 2/Overboard Shipping Containers – VIC

- The situation on board the M/V *Zim Kingston* remains stable, the final destination and available moorage is still being determined.
- Shoreline clean-up efforts continue as weather and tides allow. Crews are working on readying debris to be removed from the sites when conditions are favourable.

PROVINCIAL WEATHER

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This morning, a ridge of high pressure builds over the interior, heralding cold and dry conditions. The true arctic air will not progress beyond the Peace and the North Rockies where light snow will end early. Elsewhere, the moderately cold, clear night will be followed by a cool, sunny day.

This afternoon, BC will be sunny and cool under the high-pressure ridge. Some clouds will linger over the Rockies. The Northwest mountain range will see increasing cloud and precipitation ahead of an advancing warm front.

WEATHER ALERTS and ADVISORIES

Winter Storm Warning in effect for: Haines Road – Haines Junction to Pleasant Camp, and South Klondike Highway - Carcross to White Pass.

Snowfall Warning in effect for: Coquihalla Highway - Hope to Merritt, and North Coast – inland sections.

FLOOD WARNINGS and ADVISORIES

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Flood Warning in effect for: Chemainus River, Englishman River, Nicola River from Merritt to Spences Bridge, Cowichan River, Koksilah River, Coquihalla River, Tulameen River including tributaries and Coldwater River.

Flood Watch in effect for: South Vancouver Island, Fraser Valley including surrounding tributaries, Fraser Canyon tributaries including tributaries around Hope and the Chilliwack River.

High Streamflow Advisory in effect for: Central Vancouver Island including tributaries around Port Alberni, Howe Sound, Sunshine Coast, Sea-to-Sky, North Shore Mountains, Metro Vancouver, West Vancouver Island, and East Vancouver Island.

PROVINCIAL SUMMARY – All Hazards

PECC Level 2	CTL	NEA	NWE	SEA	SWE	VIC	Total
PREOC Activations	1	-	-	-	1	1(+1)	3(+2)

Band Council Resolutions	13(+1)	1	1	-	-	-	15(+1)
States of Local Emergency	8(+5)	5	1	3(+1)	7(+4)	2(+2)	26(+12)
Evacuation Orders	15(+8)	7	1	3(+3)	9(+6)	6(+6)	41(+23)
Evacuation Alerts	6(+3)	7	1	1(+1)	7(+1)	-	22(+5)

REGIONAL SUMMARIES

CENTRAL REGION

City of Merritt

- SOLE declared due to flooding.
- An evacuation order issued for the City of Merritt in its entirety.

Regional District of Okanagan-Similkameen

- SOLE declared for EAs H and G due to flooding.
- An Evacuation Order issued for 74 addresses in EA “G, B, and H” due to flooding.

Town of Princeton

- SOLE declared due to flooding.
- 3 Evacuation Orders issued for 228 properties along the Tulameen River.
- 2 Evacuation Alerts for 209 properties.

Village of Keremeos

- An Evacuation Alert for the entire Village of Keremeos.

Cook’s Ferry Indian Band

- BCR declared due to flooding.
- An Evacuation Order issued for IR 1 & 4.
- An Evacuation Alert issued for the remainder of the community.

Nooaitch Indian Band

- An Evacuation Order issued for IR 10.

Thompson-Nicola Regional District

- SOLE declared for EA N due to flooding.
- An Evacuation Alert issued for EAs “I, M, and N.”
- An Evacuation Order issued for 53 properties.

NORTHEAST REGION

No significant incidents to report.

NORTHWEST REGION

No significant incidents to report.

SOUTHEAST REGION

Regional District of East Kootenay

- SOLE declared for EA “A” due to flooding.
- An Evacuation Alert issued for 11 properties in EA “A”.

SOUTHWEST REGION

SWE PREOC is activated in response to rain-induced incidents.

Fraser Valley Regional District

- SOLE declared due to flooding and mudslides.
- An Evacuation Order issued for 53730 Bridal Falls Road (Camperland RV Resort & Cabins).
- An Evacuation Order issued for 4 properties on Auchenway Road in EA “E”.

City of Abbotsford

- An Evacuation Alert issued for Clayburn Area: Clayburn Village and surrounding area.
- An Evacuation Alert issued for Eagle Mountain Areas: Cranberry Court, Briarwood Place, Doneagle Place.
- An Evacuation Alert issued for Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road.
- An Evacuation Alert issued for Sumas Prairie: Westside of Whatcom Road, East of Huntington Village, Southside of Vye Road.
- An Evacuation Alert issued for Straiton Areas: Dawson Road East of Sumas Mountain Road, Southern rail line to the West, Whatcom Road to the East, Highway 1 to the North, United States border to the South.
- An Evacuation Alert issues for Matsqui Village.
- An Evacuation Order issued for a portion of the Sumas Prairie.
- An Evacuation Order issued for 7 addresses on Straiton Road.

District of Kent

- SOLE declared due to flooding.
- An Evacuation Order for 59 residents south of 6500 block of Rockwell Drive.

Squamish-Lillooet Regional District

- An Evacuation Alert issued for 34 properties in EA "D".

Village of Harrison Hot Springs

- SOLE declared due to flooding.

City of Langley

- An Evacuation Order for 1 property on 264th Street.

VANCOUVER ISLAND and CENTRAL COAST REGION

The VIC PREOC is providing support through the Regional Duty Manager and Liaison Officer as required, for the DGIR Code 2 - *M/V Zim Kingston* fire and overboard shipping containers.

Cowichan Valley Regional District

- SOLE declared for the entirety of the Regional District including the City of Duncan and local First Nations communities.
- An Evacuation Order for 6 properties in the Allenby Road area.
- Evacuation of the Meadow Glen apartment building due to flooding on Canada Ave.

Regional District of Nanaimo

- SOLE declared for EAs "A & G".
- An Evacuation Order issued for the Cedar Grove campsite.
- An Evacuation Order for an RV site on Martindale Road.
- An Evacuation Order for 29 addresses in the Riverside Road area.

Janet Adams | Provincial Duty Manager**Emergency Management BC**

Block A – Suite 200, 2261 Keating Cross Rd

Saanichton, BC CANADA V8M 2A5

Ph: 250-952-4278 Fax: 250-952-4872

24 Hour Emergency: 1-800-663-3456

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Page 037 of 122 to/à Page 039 of 122

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PECC Activated November 16, 2021 - 08:00 to Closing

From: EMBC PECC Operations 1 EMBC:EX s.17

Sent: November 16, 2021 8:07:16 AM PST

Good morning,

The Provincial Emergency Coordination Centre is activated today in support of regional operations.

PECC Activated - OPERATIONAL PERIOD – November 16, 2021 (08:00 - closing).

The primary contact numbers and email address are:

Phone: 778-698-8626

Fax: 250 952-4804

E-mail: s.17

Martin Caldwell

Operations Section Chief

Provincial Emergency Coordination Centre (PECC)

Emergency Management BC

PO Box 9201 Stn Prov Gov

Victoria, B.C. CANADA V8W 9J1

Ph: 778-698-8626 Fax: 250-652-0107

24 Hour Emergency Reporting 1-800-663-3456

Follow us on Twitter [@EmergencyInfoBC](#) and [@PreparedBC](#)

Technical Briefing re: Flood Updates - TODAY 11:30AM

From : Hembree, Sara PSSG:EX <Sara.Hembree@gov.bc.ca>
To: Farnworth, Mike PSSG:EX <Mike.Farnworth@gov.bc.ca>
Cc: Maartman, William PSSG:EX <William.Maartman@gov.bc.ca>, Douglas, Andrew PSSG:EX <Andrew.Douglas@gov.bc.ca>, Godfrey, Samuel PSSG:EX <Samuel.Godfrey@gov.bc.ca>, Maher, Melissa PSSG:EX <Melissa.Maher@gov.bc.ca>
Sent: November 16, 2021 10:16:11 AM PST

There is another flood update briefing for all 87 MLAs today at 11:30am. This briefing is not whipped; please add to calendars:

Flood Updates – Technical Briefing

Date: Today, Tuesday November 16

Time: 11:30am – 12:00pm

Location: MS Teams → [Click here to join the meeting](#)

November 16, 2021

The Honourable Marco E. L. Mendicino, P.C., M.P.; and
The Honourable Bill Blair, President of the Queen's Privy Council for Canada and
Minister of Emergency Preparedness.
House of Commons
Ottawa, Canada K1A 0A6

Dear Ministers:

The Province of British Columbia has been severely affected by catastrophic flooding in the Southwest and Central areas resulting in significant impacts on individuals, communities and critical infrastructure. While the Province has yet to fully assess all of the damage, it is becoming increasingly clear that this evolving situation will require resources beyond those currently available in British Columbia. At this time, with all major road and rail routes temporarily severed to the Lower Mainland, establishing supply chain supports to isolated individuals and communities is the priority.

We are requesting federal assistance to obtain the following capabilities:

- Heavy and medium air assets to re-establish the flow of critical medical food, fuel and water supplies to communities;
- Support to evacuate and resupply individuals and communities;
- Reconnaissance to impacted areas to assess the extent of the damage;
- Flood mitigation; and
- General duty and logistics support to the response effort.

Therefore, I, Mike Farnworth, British Columbia Minister of Public Safety and Solicitor General, request provision of federal resources to meet the desired effects in support of the current response to this disaster. These resources will be released at the earliest opportunity when they are no longer required for life-safety or life-sustaining measures.



.....
Honourable Mike Farnworth

Solicitor General and Minister of Public Safety
Parliament Buildings
Victoria, BC
V8V 1X4

PECC Situation Report November 16, 2021 (Amended)

From: EMBC PECC Operations 1 EMBC:EX <[s.17](#)>
Sent: November 17, 2021 6:32:15 AM PST
Attachments: PECC_SITREP_16 Nov 2021 Overview Map.pdf, PECC-SITREP_16 Nov Overview Flood Notifications.pdf, 21_PECC SitRep_Nov 16_2021_#2_FINAL(AMENDED).pdf, 21_PECC SitRep_Nov 16_2021_#2_FINAL(AMENDED).docx




Yesterday's Sitrep has been amended to ensure information accuracy, please disregard earlier version.

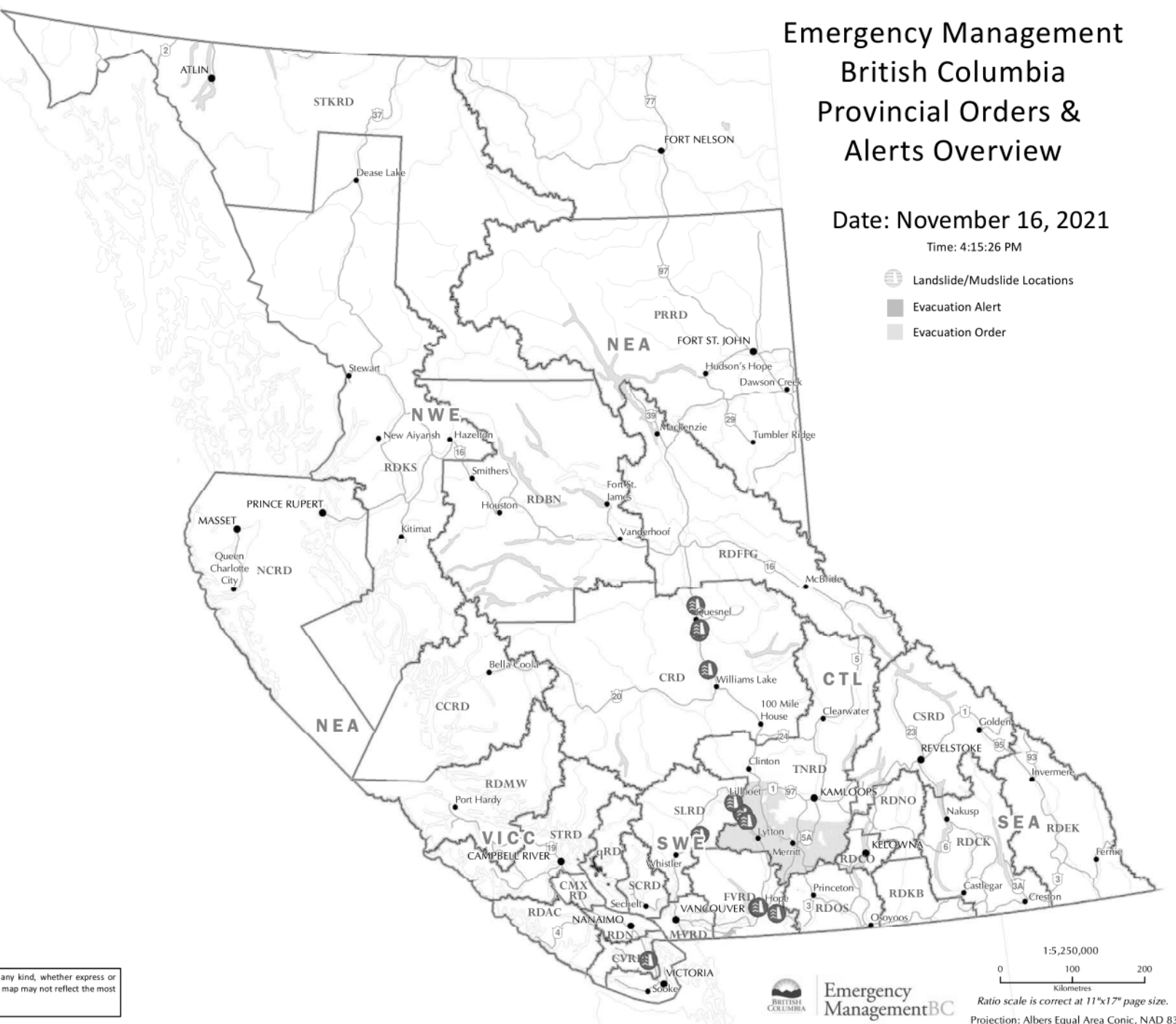
Jane O'Higgins-Wilson
Planning Section Chief
Provincial Emergency Coordination Centre (PECC)
Emergency Management BC
PO Box 9201 Stn Prov Gov
Victoria, B.C. CANADA V8W 9J1

Ph: 778-698-8626 Fax: 250-652-0107
24 Hour Emergency Reporting 1-800-663-3456
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Emergency Management British Columbia Provincial Orders & Alerts Overview

Date: November 16, 2021
Time: 4:15:26 PM

 Landslide/Mudslide Locations
 Evacuation Alert
 Evacuation Order



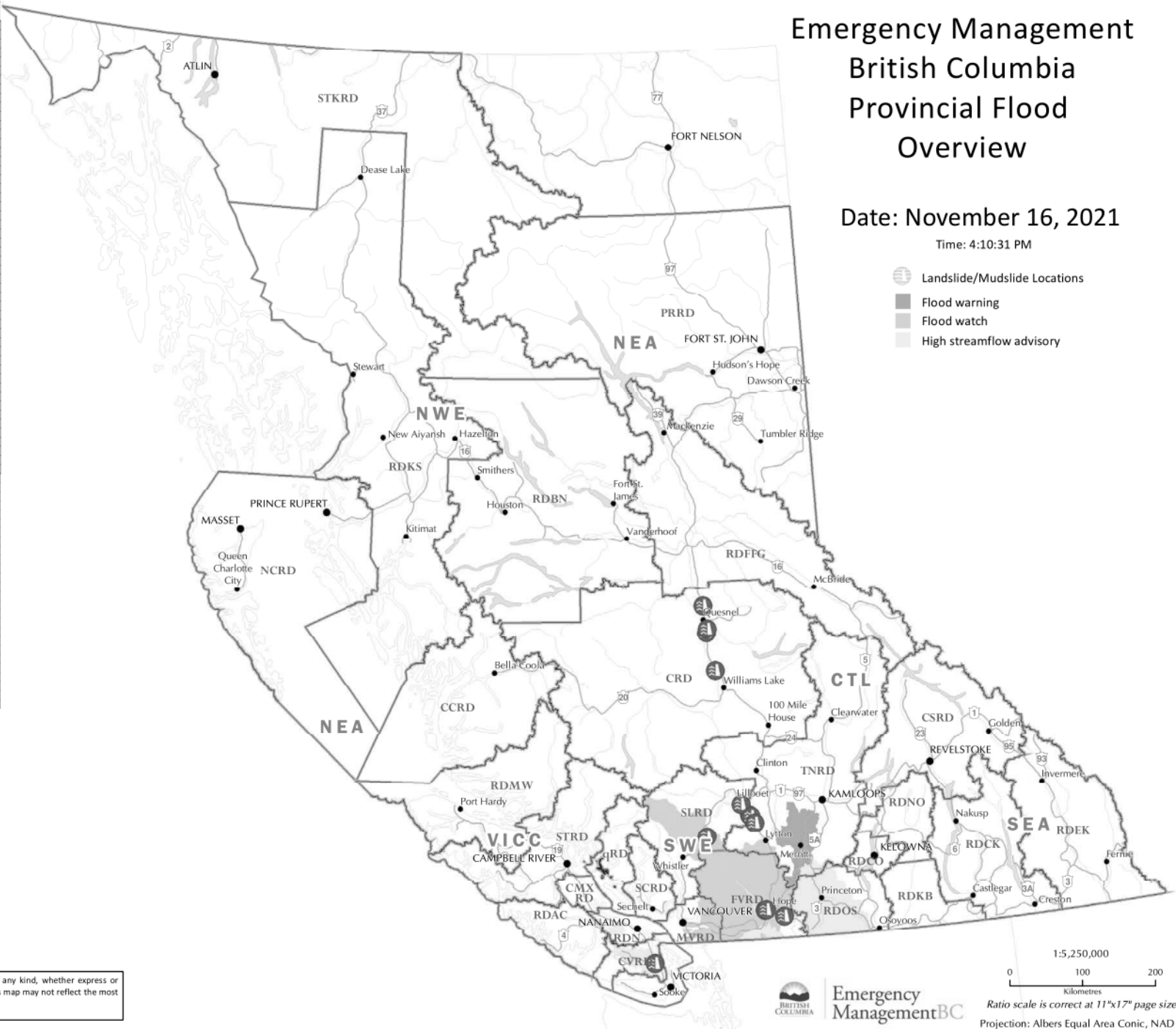
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Emergency Management BC

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Communities & First Nations Affected by Flooding - November 16, 2021	Communities & First Nations Affected by Flooding - November 16, 2021
Arnold	Nickelash 25
Ashnola 10	Nickelton 6
Aspen Grove	Nicola
Aylmerbrook 5	Nicomien 1
Barnston	Nlain 10
Basque	Nocton 19
Bonaparte 3	Nohomeen 23
Booths 15	Noelich 10
Boston Hills	Noelich Grass 9
Brookmere	Norton
Cameron Bar 13	Nuavatin 2
Canford	Nuavatin 2A
Chagapen Creek 6	Nuavatin 2B
Chewamas	Crappin Jack Creek 2
Chopala 7 & 8	Pagum 27
Churchman 5	Pagum 27A
Churchman 5A	Pagum Graveyard 27C
Ciperton	Paul's Basin 2
Collette	Peglog 3
Coulee	Peglog 3A
Coyls	Pittsah
Dot	Pokhietak 10
Douglas Lake	Prayettin 3
Drynoch	Purkwa 14
Enhalt 11	Quilchena
Falls Creek	Sackum 3
Gilgwin	Salmon Lake 7
Grasslands 7	Schlaedon 16
Gulda 3A	Seah 5
Gwen Lake 3	Seddali
Hahajaden 14	Semlin
Hahajaden 14A	Shawikan 4B
Hamilton Creek 2	Shelkash 7
Hay Meadow 1	Shuochten 15
Humbert 6	Saka Flat 5B
Humbert 6A	Siemecskuan 7
Inkluckchen 21	Siemecskuan 8
Inkluckchen 21B	Silpawet 4
Inkluckchen 2	Sloorka
Jazepda 2	Woonkoon 2
Kanaka	Skupah 2A
Kanaka Bar	Skupah 2B
Kanaka Bar 1A	Skupah 3A
Kanaka Bar 2	Skupah 4
Kingvale	Skupah 4A
Kittow 20	Shawyer 26
Klakamich 17	Sleets 6
Klakowit 5	South Nepe 7
Kleefelut 22	Spahomin Creek 4
Kleefelut 22A	Spattum
Klickumcheen 18	Spattum 11
Kumcheen 1	Spences Bridge
Kupchmuth 1	Spences Bridge 4C
Kylnako 2	Spence 8
Laha	Sprinkum Flat 3
Lish-Leesh-Tum 17	Staljahanny 8
Logan's 6	Stryen 9
Lower Hat Creek 2	Stump Lake
Lower Nicola	Thompson
Lytton	Toketic
Lytton 13A	Tsokan 12
Lytton 21A	Tunkah 8
Lytton 26A	Tunkah 24
Lytton 27B	Two Mile Creek 16
Lytton 31	Two Mile Creek 16A
Lytton 32	Umpupiquatum 8
Lytton 33	Upper Hat Creek 1
Lytton 3A	Upper Napa 5
Lytton 4A	Upper Sumas 6
Lytton 4B	Upper Tunkah 8A
Lytton 4C	Vye
Lytton 4D	Wahachin
Lytton 4E	Whyteek 4
Lytton 4F	Yarrow
Lytton 5A	Yawauch 11
Lytton 5B	Zohr 5
Maka 8	
Martel	
Mauvais Rocher 5	
McAlene	
Merritt	
Munroe	
Nanahout 1	
Nayikouth 13	
Nedkum 1	
Neskep 6	
Ngwau Yemc 36	
Nickel Palm 4	



Disclaimer: This map and all of the information it contains are provided "as is" without warranty of any kind, whether express or implied. Flood, fire and/or COVID-19 information is updated as it is received. Information shown on this map may not reflect the most current flood, fire, or covid situation, and therefore should only be used for reference purposes.

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Emergency Management British Columbia Provincial Flood Overview

Date: November 16, 2021

Time: 4:10:31 PM

- Landslide/Mudslide Locations
- Flood warning
- Flood watch
- High streamflow advisory

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Ratio scale is correct at 11"x17" page size.
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Emergency
ManagementBC



PECC ACTIVATION DAY NO. 2
NOVEMBER 16, 2021

Hazard(s): Atmospheric River Storm

Operational Period: November 16, 2021, 08:30 hrs to Closing

Next Sitrep will be issued: November 17, 2021

Primary PECC E-mail: s.17

Primary PECC Phone: 778-698-8617

Information current as of Nov 16, 2021 at 17:00h

***New information is noted in blue font**

Note: Information contained in this situation report is for operational purposes only. The contained information is not meant for external dissemination. If you wish to use information contained herein for release, you must clear it with the PECC Director.

PROVINCIAL SITUATION

The EMBC Provincial Emergency Coordination Centre (PECC) activated today in support of three Provincial Regional Emergency Operations Centres (PREOCs) and the impacts of the atmospheric river storm event that resulted in multiple flooding, landslide, mudslide, power outage and other incidents and human consequence impacts across the BC southern coastal and interior regions.

The storm damaged, blocked, and impacted multiple roadways, causing widespread road closures and stranding hundreds of motorists overnight on Nov. 14, 2021. Rescue efforts have continued throughout Nov. 16, 2021, and many stranded motorists have now been able to seek shelter and appropriate supports in nearby communities. However, several communities and First Nations remain isolated, and efforts are ongoing to provide accommodation and support. MOTI anticipates Highways 1,3, and 7 may be restored this week.

Travelers have also found themselves stranded in many areas of the province and the Province is following up to support them. Currently, in Hope 1,100 stranded travelers are receiving local support, with 900 of those in group lodgings. BCWS is working to move resources by air to support the relief efforts

Many First Nations and Local Authority communities have seen widespread flooding and power outages which have led to roadway closures, infrastructure impacts, evacuation orders and evacuation alerts. Current estimates suggest that there are approximately 17,775 people evacuated due to impacts from this storm event in BC, with 5,918 properties on Evacuation Order, and 3,632 properties on Evacuation Alert.

As a result of the severe weather events this week, EMBC has approved Disaster Financial Assistance (DFA) for flooding in the Vancouver Island & Central Coast, Southwest, and Central regions of the province, including all First Nations communities, electoral areas, and municipalities within these areas.

WEATHER OUTLOOK AND ALERTS

This morning was largely dry, with a ridge of high pressure over the interior, bringing largely cold and dry conditions. This afternoon, mainly dry conditions were also expected, with only the Northwest mountain range seeing increasing cloud and precipitation ahead of an advancing warm front.

On Wednesday, it will remain dry provincially as the core of the high-pressure retreats into Alberta, but a secondary ridge still extends into the Columbias, maintaining clear conditions with gradually moderating temperatures.

Many of the weather watches and warnings in effect yesterday have now been rescinded by Environment Canada, with snowfall warnings and winter storm warnings remaining only for northern coastal BC.

RIVER FORECAST CENTRE (RFC) WATCHES AND WARNINGS

Flow reductions are anticipated overnight tonight and for the remainder of the week.

EMBC Central Region

RFC is maintaining a Flood Warning for:

- Lower Nicola River
- Coldwater River

And has downgraded Flood Warnings to Flood Watches for:

- Similkameen River
- Tulameen River and tributaries

EMBC Southwest Region

RFC is maintaining Flood Warnings for:

- Coquihalla River
- Sumas River and areas around the US Border

And has maintained the following Flood Watches for:

- Fraser Canyon tributaries, including tributaries around Hope
- Fraser Valley

EMBC Vancouver Island Central Region

RFC has downgraded to High Streamflow Advisories for:

- Chemainus
- Englishman River
- Cowichan River
- Koksilah River

HUMAN CONSEQUENCE IMPACTS

PROVINCIAL SUMMARY

The following numbers reflect documents related to recent storm events, not pre-existing events, and should be considered approximate only.

	CTL	NWE	NEA	SEA	SWE	VIC	Totals
Band Council Resolutions	1						1
States of Local Emergency	7				4	2	13
Evacuation Orders	10				12	4	26
Properties on Order	3,290				2,581	47	5,918
Population on Order	9,750				7,803	222	17,775
Evacuation Alerts	7			1	5		13
Properties on Alert	3,368			10	254		3,632
Population on Alert	4,479			-	720		5,199

EMERGENCY SUPPORT SERVICES (ESS)

- The Provincial ESS Call Centre is receiving a consistently high call volume and have extended their hours of operation.
- Commercial accommodation in Kamloops is limited and only those on Order are receiving commercial accommodation.
- Kelowna has some capacity and buses are transporting people from Kamloops to Kelowna if they need accommodation support.
- ESS HQ Staff are working to support Abbotsford who is seeking personnel support at their Reception and Group Lodging sites. Abbotsford is also engaged with Samaritan's Purse to support.

The total number of active ESS Reception Centres is reported to be approximately 20 (many of these communities are providing mutual aid as host communities) and some may be informal centres not seeking provincial support.

Known communities hosting Reception Centres include:

- Kamloops

- Kelowna
- Abbotsford
- Chilliwack
- Hope
- Agassiz
- Regional District Okanagan Similkameen/Penticton
- Salmon Arm
- Cowichan Valley Regional District

Reception Centre locations are posted publicly on Emergency Info BC.

FLOOD IMPACTS

INFRASTRUCTURE & TRANSPORTATION

- Highway Closures:
 - Highway 1 (Agassiz – Spences Bridge)
 - Highway 3 (Sunshine Valley)
 - Highway 5 (Hope – Merritt)
 - Highway 7 (Maple Ridge – Hope)
 - Highway 8 (Merritt to Spences Bridge).
 - Highway 11 (US border – Vye Road, Abbotsford).
 - Further emergency supports are being planned for the Hope community and travellers stranded there for Nov. 16, 2021.
- CP Rail lines damaged through Fraser Valley
 - Understand no short-term impact to Lower Mainland critical supplies.
 - One train caught in Debris flow east/north of Spuzzum.
 - No injuries. Empty, no releases.
- Reports are being investigated of further mud and landslides events impacting District of Kent, Highway 1, and Abbotsford
- There have been multiple additional road closures throughout the day in the SWE, CTL and VIC regions, with impacts continuing in numerous locations across all 3 regions.
- For a complete list of highway and road closures, including ferry disruptions due to flooding, see [DriveBC](#).

UTILITIES/ TELECOMMUNICATIONS

- BC Hydro
 - Restored service to 56k customers overnight.
 - Remaining: 13k in Thompson-Shuswap and Okanagan, 1k North Fraser
 - Limited access is delaying restoration for remaining clients.
 - Hope: Weather mitigation in progress, anticipate stable power for Hope today.
- Dams:
 - Receding inflows at all LML and Sea-to-Sky sites.
 - Flows peaked 15th Nov. Flows are not significant to river levels.
 - Walheach Dam continues to use spillway.
- Fortis BC:
 - Sunshine Coast at Roberts Creek distribution line and intermediate pressure line exposed in creek. Hydro line de-energized and FD on scene.
 - Halfmoon Bay distribution pressure line is exposed

- A main distribution line at Princeton is impacted with up to 1200 customers possibly affected
- Distribution line at Merritt is impacted but the full extent cannot be confirmed due to current high-water levels
- Fraser Valley distribution line service in a farmer's field near Seabird Island is leaking and being isolated
- Telecommunications:
 - Bell cellular voice/data outages in the Fraser Valley and Northern Vancouver

CROSS-MINISTRY AND AGENCY UPDATES

HEALTH

- Power outages and road closures are impacting staffing and critical supply lines to health facilities and Long-Term Care and Assisted Living sites, particularly in the Hope area. Work is underway to supply relief physicians and pharmaceuticals to Hope Medical Centre, despite lack of road access.

SAR BRANCH

The EMBC SAR Unit is activated in support of the evacuations due to floods.

High Level SAR Activation Summary: November 14/21 1300 – Nov. 16/21 1300:

- 37 SAR Incident(s) with 290 Public Safety Lifeline Volunteers (PSLVs) responded
- 21 Civil Emergency Response(s) with 266 PSLVs responded

SWE SAR Group Updates:

Hope

- Team is isolated due to road closures
- Team is rested

Chilliwack

- Working on clearing people from the Sumas prairie using boats and rafts
- Team is also isolated due to road closures

Coquitlam

- Team not directly affected by flooding
- Regional HET's team working with CFVSAR on the Sumas Prairie

South Fraser

- Team is rested and not directly affected by local flooding
- Mutual aid help to Central Fraser Valley SAR

Kent Harrison

- Team is isolated due to road closures. Only connection is with Chilliwack
- SAR trucks were caught behind a landslide but since then Rescue truck was recovered and other truck was left behind for transport to deliver evac notices

Central Fraser Valley

- Directly impacted by the flooding (Sumas prairie)
- Conducting evacuations on the Sumas Prairie

Mission

- Did a rescue of 6 subjects in their area due to road wash out
- Mutual aid help to CFVSAR for evacuation of the Sumas prairie

Ridge Meadows

- Team not directly affected by the flooding
- Team has the capability to provide mutual aid

CTL SAR Group Updates:

Princeton

- Team was exhausted as of November 15, Penticton provided coverage
- Community has been impacted by flooding waters. SAR Hall has been used for operations

Nicola Valley

- Municipality under Evacuation Order
- Response capacity is reduced, but no request for replacement
- Unable to deploy out of area, minimal resources available

Kamloops

- High operation temp November 11 – 15 created fatigue
- Response truck has been recovered

Vernon

- Winch is unavailable with no ETA of return
- Low in SAR Managers

PROVINCIAL REGIONAL UPDATES

CENTRAL REGION (CTL)

CTL PREOC has activated in response to flooding.

KEY CTL REGIONAL INFORMATION

Total Active Alerts: 9

Total Orders: 14

Total States of Local Emergency: 5

Total Band Council Resolutions: 3

FIRST NATIONS

- Coldwater First Nation
 - Band Council Resolution.
 - IR #2 has been isolated and is without water and power.
- Cook's Ferry Indian Band
 - Band Council Resolution.
 - One Alert for for IRs #2, 3, 4A, 4B, 4C, 5, 5A, 6, 8, 8A, 9, 10, 11, 11A, 16, 17, 18, 19, 20, 21 & 22.
 - Two Orders for #1 and IR#7.
- Lower Similkameen Indian Band
 - Band Council Resolution.
 - Chopaka bridges have been compromised and are closed in both directions.
 - One Alert for Chopaka IR #7/8; Similkameen IR #2, Alexis IR #9, Ashnola IR #10.
- Lytton First Nation
 - Community is without power.
 - Water system currently not operational.
- Nicomen Indian Band

- Bridge has been washed out
- **Nooaitch First Nation**
 - Band Council Resolution.
 - Two bridges washed out.
 - Community is isolated.
- **Shakan First Nation**
 - Band Council Resolution Declared
 - Evacuation Order issued for IR# 11
- **Skuppah Indian Band**
 - George Rd washout has caused there to be no access to the water treatment plant.
 - IR #4 water intake has been washed out.
 - Currently relying on the remaining water supply in their reservoir.

LOCAL AUTHORITIES

- **City of Merritt**
 - State of Local Emergency Declared.
 - Evacuation Order Issued: Entire Community (approx. 7800 people), due to failure of sewage treatment plant (unsanitary conditions).
 - The wastewater treatment plant is down, with no estimated date for bringing it online
 - The water system is contaminated as a result of a well malfunction and the City has turned the water off.
 - Middlesboro Bridge has collapsed.
- **Columbia Shuswap Regional District**
 - Activated the EOC to a level one on November 15, 2021 in response to flooding and sandbag requests.
- **Regional District Okanagan-Similkameen**
 - EOC Activated
 - RDOS EAB – 1 Alert for low-lying properties along the Similkameen River. 1 order for 4 properties on Chopaka Road.
 - RDOS EAG – 1 Alert for low-lying properties along the Similkameen River, 1 order for properties Schedule 1.
 - RDOS EAH – 1 Alert for low-lying properties along the Similkameen River, 2 orders for the community of Coalmont.
 - RDOS – Keremeos – One Alert for low-lying properties along the Similkameen River within the Village of Keremeos.
- **Thompson Nicola Regional District**
 - TNRD – Nicola - Reports of stranded residents at risk along Highway 8. RCMP requested to assist with wellness checks and determine if evacuation is required.
 - TNRD – One Alert issued for the following Electoral Areas:
 - Electoral Area “I” (Blue Sky Country)
 - Electoral Area “M” (Beautiful Nicola Valley – North)
 - Electoral Area “N” (Beautiful Nicola Valley – South)
 - TNRD – Brookmere – 2 Orders for 51 properties in Brookmere and 2 properties in EAN.
- **Town of Princeton**
 - EOC Activated
 - State of Local Emergency declared.
 - 3 Evacuation Order Issued: Properties along the Tulameen River.

- 2 Evacuation Alerts Issued: Properties along the Similkameen & Tulameen Rivers.

SOUTHWEST REGION (SWE)

SWE PREOC activated today in response to flooding.

KEY SWE REGIONAL INFORMATION

Total Active Alerts: 10

Total Orders: 10

Total States of Local Emergency: 5

Total Band Council Resolutions: 0

FIRST NATIONS

- Chawathil First Nation
 - EOC activated for flooding. 1 home is flooding and material is sliding off of bluffs around the community
- Kwikwetlem First Nation
 - EOC activated for flooding.
 - Put on flood alert from BC Hydro Dams.
- Leq'á:mel First Nation
- Lower SStl'atl'imx (LSTC)
 - Approximately 60 households are without power in Samahquam and Skatin.
 - LSTC has spoken to FLNRO, BC Hydro, and Lizzie Bay/IRM to coordinate efforts to restore power and access. FLNRO and BC Hydro will have assessment crews out first thing 2021NOV16 to begin the repair/reconnection of power lines and routes
 - In-SHUCK-ch FSR - Road access to north to Pemberton has not been established for all communities.
- Matsqui First Nation
 - Band Council Resolution
 - Requested sandbags and sand due to localized flooding on IR 2 and IR 4.
- Peters First Nation
 - EOC activated due to flooding.
- Seabird Island
 - EOC activated for flooding.
- Shsw'ow'hamel First Nation
 - EOC activated for flooding.
- Skawahlook First Nation
 - EOC activated for flooding.
- Soowahlie First Nation:
 - EOC activated for flooding.
 - Currently no power or water due to flooding activity.
- Squamish First Nation:
 - EOC activated for flooding.
- Sts'ailes First Nation:
 - Currently 2 flooded houses and 1 mobile home with water underneath. Community is currently out of sandbags.
- Sumas First Nation

- EOC activated for flooding

LOCAL AUTHORITIES

- **City of Abbotsford**
 - **State of Local Emergency declared**
 - 2 Evacuation Orders Issued
 - Straiton Road (22 Homes)
 - Sumas Prairie including the area bordered by: Sumas Mountain, DeLair Road and Old Yale Road to the North, The USA Border to the South, Chilliwack City border to the East, The Ridge West of Railway Road to the West (1119 Homes)
 - 8 Evacuation Alerts Issued
 - Sumas Prairie: The Southern Rail Line to the West, Whatcom Road to the East, Highway 1 to the North, United States Border to the South (1700 Homes).
 - for Matsqui Village: Grace Road North to the Matsqui Slough (12 Homes).
 - Clayburn Area: Clayburn Village and surrounding area (30 Homes).
 - Eagle Mountain Areas: Cranberry Court, Briarwood Place, Doneagle Place (12 - 15 Homes).
 - Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road (30 Homes).
 - Sumas Prairie: Westside of Whatcom Road, East of Huntington Village, Southside of Vye Road; Westside of Sumas Way to West of Riverside Road, East of Sumas River Dike to Boundary Road (140 Homes).
- **Bowen Island**
 - EOC activated due to flooding
- **City of Chilliwack**
 - 1 Alert for Yarrow, from Boundary Road to Browne Road, and from the Vedder River to Majuba Hill Road.
 - 2 Orders, Yarrow, from Boundary Road to Browne Road, and all of Majuba Hill and 4 properties on Yale Road and 3 properties on Chartwell Drive.
- **Delta - EOC Activated in response to issues related to flooding and high winds**
- **Fraser Valley Regional District**
 - **State of Local Emergency Declared**
 - 1 Alert for Chilliwack River Valley, FVRD Electoral Area "E" for 7 properties on Obyrne Road.
 - 5 Orders:
 - FVRD EA "B" for 3 properties on Fish Camp Road and 5 properties on Othello Road.
 - FVRD EA "D" for 1 property on Bridal Falls Road (24 people).
 - FVRD EA "E" for 4 properties on Auchenway Road.
 - FVRD EA "E" for 13 properties on Chilliwack Lake Road and 8 properties on Wilson Road.
 - FVRD EA "H" for 17 properties on Lakeshore Drive.
- **Village of Harrison Hot Springs – EOC activated due to flooding in the Miami Slough.**
- **Town of Hope**
 - Access from all Highways (1,3,5) cut off.
 - Significant power outages for much of the day (w/hospital on generator)
 - Currently no food in town due to no power. Stores/restaurants closed.
 - Meal flown in via helicopter 2021NOV16 and provided by Salvation Army.

- Delta
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 - Working to mitigate localized flooding and support critical infrastructure (drainage stations).
 - Working to restore communications (internal and external) to full capacity.
- District of Hope
- District of Kent
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- Surrey – EOC Activated.

VANCOUVER ISLAND AND CENTRAL COAST REGION (VIC)

VIC PREOC activated today in response to flooding.

KEY VIR REGIONAL INFORMATION

Total Active Alerts: 1

Total Orders: 4

Total States of Local Emergency: 4

Total Band Council Resolutions: 0

FIRST NATIONS

- Halalt First Nation:
 - Band Council Resolution.
 - Flooding for 10 homes due to a watermain break and overland flooding.
- Snuneymuxw First Nation:
 - Evacuation Order Issued.
 - 25 evacuees (approximate).
- Penelakut First Nation:
 - 50 evacuees (approximate.)
- Cowichan Tribes:
 - Evacuation Order Issued.
 - 120 evacuees (approximate).
 - SAR doing door to door notifications. Evacuation orders and alerts in place.
- Pauquachin First Nation
 - Evacuation Order Issued

LOCAL AUTHORITIES

- Cowichan Valley Regional District:
 - Major flooding event taking place in the Cowichan region due to heavy rainfall over the past 48 hours - Multiple road closures (incl. highway), restricting areas throughout the region, including within the boundaries of the Municipality of North Cowichan.
 - SOLE was issued at 1100 hrs on 2021-11-15 - 4 Evacuation Orders in effect - incl. CVRD, Cowichan Tribes, Halalt and Penelakut First Nations.
- Nanaimo Regional District:
 - States of Local Emergency in place.
 - 1 Evacuation Orders remains, 2 orders rescinded: Nanaimo River and Cedar Grove/Riverside/Waters Road.
- Capital Regional District
 - EOC Activated. Highway 1 in both directions reduced to single, alternating route on Malahat. Some localized power outages throughout the CRD. Water service in Fulford Harbour area down for 21 households.
- District of Sooke
 - EOC Activated.
- District of Highlands
 - EOC Activated.
- City of Langford
 - EOC Activated.
 - 20+ properties on alert.
- Central Saanich
 - EOC activated
 - Localized flooding throughout the district. Supporting Public Works with the Brentwood Bay area, liaising with Saanich Peninsula Hospital with resources as needed and status update.

Key Internet Links:

Avalanche Canada Weather Forecast [Drying out at last \(avalanche.ca\)](http://avalanche.ca)

Emergency Info BC

<https://www.emergencyinfobc.gov.bc.ca>

BC Hydro Outage Map Copyright

BC River Forecast Centre

<https://www2.gov.bc.ca/gov/content/environment/air-land-water/water/drought-flooding-dikes-dams/river-forecast-centre>

Drive BC

Copyright

Information about Disaster Financial Assistance is available on the DFA web site at

<http://www.gov.bc.ca/disasterfinancialassistance>

Environment Canada Copyright

Copyright

APPROVED BY:

Janet Adams

PECC Deputy Director

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PECC ACTIVATION DAY NO. 2

NOVEMBER 16, 2021

Hazard(s): Atmospheric River Storm

Operational Period: November 16, 2021, 08:30 hrs to Closing

Next Sitrep will be issued: November 17, 2021

Primary PECC E-mail:s.17

Primary PECC Phone: 778-698-8617

Information current as of Nov 16, 2021 at 17:00h

***New information is noted in blue font**

Note: Information contained in this situation report is for operational purposes only. The contained information is not meant for external dissemination. If you wish to use information contained herein for release, you must clear it with the PECC Director.

PROVINCIAL SITUATION

The EMBC Provincial Emergency Coordination Centre (PECC) activated today in support of three Provincial Regional Emergency Operations Centres (PREOCs) and the impacts of the atmospheric river storm event that resulted in multiple flooding, landslide, mudslide, power outage and other incidents and human consequence impacts across the BC southern coastal and interior regions.

The storm damaged, blocked, and impacted multiple roadways, causing widespread road closures and stranding hundreds of motorists overnight on Nov. 14, 2021. Rescue efforts have continued throughout Nov. 16, 2021, and many stranded motorists have now been able to seek shelter and appropriate supports in nearby communities. However, several communities and First Nations remain isolated, and efforts are ongoing to provide accommodation and support. MOTI anticipates Highways 1,3, and 7 may be restored this week.

Travelers have also found themselves stranded in many areas of the province and the Province is following up to support them. Currently, in Hope 1,100 stranded travelers are receiving local support, with 900 of those in group lodgings. BCWS is working to move resources by air to support the relief efforts

Many First Nations and Local Authority communities have seen widespread flooding and power outages which have led to roadway closures, infrastructure impacts, evacuation orders and evacuation alerts. Current estimates suggest that there are approximately 17,775 people evacuated due to impacts from this storm event in BC, with 5,918 properties on Evacuation Order, and 3,632 properties on Evacuation Alert.

As a result of the severe weather events this week, EMBC has approved Disaster Financial Assistance (DFA) for flooding in the Vancouver Island & Central Coast, Southwest, and Central regions of the province, including all First Nations communities, electoral areas, and municipalities within these areas.

WEATHER OUTLOOK AND ALERTS

This morning was largely dry, with a ridge of high pressure over the interior, bringing largely cold and dry conditions. This afternoon, mainly dry conditions were also expected, with only the Northwest mountain range seeing increasing cloud and precipitation ahead of an advancing warm front.

On Wednesday, it will remain dry provincially as the core of the high-pressure retreats into Alberta, but a secondary ridge still extends into the Columbias, maintaining clear conditions with gradually moderating temperatures.

Many of the weather watches and warnings in effect yesterday have now been rescinded by Environment Canada, with snowfall warnings and winter storm warnings remaining only for northern coastal BC.

RIVER FORECAST CENTRE (RFC) WATCHES AND WARNINGS

Flow reductions are anticipated overnight tonight and for the remainder of the week.

EMBC Central Region

RFC is maintaining a Flood Warning for:

- Lower Nicola River
- Coldwater River

And has downgraded Flood Warnings to Flood Watches for:

- Similkameen River
- Tulameen River and tributaries

EMBC Southwest Region

RFC is maintaining Flood Warnings for:

- Coquihalla River
- Sumas River and areas around the US Border

And has maintained the following Flood Watches for:

- Fraser Canyon tributaries, including tributaries around Hope
- Fraser Valley

EMBC Vancouver Island Central Region

RFC has downgraded to High Streamflow Advisories for:

- Chemainus
- Englishman River
- Cowichan River
- Koksilah River

HUMAN CONSEQUENCE IMPACTS

PROVINCIAL SUMMARY

The following numbers reflect documents related to recent storm events, not pre-existing events, and should be considered approximate only.

	CTL	NWE	NEA	SEA	SWE	VIC	Totals
Band Council Resolutions	1						1
States of Local Emergency	7				4	2	13
Evacuation Orders	10				12	4	26
Properties on Order	3,290				2,581	47	5,918
Population on Order	9,750				7,803	222	17,775
Evacuation Alerts	7			1	5		13
Properties on Alert	3,368			10	254		3,632
Population on Alert	4,479			-	720		5,199

EMERGENCY SUPPORT SERVICES (ESS)

- The Provincial ESS Call Centre is receiving a consistently high call volume and have extended their hours of operation.
- Commercial accommodation in Kamloops is limited and only those on Order are receiving commercial accommodation.
- Kelowna has some capacity and buses are transporting people from Kamloops to Kelowna if they need accommodation support.
- ESS HQ Staff are working to support Abbotsford who is seeking personnel support at their Reception and Group Lodging sites. Abbotsford is also engaged with Samaritan's Purse to support.

The total number of active ESS Reception Centres is reported to be approximately 20 (many of these communities are providing mutual aid as host communities) and some may be informal centres not seeking provincial support.

Known communities hosting Reception Centres include:

- Kamloops

- Kelowna
- Abbotsford
- Chilliwack
- Hope
- Agassiz
- Regional District Okanagan Similkameen/Penticton
- Salmon Arm
- Cowichan Valley Regional District

Reception Centre locations are posted publicly on Emergency Info BC.

FLOOD IMPACTS

INFRASTRUCTURE & TRANSPORTATION

- Highway Closures:
 - Highway 1 (Agassiz – Spences Bridge)
 - Highway 3 (Sunshine Valley)
 - Highway 5 (Hope – Merritt)
 - Highway 7 (Maple Ridge – Hope)
 - Highway 8 (Merritt to Spences Bridge).
 - Highway 11 (US border – Vye Road, Abbotsford).
 - Further emergency supports are being planned for the Hope community and travellers stranded there for Nov. 16, 2021.
- CP Rail lines damaged through Fraser Valley
 - Understand no short-term impact to Lower Mainland critical supplies.
 - One train caught in Debris flow east/north of Spuzzum.
 - No injuries. Empty, no releases.
- Reports are being investigated of further mud and landslides events impacting District of Kent, Highway 1, and Abbotsford
- There have been multiple additional road closures throughout the day in the SWE, CTL and VIC regions, with impacts continuing in numerous locations across all 3 regions.
- For a complete list of highway and road closures, including ferry disruptions due to flooding, see [DriveBC](#).

UTILITIES/ TELECOMMUNICATIONS

- BC Hydro
 - Restored service to 56k customers overnight.
 - Remaining: 13k in Thompson-Shuswap and Okanagan, 1k North Fraser
 - Limited access is delaying restoration for remaining clients.
 - Hope: Weather mitigation in progress, anticipate stable power for Hope today.
- Dams:
 - Receding inflows at all LML and Sea-to-Sky sites.
 - Flows peaked 15th Nov. Flows are not significant to river levels.
 - Walheach Dam continues to use spillway.
- Fortis BC:
 - Sunshine Coast at Roberts Creek distribution line and intermediate pressure line exposed in creek. Hydro line de-energized and FD on scene.
 - Halfmoon Bay distribution pressure line is exposed

- A main distribution line at Princeton is impacted with up to 1200 customers possibly affected
- Distribution line at Merritt is impacted but the full extent cannot be confirmed due to current high-water levels
- Fraser Valley distribution line service in a farmer's field near Seabird Island is leaking and being isolated
- Telecommunications:
 - Bell cellular voice/data outages in the Fraser Valley and Northern Vancouver

CROSS-MINISTRY AND AGENCY UPDATES

HEALTH

- Power outages and road closures are impacting staffing and critical supply lines to health facilities and Long-Term Care and Assisted Living sites, particularly in the Hope area. Work is underway to supply relief physicians and pharmaceuticals to Hope Medical Centre, despite lack of road access.

SAR BRANCH

The EMBC SAR Unit is activated in support of the evacuations due to floods.

High Level SAR Activation Summary: November 14/21 1300 – Nov. 16/21 1300:

- 37 SAR Incident(s) with 290 Public Safety Lifeline Volunteers (PSLVs) responded
- 21 Civil Emergency Response(s) with 266 PSLVs responded

SWE SAR Group Updates:

Hope

- Team is isolated due to road closures
- Team is rested

Chilliwack

- Working on clearing people from the Sumas prairie using boats and rafts
- Team is also isolated due to road closures

Coquitlam

- Team not directly affected by flooding
- Regional HET's team working with CFVSAR on the Sumas Prairie

South Fraser

- Team is rested and not directly affected by local flooding
- Mutual aid help to Central Fraser Valley SAR

Kent Harrison

- Team is isolated due to road closures. Only connection is with Chilliwack
- SAR trucks were caught behind a landslide but since then Rescue truck was recovered and other truck was left behind for transport to deliver evac notices

Central Fraser Valley

- Directly impacted by the flooding (Sumas prairie)
- Conducting evacuations on the Sumas Prairie

Mission

- Did a rescue of 6 subjects in their area due to road wash out
- Mutual aid help to CFVSAR for evacuation of the Sumas prairie

Ridge Meadows

- Team not directly affected by the flooding
- Team has the capability to provide mutual aid

CTL SAR Group Updates:

Princeton

- Team **s.22** as of November 15, Penticton provided coverage
- Community has been impacted by flooding waters. SAR Hall has been used for operations

Nicola Valley

- Municipality under Evacuation Order
- Response capacity is reduced, but no request for replacement
- Unable to deploy out of area, minimal resources available

Kamloops

- High operation temp November 11 – 15 **s.22**
- Response truck has been recovered

Vernon

- Winch is unavailable with no ETA of return
- Low in SAR Managers

PROVINCIAL REGIONAL UPDATES

CENTRAL REGION (CTL)

CTL PREOC has activated in response to flooding.

KEY CTL REGIONAL INFORMATION

Total Active Alerts: 9

Total Orders: 14

Total States of Local Emergency: 5

Total Band Council Resolutions: 3

FIRST NATIONS

- Coldwater First Nation
 - Band Council Resolution.
 - IR #2 has been isolated and is without water and power.
- Cook's Ferry Indian Band
 - Band Council Resolution.
 - One Alert for for IRs #2, 3, 4A, 4B, 4C, 5, 5A, 6, 8, 8A, 9, 10, 11, 11A, 16, 17, 18, 19, 20, 21 & 22.
 - Two Orders for #1 and IR#7.
- Lower Similkameen Indian Band
 - Band Council Resolution.
 - Chopaka bridges have been compromised and are closed in both directions.
 - One Alert for Chopaka IR #7/8; Similkameen IR #2, Alexis IR #9, Ashnola IR #10.
- Lytton First Nation
 - Community is without power.
 - Water system currently not operational.
- Nicomen Indian Band

- Bridge has been washed out
- **Nooaitch First Nation**
 - Band Council Resolution.
 - Two bridges washed out.
 - Community is isolated.
- **Shakan First Nation**
 - Band Council Resolution Declared
 - Evacuation Order issued for IR# 11
- **Skuppah Indian Band**
 - George Rd washout has caused there to be no access to the water treatment plant.
 - IR #4 water intake has been washed out.
 - Currently relying on the remaining water supply in their reservoir.

LOCAL AUTHORITIES

- **City of Merritt**
 - State of Local Emergency Declared.
 - Evacuation Order Issued: Entire Community (approx. 7800 people), due to failure of sewage treatment plant (unsanitary conditions).
 - The wastewater treatment plant is down, with no estimated date for bringing it online
 - The water system is contaminated as a result of a well malfunction and the City has turned the water off.
 - Middlesboro Bridge has collapsed.
- **Columbia Shuswap Regional District**
 - Activated the EOC to a level one on November 15, 2021 in response to flooding and sandbag requests.
- **Regional District Okanagan-Similkameen**
 - EOC Activated
 - RDOS EAB – 1 Alert for low-lying properties along the Similkameen River. 1 order for 4 properties on Chopaka Road.
 - RDOS EAG – 1 Alert for low-lying properties along the Similkameen River, 1 order for properties Schedule 1.
 - RDOS EAH – 1 Alert for low-lying properties along the Similkameen River, 2 orders for the community of Coalmont.
 - RDOS – Keremeos – One Alert for low-lying properties along the Similkameen River within the Village of Keremeos.
- **Thompson Nicola Regional District**
 - TNRD – Nicola - Reports of stranded residents at risk along Highway 8. RCMP requested to assist with wellness checks and determine if evacuation is required.
 - TNRD – One Alert issued for the following Electoral Areas:
 - Electoral Area “I” (Blue Sky Country)
 - Electoral Area “M” (Beautiful Nicola Valley – North)
 - Electoral Area “N” (Beautiful Nicola Valley – South)
 - TNRD – Brookmere – 2 Orders for 51 properties in Brookmere and 2 properties in EAN.
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- Central Saanich
 - EOC activated
 - Localized flooding throughout the district. Supporting Public Works with the Brentwood Bay area, liaising with Saanich Peninsula Hospital with resources as needed and status update.

Key Internet Links:

Avalanche Canada Weather Forecast [Drying out at last \(avalanche.ca\)](http://avalanche.ca)

Emergency Info BC

<https://www.emergencyinfobc.gov.bc.ca>

BC Hydro Outage Map ^{Copyright}

BC River Forecast Centre

<https://www2.gov.bc.ca/gov/content/environment/air-land-water/water/drought-flooding-dikes-dams/river-forecast-centre>

Drive BC

Copyright

Information about Disaster Financial Assistance is available on the DFA web site at

<http://www.gov.bc.ca/disasterfinancialassistance>

Environment Canada ^{Copyright}

Copyright

APPROVED BY:

Janet Adams

PECC Deputy Director

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EMBC UPDATE - November 17, 2021 @ 07:00 hrs

From: EMBC PDM EMBC:EX <s.17
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Sent: November 17, 2021 7:00:06 AM PST

Attachments: image004.png, image002.png, image005.png, image003.png, image001.png

Good morning,

EMBC UPDATE – November 17, 2021 @ 07:00 hrs

OVERVIEW

Atmospheric River Events– Multiple Regions

This weekend's atmospheric river caused heavy rain and localized flooding. Multiple rain-induced incidents occurred across Vancouver Island and the Southern half of the province in the past 48hrs. Several States of Local Emergency and Evacuation Alerts and Orders have been declared. Rescue efforts have continued throughout Nov. 16, 2021, and many stranded motorists have now been able to seek shelter and appropriate supports in nearby communities. However, several communities and First Nations remain isolated, and efforts are ongoing to provide accommodation and support. MOTI anticipates Highways 1,3, and 7 may be restored this week.

Provincial Overview

- The Provincial Emergency Coordination Center will be stood up again today to support response.
- The storm blocked, damaged, and impacted multiple roadways, causing widespread road closures, and stranding multiple motorists.
 - Travelers have found themselves stranded in many areas of the province and the Province is following up to support them. Currently, in Hope 1,100 stranded travelers are receiving local support, with 900 of those in group lodgings. BC Wildfire Service is working to move resources by air to support the relief efforts.
- The situation is dynamic and full, accurate situational awareness remains challenging, but current estimates suggest that there are approximately 17,775 people evacuated due to impacts from this storm event in BC, with 5,918 properties on Evacuation Order, and 3,632 properties on Evacuation Alert.
- Emergency Support Services volunteers are responding in affected areas to provide supports to evacuees.
 - Approximately 20 locations are activated as Reception Centers.
- Multiple highways remain closed throughout BC causing disruptions to travel.
 - Highway 1 (Malahat) Will be closed overnight from 7pm until 6am for the next six days.
 - Highway 1 (East of Golden)
 - Highway 1 (Agassiz – Spences Bridge)
 - Highway 3 (Sunshine Valley)
 - Highway 5 (Hope – Merritt)
 - Highway 7 (Maple Ridge – Hope)
 - Highway 8 (Merritt – Spences Bridge)
 - Highway 11 (US border – Vye Road, Abbotsford)

- Highway 99 (Pemberton to Lillooet)
- For a complete list of highway and road closures, including ferry disruptions due to flooding, see [DriveBC](#).

Sumas Prairie – Abbotsford

- The City of Abbotsford has issued an urgent notice for all residents remaining in the Sumas Prairie area to evacuate the area immediately.
- The Barrowtown pump station is in danger of succumbing to flood waters, and if it does the areas that have not yet been flooded will be inundated.
- Regional SAR teams are staging personnel and equipment to respond by ground, boat, and air as required to evacuate residents from the area this morning.

Aircraft Crash – SWE

- JRCC recovered two bodies from the crash site yesterday.
- The incident has been handed to the RCMP and the Transportation Safety Board.

DGIR Code 2/Overboard Shipping Containers – VIC

- The situation on board the M/V *Zim Kingston* remains stable, the final destination and available moorage is still being determined.
- Shoreline clean-up efforts continue as weather and tides allow. Crews are working on removing debris from the sites when conditions are favourable.

PROVINCIAL WEATHER

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This morning, a frontal system moving over central and northern BC will bring flurries to the Northwest Coastal and Inland mountain ranges. Expect up to 5cm for snow accumulations over northern B.C. A ridge over southern B.C. will maintain clear skies for this morning but cloud cover is expected to increase throughout the day as an advancing system along the coast sweeps southeast.

This afternoon, flurries continue over the central and northern parts of B.C. with an additional 2 to 4 cm of accumulations over the northwest ranges before tomorrow morning. Rain will sweep down over the Haida Gwaii and central coast area. The Lower Mainland will see mainly cloudy skies overnight. Increasing cloudiness is in store for tonight over the southern interior and the mountain ranges over the Columbias and the Kootenay.

WEATHER ALERTS and ADVISORIES

Winter Storm Warning in effect for: Haines Road – Haines Junction to Pleasant Camp, and South Klondike Highway - Carcross to White Pass.

Snowfall Warning in effect for: North Coast – inland sections.

FLOOD WARNINGS and ADVISORIES

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Flood Warning in effect for: Lower Nicola River from Merritt to Spences Bridge, Sumas River and areas around the US Border, and Coldwater River.

Flood Watch in effect for: Fraser Valley including surrounding tributaries, Fraser Canyon tributaries including tributaries around Hope.

High Streamflow Advisory in effect for: Similkameen River, Tulameen River and tributaries, Chemainus River, Englishman River, Cowichan River, Koksilah River, Coquihalla River and Chilliwack River.

PROVINCIAL SUMMARY – All Hazards

PECC Level 2	CTL	NEA	NWE	SEA	SWE	VIC	Total
PREOC Activations	1	-	-	-	1	1	3

Band Council Resolutions	13	1	1	-	-	-	15
States of Local Emergency	8	5	1	3	7	2	26
Evacuation Orders	15	7	1	3	14(+4)	4(-2)	43(+2)
Evacuation Alerts	7(+1)	7	1	1	5(-2)	-	21(-1)

This table is reflective of all hazards and may not match the numbers provided in the PECC sitrep for the atmospheric river event.

REGIONAL SUMMARIES

CENTRAL REGION

Central PREOC is activated in response to rain-induced incidents.

City of Merritt

- SOLE declared due to flooding.
- An evacuation order issued for the City of Merritt in its entirety.

Regional District of Okanagan-Similkameen

- SOLE declared for EAs H and G due to flooding.
- SOLE declared for EA B due to flooding.
- An Evacuation Order issued for 74 addresses in EA "G, B, and H" due to flooding.

Town of Princeton

- SOLE declared due to flooding.
- 3 Evacuation Orders issued for 228 properties along the Tulameen River.
- 2 Evacuation Alerts for 209 properties.

Village of Keremeos

- An Evacuation Alert for properties within the Village of Keremeos has been rescinded.

Cook's Ferry Indian Band

- BCR declared due to flooding.
- An Evacuation Order issued for IR 1 & 4.
- An Evacuation Alert issued for the remainder of the community.

Nooaitch Indian Band

- An Evacuation Order issued for IR 10.

Lower Similkameen Indian Band

- BCR declared due to flooding.
- Evacuation Alert issued for IR 7, 8, Similkameen IR No2, Alexis IR No9, Ashnola IR 10
- Issued an Evacuation Order for Alexis Indian Reserve No 3, Similkameen Indian Reserve No 2, Chopaka Indian Reserve No 7&8 and Chopaka Rd North Susap Creek.

Thompson-Nicola Regional District

- SOLE declared for EA N due to flooding.
- An Evacuation Alert issued for EAs "I, M, and N."
- An Evacuation Order issued for 53 properties.
- An Evacuation Order has been issued for 37 properties within EA "I"

NORTHEAST REGION

No significant incidents to report.

NORTHWEST REGION

No significant incidents to report.

SOUTHEAST REGION

Regional District of East Kootenay

- SOLE declared for EA "A" due to flooding.
- An Evacuation Alert issued for 11 properties in EA "A".

SOUTHWEST REGION

SWE PREOC is activated in response to rain-induced incidents.

Fraser Valley Regional District

- SOLE declared due to flooding and mudslides.
- An Evacuation Order issued for 53730 Bridal Falls Road (Camperland RV Resort & Cabins).
- An Evacuation Order issued for 4 properties on Auchenway Road in EA "E".

City of Abbotsford

- An Evacuation Alert issued for Clayburn Area: Clayburn Village and surrounding area.
- An Evacuation Alert issued for Eagle Mountain Areas: Cranberry Court, Briarwood Place, Doneagle Place.
- An Evacuation Alert issued for Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road.
- An Evacuation Alert issued for Sumas Prairie: Westside of Whatcom Road, East of Huntington Village, Southside of Vye Road.
- An Evacuation Alert issued for Straiton Areas: Dawson Road East of Sumas Mountain Road, Southern rail line to the West, Whatcom Road to the East, Highway 1 to the North, United States border to the South.
- An Evacuation Alert issues for Matsqui Village.
- An Evacuation Order issued for a portion of the Sumas Prairie.
- An Evacuation Order issued for 7 addresses on Straiton Road.

District of Kent

- SOLE declared due to flooding.
- An Evacuation Order for 59 residents south of 6500 block of Rockwell Drive.

Squamish-Lillooet Regional District

- An Evacuation Alert issued for 34 properties in EA "D" has been rescinded.

Village of Harrison Hot Springs

- SOLE declared due to flooding.

City of Langley

- An Evacuation Order for 1 property on 264th Street.

City of Chilliwack

- SOLE declared for 47000 block of Yale Road and 47000 block of Chartwell Drive.
- An Evacuation Order issued for 7 properties from Boundary Road to Browne Road, and all of Majuba Hill and 4 properties on Yale Road and 3 properties on Chartwell Drive.
- An Evacuation Alert issued for Yarrow, from Boundary Road to Browne Road, and from the Vedder River to Majuba Hill Road.

VANCOUVER ISLAND and CENTRAL COAST REGION

VIC PREOC is activated in response to rain-induced incidents and continues to provide support through the Regional Duty Manager and Liaison Officer as required, for the DGIR Code 2 - *M/V Zim Kingston* fire and overboard shipping containers.

Cowichan Valley Regional District

- SOLE declared for the entirety of the Regional District including the City of Duncan and local First Nations communities.
- An Evacuation Order for 6 properties in the Allenby Road area.
- Evacuation of the Meadow Glen apartment building due to flooding on Canada Ave.

Regional District of Nanaimo

- SOLE declared for EAs "A & G".
- An Evacuation Order issued for the Cedar Grove campsite.

- An Evacuation Order for an RV site on Martindale Road.
- An Evacuation Order for 29 addresses in the Riverside Road area.
- Evacuation Order rescinded for 246 Riverbend Road, 3506 Island Hwy West, Waters Road in EA G.
- Evacuation Order rescinded for Portions of Wilkinson Road, Alice Road and Riverside Road in EA A.

Janet Adams | Provincial Duty Manager

Emergency Management BC

Block A – Suite 200, 2261 Keating Cross Rd

Saanichton, BC CANADA V8M 2A5

Ph: 250-952-4278 Fax: 250-952-4872

24 Hour Emergency: 1-800-663-3456

Follow PreparedBC

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Page 077 of 122 to/à Page 079 of 122

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8:00am Situation Update EMBC

From: Hembree, Sara PSSG:EX <Sara.Hembree@gov.bc.ca>
To: Farnworth, Mike PSSG:EX <Mike.Farnworth@gov.bc.ca>
Cc: Maartman, William PSSG:EX <William.Maartman@gov.bc.ca>, Douglas, Andrew PSSG:EX <Andrew.Douglas@gov.bc.ca>, Godfrey, Samuel PSSG:EX <Samuel.Godfrey@gov.bc.ca>, Maher, Melissa PSSG:EX <Melissa.Maher@gov.bc.ca>
Sent: November 17, 2021 7:33:09 AM PST

Microsoft Teams meeting

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+1 778-401-6289 s.15; s.17 Canada, Victoria

Phone Conference ID: s.15; s.17

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Fwd: EMBC Regional Operations

From: Maher, Melissa PSSG:EX <Melissa.Maher@gov.bc.ca>
To: Jennifer Rice ^{s.17}, Farnworth, Mike PSSG:EX
<Mike.Farnworth@gov.bc.ca> ^{s.22}
Sent: November 17, 2021 2:21:38 PM PST
Attachments: EMBC Regional Operations_ Nov 17 2021.docx

Please find the EMBC Regional Operations Update.

Thank you,

Melissa Maher

Executive Assistant to
Solicitor General and Deputy Premier
Honourable Mike Farnworth

Begin forwarded message:

From: "Fraser, Agnes EMBC:EX" <Agnes.Fraser@gov.bc.ca>
Date: November 17, 2021 at 2:18:32 PM PST
To: "Douglas, Andrew PSSG:EX" <Andrew.Douglas@gov.bc.ca>
Cc: "Newton, Sam PSSG:EX" <Sam.Newton@gov.bc.ca>, "Hembree, Sara PSSG:EX" <Sara.Hembree@gov.bc.ca>, "Turner, Jordan GCPE:EX" <Jordan.Turner@gov.bc.ca>, "Brown, Tom G EMBC:EX" <Tom.Brown@gov.bc.ca>, "Stonnell, Jennifer EMBC:EX" <Jennifer.Stonnell@gov.bc.ca>, "Richards, Tara R EMBC:EX" <Tara.Richards@gov.bc.ca>, "Williams, Bryan EMBC:EX" <Bryan.Williams@gov.bc.ca>, "Maher, Melissa PSSG:EX" <Melissa.Maher@gov.bc.ca>
Subject: EMBC Regional Operations

Good afternoon,

Please find attached Regional Operations report for the Minister.

Thank you,
Agnes

Emergency Management BC REGIONAL OPERATIONS UPDATE Nov 17, 2021

Information current as of Nov 17, 07:00

Atmospheric Event Update

- EMBC Activation Summary: 4 (PECC, CTL, SWE, VIC)

Band Council Resolutions, SOLE, Order & Alert Changes

	As of Nov 17, 0700	Overnight
Band Council resolutions	1	
States of local emergency	13	
Evacuation orders	26	
Approx. properties on order	5,918	
Approx. people on alert	17,775	
Evacuation alerts	13	
Approx. properties on alert	3,632	
Approx. people on alert	5,199	

NOTES:

- Properties numbers are approximate – some areas with regional districts do not provide property totals and orders and alerts from First Nations Communities generally not provide property counts.

Overnight Updates

Sumas Prairie – Abbotsford

- The City of Abbotsford has issued an urgent notice for all residents remaining in the Sumas Prairie area to evacuate the area immediately.
- The Barrowtown pump station is in danger of succumbing to flood waters, and if it does the areas that have not yet been flooded will be inundated.
- Regional SAR teams are staging personnel and equipment to respond by ground, boat, and air as required to evacuate residents from the area the morning of Nov 17.

Situation Overview

- The storm blocked, damaged, and impacted multiple roadways, causing widespread road closures, and stranding multiple motorists.
- Travelers have found themselves stranded in many areas of the province and the Province is following up to support them. Currently, in Hope 1,100 stranded travelers are receiving local support, with 900 of those in group lodgings. BC Wildfire Service is working to move resources by air to support the relief efforts.
- EMBC has approved Disaster Financial Assistance (DFA) for flooding in the Vancouver Island & Central Coast, Southwest, and Central regions of the province, including all First Nations communities, electoral areas, and municipalities within these areas.

Weather Outlook

Wednesday: Will remain dry provincially

Warnings and Advisories

Winter Storm Warning: Haines Road – Haines Junction to Pleasant Camp, and South Klondike Highway - Carcross to White Pass.

Snowfall Warning: North Coast – inland sections.

Flood warning: Lower Nicola River from Merritt to Spences Bridge, Sumas River and areas around the US Border, and Coldwater River.

Flood watch: Fraser Valley including surrounding tributaries, Fraser Canyon tributaries including tributaries around Hope.

High streamflow advisory: Similkameen River, Tulameen River and tributaries, Chemainus River, Englishman River, Cowichan River, Koksilah River, Coquihalla River and Chilliwack River.

Orders and Alerts

CENTRAL REGION

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- BCR declared due to flooding.
- An Evacuation Order issued for IR 1 & 4.
- An Evacuation Alert issued for the remainder of the community.

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- An Evacuation Alert for properties within the Village of Keremeos has been rescinded.

Thompson-Nicola Regional District

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- An Evacuation Order issued for 53 properties.
- An Evacuation Order has been issued for 37 properties within EA "I"

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- An Evacuation Order issued for 7 addresses on Straiton Road.

District of Kent

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- An Evacuation Order for 59 residents south of 6500 block of Rockwell Drive.

Squamish-Lillooet Regional District

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Village of Harrison Hot Springs

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City of Langley

- An Evacuation Order for 1 property on 264th Street.

City of Chilliwack

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VANCOUVER ISLAND and CENTRAL COAST REGION

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- An Evacuation Order for an RV site on Martindale Road.
- An Evacuation Order for 29 addresses in the Riverside Road area.
- Evacuation Order rescinded for 246 Riverbend Road, 3506 Island Hwy West, Waters Road in EA G.
- Evacuation Order rescinded for Portions of Wilkinson Road, Alice Road and Riverside Road in EA A.

Emergency Support Services

- ESS Call Centre is receiving a consistently high call volume and have extended their hours of operation.
- Commercial accommodation in Kamloops is limited and only those on Order are receiving commercial accommodation.
- Kelowna has some capacity and buses are transporting people from Kamloops to Kelowna if they need accommodation support.
- ESS HQ Staff are working to support Abbotsford who is seeking personnel support at their Reception and Group Lodging sites. Abbotsford is also engaged with Samaritan's Purse to support.
- Reception Centres active: approximately 20 (including: Abbotsford, Agassiz, Chilliwack, Cowichan Valley Regional District, Hope, Kelowna, Kamloops, Regional District Okanagan Similkameen/Penticton, Salmon Arm)
 - Many communities are providing mutual aid as host communities.
 - Some may be informal centres not seeking provincial support.

Transportation

- MOTI anticipates Highways 1,3, and 7 may be restored this week.
- CP Rail lines damaged through Fraser Valley. No short-term impact to Lower Mainland critical supplies. One train caught in debris flow east/north of Spuzzum; no injuries.

Closures

- Highway 1 (Malahat) Will be closed overnight from 7pm until 6am until Nov 22.
- Highway 1 (East of Golden)
- Highway 1 (Agassiz – Spences Bridge)
- Highway 3 (Sunshine Valley)
- Highway 5 (Hope – Merritt)
- Highway 7 (Maple Ridge – Hope)
- Highway 8 (Merritt – Spences Bridge)
- Highway 11 (US border – Vye Road, Abbotsford)
- Highway 99 (Pemberton to Lillooet)

Utilities

BC Hydro

- Restored service to 56,000 customers overnight Nov 17.
- Remaining outages: 13,000 in Thompson-Shuswap and Okanagan, 1,000 North Fraser
- Limited access is delaying restoration for remaining clients.
- Hope: Weather mitigation in progress, anticipate stable power for Hope Nov 17.

Dams:

- Receding inflows at all LML and Sea-to-Sky sites.
- Flows peaked Nov 15. Flows are not significant to river levels.
- Walheach Dam continues to use spillway.

Fortis BC:

- Sunshine Coast at Roberts Creek distribution line and intermediate pressure line exposed in creek. Hydro line de-energized and fire department on scene.
- Halfmoon Bay distribution pressure line is exposed
- A main distribution line at Princeton is impacted with up to 1,200 customers possibly affected
- Distribution line at Merritt is impacts but the full extent cannot be confirmed due to current high-water levels
- Fraser Valley distribution line service in a farmer's field near Seabird Island is leaking and being isolated

Telecommunications:

- Bell cellular voice/data outages in the Fraser Valley and Northern Vancouver

PECC Situation Report November 17, 2021

From: EMBC PECC Operations 1 EMBC:EX <s.17 >
Sent: November 17, 2021 8:32:54 PM PST
Attachments: PECC-SITREP_17 Nov Overview Orders.pdf, PECC-SITREP_17 Nov Overview Flood.pdf, 21_PECC SitRep_Nov 17_2021_#3_FINAL.docx, 21_PECC SitRep_Nov 17_2021_#3_FINAL.pdf

Please find attached, the situation report for the Provincial Emergency Coordination Centre for November 17, 2021.

Martin Caldwell
Operations Section Chief
Provincial Emergency Coordination Centre (PECC)
Emergency Management BC
PO Box 9201 Stn Prov Gov
Victoria, B.C. CANADA V8W 9J1

Ph: 778-698-8626 Fax: 250-652-0107
24 Hour Emergency Reporting 1-800-663-3456
Follow us on Twitter [@EmergencyInfoBC](#) and [@PreparedBC](#)

Emergency Management British Columbia Provincial Orders and Alerts Overview

Date: November 17, 2021

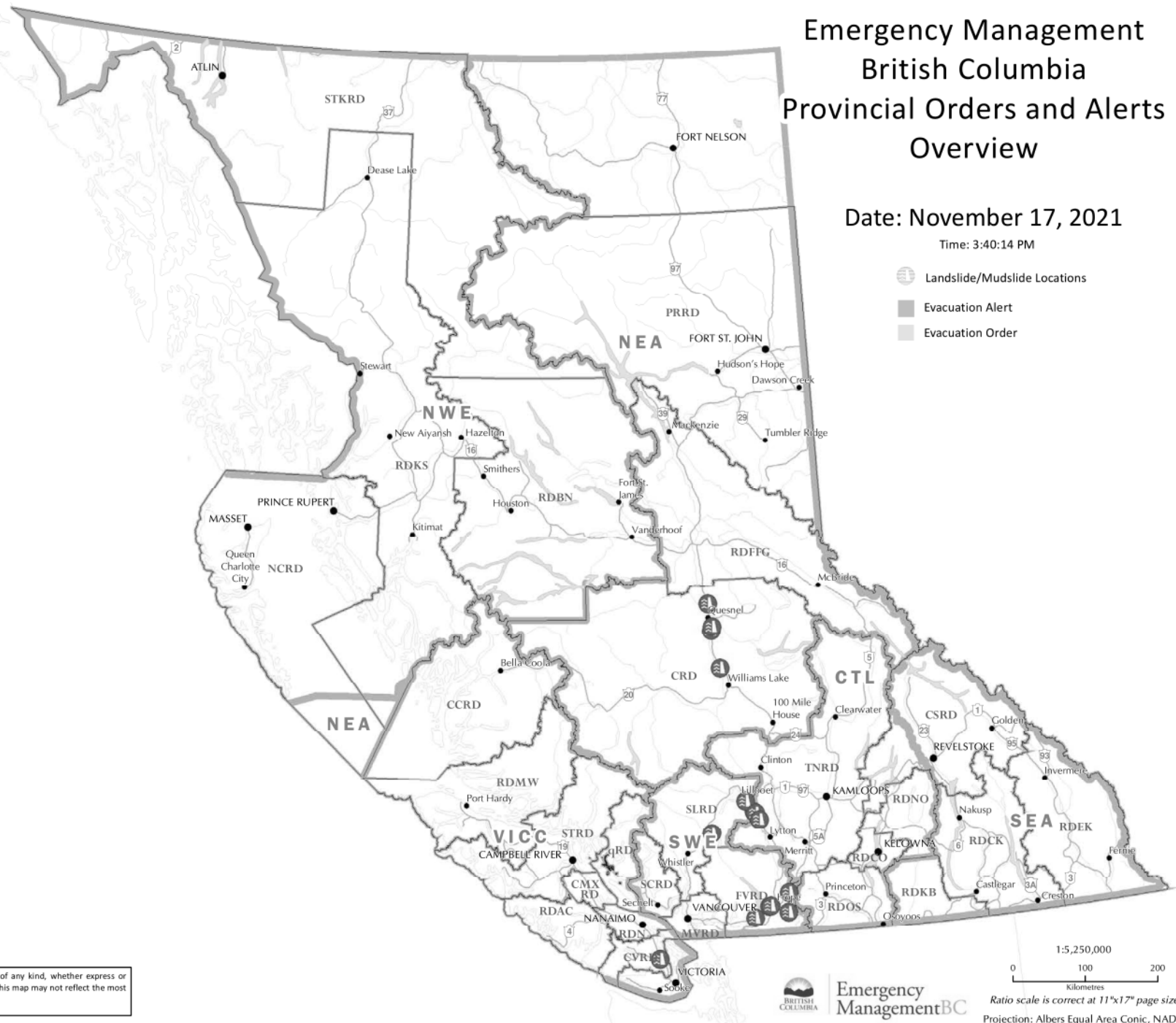
Time: 3:40:14 PM

- Landslide/Mudslide Locations
- Evacuation Alert
- Evacuation Order

Communities & First Nations Affected by Flooding: November 17, 2021	Communities & First Nations Affected by Flooding: November 17, 2021
Archie 21	Nagay-Yorke 36
Armidale	Nasir-Fair 4
Armidale 10	Neches 23
Aspen Grove	Nielsen 6
Ayechkoosh 5	Nisqually 1
Barnston	Nisqually 10
Barnston 18	Nisqually 20
Barnston 23	Nisqually 30
Barnston 35	Nisqually 40
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Barnston 60	Nisqually 70
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Barnston 950	Nisqually 960
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Barnston 970	Nisqually 980
Barnston 980	Nisqually 990
Barnston 990	Nisqually 1000

Disclaimer: This map and all of the information it contains are provided "as is" without warranty of any kind, whether express or implied. Flood, fire and/or COVID-19 information is updated as it is received. Information shown on this map may not reflect the most current flood, fire, or covid situation, and therefore should only be used for reference purposes.

X:\PEP\response\PECC\2021\2021_11_17\angis\projects\EMBC Provincial Overview Flood Notifications 20211117.mxd





PECC ACTIVATION DAY NO. 3

NOVEMBER 17, 2021

Hazard(s): Atmospheric River Storm

Operational Period: November 17, 2021, 08:00 hrs to Closing

Next Sitrep will be issued: November 18, 2021

Primary PECC E-mail: s.17

Primary PECC Phone: 778-698-8617

Information current as of Nov 17, 2021 at 17:00h

***New information is noted in blue font**

Note: Information contained in this situation report is for operational purposes only. The contained information is not meant for external dissemination. If you wish to use information contained herein for release, you must clear it with the PECC Director.

PROVINCIAL SITUATION

The EMBC Provincial Emergency Coordination Centre (PECC) is activated today in support of three Provincial Regional Emergency Operations Centres (PREOCs) and the impacts of the atmospheric river storm event that resulted in multiple flooding, landslide, mudslide, power outages and other human consequence impacts along the BC southern coastal and interior regions.

This afternoon, a Provincial State of Emergency was declared to mitigate impacts on transportation networks, facilitate movement of essential goods and supplies, and to support the provincewide response and recovery from the widespread damage caused by severe flooding and landslides in BC.

The state of emergency, initially in effect for 14 days, ensures federal, provincial, and local resources can be delivered in a coordinated response to protect the public, which remains the provincial government's top priority.

The focus is on clearing, repairing and reopening roads to connect the Interior and the North to the Lower Mainland and Vancouver Island so that supply chains begin moving and stranded travelers return home. The federal government has responded to and accepted British Columbia's requests for assistance. In the coming days additional federal resources and personnel will be arriving in BC to assist.

Disaster Financial Assistance (DFA) has been approved for flooding in the Vancouver Island & Central Coast, Southwest, and Central regions of the Province, including all First Nations communities, electoral areas, and municipalities within these Regions.

WEATHER OUTLOOK AND ALERTS

Flood Safety, Water Management Branch Weather Outlook

- Generally, drier conditions are expected in the short term, and river levels are expected to continue to recede throughout the week

- Light precipitation is expected for some areas later in the week; however, no significant flow rises are currently projected
- Systems with lake or reservoir-fed watersheds are receding more slowly
- Areas close to the Sumas River continue to experience high water conditions
- Many river systems remain sensitive due to high flows, and will be closely monitored

RIVER FORECAST CENTRE (RFC) WATCHES AND WARNINGS

EMBC Central Region

RFC has downgraded Flood Watches to High Streamflow Advisories for:

- Lower Nicola River
- Coldwater River

EMBC Southwest Region

RFC is maintaining Flood Warnings for:

- Sumas River and areas around the US Border

And downgraded Flood Warnings to High Streamflow Advisories for:

- Fraser Canyon tributaries, including tributaries around Hope
- Fraser Valley
- Chilliwack River

EMBC Vancouver Island Central Region

High Streamflow Advisory maintained for:

- Cowichan River

HUMAN CONSEQUENCE IMPACTS

PROVINCIAL SUMMARY

The following table depicts impacts related only to the recent BC atmospheric river storm event. While the information reflects the best current situational awareness of the event, it may be subject to revision.

	CTL	NWE	NEA	SEA	SWE	VIC	Totals
Band Council Resolutions	3 (+2)						3 (+2)
States of Local Emergency	8 (-1)				4	2	14 (-1)
Evacuation Orders	16 (-6)				14 (+2)	2 (-2)	32 (-6)
Properties on Order	3,432 (+142)				2,135 (+446)	16 (-31)	5,583 (-335)
Population on Order	9,948 (+198)				6,618 (-1,185)	159 (-63)	16,725 (-1,050)
Evacuation Alerts	6 (+1)			0 (-1)	6 (+1)	6 (+6)	18 (+5)
Properties on Alert	400 (-2,968)			0 (-10)	707 (-453)		1,107 (-2,529)
Population on Alert	1,243 (-3,236)			-	1,905 (+1,185)		3,148 (-2,051)

EMERGENCY SUPPORT SERVICES (ESS)

- The Provincial ESS Call Centre is receiving a consistently high call volume and has extended its hours of operation.
- Buses are moving evacuees from Kamloops to Kelowna if they need accommodation support.
- ESS HQ Staff are supporting the City of Abbotsford by supplying personnel to their Reception and Group Lodging sites (which also being supported by the Samaritan's Purse organization).
- Billeting has been approved for host families taking care of stranded travellers.
- Road closures has complicated the deployment of volunteers/mutual aid.
- Food referrals are no longer being provided out of the Kelowna Reception Centre as there are food supply challenges for grocery and restaurant providers
- Stranded travellers are asked to attend Reception/Warming Centres for Group Lodging support, food and water while waiting for roads to re-open

- Mental Health Supports have been requested at Reception Centres and will be supported by Disaster Psycho-Social staff.

Reception Centre locations are posted publicly on Emergency Info BC.

FLOOD IMPACTS

INFRASTRUCTURE & TRANSPORTATION

HIGHWAYS

- Highway Closures:
 - Highway 1 (Hope to Spences Bridge). DriveBC shows closed with no estimated time of re-opening available.
 - Highway 3 (Sunshine Valley) Drive BC shows UFN closure Between Sunshine Valley and Allison Pass.
 - Highway 5 (Hope – Merritt) Closed and severely impacted.
 - Highway 7 (Maple Ridge – Hope) Drive BC reporting single lane alternating.
 - Highway 8 (Merritt to Spences Bridge) Drive BC reporting UFN closure in both directions.

Impacts on the Transportation Sector

Canadian Pacific Railway (CPR)

- No estimate provided at this time for track re-opening. 47 trains are currently staged.
- Road access for movement of equipment & resources remains a challenge. All employees & contractors have been provided letters indicating they are critical service providers to hasten their movement through highway check points.

Canadian National (CN)

- Still on target for re-opening the Yale sub (Boston Bar – Vancouver) for rail traffic later today (after 1600 PST) once track patrols are completed.
- Ashcroft sub (Kamloops – Boston Bar) remains closed to rail traffic. Restoration work continues with no update to estimated time of re-opening.

Transport Canada Actions:

Civil Aviation

- NOTAMS were issued by airport operators to restrict operations to emergency support aircraft only for Langley Airport, Chilliwack Airport, and Hope Airport.

Marine Safety

- Is working on the details of an Interim Order to restrict the recreational use of pleasure craft in flooded areas.

UTILITIES/ TELECOMMUNICATIONS

- BC Hydro
 - BC Hydro is reporting less than 3,000 customers affected with outages.
- International/Interprovincial Powerlines (IPLs):
 - At present, there are no known or reported impacts to CER-regulated IPLs in BC.
- Fortis BC:
 - There are no reported Station Control or supply issues.
 - No impact to assets; standing water around the station is receding, and there remains no impact/damage to piping.

- There are no supply concerns at this time; however, with the Enbridge 30"-line shut-in, Fortis has reduced flow by 25% and is looking at ways to increase system capacity in the event there is a disruption to the 36" line.
- The company is contingency planning for different potential supply scenarios.
- Fortis, Enbridge, and NW Pipe are coordinating gas control to align operational plans. Princeton - Due to flood conditions, it has been challenging to assess the damage but FortisBC has a restoration plan in place that they are ready to execute starting Wednesday morning.
- **Telecommunications:**
 - Telus has an active outage in Spences Bridge area due to cable damage from landslide. Due to safety reasons, service technicians are standing down, and will continue to work with local authorities to ensure safe access to the site as quickly as possible. Estimated time of repair is early morning Nov. 18.
 - Shaw has outages in the CTL Region. Technicians are on site working to restore service as quickly as possible. No ETA at this time but will continue to monitor the situation and provide updates when available.
 - **ISED reports:**
 - Telecom carriers are reporting recovery to several cell sites in the affected areas and gradual stabilization of networks.
 - After a helicopter flyover, a carrier has identified a location for the installation of a fiber optic bypass. Work began early today with an aggressive target of being installed within a day or two. This will add a third route in addition to the path along HWY 99 as a contingency back-up route.
 - Some carriers reported continuing wireless congestion in the areas where evacuees are congregating.

CROSS-MINISTRY AND AGENCY UPDATES

HEALTH

- No new information.

CANADIAN ARMED FORCES

CAF Air Task Force (ATF):

- 17 Nov: A CH148 Cyclone has been identified as available to the Province. A CH146 Griffon is inbound to Kamloops for an evening arrival. A CC130 Hercules is inbound to Edmonton for an evening arrival.
- 18 Nov: Both helicopters are tasked to complete a recce flight for FLNRORD/EMBC. Potential Hercules task for moving dialysis and chemotherapy patients if able to land/take off in Chilliwack.

CAF Land Task Force (LTF):

17 Nov: LTF recce team arriving in Surrey.

18 Nov: Team will receive brief at SWE PREOC to determine best plan for using land forces to include basing locations and tasks.

CAF Liaison Officers:

- 1 JTFP LO at EMBC PECC
- 1 JTFP LO at SWE PREOC
- 1 JTFP LO to arrive at CTL PROC 18 Nov.

Aircraft assigned to the Province:

- 1 x CH146 Griffon, Kamloops potentially moving to Abbotsford tomorrow 18 Nov.
- 1 x CH148 Cyclone, Victoria.
- 1 x CC130 Hercules, Edmonton

AIR/SAR BRANCH

The EMBC AIR/SAR Branch was activated today in support of the evacuations due to floods.

AIR BRANCH

- Coordinated urgent GeoBC overflight for orthographic imaging of flood extent
- Open discussion of military support for overflight of Fraser river debris trap for River Forecast Centre
- Anticipating 2 med rotary wing with NVG capability
- Heavy lift helicopters are a few days out if still required
- Confirmed fuel supply at Abbotsford Airport is adequate for anticipated operations
- RCMSAR has offered assistance.

High Level SAR Activation Summary: November 14/21 1300 – Nov. 16/21 1300:

- 37 SAR Incident(s) with 290 Public Safety Lifeline Volunteers (PSLVs) responded
- 21 Civil Emergency Response(s) with 266 PSLVs responded

GSAR GROUP UPDATES

Southwest

Hope

- GSAR Group is isolated due to road closures
- GSAR Group is rested

Chilliwack

- Working on clearing people from the Sumas prairie using boats and rafts
- GSAR Group is also isolated due to road closures
- Assisting Central Fraser Valley SAR as well as the RCMP in conducting rescues across the Sumas Prairie

Coquitlam

- GSAR Group not directly affected by flooding
- Regional HETs team working with CFVSAR on the Sumas Prairie South Fraser

Kent Harrison

- GSAR Group is isolated due to road closures. Only connection is with Chilliwack
- SAR trucks were caught behind a landslide but since then Rescue truck was recovered and other truck was left behind for transport to deliver evac notices.
- Some equipment recovered from behind a slide

- GSAR Volunteers delivering evacuation notices by boat
- GSAR Volunteers got a night's sleep and moral is good

Central Fraser Valley

- Directly impacted by the flooding (Sumas prairie)
- Conducting evacuations on the Sumas Prairie
- Conducted significant operations across the Sumas Prairie with support from five GSAR Groups and multiple municipal fire departments across the Southwest
- Three aircraft providing Class D Helicopter Rescue (North Shore Rescue, Coquitlam, Chilliwack), boats (Coquitlam, Ridge Meadows) and vehicles were used to rescue subjects
- As of 1400 Central Fraser Valley SAR reported the number of subjects requiring rescue had greatly decreased and it was possible to travel by vehicle across a significant portion of the Sumas Prairie

Mission

- Did a rescue of 6 subjects in their area due to road wash out
- Assisting Central Fraser Valley SAR with watercraft and personnel for evacuation of the Sumas prairie

Ridge Meadows

- GSAR Group not directly affected by the flooding
- GSAR Group has the capability to provide mutual aid
- Assisting Central Fraser Valley SAR with watercraft and personnel for evacuation of the Sumas prairie

CTL SAR Group Updates:

Princeton

- GSAR Group was exhausted as of November 15, Penticton provided coverage
- Community has been impacted by flooding waters. SAR Hall has been used for operations
- Tasked to do door to door search at residences in downtown Princeton. Still have members from Vernon, Penticton and Osoyoys on scene.
- Team is rested

Nicola Valley

- Municipality under Evacuation Order
- Response capacity is reduced, but no request for replacement
- Unable to deploy out of area, minimal resources available
- GSAR Group is doing well
- Water levels appear to be dropping; however, the Coldwater River continues to cut parts of the City

Kamloops

- High operation temp November 11 – 15 created fatigue
- Response truck has been recovered
- Active on non-flood related GSAR Incidents
- L2 SARM unavailable for several days
- Anticipating continuing an ongoing search on Saturday Nov 23rd

Vernon

- Winch is unavailable with no ETA of return
- Low in SAR Managers

AGRICULTURE

Report on Dairy

- 62 dairies under Evac Order. This represents about 11,000 milk cows and another 11,000+ replacement dairy stock.
- Reports from BC Dairy indicate that some dairies & animals have been evacuated, but no confirmation on exact numbers.
- Animal Nutrition Association of Canada (ANAC), BC Division issued a Notice to Producers today (Nov 17, 2021) explaining that feed grains & protein supplements would no longer be delivered to dairies, instead redirected to poultry & pork sectors.
- Feeding only forages to a dairy animal not only impacts production, but predisposes animals to health problems (i.e., ketosis; milk fever).
- Biggest issue with trapped dairy herds now is 'water'. Without water, milk cows will soon become severely dehydrated thus compromising health & life. High # milk cows now without water for 17-18 hours. This is now CRITICAL to survivability.
- Approximately 80% of BC milk supply is inaccessible.
- Industrial plants are being shorted of milk & reports of potential shutdowns. BCMMB does not generate its daily report until 4:30 pm. Fluid milk plants are a priority to get milk to first, but even those are being shorted milk.
- BC Dairy has 6 staff attempting to call all 62 dairies under Evac Order.
- Severe infrastructure damage to barn and equipment. Will be high demand to get contractors in and building supplies and time to repair and get many dairies operational again.
- Many reports of manure pits that are full and overflowing, and milk is being dumped into pits and part of overflow. No where else to dispose of the milk.

PROVINCIAL REGIONAL UPDATES

SOUTHEAST REGION (SEA)

The **SEA PREOC** is not activated, but Regional Duty Managers are responding to flooding within the region.

Regional District of East Kootenay - RDEK EOC activated at Level 2 in support of both the City of Fernie and RDEK flood response.

- **RDEK EA "A" – Hosmer:**
 - An Alert was issued for 11 homes, now rescinded.
 - On Nov. 16, Water Stewardship issued RDEK an emergency in-stream works permit to allow equipment to clear out approximately 200 m3 of material at the confluence between Mine and Hosmer Creeks, allowing flood waters to return to the creek channel. This work was successfully completed on Nov 17.
- **City of Fernie:**
 - Coal Creek scoured and undercut Coal Creek Rd and Montane Parkway making them impassable.
 - Several public buildings experienced minor flooding and several calls for basement flooding. Hartley Creek flooded Hwy 3 with a detour in effect via Dicken Rd.
 - A sewer trunk line near Zwaryck Rd may become compromised if further scouring occurs. Geotechnical expertise is required to assess bank stability.
 - The community suffered significant damage to recreational areas, including a soccer field and the majority of Fernie's in-town trail network.

CENTRAL REGION (CTL)

CTL PREOC has activated in response to flooding.

KEY CTL REGIONAL INFORMATION

Total Active Alerts: 6 (-3)

Total Orders: 13 (-1)

Total States of Local Emergency: 7(+2)

Total Band Council Resolutions: 4(+1)

FIRST NATIONS

- Coldwater First Nation
 - Band Council Resolution.
 - IR #2 has been isolated and is without water and power.
- Cook's Ferry Indian Band
 - Band Council Resolution.
 - One Alert for IRs #2, 3, 4A, 4B, 4C, 5, 5A, 6, 8, 8A, 9, 10, 11, 11A, 16, 17, 18, 19, 20, 21 & 22.
 - Two Orders for #1 and IR#7.
- Lower Similkameen Indian Band
 - Band Council Resolution.
 - Chopaka bridges have been compromised and are closed in both directions.
 - One Alert for Chopaka IR #7/8; Similkameen IR #2, Alexis IR #9, Ashnola IR #10.
- Lytton First Nation
 - Community is without power.
 - Water system currently not operational.
- Nicomen Indian Band
 - Bridge has been washed out
- Nooaitch First Nation
 - Band Council Resolution.
 - Two bridges washed out.
 - Community is isolated and without power.
 - Community is sheltering in place.
 - A reconnaissance flight occurred November 17, 2021 with members from Nooaitch Indian Band and staff from FLNRD
- Okanagan Indian Band
 - 1 Alert issued for located North of Westside road from 12020 Westside Road to 11820 Westside Road including residents on Tatalux and North Tatatlux Roads
- Siska First Nation
 - BCR and SOLE issued on Nov. 16, 2021
- Shakan First Nation
 - Band Council Resolution Declared
 - Evacuation Order issued for IR# 11
 - Community is without power as of November 16, 2021
- Skuppah Indian Band
 - George Rd washout has caused there to be no access to the water treatment plant.
 - IR #4 water intake has been washed out.
 - Currently relying on the remaining water supply in their reservoir.

LOCAL AUTHORITIES

- Columbia Shuswap Regional District
 - Activated the EOC to a level one on November 15, 2021 in response to flooding and sandbag requests.
- District of Lillooet
 - Activated November 15, 2021 to provide ESS to people stranded due to road closures - Lillooet Friendship Centre Society providing group lodging and assisting with food when necessary.
- City of Merritt
 - State of Local Emergency Declared.
 - Evacuation Order Issued: Entire Community (approx. 7800 people), due to failure of sewage treatment plant (unsanitary conditions).
 - The wastewater treatment plant is down, with no estimated date for bringing it online
 - The water system is contaminated because of a well malfunction and the City has turned the water off.
 - Middlesboro Bridge has collapsed.
 - Water levels have receded significantly.
 - Barricade systems have been formalized and currently bridges are not being crossed for any reason until structural assessments are completed.
- Town of Princeton
 - State of Local Emergency declared.
 - 3 Evacuation Order Issued: Properties along the Tulameen River. **RESCINDED**
 - 3 Evacuation Alerts Issued: Properties along the Similkameen & Tulameen Rivers.
 - The sewer system is up and running with minor silt issues.
 - Boil water advisory in place; downtown core is under “do not consume” order.
- Regional District Okanagan-Similkameen
 - EOC Activated
 - RDOS EAB – 1 Alert for low-lying properties along the Similkameen River. 1 order for 4 properties on Chopaka Road.
 - RDOS EAG – 1 Alert for low-lying properties along the Similkameen River, 1 order for properties Schedule 1.
 - RDOS EAH – 1 Alert for low-lying properties along the Similkameen River, 2 orders for the community of Coalmont.
 - RDOS – Keremeos – One Alert for low-lying properties along the Similkameen River within the Village of Keremeos. **RESCINDED**
- Thompson Nicola Regional District
 - TNRD – Nicola - RCMP requested to assist with wellness checks and determine if evacuation is required. TNRD co-ordinating transport of rescues from Merritt to Kelowna for ESS.
 - TNRD – One Alert issued for the following Electoral Areas:
 - Electoral Area “I” (Blue Sky Country) **RESCINDED**
 - Electoral Area “M” (Beautiful Nicola Valley – North) **RESCINDED**
 - Electoral Area “N” (Beautiful Nicola Valley – South) **RESCINDED**
 - TNRD – Brookmere – 2 Orders for 51 properties in Brookmere and 2 properties in EA “N”. **RESCINDED**

SOUTHWEST REGION (SWE)

SWE PREOC activated today in response to flooding.

KEY SWE REGIONAL INFORMATION

Total Active Alerts: 10

Total Orders: 16(+6)

Total States of Local Emergency: 7(+2)

Total Band Council Resolutions: 0

FIRST NATIONS

- Chawathil First Nation
 - EOC activated for flooding. 1 home is flooding and material is sliding off bluffs around the community
- Kwikwetlem First Nation
 - EOC activated for flooding.
 - Put on flood alert from BC Hydro Dams. **RESCINDED**
- Leq'á: mel First Nation
- Lower SStl'atl'imx (LSTC)
 - Approximately 60 households are without power in Samahquam and Skatin.
 - LSTC has spoken to FLNRO, BC Hydro, and Lizzie Bay/IRM to coordinate efforts to restore power and access. FLNRO and BC Hydro will have assessment crews out first thing 2021NOV16 to begin the repair/reconnection of power lines and routes
 - In-SHUCK-ch FSR - Road access to north to Pemberton has not been established for all communities.
- Musqueam First Nation:
 - EOC activated due to flooding.
- Matsqui First Nation
 - Band Council Resolution
 - Requested sandbags and sand due to localized flooding on IR 2 and IR 4.
- Peters First Nation
 - EOC activated due to flooding.
- Seabird Island
 - EOC activated for flooding.
 - Group lodging was set up for stranded motorists. Breakfast and lunch provided for 8 truck drivers.
 - Currently Seabird Island has endured flooding of several homes and is still in high water advisory. Crews are assessing damage.
 - TELUS fiber connection from Hope is not functional, temporarily lost communication
- Shxwha:y Village First Nation
 - EOC is activated in support of the flooding and landslide response in the region
- Shsw'ow'hamel First Nation
 - EOC activated for flooding.
- Skawahlook First Nation
 - EOC activated for flooding.
- Soowahlie First Nation:

- EOC activated for flooding.
 - Currently no power or water due to flooding activity.
- Spuzzum First Nation
 - EOC activated for flooding
 - Flooding is impacting drinking water in community
- Squamish First Nation:
 - EOC activated for flooding.
- Sts'ailes First Nation:
 - Currently 2 flooded houses and 1 mobile home with water underneath. Community is currently out of sandbags.
- Sumas First Nation
 - EOC activated for flooding

LOCAL AUTHORITIES

- City of Abbotsford
 - State of Local Emergency declared
 - 4 Evacuation Orders Issued
 - Straiton Road (22 Homes)
 - Sumas Prairie including the area bordered by Sumas Mountain, DeLair Road and Old Yale Road to the North, The USA Border to the South, Chilliwack City border to the East, The Ridge West of Railway Road to the West (1700 Homes)
 - The order was partially rescinded for the Huntingdon Area of Sumas Prairie including Huntingdon Village and area west of Sumas Way between the US Border to Lonzo Avenue and were placed back on Alert
 - Alert for Sumas Prairie including the area bordered by Sumas Mountain, Delair Road and Old Yale Road to the North; the US border to the south; Chilliwack City border to the east; and the Ridge West of Railway Road to the west (300-500 homes)
 - Total numbers of homes on orders are still to be determined.
 - 8 Evacuation Alerts Issued
 - Sumas Prairie: The Southern Rail Line to the West, Whatcom Road to the East, Highway 1 to the North, United States Border to the South (1700 Homes).
 - for Matsqui Village: Grace Road North to the Matsqui Slough (12 Homes).
 - Clayburn Area: Clayburn Village and surrounding area (30 Homes).
 - Eagle Mountain Areas: Cranberry Court, Briarwood Place, Doneagle Place (12 - 15 Homes).
 - Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road (30 Homes).
 - Sumas Prairie: Westside of Whatcom Road, East of Huntington Village, Southside of Vye Road; Westside of Sumas Way to West of Riverside Road, East of Sumas River Dike to Boundary Road (140 Homes).
- Bowen Island
 - EOC activated due to flooding
- City of Chilliwack
 - 1 Alert for Yarrow, from Boundary Road to Browne Road, and from the Vedder River to Majuba Hill Road.

- 4 Orders, Yarrow, from Boundary Road to Browne Road, and all Majuba Hill and 4 properties on Yale Road and 3 properties on Chartwell Drive. Added Nov 17, one property on Yale road and one on Old Orchard Road.
- Coquitlam
 - EOC activated to coordinate provision of support, equipment and staffing for other communities.
 - No uncontrolled flooding or other emergency conditions in Coquitlam
 - Specialized rescue services (Coquitlam Fire Rescue) and/or EOC/ESS trained staff available to support other communities if needed.
- Delta - EOC Activated in response to issues related to flooding and high winds
- Fraser Valley Regional District
 - State of Local Emergency Declared
 - 1 Alert for Chilliwack River Valley, FVRD Electoral Area "E" for 7 properties on O'Byrne Road.
 - 5 Orders:
 - FVRD EA "B" for 3 properties on Fish Camp Road and 5 properties on Othello Road.
 - FVRD EA "D" for 1 property on Bridal Falls Road (24 people).
 - FVRD EA "E" for 4 properties on Auchenway Road.
 - FVRD EA "E" for 13 properties on Chilliwack Lake Road and 8 properties on Wilson Road.
 - FVRD EA "H" for 17 properties on Lakeshore Drive.
- Village of Harrison Hot Springs – EOC activated due to flooding in the Miami Slough.
- District of Hope
 - Access from all Highways (1,3,5) cut off.
 - Significant power outages for much of the day (w/hospital on generator)
 - Currently no food in town due to no power. Stores/restaurants closed.
 - Meal flown in via helicopter 2021NOV16 and provided by Salvation Army.
 - Food and cot delivery continued today.
- District of Kent
 - 1 Orders for Rockwell Drive, Rockwell Lane, Rockwell Place, Pirates Lane, Thunderbird Crescent, and Dogwood Lane (6 homes).
 - All properties on Rockwell Drive corridor have been placed on Evacuation Order.
 - Approximately 275 people rescued from Highway 7 on Nov. 15
 - Crews are working to make access through the slide area
- City of Langley – EOC activated
 - Rainfall caused widespread flooding on public and private property, as well as parks and trails, and sewer lift stations.
 - Multiple roads impacted due to flooding.
- Maple Ridge- EOC activated
 - The Fraser River levels continue to drop, and the Sanitary Sewer Overflow (SSO) event will transition from an EOC event to an operational response.
- Metro Vancouver- EOC activated
- Mission - EOC activated
 - 1 order issued for 8 properties located on the 8400 block of Bembow Street in Hatzic (8 properties).
- New Westminster – EOC standing down.

- Pemberton – EOC activated.
 - The neighbourhoods of the Peaks, Pioneer Junction, the Trailer Park on Hwy 99, the Industrial Park and One Mile Lake area have all have experienced substantial flooding.
 - A sandbag station has been set up at Municipal Hall.
- Pitt Meadows
 - Determining flood spill conditions and possible scenarios from the Alouette Dam
 - Notification to some properties along the Alouette/Pitt Rivers.
- Port Coquitlam - EOC activated.
- Squamish Lillooet Regional District – EOC activated.
 - The continued closure of the Duffy Lake Road / Hwy 99 and other closures are constraining access around the regional district, and there are a number of stranded travellers in the S2S member municipalities who are unable to get home currently.
- Sunshine Coast Regional District – EOC activated.
 - Stormwater flooding and erosion has impacted public services (drinking water, fire flows, roads, transit, wastewater treatment, parks) in 35+ locations, regionally. Fortis reports exposed gas line at Stephens Road and Lower Road and are preparing for re-routing and/or shutoff.
- Surrey – EOC Activated.
- Vancouver
 - EOC activated for flooding

VANCOUVER ISLAND AND CENTRAL COAST REGION (VIC)

VIC PREOC activated today in response to flooding.

KEY VIR REGIONAL INFORMATION

Total Active Alerts: 1

Total Orders: 1

Total States of Local Emergency: 1

Total Band Council Resolutions: 0

FIRST NATIONS

- Halalt First Nation:
 - 150 evacuees, Flooding for 30 homes due to a watermain break and overland flooding. RDA for 2 homes requested, CVRD assisting.
- Snuneymuxw First Nation:
 - 25 evacuees (approximate), reviewing impacts to several septic tanks in the area.
- Penelakut First Nation:
 - 50 evacuees (approximate.)
- Cowichan Tribes:
 - 120 evacuees (approximate).
 - Evacuation order remains in place for Sahilton road, alerts remain in place for other areas impacted by the flood as river is still very high, with rain in the forecast.
- Pauquachin First Nation
 - Flooding event. Pumps likely needed.

LOCAL AUTHORITIES

- Cowichan Valley Regional District:
 - Major flooding event taking place in the Cowichan region due to heavy rainfall over the past 48 hours - Multiple road closures (incl. highway), restricting areas throughout the region, including within the boundaries of the Municipality of North Cowichan.
 - SOLE was issued at 1100 hrs on 2021-11-15 - 4 Evacuation Orders in effect - incl. CVRD, Cowichan Tribes, Halalt and Penelakut First Nations.
- Nanaimo Regional District:
 - States of Local Emergency in place.
 - 1 Evacuation Order remains, 2 orders rescinded: Nanaimo River and Cedar Grove/Riverside/Waters Road.
- Capital Regional District
 - EOC Activated. Highway 1 in both directions reduced to single, alternating route on Malahat. Some localized power outages throughout the CRD. Water service in Fulford Harbour area down for 21 households.
- District of Sooke
 - EOC Activated.
- District of Highlands
 - EOC Activated.
- City of Langford
 - EOC Activated.
 - 20+ properties on alert.
- Central Saanich
 - EOC activated
 - Localized flooding throughout the district. Supporting Public Works within the Brentwood Bay area, liaising with Saanich Peninsula Hospital with resources as needed and status update.

Key Internet Links:

Avalanche Canada Weather Forecast [Drying out at last \(avalanche.ca\)](https://www.avalanche.ca/)

Emergency Info BC

<https://www.emergencyinfobc.gov.bc.ca>

BC Hydro Outage Map <https://www.bchydro.com/power-outages/app/outage-map.html>

BC River Forecast Centre

<https://www2.gov.bc.ca/gov/content/environment/air-land-water/water/drought-flooding-dikes-dams/river-forecast-centre>

Drive BC

<https://www.drivebc.ca/mobile/events/index.html>

Information about Disaster Financial Assistance is available on the DFA web site at

<http://www.gov.bc.ca/disasterfinancialassistance>

APPROVED BY:

Brendan Ralfs
PECC Director

Note: This document may be distributed within your agency. Any distribution outside your agency requires prior approval from the PECC Director



PECC ACTIVATION DAY NO. 3

NOVEMBER 17, 2021

Hazard(s): Atmospheric River Storm

Operational Period: November 17, 2021, 08:00 hrs to Closing

Next Sitrep will be issued: November 18, 2021

Primary PECC E-mail: s.17

Primary PECC Phone: 778-698-8617

Information current as of Nov 17, 2021 at 17:00h

***New information is noted in blue font**

Note: Information contained in this situation report is for operational purposes only. The contained information is not meant for external dissemination. If you wish to use information contained herein for release, you must clear it with the PECC Director.

PROVINCIAL SITUATION

The EMBC Provincial Emergency Coordination Centre (PECC) is activated today in support of three Provincial Regional Emergency Operations Centres (PREOCs) and the impacts of the atmospheric river storm event that resulted in multiple flooding, landslide, mudslide, power outages and other human consequence impacts along the BC southern coastal and interior regions.

This afternoon, a Provincial State of Emergency was declared to mitigate impacts on transportation networks, facilitate movement of essential goods and supplies, and to support the provincewide response and recovery from the widespread damage caused by severe flooding and landslides in BC.

The state of emergency, initially in effect for 14 days, ensures federal, provincial, and local resources can be delivered in a coordinated response to protect the public, which remains the provincial government's top priority.

The focus is on clearing, repairing and reopening roads to connect the Interior and the North to the Lower Mainland and Vancouver Island so that supply chains begin moving and stranded travelers return home. The federal government has responded to and accepted British Columbia's requests for assistance. In the coming days additional federal resources and personnel will be arriving in BC to assist.

Disaster Financial Assistance (DFA) has been approved for flooding in the Vancouver Island & Central Coast, Southwest, and Central regions of the Province, including all First Nations communities, electoral areas, and municipalities within these Regions.

WEATHER OUTLOOK AND ALERTS

Flood Safety, Water Management Branch Weather Outlook

- Generally, drier conditions are expected in the short term, and river levels are expected to continue to recede throughout the week

- Light precipitation is expected for some areas later in the week; however, no significant flow rises are currently projected
- Systems with lake or reservoir-fed watersheds are receding more slowly
- Areas close to the Sumas River continue to experience high water conditions
- Many river systems remain sensitive due to high flows, and will be closely monitored

RIVER FORECAST CENTRE (RFC) WATCHES AND WARNINGS

EMBC Central Region

RFC has downgraded Flood Watches to High Streamflow Advisories for:

- Lower Nicola River
- Coldwater River

EMBC Southwest Region

RFC is maintaining Flood Warnings for:

- Sumas River and areas around the US Border

And downgraded Flood Warnings to High Streamflow Advisories for:

- Fraser Canyon tributaries, including tributaries around Hope
- Fraser Valley
- Chilliwack River

EMBC Vancouver Island Central Region

High Streamflow Advisory maintained for:

- Cowichan River

HUMAN CONSEQUENCE IMPACTS

PROVINCIAL SUMMARY

The following table depicts impacts related only to the recent BC atmospheric river storm event. While the information reflects the best current situational awareness of the event, it may be subject to revision.

	CTL	NWE	NEA	SEA	SWE	VIC	Totals
Band Council Resolutions	3 (+2)						3 (+2)
States of Local Emergency	8 (-1)				4	2	14 (-1)
Evacuation Orders	16 (-6)				14 (+2)	2 (-2)	32 (-6)
Properties on Order	3,432 (+142)				2,135 (+446)	16 (-31)	5,583 (-335)
Population on Order	9,948 (+198)				6,618 (-1,185)	159 (-63)	16,725 (-1,050)
Evacuation Alerts	6 (+1)			0 (-1)	6 (+1)	6 (+6)	18 (+5)
Properties on Alert	400 (-2,968)			0 (-10)	707 (-453)		1,107 (-2,529)
Population on Alert	1,243 (-3,236)			-	1,905 (+1,185)		3,148 (-2,051)

EMERGENCY SUPPORT SERVICES (ESS)

- The Provincial ESS Call Centre is receiving a consistently high call volume and has extended its hours of operation.
- Buses are moving evacuees from Kamloops to Kelowna if they need accommodation support.
- ESS HQ Staff are supporting the City of Abbotsford by supplying personnel to their Reception and Group Lodging sites (which also being supported by the Samaritan's Purse organization).
- Billeting has been approved for host families taking care of stranded travellers.
- Road closures has complicated the deployment of volunteers/mutual aid.
- Food referrals are no longer being provided out of the Kelowna Reception Centre as there are food supply challenges for grocery and restaurant providers
- Stranded travellers are asked to attend Reception/Warming Centres for Group Lodging support, food and water while waiting for roads to re-open

- Mental Health Supports have been requested at Reception Centres and will be supported by Disaster Psycho-Social staff.

Reception Centre locations are posted publicly on Emergency Info BC.

FLOOD IMPACTS

INFRASTRUCTURE & TRANSPORTATION

HIGHWAYS

- Highway Closures:
 - Highway 1 (Hope to Spences Bridge). DriveBC shows closed with no estimated time of re-opening available.
 - Highway 3 (Sunshine Valley) Drive BC shows UFN closure Between Sunshine Valley and Allison Pass.
 - Highway 5 (Hope – Merritt) Closed and severely impacted.
 - Highway 7 (Maple Ridge – Hope) Drive BC reporting single lane alternating.
 - Highway 8 (Merritt to Spences Bridge) Drive BC reporting UFN closure in both directions.

Impacts on the Transportation Sector

Canadian Pacific Railway (CPR)

- No estimate provided at this time for track re-opening. 47 trains are currently staged.
- Road access for movement of equipment & resources remains a challenge. All employees & contractors have been provided letters indicating they are critical service providers to hasten their movement through highway check points.

Canadian National (CN)

- Still on target for re-opening the Yale sub (Boston Bar – Vancouver) for rail traffic later today (after 1600 PST) once track patrols are completed.
- Ashcroft sub (Kamloops – Boston Bar) remains closed to rail traffic. Restoration work continues with no update to estimated time of re-opening.

Transport Canada Actions:

Civil Aviation

- NOTAMS were issued by airport operators to restrict operations to emergency support aircraft only for Langley Airport, Chilliwack Airport, and Hope Airport.

Marine Safety

- Is working on the details of an Interim Order to restrict the recreational use of pleasure craft in flooded areas.

UTILITIES/ TELECOMMUNICATIONS

- BC Hydro
 - BC Hydro is reporting less than 3,000 customers affected with outages.
- International/Interprovincial Powerlines (IPLs):
 - At present, there are no known or reported impacts to CER-regulated IPLs in BC.
- Fortis BC:
 - There are no reported Station Control or supply issues.
 - No impact to assets; standing water around the station is receding, and there remains no impact/damage to piping.

- There are no supply concerns at this time; however, with the Enbridge 30"-line shut-in, Fortis has reduced flow by 25% and is looking at ways to increase system capacity in the event there is a disruption to the 36" line.
- The company is contingency planning for different potential supply scenarios.
- Fortis, Enbridge, and NW Pipe are coordinating gas control to align operational plans. Princeton - Due to flood conditions, it has been challenging to assess the damage but FortisBC has a restoration plan in place that they are ready to execute starting Wednesday morning.
- **Telecommunications:**
 - Telus has an active outage in Spences Bridge area due to cable damage from landslide. Due to safety reasons, service technicians are standing down, and will continue to work with local authorities to ensure safe access to the site as quickly as possible. Estimated time of repair is early morning Nov. 18.
 - Shaw has outages in the CTL Region. Technicians are on site working to restore service as quickly as possible. No ETA at this time but will continue to monitor the situation and provide updates when available.
 - **ISED reports:**
 - Telecom carriers are reporting recovery to several cell sites in the affected areas and gradual stabilization of networks.
 - After a helicopter flyover, a carrier has identified a location for the installation of a fiber optic bypass. Work began early today with an aggressive target of being installed within a day or two. This will add a third route in addition to the path along HWY 99 as a contingency back-up route.
 - Some carriers reported continuing wireless congestion in the areas where evacuees are congregating.

CROSS-MINISTRY AND AGENCY UPDATES

HEALTH

- No new information.

CANADIAN ARMED FORCES

CAF Air Task Force (ATF):

- 17 Nov: A CH148 Cyclone has been identified as available to the Province. A CH146 Griffon is inbound to Kamloops for an evening arrival. A CC130 Hercules is inbound to Edmonton for an evening arrival.
- 18 Nov: Both helicopters are tasked to complete a recce flight for FLNRORD/EMBC. Potential Hercules task for moving dialysis and chemotherapy patients if able to land/take off in Chilliwack.

CAF Land Task Force (LTF):

17 Nov: LTF recce team arriving in Surrey.

18 Nov: Team will receive brief at SWE PREOC to determine best plan for using land forces to include basing locations and tasks.

CAF Liaison Officers:

- 1 JTFP LO at EMBC PECC
- 1 JTFP LO at SWE PREOC
- 1 JTFP LO to arrive at CTL PROC 18 Nov.

Aircraft assigned to the Province:

- 1 x CH146 Griffon, Kamloops potentially moving to Abbotsford tomorrow 18 Nov.
- 1 x CH148 Cyclone, Victoria.
- 1 x CC130 Hercules, Edmonton

AIR/SAR BRANCH

The EMBC AIR/SAR Branch was activated today in support of the evacuations due to floods.

AIR BRANCH

- Coordinated urgent GeoBC overflight for orthographic imaging of flood extent
- Open discussion of military support for overflight of Fraser river debris trap for River Forecast Centre
- Anticipating 2 med rotary wing with NVG capability
- Heavy lift helicopters are a few days out if still required
- Confirmed fuel supply at Abbotsford Airport is adequate for anticipated operations
- RCMSAR has offered assistance.

High Level SAR Activation Summary: November 14/21 1300 – Nov. 16/21 1300:

- 37 SAR Incident(s) with 290 Public Safety Lifeline Volunteers (PSLVs) responded
- 21 Civil Emergency Response(s) with 266 PSLVs responded

GSAR GROUP UPDATES

Southwest

Hope

- GSAR Group is isolated due to road closures
- GSAR Group is rested

Chilliwack

- Working on clearing people from the Sumas prairie using boats and rafts
- GSAR Group is also isolated due to road closures
- Assisting Central Fraser Valley SAR as well as the RCMP in conducting rescues across the Sumas Prairie

Coquitlam

- GSAR Group not directly affected by flooding
- Regional HETs team working with CFVSAR on the Sumas Prairie South Fraser

Kent Harrison

- GSAR Group is isolated due to road closures. Only connection is with Chilliwack
- SAR trucks were caught behind a landslide but since then Rescue truck was recovered and other truck was left behind for transport to deliver evac notices.
- Some equipment recovered from behind a slide

- GSAR Volunteers delivering evacuation notices by boat
- GSAR Volunteers got a night's sleep and moral is good

Central Fraser Valley

- Directly impacted by the flooding (Sumas prairie)
- Conducting evacuations on the Sumas Prairie
- Conducted significant operations across the Sumas Prairie with support from five GSAR Groups and multiple municipal fire departments across the Southwest
- Three aircraft providing Class D Helicopter Rescue (North Shore Rescue, Coquitlam, Chilliwack), boats (Coquitlam, Ridge Meadows) and vehicles were used to rescue subjects
- As of 1400 Central Fraser Valley SAR reported the number of subjects requiring rescue had greatly decreased and it was possible to travel by vehicle across a significant portion of the Sumas Prairie

Mission

- Did a rescue of 6 subjects in their area due to road wash out
- Assisting Central Fraser Valley SAR with watercraft and personnel for evacuation of the Sumas prairie

Ridge Meadows

- GSAR Group not directly affected by the flooding
- GSAR Group has the capability to provide mutual aid
- Assisting Central Fraser Valley SAR with watercraft and personnel for evacuation of the Sumas prairie

CTL SAR Group Updates:

Princeton

- GSAR Group was exhausted as of November 15, Penticton provided coverage
- Community has been impacted by flooding waters. SAR Hall has been used for operations
- Tasked to do door to door search at residences in downtown Princeton. Still have members from Vernon, Penticton and Osoyoys on scene.
- Team is rested

Nicola Valley

- Municipality under Evacuation Order
- Response capacity is reduced, but no request for replacement
- Unable to deploy out of area, minimal resources available
- GSAR Group is doing well
- Water levels appear to be dropping; however, the Coldwater River continues to cut parts of the City

Kamloops

- High operation temp November 11 – 15 created fatigue
- Response truck has been recovered
- Active on non-flood related GSAR Incidents
- L2 SARM unavailable for several days
- Anticipating continuing an ongoing search on Saturday Nov 23rd

Vernon

- Winch is unavailable with no ETA of return
- Low in SAR Managers

AGRICULTURE

Report on Dairy

- 62 dairies under Evac Order. This represents about 11,000 milk cows and another 11,000+ replacement dairy stock.
- Reports from BC Dairy indicate that some dairies & animals have been evacuated, but no confirmation on exact numbers.
- Animal Nutrition Association of Canada (ANAC), BC Division issued a Notice to Producers today (Nov 17, 2021) explaining that feed grains & protein supplements would no longer be delivered to dairies, instead redirected to poultry & pork sectors.
- Feeding only forages to a dairy animal not only impacts production, but predisposes animals to health problems (i.e., ketosis; milk fever).
- Biggest issue with trapped dairy herds now is 'water'. Without water, milk cows will soon become severely dehydrated thus compromising health & life. High # milk cows now without water for 17-18 hours. This is now CRITICAL to survivability.
- Approximately 80% of BC milk supply is inaccessible.
- Industrial plants are being shorted of milk & reports of potential shutdowns. BCMMB does not generate its daily report until 4:30 pm. Fluid milk plants are a priority to get milk to first, but even those are being shorted milk.
- BC Dairy has 6 staff attempting to call all 62 dairies under Evac Order.
- Severe infrastructure damage to barn and equipment. Will be high demand to get contractors in and building supplies and time to repair and get many dairies operational again.
- Many reports of manure pits that are full and overflowing, and milk is being dumped into pits and part of overflow. No where else to dispose of the milk.

PROVINCIAL REGIONAL UPDATES

SOUTHEAST REGION (SEA)

The **SEA PREOC** is not activated, but Regional Duty Managers are responding to flooding within the region.

Regional District of East Kootenay - RDEK EOC activated at Level 2 in support of both the City of Fernie and RDEK flood response.

- **RDEK EA "A" – Hosmer:**
 - An Alert was issued for 11 homes, now rescinded.
 - On Nov. 16, Water Stewardship issued RDEK an emergency in-stream works permit to allow equipment to clear out approximately 200 m3 of material at the confluence between Mine and Hosmer Creeks, allowing flood waters to return to the creek channel. This work was successfully completed on Nov 17.
- **City of Fernie:**
 - Coal Creek scoured and undercut Coal Creek Rd and Montane Parkway making them impassable.
 - Several public buildings experienced minor flooding and several calls for basement flooding. Hartley Creek flooded Hwy 3 with a detour in effect via Dicken Rd.
 - A sewer trunk line near Zwaryck Rd may become compromised if further scouring occurs. Geotechnical expertise is required to assess bank stability.
 - The community suffered significant damage to recreational areas, including a soccer field and the majority of Fernie's in-town trail network.

CENTRAL REGION (CTL)

CTL PREOC has activated in response to flooding.

KEY CTL REGIONAL INFORMATION

Total Active Alerts: 6 (-3)

Total Orders: 13 (-1)

Total States of Local Emergency: 7(+2)

Total Band Council Resolutions: 4(+1)

FIRST NATIONS

- Coldwater First Nation
 - Band Council Resolution.
 - IR #2 has been isolated and is without water and power.
- Cook's Ferry Indian Band
 - Band Council Resolution.
 - One Alert for IRs #2, 3, 4A, 4B, 4C, 5, 5A, 6, 8, 8A, 9, 10, 11, 11A, 16, 17, 18, 19, 20, 21 & 22.
 - Two Orders for #1 and IR#7.
- Lower Similkameen Indian Band
 - Band Council Resolution.
 - Chopaka bridges have been compromised and are closed in both directions.
 - One Alert for Chopaka IR #7/8; Similkameen IR #2, Alexis IR #9, Ashnola IR #10.
- Lytton First Nation
 - Community is without power.
 - Water system currently not operational.
- Nicomen Indian Band
 - Bridge has been washed out
- Nooaitch First Nation
 - Band Council Resolution.
 - Two bridges washed out.
 - Community is isolated and without power.
 - Community is sheltering in place.
 - A reconnaissance flight occurred November 17, 2021 with members from Nooaitch Indian Band and staff from FLNRORD
- Okanagan Indian Band
 - 1 Alert issued for located North of Westside road from 12020 Westside Road to 11820 Westside Road including residents on Tatalux and North Tatatlux Roads
- Siska First Nation
 - BCR and SOLE issued on Nov. 16, 2021
- Shakan First Nation
 - Band Council Resolution Declared
 - Evacuation Order issued for IR# 11
 - Community is without power as of November 16, 2021
- Skuppah Indian Band
 - George Rd washout has caused there to be no access to the water treatment plant.
 - IR #4 water intake has been washed out.
 - Currently relying on the remaining water supply in their reservoir.

LOCAL AUTHORITIES

- Columbia Shuswap Regional District
 - Activated the EOC to a level one on November 15, 2021 in response to flooding and sandbag requests.
- District of Lillooet
 - Activated November 15, 2021 to provide ESS to people stranded due to road closures - Lillooet Friendship Centre Society providing group lodging and assisting with food when necessary.
- City of Merritt
 - State of Local Emergency Declared.
 - Evacuation Order Issued: Entire Community (approx. 7800 people), due to failure of sewage treatment plant (unsanitary conditions).
 - The wastewater treatment plant is down, with no estimated date for bringing it online
 - The water system is contaminated because of a well malfunction and the City has turned the water off.
 - Middlesboro Bridge has collapsed.
 - Water levels have receded significantly.
 - Barricade systems have been formalized and currently bridges are not being crossed for any reason until structural assessments are completed.
- Town of Princeton
 - State of Local Emergency declared.
 - 3 Evacuation Order Issued: Properties along the Tulameen River. **RESCINDED**
 - 3 Evacuation Alerts Issued: Properties along the Similkameen & Tulameen Rivers.
 - The sewer system is up and running with minor silt issues.
 - Boil water advisory in place; downtown core is under “do not consume” order.
- Regional District Okanagan-Similkameen
 - EOC Activated
 - RDOS EAB – 1 Alert for low-lying properties along the Similkameen River. 1 order for 4 properties on Chopaka Road.
 - RDOS EAG – 1 Alert for low-lying properties along the Similkameen River, 1 order for properties Schedule 1.
 - RDOS EAH – 1 Alert for low-lying properties along the Similkameen River, 2 orders for the community of Coalmont.
 - RDOS – Keremeos – One Alert for low-lying properties along the Similkameen River within the Village of Keremeos. **RESCINDED**
- Thompson Nicola Regional District
 - TNRD – Nicola - RCMP requested to assist with wellness checks and determine if evacuation is required. TNRD co-ordinating transport of rescues from Merritt to Kelowna for ESS.
 - TNRD – One Alert issued for the following Electoral Areas:
 - Electoral Area “I” (Blue Sky Country) **RESCINDED**
 - Electoral Area “M” (Beautiful Nicola Valley – North) **RESCINDED**
 - Electoral Area “N” (Beautiful Nicola Valley – South) **RESCINDED**
 - TNRD – Brookmere – 2 Orders for 51 properties in Brookmere and 2 properties in EA “N”. **RESCINDED**

SOUTHWEST REGION (SWE)

SWE PREOC activated today in response to flooding.

KEY SWE REGIONAL INFORMATION

Total Active Alerts: 10

Total Orders: 16(+6)

Total States of Local Emergency: 7(+2)

Total Band Council Resolutions: 0

FIRST NATIONS

- Chawathil First Nation
 - EOC activated for flooding. 1 home is flooding and material is sliding off bluffs around the community
- Kwikwetlem First Nation
 - EOC activated for flooding.
 - Put on flood alert from BC Hydro Dams. **RESCINDED**
- Leq'á: mel First Nation
- Lower SStl'atl'imx (LSTC)
 - Approximately 60 households are without power in Samahquam and Skatin.
 - LSTC has spoken to FLNRO, BC Hydro, and Lizzie Bay/IRM to coordinate efforts to restore power and access. FLNRO and BC Hydro will have assessment crews out first thing 2021NOV16 to begin the repair/reconnection of power lines and routes
 - In-SHUCK-ch FSR - Road access to north to Pemberton has not been established for all communities.
- Musqueam First Nation:
 - EOC activated due to flooding.
- Matsqui First Nation
 - Band Council Resolution
 - Requested sandbags and sand due to localized flooding on IR 2 and IR 4.
- Peters First Nation
 - EOC activated due to flooding.
- Seabird Island
 - EOC activated for flooding.
 - Group lodging was set up for stranded motorists. Breakfast and lunch provided for 8 truck drivers.
 - Currently Seabird Island has endured flooding of several homes and is still in high water advisory. Crews are assessing damage.
 - TELUS fiber connection from Hope is not functional, temporarily lost communication
- Shxwha:y Village First Nation
 - EOC is activated in support of the flooding and landslide response in the region
- Shsw'ow'hamel First Nation
 - EOC activated for flooding.
- Skawahlook First Nation
 - EOC activated for flooding.
- Soowahlie First Nation:

- EOC activated for flooding.
 - Currently no power or water due to flooding activity.
- Spuzzum First Nation
 - EOC activated for flooding
 - Flooding is impacting drinking water in community
- Squamish First Nation:
 - EOC activated for flooding.
- Sts'ailes First Nation:
 - Currently 2 flooded houses and 1 mobile home with water underneath. Community is currently out of sandbags.
- Sumas First Nation
 - EOC activated for flooding

LOCAL AUTHORITIES

- City of Abbotsford
 - State of Local Emergency declared
 - 4 Evacuation Orders Issued
 - Straiton Road (22 Homes)
 - Sumas Prairie including the area bordered by Sumas Mountain, DeLair Road and Old Yale Road to the North, The USA Border to the South, Chilliwack City border to the East, The Ridge West of Railway Road to the West (1700 Homes)
 - The order was partially rescinded for the Huntingdon Area of Sumas Prairie including Huntingdon Village and area west of Sumas Way between the US Border to Lonzo Avenue and were placed back on Alert
 - Alert for Sumas Prairie including the area bordered by Sumas Mountain, Delair Road and Old Yale Road to the North; the US border to the south; Chilliwack City border to the east; and the Ridge West of Railway Road to the west (300-500 homes)
 - Total numbers of homes on orders are still to be determined.
 - 8 Evacuation Alerts Issued
 - Sumas Prairie: The Southern Rail Line to the West, Whatcom Road to the East, Highway 1 to the North, United States Border to the South (1700 Homes).
 - for Matsqui Village: Grace Road North to the Matsqui Slough (12 Homes).
 - Clayburn Area: Clayburn Village and surrounding area (30 Homes).
 - Eagle Mountain Areas: Cranberry Court, Briarwood Place, Doneagle Place (12 - 15 Homes).
 - Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road (30 Homes).
 - Sumas Prairie: Westside of Whatcom Road, East of Huntington Village, Southside of Vye Road; Westside of Sumas Way to West of Riverside Road, East of Sumas River Dike to Boundary Road (140 Homes).
- Bowen Island
 - EOC activated due to flooding
- City of Chilliwack
 - 1 Alert for Yarrow, from Boundary Road to Browne Road, and from the Vedder River to Majuba Hill Road.

- 4 Orders, Yarrow, from Boundary Road to Browne Road, and all Majuba Hill and 4 properties on Yale Road and 3 properties on Chartwell Drive. Added Nov 17, one property on Yale road and one on Old Orchard Road.
- Coquitlam
 - EOC activated to coordinate provision of support, equipment and staffing for other communities.
 - No uncontrolled flooding or other emergency conditions in Coquitlam
 - Specialized rescue services (Coquitlam Fire Rescue) and/or EOC/ESS trained staff available to support other communities if needed.
- Delta - EOC Activated in response to issues related to flooding and high winds
- Fraser Valley Regional District
 - State of Local Emergency Declared
 - 1 Alert for Chilliwack River Valley, FVRD Electoral Area "E" for 7 properties on O'Byrne Road.
 - 5 Orders:
 - FVRD EA "B" for 3 properties on Fish Camp Road and 5 properties on Othello Road.
 - FVRD EA "D" for 1 property on Bridal Falls Road (24 people).
 - FVRD EA "E" for 4 properties on Auchenway Road.
 - FVRD EA "E" for 13 properties on Chilliwack Lake Road and 8 properties on Wilson Road.
 - FVRD EA "H" for 17 properties on Lakeshore Drive.
- Village of Harrison Hot Springs – EOC activated due to flooding in the Miami Slough.
- District of Hope
 - Access from all Highways (1,3,5) cut off.
 - Significant power outages for much of the day (w/hospital on generator)
 - Currently no food in town due to no power. Stores/restaurants closed.
 - Meal flown in via helicopter 2021NOV16 and provided by Salvation Army.
 - Food and cot delivery continued today.
- District of Kent
 - 1 Orders for Rockwell Drive, Rockwell Lane, Rockwell Place, Pirates Lane, Thunderbird Crescent, and Dogwood Lane (6 homes).
 - All properties on Rockwell Drive corridor have been placed on Evacuation Order.
 - Approximately 275 people rescued from Highway 7 on Nov. 15
 - Crews are working to make access through the slide area
- City of Langley – EOC activated
 - Rainfall caused widespread flooding on public and private property, as well as parks and trails, and sewer lift stations.
 - Multiple roads impacted due to flooding.
- Maple Ridge- EOC activated
 - The Fraser River levels continue to drop, and the Sanitary Sewer Overflow (SSO) event will transition from an EOC event to an operational response.
- Metro Vancouver- EOC activated
- Mission - EOC activated
 - 1 order issued for 8 properties located on the 8400 block of Bembow Street in Hatzic (8 properties).
- New Westminster – EOC standing down.

- Pemberton – EOC activated.
 - The neighbourhoods of the Peaks, Pioneer Junction, the Trailer Park on Hwy 99, the Industrial Park and One Mile Lake area have all have experienced substantial flooding.
 - A sandbag station has been set up at Municipal Hall.
- Pitt Meadows
 - Determining flood spill conditions and possible scenarios from the Alouette Dam
 - Notification to some properties along the Alouette/Pitt Rivers.
- Port Coquitlam - EOC activated.
- Squamish Lillooet Regional District – EOC activated.
 - The continued closure of the Duffy Lake Road / Hwy 99 and other closures are constraining access around the regional district, and there are a number of stranded travellers in the S2S member municipalities who are unable to get home currently.
- Sunshine Coast Regional District – EOC activated.
 - Stormwater flooding and erosion has impacted public services (drinking water, fire flows, roads, transit, wastewater treatment, parks) in 35+ locations, regionally. Fortis reports exposed gas line at Stephens Road and Lower Road and are preparing for re-routing and/or shutoff.
- Surrey – EOC Activated.
- Vancouver
 - EOC activated for flooding

VANCOUVER ISLAND AND CENTRAL COAST REGION (VIC)

VIC PREOC activated today in response to flooding.

KEY VIR REGIONAL INFORMATION

Total Active Alerts: 1

Total Orders: 1

Total States of Local Emergency: 1

Total Band Council Resolutions: 0

FIRST NATIONS

- Halalt First Nation:
 - 150 evacuees, Flooding for 30 homes due to a watermain break and overland flooding. RDA for 2 homes requested, CVRD assisting.
- Snuneymuxw First Nation:
 - 25 evacuees (approximate), reviewing impacts to several septic tanks in the area.
- Penelakut First Nation:
 - 50 evacuees (approximate.)
- Cowichan Tribes:
 - 120 evacuees (approximate).
 - Evacuation order remains in place for Sahilton road, alerts remain in place for other areas impacted by the flood as river is still very high, with rain in the forecast.
- Pauquachin First Nation
 - Flooding event. Pumps likely needed.

LOCAL AUTHORITIES

- Cowichan Valley Regional District:
 - Major flooding event taking place in the Cowichan region due to heavy rainfall over the past 48 hours - Multiple road closures (incl. highway), restricting areas throughout the region, including within the boundaries of the Municipality of North Cowichan.
 - SOLE was issued at 1100 hrs on 2021-11-15 - 4 Evacuation Orders in effect - incl. CVRD, Cowichan Tribes, Halalt and Penelakut First Nations.
- Nanaimo Regional District:
 - States of Local Emergency in place.
 - 1 Evacuation Order remains, 2 orders rescinded: Nanaimo River and Cedar Grove/Riverside/Waters Road.
- Capital Regional District
 - EOC Activated. Highway 1 in both directions reduced to single, alternating route on Malahat. Some localized power outages throughout the CRD. Water service in Fulford Harbour area down for 21 households.
- District of Sooke
 - EOC Activated.
- District of Highlands
 - EOC Activated.
- City of Langford
 - EOC Activated.
 - 20+ properties on alert.
- Central Saanich
 - EOC activated
 - Localized flooding throughout the district. Supporting Public Works within the Brentwood Bay area, liaising with Saanich Peninsula Hospital with resources as needed and status update.

Key Internet Links:

Avalanche Canada Weather Forecast [Drying out at last \(avalanche.ca\)](https://www.avalanche.ca/)

Emergency Info BC

<https://www.emergencyinfobc.gov.bc.ca>

BC Hydro Outage Map ^{Copyright}

BC River Forecast Centre

<https://www2.gov.bc.ca/gov/content/environment/air-land-water/water/drought-flooding-dikes-dams/river-forecast-centre>

Drive BC

Copyright

Information about Disaster Financial Assistance is available on the DFA web site at

<http://www.gov.bc.ca/disasterfinancialassistance>

APPROVED BY:

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