

## **Liu, Susan GCPE:EX**

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**From:** Zadravec, Don GCPE:EX  
**Sent:** November 14, 2021 7:41 PM  
**To:** Kristianson, Eric PREM:EX  
**Subject:** Fwd: Initial Report - Flooding - Atmospheric River Event

See below

Don Zadravec  
Deputy Minister  
GCPE  
778-584-1252  
Sent from my iPhone

Begin forwarded message:

**From:** "Harris, Megan GCPE:EX" <Megan.Harris@gov.bc.ca>  
**Date:** November 14, 2021 at 7:15:25 PM PST  
**To:** "Smith, George PREM:EX" <George.Smith@gov.bc.ca>, "Hannah, Matt GCPE:EX" <Matt.Hannah@gov.bc.ca>, "Zadravec, Don GCPE:EX" <Don.Zadravec@gov.bc.ca>  
**Subject:** Fwd: Initial Report - Flooding - Atmospheric River Event

FYI - A few evacuated properties in the Fraser valley and lots of flood warnings. Big impacts to coq and highway 1 near hope due to mudslides.

Expecting it to get a lot worse overnight and then start receding tomorrow night.

Begin forwarded message:

**From:** "Turner, Jordan GCPE:EX" <Jordan.Turner@gov.bc.ca>  
**Date:** November 14, 2021 at 5:43:00 PM PST  
**To:** "Harris, Megan GCPE:EX" <Megan.Harris@gov.bc.ca>  
**Cc:** "Crebo, David GCPE:EX" <David.Crebo@gov.bc.ca>, "Haslam, David GCPE:EX" <David.Haslam@gov.bc.ca>, "Venn, Tania GCPE:EX" <Tania.Venn@gov.bc.ca>, "Brandt, Alissa GCPE:EX" <Alissa.Brandt@gov.bc.ca>  
**Subject:** Initial Report - Flooding - Atmospheric River Event

Hi all,

See initial flood report below, including the closure of both Hwy 1 and the Coq at Hope due to mudslides.

From what I've gathered from the River Forecast Centre reports, this should continue to worsen overnight before rainfall and river levels ease late Monday.

Thanks,

**Jordan Turner**  
Communications Director | EMBC  
Cell: (250) 896-1928

Begin forwarded message:

**From:** "EMBC PDM EMBC:EX" <EMBCPDM@gov.bc.ca>  
**Date:** November 14, 2021 at 4:58:33 PM PST  
**To:** "Owens, Jeff EMBC:EX" <Jeff.Owens@gov.bc.ca>, "Cunnings, Ian EMBC:EX" <Ian.Cunnings@gov.bc.ca>, "Adams, Janet EMBC:EX" <Janet.Adams@gov.bc.ca>, "Antwright, Matt EMBC:EX" <Matt.Antwright@gov.bc.ca>, "Bates, Stan EMBC:EX" <Stan.Bates@gov.bc.ca>, "Bennett, Ryland EMBC:EX" <Ryland.Bennett@gov.bc.ca>, "Birney, Tyler EMBC:EX" <Tyler.Birney@gov.bc.ca>, "Bosworth, Gemma EMBC:EX" <Gemma.Bosworth@gov.bc.ca>, "Brach, Pader W EMBC:EX" <Pader.Brach@gov.bc.ca>, "Brandson, Paul EMBC:EX" <Paul.Brandson@gov.bc.ca>, "Brownlee, Jay EMBC:EX" <Jay.Brownlee@gov.bc.ca>, "Caldwell, Martin EMBC:EX" <Martin.Caldwell@gov.bc.ca>, "Chandler, Alex EMBC:EX" <Alex.Chandler@gov.bc.ca>, "EMBC PECC Operations 1 EMBC:EX" <pecc.ops1@gov.bc.ca>, EMBC Social Media <EMBCCOMM@victoria1.gov.bc.ca>, Environment Canada Wx <'ec.msa-pacifique-wpm-pacific.ec@canada.ca'>, "Ewanyshyn, Ron EMBC:EX" <Ron.Ewanyshyn@gov.bc.ca>, "Fernandes, Ruth EMBC:EX" <Ruth.Fernandes@gov.bc.ca>, "Forge, Kathryn EMBC:EX" <Kathryn.Forge@gov.bc.ca>, "Giles, Andrew FLNR:EX" <Andrew.Giles@gov.bc.ca>, "Godlonton, Brian EMBC:EX" <Brian.Godlonton@gov.bc.ca>, "Harper, Aimee GCPE:EX" <Aimee.Harper@gov.bc.ca>, HEMBC Provincial Ops <amy.romanas@phsa.ca>, "Herie, Beth EMBC:EX" <Beth.Herie@gov.bc.ca>, "Hetschko, Ryan EMBC:EX" <Ryan.Hetschko@gov.bc.ca>, "CIEM Branch IRR:EX" <CIEMBranch@gov.bc.ca>, "Iwama, Julia EMBC:EX" <Julia.Iwama@gov.bc.ca>, "Lee, Mitchell EMBC:EX" <Mitchell.1.Lee@gov.bc.ca>, "Maley, Madeline L EMBC:EX" <Madeline.Maley@gov.bc.ca>, "Mathie, Colin EMBC:EX" <Colin.Mathie@gov.bc.ca>, "McCabe, Melissa EMBC:EX" <Melissa.McCabe@gov.bc.ca>, "McClintock, Carol EMBC:EX" <Carol.McClintock@gov.bc.ca>, "Morrison, Andrew EMBC:EX" <Andrew.Morrison@gov.bc.ca>, "O'Higgins-Wilson, Jane EMBC:EX" <Jane.OHigginsWilson@gov.bc.ca>, "Oliver, Chrissy EMBC:EX" <Chrissy.Oliver@gov.bc.ca>, "Peterson, Dave EMBC:EX" <Dave.Peterson@gov.bc.ca>, "HLTH MOC Duty Officer HLTH:EX" <hlth.dutyofficer@gov.bc.ca>, "Ralfs, Brendan R EMBC:EX" <Brendan.Ralfs@gov.bc.ca>, "Richards, Tara R EMBC:EX" <Tara.Richards@gov.bc.ca>, "Simpson, Farrah EMBC:EX" <Farrah.Simpson@gov.bc.ca>, "Singh, Gurdeep FLNR:EX" <Gurdeep.Singh@gov.bc.ca>, "Stanford, David FIN:EX" <David.Stanford@gov.bc.ca>, "Turner, Jordan GCPE:EX" <Jordan.Turner@gov.bc.ca>, "Walker, Melia EMBC:EX" <Melia.Walker@gov.bc.ca>, "Walshaw, Tim EMBC:EX" <Tim.Walshaw@gov.bc.ca>, "White, Robert EMBC:EX" <Robert.White@gov.bc.ca>, "Williams, Susan GCPE:EX" <Susan.Williams@gov.bc.ca>  
**Subject:** Initial Report - Flooding - Atmospheric River Event

## 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:**

<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>

**Paul Brandson** | Provincial Duty Manager

Emergency Management BC

Block A – Suite 200, 2261 Keating Cross Rd  
Saanichton, BC CANADA V8M 2A5

Ph: 250-952-4278 Cell: 250-818-0666

24 Hour Emergency: 1-800-663-3456

*Follow PreparedBC*



## Liu, Susan GCPE:EX

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**From:** Zadravec, Don GCPE:EX  
**Sent:** November 15, 2021 6:37 AM  
**To:** Kristianson, Eric PREM:EX  
**Subject:** Fwd: Update # 10 - Flooding - Atmospheric River Event - Multiple Regions

Don Zadravec  
Deputy Minister  
GCPE  
778-584-1252  
Sent from my iPhone

Begin forwarded message:

**From:** "Harris, Megan GCPE:EX" <Megan.Harris@gov.bc.ca>  
**Date:** November 15, 2021 at 6:25:31 AM PST  
**To:** "Hannah, Matt GCPE:EX" <Matt.Hannah@gov.bc.ca>, "Smith, George PREM:EX" <George.Smith@gov.bc.ca>, "Zadravec, Don GCPE:EX" <Don.Zadravec@gov.bc.ca>  
**Subject:** Fwd: Update # 10 - Flooding - Atmospheric River Event - Multiple Regions

Here is a rundown of all updates. Most significant:

Of note - up to 900 people evacuated from Merritt. Likely entire community will need to be evacuated due to water treatment impacts.

**Subject: Update # 10 - Flooding - Atmospheric River Event - Multiple Regions**

### **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.

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### **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.

#### **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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#### **Update # 7**

**15 November, 2021 – 3:03 hrs**

##### **Central Region**

- A SOLE was declared for the Town of Princeton.

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##### **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>

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### **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.

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### **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.

## **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) .



## Liu, Susan GCPE:EX

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**From:** Zadravec, Don GCPE:EX  
**Sent:** November 15, 2021 5:13 PM  
**To:** Wanamaker, Lori PREM:EX; Kristianson, Eric PREM:EX  
**Subject:** FW: s.22 - Mud Slide in Lillooet

See below

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**From:** Turner, Jordan GCPE:EX <[Jordan.Turner@gov.bc.ca](mailto:Jordan.Turner@gov.bc.ca)>  
**Sent:** November 15, 2021 5:09 PM  
**To:** Smith, George PREM:EX <[George.Smith@gov.bc.ca](mailto:George.Smith@gov.bc.ca)>; Harris, Megan GCPE:EX <[Megan.Harris@gov.bc.ca](mailto:Megan.Harris@gov.bc.ca)>; Zadravec, Don GCPE:EX <[Don.Zadravec@gov.bc.ca](mailto:Don.Zadravec@gov.bc.ca)>  
**Cc:** McAndrews, Caroline GCPE:EX <[Caroline.McAndrews@gov.bc.ca](mailto:Caroline.McAndrews@gov.bc.ca)>; Hannah, Matt GCPE:EX <[Matt.Hannah@gov.bc.ca](mailto:Matt.Hannah@gov.bc.ca)>; Brandt, Alissa GCPE:EX <[Alissa.Brandt@gov.bc.ca](mailto:Alissa.Brandt@gov.bc.ca)>; Crebo, David GCPE:EX <[David.Crebo@gov.bc.ca](mailto:David.Crebo@gov.bc.ca)>; Haslam, David GCPE:EX <[David.Haslam@gov.bc.ca](mailto:David.Haslam@gov.bc.ca)>  
**Subject:** FW: s.22 - Mud Slide in Lillooet

s.22

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**From:** Maartman, William PSSG:EX <[William.Maartman@gov.bc.ca](mailto:William.Maartman@gov.bc.ca)>  
**Sent:** November 15, 2021 5:07 PM  
**To:** Turner, Jordan GCPE:EX <[Jordan.Turner@gov.bc.ca](mailto:Jordan.Turner@gov.bc.ca)>; Brandt, Alissa GCPE:EX <[Alissa.Brandt@gov.bc.ca](mailto:Alissa.Brandt@gov.bc.ca)>; Douglas, Andrew PSSG:EX <[Andrew.Douglas@gov.bc.ca](mailto:Andrew.Douglas@gov.bc.ca)>; Godfrey, Samuel PSSG:EX <[Samuel.Godfrey@gov.bc.ca](mailto:Samuel.Godfrey@gov.bc.ca)>  
**Subject:** FW: s.22 - Mud Slide in Lillooet

s.22

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**From:** Rideout, Wayne PSSG:EX <[Wayne.Rideout@gov.bc.ca](mailto:Wayne.Rideout@gov.bc.ca)>  
**Sent:** November 15, 2021 5:06 PM  
**To:** Maartman, William PSSG:EX <[William.Maartman@gov.bc.ca](mailto:William.Maartman@gov.bc.ca)>  
**Cc:** McAndrews, Caroline GCPE:EX <[Caroline.McAndrews@gov.bc.ca](mailto:Caroline.McAndrews@gov.bc.ca)>  
**Subject:** Fwd s.22 - Mud Slide in Lillooet

Attention

Wayne Rideout

Assistant Deputy Minister and Director of Police Services  
Policing and Security Branch  
Ministry of Public Safety and Solicitor General

Telephone: [250-387-1100](tel:250-387-1100)  
Cellular: [250-508-1209](tel:250-508-1209)  
Email: [wayne.rideout@gov.bc.ca](mailto:wayne.rideout@gov.bc.ca)

Begin forwarded message:

**From:** "Stubbs, Eric" <[Eric.Stubbs@rcmp-grc.gc.ca](mailto:Eric.Stubbs@rcmp-grc.gc.ca)>  
**Date:** November 15, 2021 at 5:03:37 PM PST  
**To:** "Rideout, Wayne PSSG:EX" <[Wayne.Rideout@gov.bc.ca](mailto:Wayne.Rideout@gov.bc.ca)>, "Lewis, Glen PSSG:EX" <[Glen.Lewis@gov.bc.ca](mailto:Glen.Lewis@gov.bc.ca)>, "Sims, Brian A PSSG:EX" <[Brian.Sims@gov.bc.ca](mailto:Brian.Sims@gov.bc.ca)>, "Lymburner, Ward C PSSG:EX" <[Ward.Lymburner@gov.bc.ca](mailto:Ward.Lymburner@gov.bc.ca)>  
**Subject:** s.22 - Mud Slide in Lillooet

**[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.**

s.22

Eric

A/Commr. Eric Stubbs  
Criminal Operations Officer  
"E" Division Core Policing  
14200 Green Timbers Way  
Mailstop #306  
Surrey, BC V3T 6P3  
Tel: 778-290-4820  
Cell: 604-360-0930  
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[eric.stubbs@rcmp-grc.gc.ca](mailto:eric.stubbs@rcmp-grc.gc.ca)

Commissaire adjoint  
Officier responsable des enquetes criminelles Services de police de base- Division E  
arrêt postal no 306  
14200 Green Timbers Way  
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Téléphone: 778-290-4820  
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[eric.stubbs@rcmp-grc.gc.ca](mailto:eric.stubbs@rcmp-grc.gc.ca)

**From:** Jollymore, Ashlee FLNR:EX  
**Sent:** November 16, 2021 3:37 PM  
**To:** Jollymore, Ashlee FLNR:EX  
**Subject:** UPDATE - Flood Warning – Lower Nicola River, Coldwater River (MAINTAINED) | High Streamflow Advisory – Similkameen River, Tulameen River (DOWNGRADED) | UPDATED: 15:30 PM November 16, 2021  
  
**Importance:** High

**MAINTAINED – Flood Warning – Lower Nicola River, Coldwater River**  
**DOWNGRADED – High Streamflow Advisory – Similkameen River, Tulameen River**  
**UPDATED: 15:30 PM November 16, 2021**

The River Forecast Centre is **maintaining Flood Warnings** for:

- **Lower Nicola River**
- **Coldwater River**

The River Forecast Centre is **downgrading Flood Warnings to High Streamflow Advisories** for:

- **Similkameen River**
- **Tulameen River and tributaries**

A significant atmospheric river made landfall across southern coastal regions of British Columbia Saturday into Monday, bringing observed rainfall amounts across the Coquihalla, upper Coldwater and Tulameen River watersheds of up to 250 mm of rain at high elevations. The warmth of this system meant that precipitation fell as rain at most all elevations. Snowmelt at low to mid elevations added to the incredible amount of rain that fell, augmenting the unprecedented flows recorded through this event. A drop to near normal temperatures on Monday, Nov 15<sup>th</sup> resulted in a shift from rain to snow for the region; such snowfall will taper off into Tuesday evening (Nov 16<sup>th</sup>). This shift resulted in the recession of streams within the Tulameen and Similkameen watersheds. However, many of the Water Survey of Canada gauges within the Coldwater and Nicola watersheds have been impacted by historic flows and are not reporting data; modeling as well as limited available data indicate the potential that flows remain high within both watersheds.

- Coldwater River at Merritt (08LG010) is at 2.459 m gauge height (114 m<sup>3</sup>/s) and is receding. The downstream Coldwater River near Brookmere (08LG048) gage is not currently returning data.
- Tulameen River at Princeton (Water Survey of Canada gauge 08NL024) is flowing at 259 m<sup>3</sup>/s (2-5 year return period) and is receding.
- Similkameen River at Hedley (08NL038) is flowing at 480 m<sup>3</sup>/s (2-5 year return period) and is receding.

The short-term forecast indicates near seasonal temperatures and limited precipitation that will facilitate continued recession of streams in the region.

The public is advised to stay clear of the fast-flowing rivers and potentially unstable riverbanks during the high-streamflow period.

The River Forecast Centre continues to monitor the conditions and will provide updates as conditions warrant.

BC River Forecast Centre

Ministry of Forests, Lands, Natural Resource Operations and Rural Development

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A **High Streamflow Advisory** means that river levels are rising or expected to rise rapidly, but that no major flooding is expected. Minor flooding in low-lying areas is possible.

A **Flood Watch** means that river levels are rising and will approach or may exceed bankfull. Flooding of areas adjacent to affected rivers may occur.

A **Flood Warning** means that river levels have exceeded bankfull or will exceed bankfull imminently, and that flooding of areas adjacent to the rivers affected will result.