

**UPDATE: Flood Warning – Sumas; High Streamflow Advisory – Fraser Valley (DOWNGRADED), Fraser Canyon (DOWNGRADED), Chilliwack River; High Streamflow Advisory - Coquihalla (ENDED) UPDATE: 17:30 PM November 17, 2021**

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From: preoc2.lia1@gov.bc.ca  
Sent: November 17, 2021 5:53:11 PM PST  
Good evening,

Forwarding on behalf of **BC River Forecast Centre**.

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**MAINTAINED - Flood Warning – Sumas**  
**DOWNGRADED – High Streamflow Advisory – Fraser Valley, Fraser Canyon**  
**MAINTAINED – High Streamflow Advisory - Chilliwack River**  
**ENDED – High Streamflow Advisory - Coquihalla River**

**UPDATE: 17:30 PM November 17, 2021**

The River Forecast Centre is maintaining the following advisories:

- **Sumas River and areas around the US Border – Flood Warning (MAINTAINED)**
- **Chilliwack River – High Streamflow Advisory (MAINTAINED)**

The Following advisories are downgraded:

- **Fraser Valley – High Streamflow Advisory (DOWNGRADED)**
- **Fraser Canyon – High Streamflow Advisory (DOWNGRADED)**

The following advisories are ended:

- **Coquihalla River – High Streamflow Advisory (ENDED)**

Most streams throughout the region have continued to recede following the November 13-15 atmospheric river event; those systems with lake or reservoir-fed watersheds are experiencing a slower recession as water continues to move through these systems. Areas close to the Sumas River continue to experience high water conditions.

Favourable weather conditions in the short term indicate that rivers and streams will continue to recede and recover from this historic event.

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

Details of the COFFEE and CLEVER Model forecasts can be found at:

[http://bcrfc.env.gov.bc.ca/fallfloods/map\\_coffee.html](http://bcrfc.env.gov.bc.ca/fallfloods/map_coffee.html), and

[http://bcrfc.env.gov.bc.ca/freshet/map\\_clever.html](http://bcrfc.env.gov.bc.ca/freshet/map_clever.html)

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.

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Thank you,

**Lexi Shinde**  
**Liaison 1**

**Southwest Regional PREOC**

**Emergency Management British Columbia**

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## SWE Situation Report #4 and Map for 2021NOV17

From: preoc2.lia1@gov.bc.ca  
Sent: November 17, 2021 6:00:55 PM PST  
Attachments: SWE PREOC Situation Report #4 2021NOV17.pdf, Situation Map #4 2021NOV17.pdf

### South West Provincial Regional Operations Centre (SWE PREOC)

#### SITUATION REPORT #4

#### Event: Atmospheric River

Date/Time Issued: 2021-11-17; 1630hrs

Task #: 223862

Operational Period: 2021-11-17

Primary PREOC Email: [preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)

Primary PREOC Phone: 778-572-3962

Primary PREOC Fax: 604-586-4083

Overall Regional Situation: Static

Activated EMBC Staff: 13      Activated TEAMS: 4      Agency: 6      Other: 3

The next Situation Report will be issued: 2021-11-18 at 1630hrs

\*\* New information

#### KEY PROVINCIAL INFORMATION

0. The Southwest PREOC is activated to support communities affected by flooding and landslides caused by the Atmospheric River
1. On 2021NOV17 the BC government declared a provincial state of emergency to mitigate impacts on transportation networks and 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 British Columbia
2. Search & Rescue (SAR) - Task Force 1 has been deployed to assist with the rescue of stranded evacuees of the Sumas Prairie region of Abbotsford
3. PREOC ESS Branch is working on staffing and providing support to the Reception and Group Lodging Centres in the Southwest Region
4. Major flooding in the Vancouver Island, Southwest and Central areas of the province from 2021NOV14 onward have caused property and content damages. As a result of the damages sustained from this event, provincial Disaster Financial Assistance (DFA) has been authorized for qualifying claimants, such as home owners, residential tenants, small business owners, farmers, charitable organizations and local government bodies, who were unable to obtain insurance to cover these disaster-related losses. See attachment for more information
5. The Southwest PREOC is assisting the District of Hope in accessing critical supplies. Hope estimates they are supporting 1100 evacuees for meals and lodging

#### Environment Canada

- Rain/Wind and Snowfall Warnings
  0. All rain, wind, and snowfall warnings for the SWE areas have ended

#### River Forecast Centre

6. As of 7:45 am November 16th, the River Forecast Centre is maintaining the following advisories:
  0. Sumas River and areas around the US Border – Flood Warning (MAINTAINED)
    1. Fraser Valley including surrounding tributaries – Flood Watch (MAINTAINED)
    2. Fraser Canyon tributaries, including tributaries around Hope – Flood Watch (MAINTAINED)
    3. Coquihalla River – High Streamflow Advisory (DOWNGRADED)
    4. Chilliwack River – High Streamflow Advisory (DOWNGRADED)
7. The River Forecast Centre is ending a Flood Watches and High Streamflow Advisories for:
  0. Sea-to-Sky – ENDED
  1. Howe Sound – ENDED
  2. North Shore Mountains – ENDED
  3. Sunshine Coast – ENDED
  4. Metro Vancouver - ENDED

The atmospheric river that impacted southern British Columbia over the weekend and Monday has now moved out of the region. Throughout the region river levels have reached their peak levels and have receded overnight Monday and early on Tuesday. Flows and water levels remain high in lake and reservoir-fed watersheds along the Fraser Valley, including the Allouette River and Harrison River. Low-lying terrain around the Sumas River drainage are also expected to have persistent high-water. Generally dry conditions are expected over the next few days. River levels are expected to continue to recede on Tuesday and through the week

### Fraser River Debris Trap Update

#### ADVISORY

An increase in logs and large woody debris may be experienced on the Lower Fraser River, downstream of Agassiz through Saturday 2021NOV20

Recreational boaters, marine traffic and infrastructure operators should be aware that more logs than normal may be floating downstream due to decreased performance of the Fraser River Debris Trap. Based on new aerial images today, 2021NOV17, high debris volumes have misaligned the booms that direct debris into the Trap. Contractors are inspecting and attempting to realign the booms today, but repairs are expected to take longer

Normally, the Fraser River Debris Trap diverts up to 70% of the woody debris coming downstream near Agassiz before it flows into the lower reaches of the Fraser. Although there is always some volume of logs and floating debris in the River, an increase in the number of floating logs getting past the Debris Trap is anticipated

8. The next Coordination Call will be 2021NOV18 @ 1100hrs
9. **Total Active RCs: 5 (1 virtual)**
0. **Total Group Lodging Facilities: 2**
1. **Total Active Alerts: 10**
2. **Total Orders: 16**
3. **Total States of Local Emergency: 7**
4. **Total Band Council Resolutions: 0**
5. Note: 1 SOLEs, 1 Order applies to Sechelt 2019 Seawatch Sinkhole

### WEATHER FORECAST FOR – 2021NOV17

#### Abbotsford

Thursday AM	Cloudy with 40 percent chance of showers in the morning and early in the afternoon. Periods of rain beginning in the afternoon. High 6. UV index 1 or low
Thursday PM	Periods of rain. Low plus 2
Friday AM	Sunny. High 7
Friday PM	Cloudy with 60 percent chance of showers. Low plus 2

#### Pemberton

Thursday AM	Mainly cloudy. 30 percent chance of flurries in the morning and afternoon. Wind up to 15 km/h. High plus 1. Wind chill minus 6 in the morning. UV index 1 or low
Thursday PM	Cloudy periods. Low minus 5
Friday AM	Sunny. High plus 3
Friday PM	Cloudy with 30 percent chance of flurries. Low minus 3

### FIRST NATIONS

#### Chawathil First Nation:

- **Incident:** Flooding
- EOC activated for flooding. 1 home is flooding and material is sliding off of bluffs around the community

#### Kwikwetlem First Nation:

- **Incident:** Flood Alert
- Advised that they have rescinded their Flood Alert as levels have dropped down safely enough to rescind

- Put on flood alert 2021NOV15 from BC Hydro Dams
- EOC activated 2021NOV15

#### **Leq'á:mel First Nation:**

- **Incident:** Flooding
- Virtual EOC activated 2021NOV15 due to flooding and 1,000 sandbags requested

#### **Lower Stl'atl'imx (LSTC):**

0. **Incident:** Heavy rain caused multiple landslides closing roads and affecting power to Douglas, Samahquam, and Skatin
1. Approximately 60 households are without power in Samahquam and Skatin
2. 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
3. In-SHUCK-ch FSR - Road access to north to Pemberton has not been established for all communities

#### **Lytton First Nation/Camp Hope**

- **Incident:** Activated in support of evacuees located at Camp Hope. Additional accommodation may be available at Camp Hope

#### **Matsqui First Nation:**

- **Incident:** Localized flooding on IR 2 and IR 4
- Requested sandbags and sand due to localized flooding on IR 2 and IR 4

#### **Musqueam First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV17 due to flooding

#### **Peters First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV14 for flooding

#### **Seabird Island**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- Group lodging was set up for stranded motorists. Breakfast and lunch provided for 8 truck drivers
  - Transported the 8 truck drivers that stayed at Seabird to Agassiz to the Agricultural Hall EOC/ESS
- Kamp Road off of Seabird Island Road released flood waters into Maria Slough causing major impact
- Currently Seabird Island has endured flooding of several homes and is still in high water advisory. Crews are assessing damage
- Due to access egress concerns in regard to surrounding highways, it is unknown when fuel will be delivered to the Seabird Island Gas station. Currently there is 12,000 liters of fuel. Public Works/Operations are fueled up, however it has been forecasted that Seabird and surrounding areas will be out of fuel by Thursday
- The emergency generator for the community water system is working. Unable to have a secondary unit delivered due to access on local highways
- TELUS fiber connection from Hope is not functional, temporarily lost communication
- Working to mitigate and dry flooded basements within the community, water diversion and sand bagging and to ensure that the community has enough food and supplies in anticipation of food shortages

#### **Shxw'ha:y Village First Nation**

- **Incident:** Flooding
- EOC is activated today 2021NOV17 in support of the flooding and landslide response in the region

#### **Shsw'ow'hamel First Nation**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Skawahlook First Nation:**

- **Incident:** Flooding

- EOC activated 2021NOV15 for flooding

#### **Soowahlie First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- Currently no power or water due to flooding activity since 2021NOV14

#### **Spuzzum First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding
- Flooding is impacting drinking water in community

#### **Squamish First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Sts'ailes First Nation:**

4. **Incident:** Flooding
5. Currently 2 flooded houses and 1 mobile home with water underneath. Community is currently out of sandbags

#### **Sumas First Nation**

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding

### **LOCAL AUTHORITIES**

#### **Abbotsford:**

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding
- **Alerts: 8**
  - Issued 2021NOV15 for 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)
  - Issued 2021NOV14 for Matsqui Village: Grace Road North to the Matsqui Slough (12 Homes)
  - Issued 2021NOV14 for Clayburn Area: Clayburn Village and surrounding area (30 Homes)
  - Issued 2021NOV14 for Eagle Mountain Area: Cranberry Court, Briarwood Place, Doneagle Place (12 -15 Homes)
  - Issued 2021NOV14 for Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road (30 Homes)
  - Expanded 2021NOV15 for Sumas Prairie: Westside of Whatcom Road, East of Huntingdon Village, Southside of Vye Road; Westside of Sumas Way to West of Riverside Road, East of Sumas River Dike to Boundary Road (140 Homes)
  - Expanded 2021NOV15 for Straiton Areas: Dawson Road East of Sumas Mountain Road, Straiton Road between Old Clayburn Road and Summas Mountain Road (60 Homes)
- **Homes Alerted:** to be confirmed
- **Orders: 4**
  - Issued 2021NOV15 (2 Orders) for Straiton Road (7 Homes, 15 homes)
  - Issued 2021NOV15 for Sumas Prairie including the area bordered by: Sumas Mountain, and Yale Road to the North, the US border to the South, the Sumas River dike to the East and Sumas Way to the west (619 homes). On 2021NOV17 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
  - Issued 2021NOV16 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)
- **Homes Ordered:** to be confirmed
- **State of Local Emergency: 1** – issued 2021NOV15 and expires 2021NOV23 at midnight
- **Reception Centre(s): 1**, Tradex, 1190 Cornell Street (RC and GL - hours of operation: 24/7)
- **Individuals Registered with ESS:** 642 registered to date, 118 persons in group lodging
- Currently focused on evacuation orders and alerts expanded to include both the east and west sides from the of the dike at Sumas River

- The dike at the Sumas River is at spill levels and the City has a contractor reinforcing the dike at specific locations and have changed their strategy from riprap to block for better stability and less resources to construct
- Utilizing SAR resources, RCMP and Fire to deliver notices to impacted homes
- Mutual Aid is being requested from the local SAR teams
- Reception Centre is located at the Abbotsford Recreation Centre (ARC) 2499 McMillan Road for any residents displaced due to the flooding and/or landslide events currently occurring
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to [Local Government website](#) for list of closures

#### **Bowen Island:**

- **Incident:** Flooding
- EOC activated 2021NOV15 due to flooding

#### **Chilliwack:**

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding causing travellers to be stranded
- **Alerts: 1**
  - Issued 2021NOV16 Yarrow, from Boundary Road to Browne Road, and from the Vedder River to Majuba Hill Road
- **Orders: 4**
  - Issued 2021NOV17 at 1100hrs for property at 47000 block of Yale Road
  - Issued 2021NOV17 at 1100hrs for property at 43000 block of Old Orchard Road
  - Issued 2021NOV16 at 0930hrs for Yarrow, from Boundary Road to Browne Road, and all of Majuba Hill
  - Issued 2021NOV15 at 1230hrs for 4 properties on Yale Road and 3 properties on Chartwell Drive
- **State of Local Emergency:** 1, Expanded 2021NOV16 expires 2021NOV23 at midnight
- **Reception Centres:** 1, Chilliwack Landing Sports Centre, 45530 Spadina Avenue
- **Individuals Registered with ESS:** 750
- **Group Lodging Facilities:** 1, Evergreen Hall, 9291 Corbould Street (160 Registered)
- On 2021NOV16 the State of Local Emergency that was declared on 2021NOV15 for areas of the 47000 block of Yale Road and the 47000 block of Chartwell Drive was cancelled. On 2021NOV16 a State of Local Emergency was declared for the City of Chilliwack
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

#### **Coquitlam, City of:**

- **Incident:** Flooding
- EOC activated 2021NOV17 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:**

- **Incident:** Heavy rain caused localized flooding throughout areas of Delta
6. EOC Activated in response to issues related to flooding and high winds
  7. Working to mitigate localized flooding and support critical infrastructure (drainage stations)
  8. Working to restore communications (internal and external) to full capacity
  9. Continuing to monitor and support drainage stations

#### **Fraser Valley Regional District:**

- **Incident:** Heavy rainfall causing overland flooding and mudslides
- **Alerts: 1**
  - Issued on 2021NOV15 at 1530hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 7 properties on Obyrne Road
- **Properties Alerted: 7**
- **Orders: 5**
  - Issued 2021NOV15 at 1630 for Cultus Lake, FVRD Electoral Area "H" for 17 properties on Lakeshore Drive

- Issued 2021NOV15 at 1230hrs for Chilliwack River Valley Electoral Area "E" for 13 properties on Chilliwack Lake Road and 8 properties on Wilson Road
- Issued 2021NOV15 at 0915hrs for Othello Road, FVRD Electoral Area "B" for 3 properties on Fish Camp Road and 5 properties on Othello Road
- Issued 2021NOV14 at 1130hrs for Bridal Falls Area, FVRD Electoral Area "D" for 1 property on Bridal Falls Road (24 people)
- Issued 2021NOV15 at 0030hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 4 properties on Auchenway Road
- **Properties Evacuated:** 51
- **State of Local Emergency: 1** - declared 2021NOV14 at 2230 for all Electoral Areas of the FVRD to remain in force until 2021NOV21 at midnight
- Leisure Valley at Columbia Valley Road, Area H is affected. The local Fire Department is doing a tactical evacuation as needed and overseeing site works to stabilize the scene. The Bell Grove Creek has washed out the shoulder of Columbia Valley Road
- Preliminary Geotechnical Assessment received for Bridal Falls Road shows that the unsafe area extends beyond our current evacuation order area. The Evacuation order will be expanded to include the unsafe lands. All residents willing to evacuate have been evacuated already
- Chilliwack River Valley beyond Edwards Road flooded. MoTI Contractor working on the washout.
- Security in place for Chilliwack River Valley Road, Wilson Road evacuation order
- Taylor Rd: Attended today by Hydrotechnical Engineers to assess the situation. assessment is that there is a section of road/dike that requires immediate attention to be rebuilt. There is no threat of flooding/breaching, however, the structure could fail further which would be a danger to anyone travelling the road/dike. Discussions with Leqamel have indicated that they wish for the FVRD's EOC to coordinate this
- Elbow Creek: Hydrotechnical Engineers assess the situation. Their assessment reported that the seepage experienced 2021NOV15 was due to the high water levels but that the dike was not showing any signs of failure and that no further work is required
- 1,000 sandbags have been sent to Chilliwack River Valley. 4,000 sandbags remaining on Gibson Road, Chilliwack
- Damage assessment required at Hope Recreation Centre

#### Village of Harrison Hot Springs:

- **Incident:** Flooding along the Miami Slough
- **State of Local Emergency: 1** – declared 2021NOV15 for the Village of Harrison Hotsprings and expires 2021NOV22 at midnight
- EOC activated on 2021NOV15 due to localized flooding along the Miami Slough
- Maintaining pumps at maximum capacity
- Delivering sand and sandbag for public use
- Informing public to minimize toilet and other sewage use (laundry, washing machines, etc)
- Continuing to monitor water levels and deploy additional pumps if required
- Flooding on Highway 9 Harrison Hot Springs Road & McPherson Road. Limited ability to traverse due to water on road

#### District of Hope:

- **Incident:** Multiple people stranded by highway closures
- **Reception Centre(s):** 1, Hope Secondary School, 444 Stuart St, Hope (hours of operation: 24/7 – warming centre)
- **Individuals Registered with ESS:** unknown
- Multiple Churches have opened to provide support as needed
- Currently no food in town due to no power. Stores/restaurants closed
- Meals flown in via helicopter 2021NOV16 and provided by Salvation Army – Food and cot delivery continued today, 2021NOV17
- The EOC was relocated to the Hospital

#### District of Kent:

- **Incident:** Landslide threatening people and property along Rockwell Drive
- **Orders:** 1, Issued on 2021NOV15 for Rockwell Drive, Rockwell Lane, Rockwell Place, Pirates Lane, Thunderbird Crescent, and Dogwood Lane
- **State of Local Emergency: 1** – declared 2021NOV14 for Rockwell Drive and expires 2021NOV21 at midnight
- **Homes Evacuated:** 6
- **Reception Centre(s):** 2, (Harrison Hot Springs Resort Hotel; Agassiz Agricultural Hall, 6800 Pioneer Avenue (for evacuees from the Hwy #7 slides))

- **Individuals Registered with ESS: #**

- Multiple landslides on Rockwell Drive (6500, 6900 and 7000 blocks). The road is blocked at the intersection of Lillooet Road
- All properties on Rockwell Drive corridor have been placed on Evacuation Order. The reception centre has been moved from the Morrow Road location and evacuees are being directed to go to the Harrison Hot Springs Resort Hotel. Delivery of Evacuation Orders has been challenging due to life safety issues and is still underway (2021NOV16)
- Water is receding in the Kamp Road area
- Flood pumps at Hammersley Pump Station are again running. Additional pumping capacity is required in Harrison Mills

- **Incident:** Hwy 7 landslide

- Approximately 275 people rescued from Highway 7 2021NOV15
- Crews are working to make access through the slide area

- **Road Closures:**

- Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

#### Langley, Township of:

- **Incident:** Mudslide threatening people and property
- **Homes Evacuated: 1**
- **Individuals Registered with ESS: 2**
- Rainfall caused wide spread flooding on public and private property, as well as parks and trails, and sewer lift stations
- Multiple roads impacted due to flooding
- Engaging geotechnical and structural consultants to assist with slope failures locations when safe to do so

#### Maple Ridge:

- **Incident:** Localized flooding
0. EOC activated in response to localized flooding due to the Alouette River
  1. Monitored South Alouette, North Alouette and Fraser River flows
  2. The Fraser River levels continue to drop and the Sanitary Sewer Overflow (SSO) event will transition from an EOC event to an operational response
  3. The EOC will transition to a virtual format
  4. Continuing visual inspections along South and North Alouette River

#### Metro Vancouver Regional District:

- **Incident:** Localized flooding
  - EOC activated 2021NOV15 due to localized flooding
  - Liquid Waste Services is reporting 8 sewer overflows, and all Wastewater Treatment Plants have had power restored and are operating normally, and within the regulated requirements. Cariboo Dam has been able to manage flows through the Still Creek drainage system throughout the event with minor flooding
  - Water Services is monitoring its Dams and is managing turbidity concerns
  - Regional Parks currently have 6 parks closed due to flooding conditions, and power has been restored to all locations interrupted 2021NOV15
  - Solid Waste Services is reporting all Recycling & Waste Facilities are reopened to full operations. Coquitlam Landfill had an overflow of surface water, which has since been contained and repairs are ongoing to the berm that was damaged
  - Gaining situational awareness of impacted infrastructure. Assessing damages and planning for repair or mitigation strategies as required
- **Road Closures:**
  - 56th Ave @ 176th Street, Surrey – Partial lane closure
  - Blundell & Gilbert, Richmond - Alternating traffic (local traffic only)

#### Mission:

- **Incident:** Localized flooding and mutual aid
- **Orders:** 1, Issued 2021NOV16 for 8 properties located on the 8400 block of Bembow Street in Hatzic (8 properties)
- **Homes Evacuated:** 8 properties
- **State of Local Emergency:** 1, Issued 2021NOV16 to expire on 2021NOV23 at midnight

- **Reception Centre(s):** 1, Virtual
- **Individuals Registered with ESS:** 12
- EOC activated due to localized flooding and to provide mutual aid to Abbotsford
- Mission Virtual RC currently registering evacuees from Kent into the Harrison Hot Springs Hotel using ERA (10 families registered to date, 2021NOV17)
- On 2021NOV16 a State of Local Emergency and an Evacuation Order were issued for properties on Bembow Street in Hatzic
- Virtual Reception Center activated in the EOC to support evacuees from Mission (30 persons) - evacuees will self register for ESS services and all vouchers and supports will be processed online through ERA - Evacuees told to Self-register then call EOC information line for ESS supports (2 persons registered to date)
- ESS requested to support District of Kent with evacuees airlifted from between the mudslides on Highway 7 (50 cots sent to Kent from Mission supply) - Virtual RC will be processing vouchers for Kent evacuees through Mission's virtual RC
- Some road closures continue
- Completing daily assessments of Benbow Street (Mission)
- Continuing to partner with Public Works and City media staff to provide accurate Alertable notifications for road closures
- Two residences on King Avenue are isolated due to complete road wash out

#### **New Westminster:**

- **Incident:** Localized flooding
- EOC standing down 2021NOV17

#### **Pemberton:**

- **Incident:** Flooding
- EOC activated 2021NOV15 due to flood activity
- Heavy rainfall caused significant flows in Pemberton Creek and the Arn Canal causing localized flooding in low-lying areas
- 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
- Pumping at the Peaks and Pioneer Junction is ongoing
- One Mile Lake Park, the Boardwalk and trails have been closed due to high water
- Pemberton Fire Rescue was dispatched to assist with pumping in residential areas
- PVDD to continue to monitor rivers, provide ongoing updates, expertise and operational recommendations
- Continuing to liaise with Lil'wat, SLRD and PVDD and relevant agencies to coordinate response
- A significant number of travellers impacted by the Hwy 99/Duffy Lake Road mudslide have been turned around at the slide and have been residing in the Pemberton area.
- Emergency Support Services have been provided to 6 individuals including services provided to those that were referred by the RCMP
- As localized flooding is taking some time to drain, damage and impacts to trails and infrastructure is still unknown

#### **Pitt Meadows, City of**

- **Incident:** Heavy rainfall has resulted in multiple roads flooding
- Localized flooding throughout Pitt Meadows. Some areas inundated with water, some roads have been closed and/or have signage placed to be cautious of flooding
- Hammond Road/Airport Way both have localized flooding. Traffic control on scene.
- Dike inspections started
- Inundation mapping from Alouette Dam are being reviewed as they have a freecrest spill peaking around 2400 hr 2021NOV15 at 160 cms. The Pitt River is at high tide for a couple of days
- Alouette River alert notice sent to City Agricultural Advisory Committee
- Determining flood spill conditions and possible scenarios from the Alouette Dam
- Notification to some properties along the Alouette/Pitt Rivers
- Notice to be delivered to property on 224th Ave in regard to potential hazards/flooding due to the freecrest spill from the Alouette Dam

#### **Port Coquitlam:**

- **Incident:** Localized flooding



- EOC activated 2021NOV15 due to localized flooding
- Localized flooding has subsided. Drainage infrastructure was at a maximum capacity and now is continuing to lower
- Liverpool sanitation backups cleared back to normal flow
- Sand and bags are available to residents at Public Works Yard

#### **Squamish Lillooet Regional District:**

- **Incident:** Flood threat to properties
- **Alerts:** 0
- EOC activated 2021NOV15 due to flood threat to properties and water levels continue to rise
- The evacuation alert issued on 2021NOV15 for Tunnel Station/Upper Paradise Valley – Electoral Area D was rescinded 2021NOV16
- On 2021NOV15 Pemberton Fire Rescue Service advised the SLRD EOC that a mudslide occurred in the vicinity of 1773 Reid Road, inundating the road approx. 1m deep due to a steep creek debris flow
  - MoTI and contractor attended the road washout 2021NOV16, cleared debris, and report that there is now approximately an 8 foot trench in the road. The culvert will likely need to be removed and replaced due to age and damage
  - MFLNRORD conducted an aerial survey of the S2S area 2021NOV16
- 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 at this time
- EOC Information Officers continue to receive a volume of media and public enquiries, and to publish regular updates

#### **Squamish District**

- **Incident:** Localized flooding due to heavy rainfall. Waste Treatment Plant overflowing
- EOC activated 2021NOV15 due to localized flooding concerns
- Wastewater Treatment Plant is overflowing within the District of Squamish

#### **Sunshine Coast Regional District**

- **Incident:** Localized flooding due to heavy rainfall
- EOC activated 2021NOV15 due to localized flooding on Day Road in Roberts Creek
- 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.
- Working to protect water supply/infrastructure for public health and fire flow (Chapman Creek main, water mains, McNeill Lake dam, Grantham's pump station)
- Working to protect public health / manage impacts of WWTP failure (notifications)
- Addressing current areas of no road access (washout occurred)
- Addressing potential areas of no road access (impending washout)
- Promoting public safety (park closures, awareness of issues/avoid unnecessary travel)
- Boil water advisories issued (2021NOV15 at 1330)

#### **Surrey:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

#### **Vancouver, City of**

- **Incident:** Flooding
- EOC activated 2021NOV17 for flood support

#### **Whistler:**

- **Incident:** ESS host community
5. Providing support to two evacuees who are unable to return home due to the mudslides

#### **AGENCIES**

##### **Ministry of Transportation and Infrastructure (MoTI):**

- MoTI South Coast Region has activated their Ministry Operations Centre and District Operations Centre

##### **Vancouver Fraser Port Authority (VFPA):**

- Communications issues are resolved

- All rail service coming to and from the Port of Vancouver is halted; impacts to supply chain anticipated but unknown at this time; waiting on damage assessment to rail lines and timeframe for re-opening to have a clearer picture on impacts
- Vessel delays and heightened anchorage demand are expected due to disruptions to terminal operations. VFPA are working closely with their terminal operators, railways, and all levels of government to understand the impacts of these delays on terminal operations and to develop a recovery plan
- Freshet-like conditions seen on the Fraser River: request to ship masters to exercise additional caution; potential for overhead clearances being less than advertised on CHS Charts and increased wood debris/heightened shoreline damage from a vessel's wake; additional tug support may be requested to ensure safe passage to and from berth to avoid accumulated debris
- Real-time insights into Port of Vancouver operations can be accessed through the PortVan eHub app, which can be downloaded at <https://www.portvancouver.com/port-dashboard/ehub-app/> or through the App Store. Daily updates on import rail performance and weekly updates on truck terminal turn time performance are available through the port authority's website <https://www.portvancouver.com/port-dashboard/>

HEALTH INFORMATION

No impacts reported

LIVE STOCK IMPACTED

No impacts reported

TRANSPORTATION IMPACTED

Drive BC

Highway 1 Both Directions - Highway 1, in both directions. Mudslide between Annis Rd and K St for 38.4 km (Hope to 2 km east of Chilliwack). Road closed. Estimated time of opening not available. Assessment in progress

Highway 1, in both directions. Flooding between Flood Hope Rd and Junction Hwy 8 for 144.3 km (Hope to Spences Bridge). Rockslide. Road closed. Assessment in progress. Estimated time of opening not available

Highway 1, in both directions. Flooding between Exit 90: McCallum Rd and Exit 109: Yale Rd for 20.1 km (Abbotsford to Chilliwack). The road is closed. Estimated time of opening not available. Assessment in progress

Highway 1, in both directions. Flooding between Exit 90: McCallum Rd and Exit 109: Yale Rd for 20.1 km (Abbotsford to Chilliwack). The road is closed. Estimated time of opening not available. Assessment in progress.

Highway 3 Both Directions. Mudslide at Sunshine Valley (17 km east of Hope). Road Closed. Assessment in progress. Estimated time of opening not available

Highway 5, in both directions. Mudslide at Exit 202 (11 km south of Great Bear Snowshed). Road closed. Assessment in progress. Estimated time of opening not available. Detour not available. Road closed between Hope and Merritt

Highway 7, in both directions. Mudslide between Johnson Slough Rest Area and Ross Rd for 12.6 km (Kent to 1 km east of Hope). Road closed. Assessment in progress. Detour not available

Highway 7 Both Directions - Highway 7, in both directions. Mudslide between Highlands Blvd and Bodnar Rd (Kent). Flooding. Single lane alternating traffic. Watch for traffic control

Highway 11, in both directions. Flooding between Hazelwood Ave and Townshipline Rd for 2.9 km (Abbotsford). Road closed. Detour not available

Highway 99, in both directions. Mudslide between Lil'wat Pl and Seton Lake Rd for 81.9 km (9 km north of Pemberton to Lillooet). Road closed. Estimated time of opening not available. Assessment in progress

King George Blvd., northbound. Bridge closed at Nicomekl Bridge. Assessment in progress. Please use alternate route

UTILITIES IMPACTED

BC Hydro

- 2021NOV17 update - There are currently 1283 customers without power within the Lower Mainland and Sunshine Coast remain without power due to flooding, mud/snow slides and trees down on wires
- [BC Hydro bill help for BC Residents who are evacuated](#)
- **For more information:** <https://www.bchydro.com/power-outages/app/outage-list.html>

#### • BC Hydro Alerts

- Cheakamus Dam Spill Notice of Cancellation – 2021NOV17 at 0930hrs - Present conditions are favourable and flows are expected to decrease
- Stave Falls and Ruskin Dams Spill Notification – 2021NOV16, at approximately 1315hrs decrease will commence at the Ruskin Dam & Stave Falls Dam as inflows are decreasing. Ruskin Dam Spill will decrease from 1400 cubic meters per second (cms) to a flow of 500 cms. Stave Falls Spill will decrease from 1350 cubic meters per second (cms) to a flow of 500 cms.
- Wahleach Dam (Jones Lake) Spill Notification – Notification of planned spill release. Lower Jones Creek water levels will rise and may approach bankfull conditions, but no major flooding is expected. The current reservoir elevation is 642.31m. The current release is ~50 cms (cubic meters per second). Forecast spill is reducing, reservoir lowering. The reason for spill inflows event and plant outage
- 2021NOV16 The previously declared flood alert, # ALU\_01\_2021, downstream of Alouette Dam has been rescinded
- 2021NOV16 the previously declared flood alert # WAH\_01\_2021 downstream of Wahleach Dam has been rescinded
- 2021NOV16 the previously declared flood alert # CMS\_01\_2021 downstream of Cheakamus Dam has been rescinded

#### Enbridge Inc.

- Due to heavy rainfall and increasing river flows, Enbridge has shut down a segment of 30-inch natural gas pipeline in the Coquihalla river valley on the morning of 2021NOV16 as a precautionary measure. The 36-inch natural gas pipeline remains in operation.
- Continuing to monitor the situation and will take further action should they become necessary.

#### USEFUL LINKS/RESOURCES

[EMBC Current Flooding Information](#)

[River Forecast Centre](#)

[Drive BC](#)

[Environment Canada](#)

[Avalanche Canada Weather Forecast](#)

[BC Hydro](#)

[Disaster Financial Assistance Website](#)

#### APPROVED BY:

*Original signed by*

Debbie Alexander

**PREOC Deputy Director**

**Note:** Information contained in this situation report is for operational purposes only. The contained information is not meant for public information. If you wish you use contained information for a media release, you must clear it with the PREOC Director.

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Thank you,

**Lexi Shinde**

## **Liaison 1**

### **Southwest Regional PREOC**

#### **Emergency Management British Columbia**

14292 Green Timbers Way  
Surrey, B.C. CANADA V3T 0J4

#### ***Primary SWE PREOC contact***

*Phone 778-572-3961*

*Email [preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)*

*PREOC Fax 604.586.4083*

*24 Hour Emergency Reporting 1.800.663.3456*

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## South West Provincial Regional Operations Centre (SWE PREOC)

### SITUATION REPORT #4

#### Event: Atmospheric River

Date/Time Issued: 2021-11-17; 1630hrs

Task #: 223862

Operational Period: 2021-11-17

Primary PREOC Email: [preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)

Primary PREOC Phone: 778-572-3962

Primary PREOC Fax: 604-586-4083

Overall Regional Situation: Static

Activated EMBC Staff: 13      Activated TEAMS: 4      Agency: 6      Other: 3

The next Situation Report will be issued: 2021-11-18 at 1630hrs

\*\* New information

### KEY PROVINCIAL INFORMATION

- The Southwest PREOC is activated to support communities affected by flooding and landslides caused by the Atmospheric River
- On 2021NOV17 the BC government declared a provincial state of emergency to mitigate impacts on transportation networks and 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 British Columbia
- Search & Rescue (SAR) - Task Force 1 has been deployed to assist with the rescue of stranded evacuees of the Sumas Prairie region of Abbotsford
- PREOC ESS Branch is working on staffing and providing support to the Reception and Group Lodging Centres in the Southwest Region
- Major flooding in the Vancouver Island, Southwest and Central areas of the province from 2021NOV14 onward have caused property and content damages. As a result of the damages sustained from this event, provincial Disaster Financial Assistance (DFA) has been authorized for qualifying claimants, such as home owners, residential tenants, small business owners, farmers, charitable organizations and local government bodies, who were unable to obtain insurance to cover these disaster-related losses. See attachment for more information
- The Southwest PREOC is assisting the District of Hope in accessing critical supplies. Hope estimates they are supporting 1100 evacuees for meals and lodging

#### Environment Canada

- Rain/Wind and Snowfall Warnings
  - All rain, wind, and snowfall warnings for the SWE areas have ended

#### River Forecast Centre

- As of 7:45 am November 16th, the River Forecast Centre is maintaining the following advisories:
  - Sumas River and areas around the US Border – Flood Warning (MAINTAINED)
  - Fraser Valley including surrounding tributaries – Flood Watch (MAINTAINED)
  - Fraser Canyon tributaries, including tributaries around Hope – Flood Watch (MAINTAINED)
  - Coquihalla River – High Streamflow Advisory (DOWNGRADED)
  - Chilliwack River – High Streamflow Advisory (DOWNGRADED)
- The River Forecast Centre is ending a Flood Watches and High Streamflow Advisories for:
  - Sea-to-Sky – ENDED
  - Howe Sound – ENDED
  - North Shore Mountains – ENDED
  - Sunshine Coast – ENDED

- Metro Vancouver - ENDED

The atmospheric river that impacted southern British Columbia over the weekend and Monday has now moved out of the region. Throughout the region river levels have reached their peak levels and have receded overnight Monday and early on Tuesday. Flows and water levels remain high in lake and reservoir-fed watersheds along the Fraser Valley, including the Allouette River and Harrison River. Low-lying terrain around the Sumas River drainage are also expected to have persistent high-water. Generally dry conditions are expected over the next few days. River levels are expected to continue to recede on Tuesday and through the week

### Fraser River Debris Trap Update

#### ADVISORY

An increase in logs and large woody debris may be experienced on the Lower Fraser River, downstream of Agassiz through Saturday 2021NOV20

Recreational boaters, marine traffic and infrastructure operators should be aware that more logs than normal may be floating downstream due to decreased performance of the Fraser River Debris Trap. Based on new aerial images today, 2021NOV17, high debris volumes have misaligned the booms that direct debris into the Trap. Contractors are inspecting and attempting to realign the booms today, but repairs are expected to take longer

Normally, the Fraser River Debris Trap diverts up to 70% of the woody debris coming downstream near Agassiz before it flows into the lower reaches of the Fraser. Although there is always some volume of logs and floating debris in the River, an increase in the number of floating logs getting past the Debris Trap is anticipated

- The next Coordination Call will be 2021NOV18 @ 1100hrs
- **Total Active RCs: 5 (1 virtual)**
- **Total Group Lodging Facilities: 2**
- **Total Active Alerts: 10**
- **Total Orders: 16**
- **Total States of Local Emergency: 7**
- **Total Band Council Resolutions: 0**
- Note: 1 SOLEs, 1 Order applies to Sechelt 2019 Seawatch Sinkhole

### WEATHER FORECAST FOR – 2021NOV17

#### Abbotsford

Thursday AM	Cloudy with 40 percent chance of showers in the morning and early in the afternoon. Periods of rain beginning in the afternoon. High 6. UV index 1 or low
Thursday PM	Periods of rain. Low plus 2
Friday AM	Sunny. High 7
Friday PM	Cloudy with 60 percent chance of showers. Low plus 2

#### Pemberton

Thursday AM	Mainly cloudy. 30 percent chance of flurries in the morning and afternoon. Wind up to 15 km/h. High plus 1. Wind chill minus 6 in the morning. UV index 1 or low
Thursday PM	Cloudy periods. Low minus 5
Friday AM	Sunny. High plus 3
Friday PM	Cloudy with 30 percent chance of flurries. Low minus 3

## FIRST NATIONS

### Chawathil First Nation:

- **Incident:** Flooding
- EOC activated for flooding. 1 home is flooding and material is sliding off of bluffs around the community

### Kwikwetlem First Nation:

- **Incident:** Flood Alert
- Advised that they have rescinded their Flood Alert as levels have dropped down safely enough to rescind
- Put on flood alert 2021NOV15 from BC Hydro Dams
- EOC activated 2021NOV15

### Leq'á:mel First Nation:

- **Incident:** Flooding
- Virtual EOC activated 2021NOV15 due to flooding and 1,000 sandbags requested

### Lower Stl'atl'imx (LSTC):

- **Incident:** Heavy rain caused multiple landslides closing roads and affecting power to Douglas, Samahquam, and Skatin
- 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

### Lytton First Nation/Camp Hope

- **Incident:** Activated in support of evacuees located at Camp Hope. Additional accommodation may be available at Camp Hope

### Matsqui First Nation:

- **Incident:** Localized flooding on IR 2 and IR 4
- Requested sandbags and sand due to localized flooding on IR 2 and IR 4

### Musqueam First Nation:

- **Incident:** Flooding
- EOC activated 2021NOV17 due to flooding

### Peters First Nation:

- **Incident:** Flooding
- EOC activated 2021NOV14 for flooding

### Seabird Island

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- Group lodging was set up for stranded motorists. Breakfast and lunch provided for 8 truck drivers
  - Transported the 8 truck drivers that stayed at Seabird to Agassiz to the Agricultural Hall EOC/ESS
- Kamp Road off of Seabird Island Road released flood waters into Maria Slough causing major impact
- Currently Seabird Island has endured flooding of several homes and is still in high water advisory. Crews are assessing damage

- Due to access egress concerns in regard to surrounding highways, it is unknown when fuel will be delivered to the Seabird Island Gas station. Currently there is 12,000 liters of fuel. Public Works/Operations are fueled up, however it has been forecasted that Seabird and surrounding areas will be out of fuel by Thursday
- The emergency generator for the community water system is working. Unable to have a secondary unit delivered due to access on local highways
- TELUS fiber connection from Hope is not functional, temporarily lost communication
- Working to mitigate and dry flooded basements within the community, water diversion and sand bagging and to ensure that the community has enough food and supplies in anticipation of food shortages

#### **Shxw̓ha:y Village First Nation**

- **Incident:** Flooding
- EOC is activated today 2021NOV17 in support of the flooding and landslide response in the region

#### **Shsw'ow'hamel First Nation**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Skawahlook First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Soowahlie First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- Currently no power or water due to flooding activity since 2021NOV14

#### **Spuzzum First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding
- Flooding is impacting drinking water in community

#### **Squamish First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Sts'ailes First Nation:**

- **Incident:** Flooding
- Currently 2 flooded houses and 1 mobile home with water underneath. Community is currently out of sandbags

#### **Sumas First Nation**

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding

### **LOCAL AUTHORITIES**

#### **Abbotsford:**

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding
- **Alerts: 8**
  - Issued 2021NOV15 for 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)
  - Issued 2021NOV14 for Matsqui Village: Grace Road North to the Matsqui Slough (12 Homes)



- Issued 2021NOV14 for Clayburn Area: Clayburn Village and surrounding area (30 Homes)
- Issued 2021NOV14 for Eagle Mountain Area: Cranberry Court, Briarwood Place, Doneagle Place (12 -15 Homes)
- Issued 2021NOV14 for Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road (30 Homes)
- Expanded 2021NOV15 for Sumas Prairie: Westside of Whatcom Road, East of Huntingdon Village, Southside of Vye Road; Westside of Sumas Way to West of Riverside Road, East of Sumas River Dike to Boundary Road (140 Homes)
- Expanded 2021NOV15 for Straiton Areas: Dawson Road East of Sumas Mountain Road, Straiton Road between Old Clayburn Road and Sumas Mountain Road (60 Homes)
- **Homes Alerted:** to be confirmed
- **Orders: 4**
  - Issued 2021NOV15 (2 Orders) for Straiton Road (7 Homes, 15 homes)
  - Issued 2021NOV15 for Sumas Prairie including the area bordered by: Sumas Mountain, and Yale Road to the North, the US border to the South, the Sumas River dike to the East and Sumas Way to the west (619 homes). On 2021NOV17 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
  - Issued 2021NOV16 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)
- **Homes Ordered:** to be confirmed
- **State of Local Emergency: 1** – issued 2021NOV15 and expires 2021NOV23 at midnight
- **Reception Centre(s): 1**, Tradex, 1190 Cornell Street (RC and GL - hours of operation: 24/7)
- **Individuals Registered with ESS:** 642 registered to date, 118 persons in group lodging
- Currently focused on evacuation orders and alerts expanded to include both the east and west sides from the of the dike at Sumas River
- The dike at the Sumas River is at spill levels and the City has a contractor reinforcing the dike at specific locations and have changed their strategy from riprap to block for better stability and less resources to construct
- Utilizing SAR resources, RCMP and Fire to deliver notices to impacted homes
- Mutual Aid is being requested from the local SAR teams
- Reception Centre is located at the Abbotsford Recreation Centre (ARC) 2499 McMillan Road for any residents displaced due to the flooding and/or landslide events currently occurring
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to [Local Government website](#) for list of closures

#### **Bowen Island:**

- **Incident:** Flooding
- EOC activated 2021NOV15 due to flooding

#### **Chilliwack:**

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding causing travellers to be stranded
- **Alerts: 1**
  - Issued 2021NOV16 Yarrow, from Boundary Road to Browne Road, and from the Vedder River to Majuba Hill Road
- **Orders: 4**
  - Issued 2021NOV17 at 1100hrs for property at 47000 block of Yale Road
  - Issued 2021NOV17 at 1100hrs for property at 43000 block of Old Orchard Road
  - Issued 2021NOV16 at 0930hrs for Yarrow, from Boundary Road to Browne Road, and all of Majuba Hill
  - Issued 2021NOV15 at 1230hrs for 4 properties on Yale Road and 3 properties on Chartwell Drive
- **State of Local Emergency: 1**, Expanded 2021NOV16 expires 2021NOV23 at midnight
- **Reception Centres: 1**, Chilliwack Landing Sports Centre, 45530 Spadina Avenue

- **Individuals Registered with ESS:** 750
- **Group Lodging Facilities:** 1, Evergreen Hall, 9291 Corbould Street (160 Registered)
- On 2021NOV16 the State of Local Emergency that was declared on 2021NOV15 for areas of the 47000 block of Yale Road and the 47000 block of Chartwell Drive was cancelled. On 2021NOV16 a State of Local Emergency was declared for the City of Chilliwack
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

#### Coquitlam, City of:

- **Incident:** Flooding
- EOC activated 2021NOV17 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:

- **Incident:** Heavy rain caused localized flooding throughout areas of Delta
- EOC Activated in response to issues related to flooding and high winds
- Working to mitigate localized flooding and support critical infrastructure (drainage stations)
- Working to restore communications (internal and external) to full capacity
- Continuing to monitor and support drainage stations

#### Fraser Valley Regional District:

- **Incident:** Heavy rainfall causing overland flooding and mudslides
- **Alerts: 1**
  - Issued on 2021NOV15 at 1530hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 7 properties on Obyrne Road
- **Properties Alerted: 7**
- **Orders: 5**
  - Issued 2021NOV15 at 1630 for Cultus Lake, FVRD Electoral Area "H" for 17 properties on Lakeshore Drive
  - Issued 2021NOV15 at 1230hrs for Chilliwack River Valley Electoral Area "E" for 13 properties on Chilliwack Lake Road and 8 properties on Wilson Road
  - Issued 2021NOV15 at 0915hrs for Othello Road, FVRD Electoral Area "B" for 3 properties on Fish Camp Road and 5 properties on Othello Road
  - Issued 2021NOV14 at 1130hrs for Bridal Falls Area, FVRD Electoral Area "D" for 1 property on Bridal Falls Road (24 people)
  - Issued 2021NOV15 at 0030hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 4 properties on Auchenway Road
- **Properties Evacuated: 51**
- **State of Local Emergency: 1** - declared 2021NOV14 at 2230 for all Electoral Areas of the FVRD to remain in force until 2021NOV21 at midnight
- Leisure Valley at Columbia Valley Road, Area H is affected. The local Fire Department is doing a tactical evacuation as needed and overseeing site works to stabilize the scene. The Bell Grove Creek has washed out the shoulder of Columbia Valley Road
- Preliminary Geotechnical Assessment received for Bridal Falls Road shows that the unsafe area extends beyond our current evacuation order area. The Evacuation order will be expanded to include the unsafe lands. All residents willing to evacuate have been evacuated already
- Chilliwack River Valley beyond Edwards Road flooded. MoTI Contractor working on the washout.
- Security in place for Chilliwack River Valley Road, Wilson Road evacuation order

- Taylor Rd: Attended today by Hydrotechnical Engineers to assess the situation. assessment is that there is a section of road/dike that requires immediate attention to be rebuilt. There is no threat of flooding/breaching, however, the structure could fail further which would be a danger to anyone travelling the road/dike. Discussions with Leqamel have indicated that they wish for the FVRD's EOC to coordinate this
- Elbow Creek: Hydrotechnical Engineers assess the situation. Their assessment reported that the seepage experienced 2021NOV15 was due to the high water levels but that the dike was not showing any signs of failure and that no further work is required
- 1,000 sandbags have been sent to Chilliwack River Valley. 4,000 sandbags remaining on Gibson Road, Chilliwack
- Damage assessment required at Hope Recreation Centre

#### **Village of Harrison Hot Springs:**

- **Incident:** Flooding along the Miami Slough
- **State of Local Emergency: 1** – declared 2021NOV15 for the Village of Harrison Hotsprings and expires 2021NOV22 at midnight
- EOC activated on 2021NOV15 due to localized flooding along the Miami Slough
- Maintaining pumps at maximum capacity
- Delivering sand and sandbag for public use
- Informing public to minimize toilet and other sewage use (laundry, washing machines, etc)
- Continuing to monitor water levels and deploy additional pumps if required
- Flooding on Highway 9 Harrison Hot Springs Road & McPherson Road. Limited ability to traverse due to water on road

#### **District of Hope:**

- **Incident:** Multiple people stranded by highway closures
- **Reception Centre(s):** 1, Hope Secondary School, 444 Stuart St, Hope (hours of operation: 24/7 – warming centre)
- **Individuals Registered with ESS:** unknown
- Multiple Churches have opened to provide support as needed
- Currently no food in town due to no power. Stores/restaurants closed
- Meals flown in via helicopter 2021NOV16 and provided by Salvation Army – Food and cot delivery continued today, 2021NOV17
- The EOC was relocated to the Hospital

#### **District of Kent:**

- **Incident:** Landslide threatening people and property along Rockwell Drive
- **Orders:** 1, Issued on 2021NOV15 for Rockwell Drive, Rockwell Lane, Rockwell Place, Pirates Lane, Thunderbird Crescent, and Dogwood Lane
- **State of Local Emergency: 1** – declared 2021NOV14 for Rockwell Drive and expires 2021NOV21 at midnight
- **Homes Evacuated: 6**
- **Reception Centre(s):** 2, (Harrison Hot Springs Resort Hotel; Agassiz Agricultural Hall, 6800 Pioneer Avenue (for evacuees from the Hwy #7 slides))
- **Individuals Registered with ESS: #**
- Multiple landslides on Rockwell Drive (6500, 6900 and 7000 blocks). The road is blocked at the intersection of Lillooet Road
- All properties on Rockwell Drive corridor have been placed on Evacuation Order. The reception centre has been moved from the Morrow Road location and evacuees are being directed to go to the Harrison Hot Springs Resort Hotel. Delivery of Evacuation Orders has been challenging due to life safety issues and is still underway (2021NOV16)
- Water is receding in the Kamp Road area
- Flood pumps at Hammersley Pump Station are again running. Additional pumping capacity is required in Harrison Mills
- **Incident:** Hwy 7 landslide

- Approximately 275 people rescued from Highway 7 2021NOV15
- Crews are working to make access through the slide area
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

#### **Langley, Township of:**

- **Incident:** Mudslide threatening people and property
- **Homes Evacuated: 1**
- **Individuals Registered with ESS: 2**
- Rainfall caused wide spread flooding on public and private property, as well as parks and trails, and sewer lift stations
- Multiple roads impacted due to flooding
- Engaging geotechnical and structural consultants to assist with slope failures locations when safe to do so

#### **Maple Ridge:**

- **Incident:** Localized flooding
- EOC activated in response to localized flooding due to the Alouette River
- Monitored South Alouette, North Alouette and Fraser River flows
- The Fraser River levels continue to drop and the Sanitary Sewer Overflow (SSO) event will transition from an EOC event to an operational response
- The EOC will transition to a virtual format
- Continuing visual inspections along South and North Alouette River

#### **Metro Vancouver Regional District:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding
- Liquid Waste Services is reporting 8 sewer overflows, and all Wastewater Treatment Plants have had power restored and are operating normally, and within the regulated requirements. Cariboo Dam has been able to manage flows through the Still Creek drainage system throughout the event with minor flooding
- Water Services is monitoring its Dams and is managing turbidity concerns
- Regional Parks currently have 6 parks closed due to flooding conditions, and power has been restored to all locations interrupted 2021NOV15
- Solid Waste Services is reporting all Recycling & Waste Facilities are reopened to full operations. Coquitlam Landfill had an overflow of surface water, which has since been contained and repairs are ongoing to the berm that was damaged
- Gaining situational awareness of impacted infrastructure. Assessing damages and planning for repair or mitigation strategies as required
- **Road Closures:**
  - 56th Ave @ 176th Street, Surrey – Partial lane closure
  - Blundell & Gilbert, Richmond - Alternating traffic (local traffic only)

#### **Mission:**

- **Incident:** Localized flooding and mutual aid
- **Orders:** 1, Issued 2021NOV16 for 8 properties located on the 8400 block of Bembow Street in Hatzic (8 properties)
- **Homes Evacuated:** 8 properties
- **State of Local Emergency:** 1, Issued 2021NOV16 to expire on 2021NOV23 at midnight
- **Reception Centre(s):** 1, Virtual
- **Individuals Registered with ESS:** 12
- EOC activated due to localized flooding and to provide mutual aid to Abbotsford

- Mission Virtual RC currently registering evacuees from Kent into the Harrison Hot Springs Hotel using ERA (10 families registered to date, 2021NOV17)
- On 2021NOV16 a State of Local Emergency and an Evacuation Order were issued for properties on Bembow Street in Hatzie
- Virtual Reception Center activated in the EOC to support evacuees from Mission (30 persons) - evacuees will self register for ESS services and all vouchers and supports will be processed online through ERA - Evacuees told to Self-register then call EOC information line for ESS supports (2 persons registered to date)
- ESS requested to support District of Kent with evacuees airlifted from between the mudslides on Highway 7 (50 cots sent to Kent from Mission supply) - Virtual RC will be processing vouchers for Kent evacuees through Mission's virtual RC
- Some road closures continue
- Completing daily assessments of Benbow Street (Mission)
- Continuing to partner with Public Works and City media staff to provide accurate Alertable notifications for road closures
- Two residences on King Avenue are isolated due to complete road wash out

#### **New Westminster:**

- **Incident:** Localized flooding
- EOC standing down 2021NOV17

#### **Pemberton:**

- **Incident:** Flooding
- EOC activated 2021NOV15 due to flood activity
- Heavy rainfall caused significant flows in Pemberton Creek and the Arn Canal causing localized flooding in low-lying areas
- 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
- Pumping at the Peaks and Pioneer Junction is ongoing
- One Mile Lake Park, the Boardwalk and trails have been closed due to high water
- Pemberton Fire Rescue was dispatched to assist with pumping in residential areas
- PVDD to continue to monitor rivers, provide ongoing updates, expertise and operational recommendations
- Continuing to liaise with Lil'wat, SLRD and PVDD and relevant agencies to coordinate response
- A significant number of travellers impacted by the Hwy 99/Duffy Lake Road mudslide have been turned around at the slide and have been residing in the Pemberton area.
- Emergency Support Services have been provided to 6 individuals including services provided to those that were referred by the RCMP
- As localized flooding is taking some time to drain, damage and impacts to trails and infrastructure is still unknown

#### **Pitt Meadows, City of**

- **Incident:** Heavy rainfall has resulted in multiple roads flooding
- Localized flooding throughout Pitt Meadows. Some areas inundated with water, some roads have been closed and/or have signage placed to be cautious of flooding
- Hammond Road/Airport Way both have localized flooding. Traffic control on scene.
- Dike inspections started
- Inundation mapping from Alouette Dam are being reviewed as they have a freecrest spill peaking around 2400 hr 2021NOV15 at 160 cms. The Pitt River is at high tide for a couple of days
- Alouette River alert notice sent to City Agricultural Advisory Committee
- Determining flood spill conditions and possible scenarios from the Alouette Dam
- Notification to some properties along the Alouette/Pitt Rivers

- Notice to be delivered to property on 224th Ave in regard to potential hazards/flooding due to the freecrest spill from the Alouette Dam

#### **Port Coquitlam:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding
- Localized flooding has subsided. Drainage infrastructure was at a maximum capacity and now is continuing to lower
- Liverpool sanitation backups cleared back to normal flow
- Sand and bags are available to residents at Public Works Yard

#### **Squamish Lillooet Regional District:**

- **Incident:** Flood threat to properties
- **Alerts: 0**
- EOC activated 2021NOV15 due to flood threat to properties and water levels continue to rise
- The evacuation alert issued on 2021NOV15 for Tunnel Station/Upper Paradise Valley – Electoral Area D was rescinded 2021NOV16
- On 2021NOV15 Pemberton Fire Rescue Service advised the SLRD EOC that a mudslide occurred in the vicinity of 1773 Reid Road, inundating the road approx. 1m deep due to a steep creek debris flow
  - MoTI and contractor attended the road washout 2021NOV16, cleared debris, and report that there is now approximately an 8 foot trench in the road. The culvert will likely need to be removed and replaced due to age and damage
  - MFLNRORD conducted an aerial survey of the S2S area 2021NOV16
- 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 at this time
- EOC Information Officers continue to receive a volume of media and public enquiries, and to publish regular updates

#### **Squamish District**

- **Incident:** Localized flooding due to heavy rainfall. Waste Treatment Plant overflowing
- EOC activated 2021NOV15 due to localized flooding concerns
- Wastewater Treatment Plant is overflowing within the District of Squamish

#### **Sunshine Coast Regional District**

- **Incident:** Localized flooding due to heavy rainfall
- EOC activated 2021NOV15 due to localized flooding on Day Road in Roberts Creek
- 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.
- Working to protect water supply/infrastructure for public health and fire flow (Chapman Creek main, water mains, McNeill Lake dam, Grantham's pump station)
- Working to protect public health / manage impacts of WWTP failure (notifications)
- Addressing current areas of no road access (washout occurred)
- Addressing potential areas of no road access (impending washout)
- Promoting public safety (park closures, awareness of issues/avoid unnecessary travel)
- Boil water advisories issued (2021NOV15 at 1330)

#### **Surrey:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

#### **Vancouver, City of**

- **Incident:** Flooding

- EOC activated 2021NOV17 for flood support

#### **Whistler:**

- **Incident:** ESS host community
- Providing support to two evacuees who are unable to return home due to the mudslides

#### **AGENCIES**

##### **Ministry of Transportation and Infrastructure (MoTI):**

- MoTI South Coast Region has activated their Ministry Operations Centre and District Operations Centre

##### **Vancouver Fraser Port Authority (VFPA):**

- Communications issues are resolved
- All rail service coming to and from the Port of Vancouver is halted; impacts to supply chain anticipated but unknown at this time; waiting on damage assessment to rail lines and timeframe for re-opening to have a clearer picture on impacts
- Vessel delays and heightened anchorage demand are expected due to disruptions to terminal operations. VFPA are working closely with their terminal operators, railways, and all levels of government to understand the impacts of these delays on terminal operations and to develop a recovery plan
- Freshet-like conditions seen on the Fraser River: request to ship masters to exercise additional caution; potential for overhead clearances being less than advertised on CHS Charts and increased wood debris/heightened shoreline damage from a vessel's wake; additional tug support may be requested to ensure safe passage to and from berth to avoid accumulated debris
- Real-time insights into Port of Vancouver operations can be accessed through the PortVan eHub app, which can be downloaded at <https://www.portvancouver.com/port-dashboard/ehub-app/> or through the App Store. Daily updates on import rail performance and weekly updates on truck terminal turn time performance are available through the port authority's website <https://www.portvancouver.com/port-dashboard/>

#### **HEALTH INFORMATION**

**No impacts reported**

#### **LIVE STOCK IMPACTED**

**No impacts reported**

#### **TRANSPORTATION IMPACTED**

##### **Drive BC**

Highway 1 Both Directions - Highway 1, in both directions. Mudslide between Annis Rd and K St for 38.4 km (Hope to 2 km east of Chilliwack). Road closed. Estimated time of opening not available. Assessment in progress

Highway 1, in both directions. Flooding between Flood Hope Rd and Junction Hwy 8 for 144.3 km (Hope to Spences Bridge). Rockslide. Road closed. Assessment in progress. Estimated time of opening not available

Highway 1, in both directions. Flooding between Exit 90: McCallum Rd and Exit 109: Yale Rd for 20.1 km (Abbotsford to Chilliwack). The road is closed. Estimated time of opening not available. Assessment in progress

Highway 1, in both directions. Flooding between Exit 90: McCallum Rd and Exit 109: Yale Rd for 20.1 km (Abbotsford to Chilliwack). The road is closed. Estimated time of opening not available. Assessment in progress.

Highway 3 Both Directions. Mudslide at Sunshine Valley (17 km east of Hope). Road Closed. Assessment in progress. Estimated time of opening not available

Highway 5, in both directions. Mudslide at Exit 202 (11 km south of Great Bear Snowshed). Road closed. Assessment in progress. Estimated time of opening not available. Detour not available. Road closed between Hope and Merritt

Highway 7, in both directions. Mudslide between Johnson Slough Rest Area and Ross Rd for 12.6 km (Kent to 1 km east of Hope). Road closed. Assessment in progress. Detour not available

Highway 7 Both Directions - Highway 7, in both directions. Mudslide between Highlands Blvd and Bodnar Rd (Kent). Flooding. Single lane alternating traffic. Watch for traffic control

Highway 11, in both directions. Flooding between Hazelwood Ave and Townshipline Rd for 2.9 km (Abbotsford). Road closed. Detour not available

Highway 99, in both directions. Mudslide between Lil'wat Pl and Seton Lake Rd for 81.9 km (9 km north of Pemberton to Lillooet). Road closed. Estimated time of opening not available. Assessment in progress

King George Blvd., northbound. Bridge closed at Nicomekl Bridge. Assessment in progress. Please use alternate route

#### UTILITIES IMPACTED

##### BC Hydro

- 2021NOV17 update - There are currently 1283 customers without power within the Lower Mainland and Sunshine Coast remain without power due to flooding, mud/snow slides and trees down on wires
- [BC Hydro bill help for BC Residents who are evacuated](#)
- **For more information:** <https://www.bchydro.com/power-outages/app/outage-list.html>

##### BC Hydro Alerts

- Cheakamus Dam Spill Notice of Cancellation – 2021NOV17 at 0930hrs - Present conditions are favourable and flows are expected to decrease
- Stave Falls and Ruskin Dams Spill Notification – 2021NOV16, at approximately 1315hrs decrease will commence at the Ruskin Dam & Stave Falls Dam as inflows are decreasing. Ruskin Dam Spill will decrease from 1400 cubic meters per second (cms) to a flow of 500 cms. Stave Falls Spill will decrease from 1350 cubic meters per second (cms) to a flow of 500 cms.
- Wahleach Dam (Jones Lake) Spill Notification – Notification of planned spill release. Lower Jones Creek water levels will rise and may approach bankfull conditions, but no major flooding is expected. The current reservoir elevation is 642.31m. The current release is ~50 cms (cubic meters per second). Forecast spill is reducing, reservoir lowering. The reason for spill inflows event and plant outage
- 2021NOV16 The previously declared flood alert, # ALU\_01\_2021, downstream of Alouette Dam has been rescinded
- 2021NOV16 the previously declared flood alert # WAH\_01\_2021 downstream of Wahleach Dam has been rescinded
- 2021NOV16 the previously declared flood alert # CMS\_01\_2021 downstream of Cheakamus Dam has been rescinded

##### Enbridge Inc.

- Due to heavy rainfall and increasing river flows, Enbridge has shut down a segment of 30-inch natural gas pipeline in the Coquihalla river valley on the morning of 2021NOV16 as a precautionary measure. The 36-inch natural gas pipeline remains in operation.
- Continuing to monitor the situation and will take further action should they become necessary.

#### USEFUL LINKS/RESOURCES

[EMBC Current Flooding Information](#)

[River Forecast Centre](#)



[Drive BC](#)

[Environment Canada](#)

[Avalanche Canada Weather Forecast](#)

[BC Hydro](#)

[Disaster Financial Assistance Website](#)

**APPROVED BY:**

*Original signed by*

Debbie Alexander

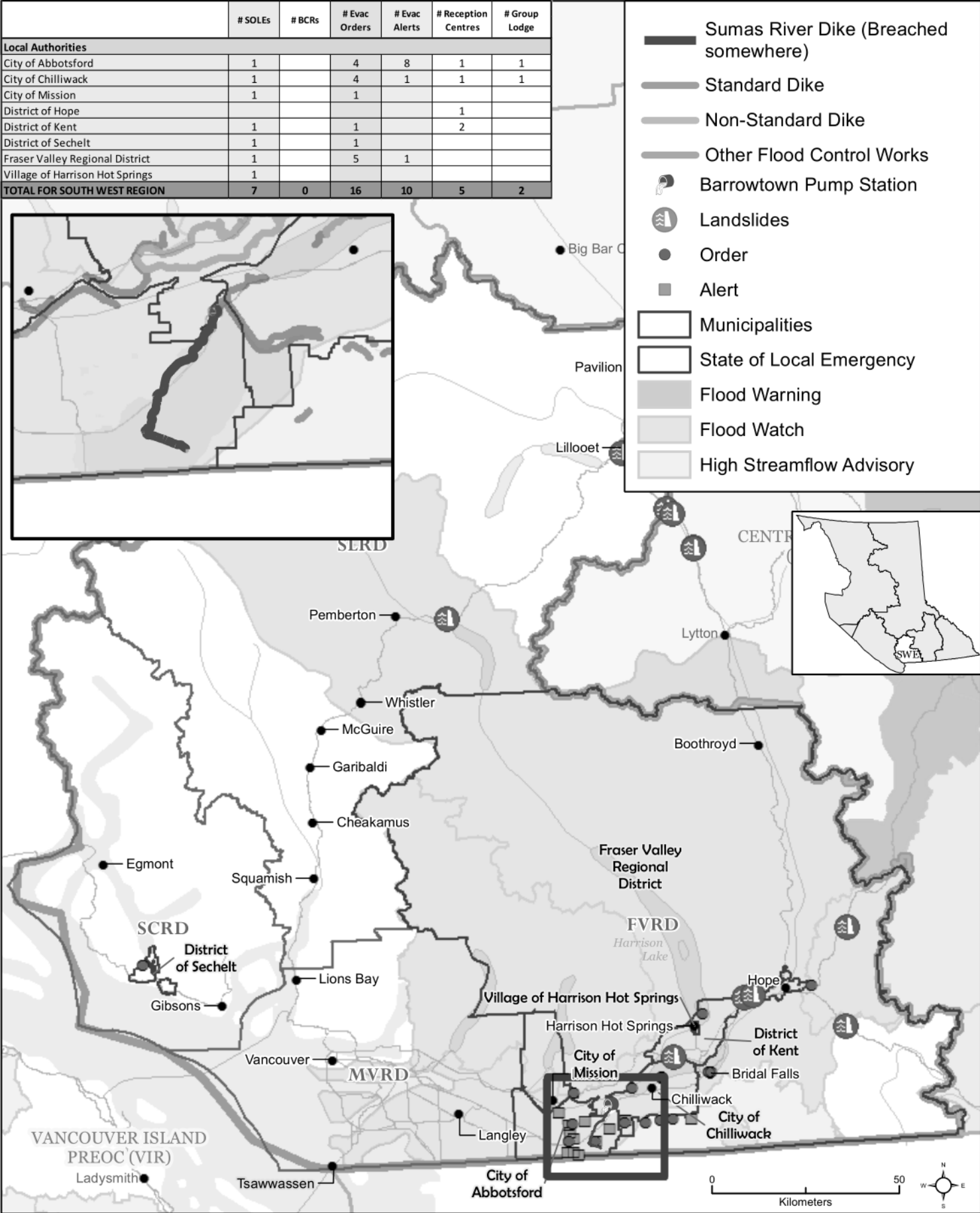
**PREOC Deputy Director**

**Note:** Information contained in this situation report is for operational purposes only. The contained information is not meant for public information. If you wish you use contained information for a media release, you must clear it with the PREOC Director.

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# South West (SWE) Provincial Regional Operational Centre (PREOC) Atmospheric River Events

2021-11-17



UPDATED 2021-11-17 Time: 16:49

File: W:\lmb\PEP\response\SWE\task223862\_ISC\_AtmosphericRiver\arcgisprojects\task223862\_sitmap\_8x11\_20211117.mxd

## SWE Situation Report #5 and Map for 2021NOV18

From: preoc2.lia1@gov.bc.ca  
Sent: November 18, 2021 5:54:54 PM PST  
Attachments: SWE PREOC Situation Report #5 2021NOV18.pdf, Situation Map #5 2021NOV18.pdf

### South West Provincial Regional Emergency Operations Centre (SWE PREOC)

#### SITUATION REPORT #5

#### Event: Atmospheric River

Date/Time Issued: 2021-11-18; 1700hrs

Task #: 223862

Operational Period: 2021-11-18

Primary PREOC Email: [preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)

Primary PREOC Phone: 778-572-3962

Primary PREOC Fax: 604-586-4083

Overall Regional Situation: Static

Activated EMBC Staff: 13      Activated TEAMS: 5      Agency: 11      Other: 4      Remote: 3

The next Situation Report will be issued: 2021-11-19 at 1700hrs

The next Coordination Call will be: 2021-11-19 @ 1100hrs

\*\* New information

#### KEY PROVINCIAL INFORMATION

0. The Southwest PREOC is activated to support communities affected by flooding and landslides caused by the Atmospheric River
1. On 2021NOV17 the BC government declared a provincial state of emergency to mitigate impacts on transportation networks and 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 British Columbia
2. On 2021NOV17 Search & Rescue (SAR) - Task Force 1 has been deployed to assist with the rescue of stranded evacuees of the Sumas Prairie region of Abbotsford
3. As a result of the severe weather events, EMBC has approved Disaster Financial Assistance (DFA) for flooding in the Vancouver Island, Southwest and Central regions of the province, including First Nation communities, electoral areas and municipal areas within these regions

#### KEY REGIONAL INFORMATION

##### Regional Summary

Local Authorities	# SOLEs	# BCRs	# Orders	# Alerts	# RCs	ESS Reg to date	# GL	# in GL current
City of Abbotsford	1		4	4	1	780	1	54
City of Chilliwack	1		4	1	1	929	1	160
District of Kent	1		1		2			
District of Sechelt 2019 Seawatch	1		1					
Fraser Valley Regional District	1		5	1				
Hope					1			
Mission	1		1		1	15		
Sunshine Coast Regional District	1		1	1				
Village of Harrison Hot Springs	1							
<b>TOTAL</b>	<b>8</b>	<b>0</b>	<b>17</b>	<b>7</b>	<b>6</b>	<b>1724</b>	<b>2.</b>	<b>214</b>

#### River Forecast Centre

UPDATE: 2021NOV17 at 1730 hrs

The River Forecast Centre is maintaining the following advisories:

Sumas River and areas around the US Border – Flood Warning (MAINTAINED)  
Chilliwack River – High Streamflow Advisory (MAINTAINED)

The Following advisories are downgraded:

Fraser Valley – High Streamflow Advisory (DOWNGRADED)  
Fraser Canyon – High Streamflow Advisory (DOWNGRADED)

The following advisories are ended:

Coquihalla River – High Streamflow Advisory (ENDED)

Most streams throughout the region have continued to recede following the 2021Nov13-15 atmospheric river event; those systems with lake or reservoir-fed watersheds are experiencing a slower recession as water continues to move through these systems. Areas close to the Sumas River continue to experience high water conditions. Favourable weather conditions in the short term indicate that rivers and streams will continue to recede and recover from this historic event

### Fraser River Debris Trap Update

#### ADVISORY

An increase in logs and large woody debris may be experienced on the Lower Fraser River, downstream of Agassiz through Saturday 2021NOV20

Recreational boaters, marine traffic and infrastructure operators should be aware that more logs than normal may be floating downstream due to decreased performance of the Fraser River Debris Trap. Based on new aerial images today, 2021NOV17, high debris volumes have misaligned the booms that direct debris into the Trap. Contractors are inspecting and attempting to realign the booms today, but repairs are expected to take longer

Normally, the Fraser River Debris Trap diverts up to 70% of the woody debris coming downstream near Agassiz before it flows into the lower reaches of the Fraser. Although there is always some volume of logs and floating debris in the River, an increase in the number of floating logs getting past the Debris Trap is anticipated

### ENVIRONMENT CANADA WEATHER FORECAST FOR – 2021NOV18

#### Abbotsford

Friday AM Clearing in the morning. Increasing cloudiness in the afternoon. Fog patches in the morning. High 7  
Friday PM Cloudy with 30 percent chance of showers. Low plus 2

Saturday AM A mix of sun and cloud with 60 percent chance of showers. High plus 5

Saturday PM Cloudy. Low plus 4

#### Pemberton

Friday AM Sunny. Wind up to 15 km/h. High plus 1. Wind chill minus 7 in the afternoon  
Friday PM Cloudy with 60 percent chance of flurries. Low minus 7

Saturday AM Flurries or rain showers. High plus 1

Saturday PM Cloudy with 40 percent chance of showers. Low zero

There are currently no weather alerts

### FIRST NATIONS

#### Chawathil First Nation:

- Incident: Flooding

- EOC activated for flooding
- 12 homes have flooded

#### **Kwkwetlem First Nation:**

- **Incident:** Flood Alert
- Advised that they have rescinded their Flood Alert as levels have dropped down safely enough to rescind
- Put on flood alert 2021NOV15 from BC Hydro Dams
- EOC activated 2021NOV15

#### **Leq'á:mel First Nation:**

- **Incident:** Flooding
- Virtual EOC activated 2021NOV15 due to flooding and 1,000 sandbags requested

#### **Lower Stl'atl'imx (LSTC):**

0. **Incident:** Heavy rain caused multiple landslides closing roads and affecting power to Douglas, Samahquam, and Skatin
1. Power has been restored to Samahquam
2. In-SHUCK-ch FSR - Road access to north to Pemberton has not been established for all communities

#### **Lytton First Nation/Camp Hope**

- **Incident:** Activated in support of evacuees located at Camp Hope. Additional accommodation may be available at Camp Hope
- Supporting stranded motorists in Hope
- Food supplies from Camp Hope for Lytton evacuees and First Nation communities is provided for approximately 400+
- Power is back on
- Advance planning for food and medical supplies, energy needs

#### **Matsqui First Nation:**

- **Incident:** Localized flooding on IR 2 and IR 4
- Requested sandbags and sand due to localized flooding on IR 2 and IR 4

#### **Musqueam First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV17 due to flooding

#### **Peters First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV14 for flooding

#### **Seabird Island**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- Group lodging was set up for stranded motorists. Breakfast and lunch provided for 8 truck drivers
- Transported the 8 truck drivers that stayed at Seabird to Agassiz to the Agricultural Hall EOC/ESS
- Kamp Road off of Seabird Island Road released flood waters into Maria Slough causing major impact
- Currently Seabird Island has endured flooding of several homes and is still in high water advisory. Crews are assessing damage
- Due to access egress concerns in regard to surrounding highways, it is unknown when fuel will be delivered to the Seabird Island Gas station. Currently there is 12,000 liters of fuel. Public Works/Operations are fueled up, however it has been forecasted that Seabird and surrounding areas will be out of fuel by Thursday
- The emergency generator for the community water system is working. Unable to have a secondary unit delivered due to access on local highways
- TELUS fiber connection from Hope is not functional, temporarily lost communication
- Working to mitigate and dry flooded basements within the community, water diversion and sand bagging and to ensure that the community has enough food and supplies in anticipation of food shortages

#### **Shxw̓ha:y Village First Nation**

- **Incident:** Flooding
- EOC is activated today 2021NOV17 in support of the flooding and landslide response in the region

#### **Shsw'ow'hamel First Nation**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Skawahlook First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Soowahlie First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- Currently no power or water due to flooding activity since 2021NOV14

#### **Spuzzum First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding
- Flooding is impacting drinking water in community
- Ongoing – drinking, sanitation and fire fighting water has been impacted. Intake dam is not working so there is no potable water
- Currently trucking water into the water system to make potable water as intake inspections and repairs happen
- Intake issues have not been resolved yet. More heavy equipment needed 2021NOV19
- Intake lines will need to be flushed, as debris from high waters have clogged the intake main
- Food was delivered to the community by helicopter
- Continue to work on the intake system to get water flowing to the treatment plan
- Road repairs after washouts are preventing access to the intake
- Livestock feed concerns
- Food supply concerns

#### **Squamish First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Sts'ailes First Nation:**

3. **Incident:** Flooding
4. Fleetwood Mt Rd was badly washed out and there is concern for an accompanying pipe which provides drinking water to 600 people in Sts'ailes
5. Currently 2 flooded houses and 1 mobile home with water underneath. Community is currently out of sandbags

#### **Sumas First Nation**

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding

### **LOCAL AUTHORITIES**

#### **Abbotsford:**

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding
- **Alerts:** 4
  - Issued 2021NOV15 for 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 Properties)
  - Issued 2021NOV14 for Clayburn Area: Clayburn Village and surrounding area (30 Properties)
  - Expanded 2021NOV15 (2 Alerts) for Sumas Prairie: Westside of Whatcom Road, East of Huntingdon Village, Southside of Vye Road; Westside of Sumas Way to West of Riverside Road, East of Sumas River Dike to Boundary Road (140 Properties)
  - The Evacuation Alert issued on 2021NOV14 for Matsqui Village: Grace Road North to the Matsqui Slough (12 Properties) was rescinded on 2021NOV17 at 2200hrs
  - The Evacuation Alert issued on 2021NOV14 for Eagle Mountain Area: Cranberry Court, Briarwood Place, Doneagle Place (12 -15 Properties) was rescinded on 2021NOV17 at 2200hrs

- The Evacuation Alert issued 2021NOV14 for Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road (30 Properties) was rescinded on 2021NOV17 at 2200hrs
- The Evacuation Alert which was expanded on 2021NOV15 for Straiton Areas: Dawson Road East of Sumas Mountain Road, Straiton Road between Old Clayburn Road and Sumas Mountain Road (60 Properties) was rescinded on 2021NOV17 at 2200hrs
- **Properties Alerted:** 1870
- **Orders: 4**
  - Issued 2021NOV15 (2 Orders) for Straiton Road (7 Properties, 15 properties)
  - Issued 2021NOV15 for Sumas Prairie including the area bordered by: Sumas Mountain, and Yale Road to the North, the US border to the South, the Sumas River dike to the East and Sumas Way to the west (619 properties). On 2021NOV17 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
  - Issued 2021NOV16 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 properties)
- **Properties Ordered:** to be confirmed
- **State of Local Emergency: 1** – issued 2021NOV15 and expires 2021NOV23 at midnight
- **Reception Centre(s): 1**, Tradex, 1190 Cornell Street (RC and GL - hours of operation: 24/7)
- **Individuals Registered with ESS:** 780 registered to date, 54 persons in group lodging
- Samaritan Purse has arrived and are on site with a day team and a night team
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to [Local Government website](#) for list of closures

#### **Bowen Island:**

- **Incident:** Flooding
- EOC was activated 2021NOV15 and stood down on 2021NOV15 at 1600 hrs

#### **Chilliwack:**

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding causing travellers to be stranded
- **Alerts: 1**
  - Issued 2021NOV16 Yarrow, from Boundary Road to Browne Road, and from the Vedder River to Majuba Hill Road
- **Orders: 4**
  - Issued 2021NOV17 at 1100hrs for property at 47000 block of Yale Road
  - Issued 2021NOV17 at 1100hrs for property at 43000 block of Old Orchard Road
  - Issued 2021NOV16 at 0930hrs for Yarrow, from Boundary Road to Browne Road, and all of Majuba Hill
  - Issued 2021NOV15 at 1230hrs for 4 properties on Yale Road and 3 properties on Chartwell Drive
- **State of Local Emergency: 1**, Expanded 2021NOV16 expires 2021NOV23 at midnight
- **Reception Centres: 1**, Chilliwack Landing Sports Centre, 45530 Spadina Avenue
- **Individuals Registered with ESS: 929**
- **Group Lodging Facilities: 1**, Evergreen Hall, 9291 Corbould Street (160 Registered)
- On 2021NOV16 the State of Local Emergency that was declared on 2021NOV15 for areas of the 47000 block of Yale Road and the 47000 block of Chartwell Drive was cancelled. On 2021NOV16 a State of Local Emergency was declared for the City of Chilliwack
- ~2800 people were evacuated
- If capacity is exceeded at the Chilliwack Landing Sports Centre and Evergreen Hall, 2 additional facilities with a collective capacity of 400 have been identified for use
- Fuel shortages are becoming a concern to Chilliwack General Hospital in terms of home care workers travelling to patients
- Reports of some gas stations having to close due to supply chain issues
- Reports of supply chain issues with grocery stores
- Some poultry and dairy operations with minor to moderate impacts have been reported. The EOC developed and implemented an entry plan for all suppliers and farmers to provide fuel and feed to farms in affected areas
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

#### Coquitlam:

- **Incident:** Flooding
- EOC activated 2021NOV17 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
- Coquitlam Animal Shelter has capacity to temporarily shelter domestic animals for evacuees or other shelter organizations that have exceeded their capacity

#### Delta:

- **Incident:** Heavy rain caused localized flooding throughout areas of Delta
6. EOC Activated in response to issues related to flooding and high winds
  7. Supporting Abbotsford's Registration & Group lodging Facilities
  8. Monitoring and maintaining drainage infrastructure

#### Fraser Valley Regional District:

- **Incident:** Heavy rainfall causing overland flooding and mudslides
- **Alerts: 1**
  - Issued on 2021NOV15 at 1530hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 7 properties on Obyrne Road
- **Properties Alerted: 7**
- **Orders: 5**
  - Issued 2021NOV15 at 1630 for Cultus Lake, FVRD Electoral Area "H" for 17 properties on Lakeshore Drive
  - Issued 2021NOV15 at 1230hrs for Chilliwack River Valley Electoral Area "E" for 13 properties on Chilliwack Lake Road and 8 properties on Wilson Road
  - Issued 2021NOV15 at 0915hrs for Othello Road, FVRD Electoral Area "B" for 3 properties on Fish Camp Road and 5 properties on Othello Road
  - Issued 2021NOV14 at 1130hrs for Bridal Falls Area, FVRD Electoral Area "D" for 1 property on Bridal Falls Road (24 people)
  - Issued 2021NOV15 at 0030hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 4 properties on Auchenway Road
- **Properties Evacuated: 51**
- **State of Local Emergency: 1** - declared 2021NOV14 at 2230 for all Electoral Areas of the FVRD to remain in force until 2021NOV21 at midnight
- The Wilson Road dike, Elbow Creek dike have been overtopped and damaged. Engineering Assessment for emergency dike inspection required
- Geotechnical assessment underway for Hood Rd/Lyarden Rd due to slide debris concerns
- Geotechnical assessment on Baker Trail Debris Catch Basin completed
- A hydrotechnical assessment is being conducted to help inform evacuation order status on Wilson Road and Chilliwack Lake Road
- Geotechnical assessment underway to understand the evacuation alert status on Obyrne Road
- Need diesel for generators for water systems in Northbend and Boston Bar as power is out. This will be needed or there will be no water for fire protection and potable water. The FVRD's utility operator has been trapped in Boston Bar for several days and needs to be relieved and replaced with a new operator

#### Village of Harrison Hot Springs:

- **Incident:** Flooding along the Miami Slough
- **State of Local Emergency: 1** – declared 2021NOV15 for the Village of Harrison Hotsprings and expires 2021NOV22 at midnight
- EOC activated on 2021NOV15 due to localized flooding along the Miami Slough
- Sewage is backing up and lift stations cannot keep up to the demand

#### District of Hope:

- **Incident:** Multiple people stranded by highway closures
- **Reception Centre(s):** 1, Hope Secondary School, 444 Stuart St, Hope (hours of operation: 24/7 – warming centre)
- **Individuals Registered with ESS:** unknown
- Multiple churches have opened to provide support as needed
- Currently no food in town due to no power. Stores/restaurants closed



- Meals flown in via helicopter 2021NOV16 and provided by Salvation Army – Food and cot delivery continued today, 2021NOV17
- The EOC was relocated to the hospital

#### District of Kent:

- **Incident:** Landslide threatening people and property along Rockwell Drive
- **Orders:** 1, Issued on 2021NOV15 for Rockwell Drive, Rockwell Lane, Rockwell Place, Pirates Lane, Thunderbird Crescent, and Dogwood Lane
- **State of Local Emergency:** 1 – declared 2021NOV14 for Rockwell Drive and expires 2021NOV21 at midnight
- **Properties Evacuated:** 6
- **Reception Centre(s):** 2, (Harrison Hot Springs Resort Hotel; Agassiz Agricultural Hall, 6800 Pioneer Avenue (for evacuees from the Hwy #7 slides))
- **Individuals Registered with ESS:** number unconfirmed
- Multiple landslides on Rockwell Drive (6500, 6900 and 7000 blocks). The road is blocked at the intersection of Lillooet Road. Clearing of Rockwell Drive is in progress
- All properties on Rockwell Drive corridor have been placed on Evacuation Order. The reception centre has been moved from the Morrow Road location and evacuees are being directed to go to the Harrison Hot Springs Resort Hotel.
- Water is receding in the Kamp Road area
- Flood pumps at Hammersley Pump Station are again running. Pumping capacity has increased in Harrison Mills with the addition of a rental pump
- **Incident:** Hwy 7 landslide
- Approximately 275 people rescued from Highway 7 2021NOV15
- Crews are working to make access through the slide area
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

#### Langley, Township of:

- **Incident:** Mudslide threatening people and property
- **Properties Evacuated:** 1
- **Individuals Registered with ESS:** 2
- Crew mobilized to repair slope at 7800 block of 264 St and to repair bridge wingwall washout at 23600 block of 64 Ave
- Dozens of hay bales from flooded properties in Fort Langley are ending up in the Salmon River and impacting the flood boxes of the dike station. Crews and contractors are mobilized to remove the hay bales
- Interim repairs are in progress for 40 Avenue as per geotechnical recommendations
- Monitoring Jacob Haldi Bridge between Fort Langley and Kwantlen First Nations / Metro Vancouver Regional Park for debris getting stuck at the bridge that is flowing down the Fraser River
- Rainfall caused wide spread flooding on public and private property, as well as parks and trails, and sewer lift stations
- Multiple roads impacted due to flooding

#### Maple Ridge:

- **Incident:** Localized flooding on Alouette River
- 9. EOC was activated 2021NOV15 and stood down on 2021NOV17 at 1600 hrs
- 0. Monitored South Alouette, North Alouette and Fraser River flows
- 1. The Fraser River levels continue to drop and the Sanitary Sewer Overflow (SSO) event will transition from an EOC event to an operational response
- 2. Continuing visual inspections along South and North Alouette River

#### Metro Vancouver Regional District:

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding
- Liquid Waste Services is reporting 8 sewer overflows, and all Wastewater Treatment Plants have had power restored and are operating normally, and within the regulated requirements. Cariboo Dam has been able to manage flows through the Still Creek drainage system throughout the event with minor flooding
- Water Services is monitoring its Dams and is managing turbidity concerns

- Regional Parks currently have 6 parks closed due to flooding conditions, and power has been restored to all locations interrupted 2021NOV15
- Solid Waste Services is reporting all Recycling & Waste Facilities are reopened to full operations. Coquitlam Landfill had an overflow of surface water, which has since been contained and repairs are ongoing to the berm that was damaged
- Gaining situational awareness of impacted infrastructure. Assessing damages and planning for repair or mitigation strategies as required

• **Road Closures:**

- 56th Ave @ 176th Street, Surrey – Partial lane closure
- Blundell & Gilbert, Richmond - Alternating traffic (local traffic only)

**Mission:**

- **Incident:** Localized flooding and mutual aid
- **Orders:** 1, Issued 2021NOV16 for 8 properties located on the 8400 block of Bembow Street in Hatzic (8 properties)
- **Properties Evacuated:** 8 properties
- **State of Local Emergency:** 1, Issued 2021NOV16 to expire on 2021NOV23 at midnight
- **Reception Centre(s):** 1, Virtual
- **Individuals Registered with ESS:** 15
- EOC activated due to localized flooding and to provide mutual aid to Abbotsford
- On 2021NOV16 a State of Local Emergency and an Evacuation Order were issued for properties on Bembow Street in Hatzic
- Remote Mission EOC/RC currently processing extensions for families under Evacuation Order in Hatzic - Benbow
- ESS requested to support District of Kent with evacuees airlifted from between the mudslides on Highway 7 (50 cots sent to Kent from Mission supply) - Virtual RC will be processing vouchers for Kent evacuees through Mission's virtual RC
- Some road closures continue
- Completing daily assessments of Benbow Street (Mission)
- Continuing to partner with Public Works and City media staff to provide accurate Alertable notifications for road closures
- Two residences on King Avenue are isolated due to complete road wash out

**New Westminster:**

- **Incident:** Localized flooding
- EOC standing down 2021NOV17

**Pemberton:**

- **Incident:** Flooding
- EOC activated 2021NOV15 due to flood activity
- Stranded travellers from the Hwy 99/Duffy Lake Road mudslide in the Pemberton area continue to be impacted by highway closures. The Pemberton and District Community Centre has seen an influx in those requiring use of shower facilities. Lil'wat Nation has also seen a significant number of travellers sleeping in their vehicles at the Chevron Gas Station and camping in multiple different locations
- Connection has been made with additional travellers requiring ESS and other services
- 11 individuals have been provided lodging, food and other referral supports
- As localized flooding is taking some time to drain, damage and impacts to trails and infrastructure is still unknown

**Pitt Meadows, City of**

- **Incident:** Heavy rainfall has resulted in multiple roads flooding
- EOC stood down on 2021NOV17
- The City has progressed to a routine clean up stage following the event
- Localized flooding was experienced in the Bordertown area, however 224th is open and water appears to be subsiding
- Roads have reopened throughout Pitt Meadows
- The BC Hydro Alouette Dam peak occurred with little consequence to Pitt Meadows
- Pumps continue to operate at full capacity
- Continued dike inspections

**Port Coquitlam:**

- **Incident:** Localized flooding

- EOC activated 2021NOV15 due to localized flooding
- Localized flooding has subsided. Drainage infrastructure was at a maximum capacity and now is continuing to lower
- Liverpool sanitation backups cleared back to normal flow
- Sand and bags are available to residents at Public Works Yard

#### **Squamish Lillooet Regional District:**

- **Incident:** Flood threat to properties
- **Alerts:** 0
- EOC activated 2021NOV15 due to flood threat to properties and water levels continue to rise
- The evacuation alert issued on 2021NOV15 for Tunnel Station/Upper Paradise Valley – Electoral Area D was rescinded 2021NOV16
- A geotechnical engineer will be in the Jason Creek area again 2021NOV18, continuing their survey of the creek system in the Reid Road and Walkerville areas where damage has been observed. As the area is heavily treed and the upper reaches are inaccessible by foot, the plan is for a drone flight to the upper reaches of the two creeks. Initial findings from 2021NOV17 is that there is further debris available to come downstream in the next heavy rain event, and at the furthest point able to be surveyed on foot today, the creek is still running black, indicating further debris available upstream of this point
- The SLRD is working with MFLNRORD and MoTI for urgent access improvements to the McKenzie FSR and Reid Road
- The EOC has requested advice from the SWE PREOC as to how to mitigate the risk upstream of the Reid Road washout. Terrain is steep, treed, and heavy machinery access may not be possible or with specialized machinery only
- On 2021NOV15 Pemberton Fire Rescue Service advised the SLRD EOC that a mudslide occurred in the vicinity of 1773 Reid Road, inundating the road approx. 1m deep due to a steep creek debris flow
  - MoTI and contractor attended the road washout 2021NOV16, cleared debris, and report that there is now approximately an 8 foot trench in the road. The culvert will likely need to be removed and replaced due to age and damage
  - MFLNRORD conducted an aerial survey of the S2S area 2021NOV16
- 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 at this time
- EOC Information Officers continue to receive a volume of media and public enquiries, and to publish regular updates

#### **Squamish District**

- **Incident:** Localized flooding due to heavy rainfall. Waste Treatment Plant overflowing
- EOC activated 2021NOV15 due to localized flooding concerns
- A Geotech assessment is being arranged to determine the extent of the damage and next steps on the Mamquam – Ring Creek Road. As of 2021NOV17, the fracture is approximately 500m long
- Paradise Valley residents reported access and egress challenges on the gravel section of Paradise Valley Road near the Jack Webster bridge. District Public Works assessed the situation and sent a grader to improve the road
- A sinkhole in the Squamish River dike near the Kowtain reserve is being assessed and monitored. Squamish Nation has been engaged

#### **Sunshine Coast Regional District**

- **Incident:** Localized flooding due to heavy rainfall
- **Alerts:** 1
- Issued 2021NOV15 for 14 properties on Ocean Beach Esplanade and Lower Road (2 properties placed on order 2021NOV16)
- **Properties Alerted:** 12
- **Orders:** 1
- Issued 2021NOV16 for 2 properties on Ocean Beach Esplanade
- **Properties Evacuated:** 2
- **State of Local Emergency:** 1, Issued 2021NOV15 expires 2021NOV22 for Electoral Areas A, B, D, E and F
- EOC activated 2021NOV15 due to localized flooding
- Day Road now accessible
- Contractor at Whitaker Creek responding to debris flow with excavator
- Reed Rd water main fixed
- Roberts Creek Campground road needs attention and site visit occurring for emergency vehicle access
- 5 waste water treatment plants are functioning poorly; no public health risk
- Chapman Creek Water Treatment Plant continued issues with intake. Continuing to monitor
- 3 dams assessed and no apparent concerns

- The 2 properties placed on evacuation order 2021NOV16 are not occupied. Only 2 of the 14 homes placed on evacuation alert 2021NOV15 are occupied
- Reports of continued erosion on numerous private properties
- 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. Fortis attempted to secure gas lines to a steel I-beam, which was too short, so is held in place by cranes
- Fortis rerouting exposed gas line on Lower Road
- Working to protect water supply/infrastructure for public health and fire flow (Chapman Creek main, water mains, McNeill Lake dam, Grantham's pump station)
- Working to protect public health / manage impacts of WWTP failure (notifications)
- Addressing current areas of no road access (washout occurred)
- Addressing potential areas of no road access (impending washout)
- Promoting public safety (park closures, awareness of issues/avoid unnecessary travel)
- Boil water advisories issued (2021NOV15 at 1330)

#### **Surrey:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding
- Crews are continuing to clean up and repair roads that have been washed out, replace flood boxes and restore spillways that have been damaged. They are also assessing damage to some pump stations due to flooding
- An individual who resides in the interior is stranded in Surrey and has reached out to the ESS team for support
- Firefighters and ESS volunteers sent to Abbotsford for support

#### **Translink:**

3. Translink has activated their Emergency Coordination Centre in response to flooding impacts
4. Managing consequences for supply chain issues to ensure continued essential public transit services

#### **Vancouver, City of**

- **Incident:** Flooding
- EOC activated 2021NOV17 for flood support

#### **Whistler:**

- **Incident:** ESS host community

### **AGENCIES**

#### **Ministry of Transportation and Infrastructure (MoTI):**

- MoTI South Coast Region has activated their Ministry Operations Centre and District Operations Centre

#### **Vancouver Fraser Port Authority (VFPA):**

- Communications issues are resolved
- All rail service coming to and from the Port of Vancouver is halted; impacts to supply chain anticipated but unknown at this time; waiting on damage assessment to rail lines and timeframe for re-opening to have a clearer picture on impacts
- Vessel delays and heightened anchorage demand are expected due to disruptions to terminal operations. VFPA are working closely with their terminal operators, railways, and all levels of government to understand the impacts of these delays on terminal operations and to develop a recovery plan
- Freshet-like conditions seen on the Fraser River: request to ship masters to exercise additional caution; potential for overhead clearances being less than advertised on CHS Charts and increased wood debris/heightened shoreline damage from a vessel's wake; additional tug support may be requested to ensure safe passage to and from berth to avoid accumulated debris
- Real-time insights into Port of Vancouver operations can be accessed through the PortVan eHub app, which can be downloaded at <https://www.portvancouver.com/port-dashboard/ehub-app/> or through the App Store. Daily updates on import rail performance and weekly updates on truck terminal turn time performance are available through the port authority's website <https://www.portvancouver.com/port-dashboard/>

### **HEALTH INFORMATION**

#### **No impacts reported**

## LIVESTOCK IMPACTED

### Ministry of Agriculture Updates:

- In SWE, 44 regulated poultry premises under order, 17 under alert. Representing ~2.2 million birds
- In SWE, 59 regulated dairy operations under order, 3 under alert. Represents a total of 22,000 cows
- On the Sumas Prairie, 20 dairy operations requesting immediate support for deliveries of water and, secondarily, feed. Represents approximately 5,700 dairy cows
- On the Sumas Prairie, 19 poultry operations requesting immediate support for deliveries of water and feed
- AFF staff are liaising with Abbotsford EOC to permit re-entry to farms
- AFF staff are working with BCWS to provide water deliveries by air
- Request that agriculture operations be included as an essential service to ensure prioritised road access for agricultural operators, feed, water, waste and milk trucks (request has been submitted to MOTI)
- Hearing concerns from agriculture operations and associated essential service providers not being able to reach farms due to traffic congestion on roads (especially Hwy 7)

## TRANSPORTATION IMPACTED

### Drive BC

Highway 1 Both Directions - Highway 1, in both directions. Mudslide between Annis Rd and K St for 38.4 km (Hope to 2 km east of Chilliwack). Road closed. Estimated time of opening not available. Assessment in progress

Highway 1, in both directions. Flooding between Flood Hope Rd and Junction Hwy 8 for 144.3 km (Hope to Spences Bridge). Rockslide. Road closed. Assessment in progress. Estimated time of opening not available

Highway 1, in both directions. Flooding between Exit 90: McCallum Rd and Exit 109: Yale Rd for 20.1 km (Abbotsford to Chilliwack). The road is closed. Estimated time of opening not available. Assessment in progress

Highway 3 Both Directions. Mudslide at Sunshine Valley (17 km east of Hope). Road Closed. Assessment in progress. Estimated time of opening not available

Highway 5, in both directions. Washout between Hope and Merritt. Road closed. Estimated time of opening not available. Detour not available. Damage assessment in progress. Multiple washouts

Highway 7, in both directions. Mudslide between Johnson Slough Rest Area and Ross Rd for 12.6 km (Kent to 1 km east of Hope). Road closed. Assessment in progress. Detour not available

Highway 7 Both Directions - Highway 7, in both directions. Mudslide between Highlands Blvd and Bodnar Rd (Kent). Flooding. Single lane alternating traffic. Watch for traffic control

Highway 11, in both directions. Flooding between Hazelwood Ave and Townshipline Rd for 2.9 km (Abbotsford). Road closed. Detour not available

Highway 99, in both directions. Mudslide between Lil'wat Pl and Seton Lake Rd for 81.9 km (9 km north of Pemberton to Lillooet). Road closed. Estimated time of opening not available. Assessment in progress

King George Blvd., northbound. Bridge closed at Nicomekl Bridge. Assessment in progress. Please use alternate route

## UTILITIES IMPACTED

### BC Hydro

- 2021NOV18 1318 hrs update - There are currently 350 customers without power within the Lower Mainland and Sunshine Coast remain without power due to flooding, mud/snow slides and trees down on wires
- [BC Hydro bill help for BC Residents who are evacuated](#)
- **For more information:** <https://www.bchydro.com/power-outages/app/outage-list.html>
- Urgent repairs are required in the Tank Hill area on our distribution line that is currently servicing our customers from Lytton to Spuzzum. As a result, customers in the area will be without power from 1500-1900 hrs on 2021NOV18 afternoon. This work is necessary to stabilize and support our pole structures, to avoid future unplanned outages and to coordinate and provide safety for the Ministry of Transportation and Infrastructure and CP Rail, as part of their reconstruction efforts

## • BC Hydro Alerts

- Cheakamus Dam Spill Notice of Cancellation – 2021NOV17 at 0930hrs - Present conditions are favourable and flows are expected to decrease

## Enbridge Inc.

- Due to heavy rainfall and increasing river flows, Enbridge has shut down a segment of 30-inch natural gas pipeline in the Coquihalla river valley on the morning of 2021NOV16 as a precautionary measure. The 36-inch natural gas pipeline remains in operation.
- Continuing to monitor the situation and will take further action should they become necessary.

## USEFUL LINKS/RESOURCES

[EMBC Current Flooding Information](#)

[River Forecast Centre](#)

[Drive BC](#)

[Environment Canada](#)

[Avalanche Canada Weather Forecast](#)

[BC Hydro](#)

[Disaster Financial Assistance Website](#)

## APPROVED BY:

*Original signed by*

Debbie Alexander

**PREOC Deputy Director**

**Note:** Information contained in this situation report is for operational purposes only. The contained information is not meant for public information. If you wish you use contained information for a media release, you must clear it with the PREOC Director.

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Thank you,

**Lexi Shinde**

**Liaison 1**

**Southwest Regional PREOC**

**Emergency Management British Columbia**

14292 Green Timbers Way  
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**South West Provincial Regional Emergency Operations Centre (SWE PREOC)****SITUATION REPORT #5****Event: Atmospheric River****Date/Time Issued:** 2021-11-18; 1700hrs**Task #:** 223862**Operational Period:** 2021-11-18**Primary PREOC Email:** [preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)**Primary PREOC Phone:** 778-572-3962**Primary PREOC Fax:** 604-586-4083**Overall Regional Situation:** Static

Activated EMBC Staff: 13

Activated TEAMS: 5

Agency: 11

Other: 4

Remote: 3

**The next Situation Report will be issued:** 2021-11-19 at 1700hrs**The next Coordination Call will be:** 2021-11-19 @ 1100hrs

\*\* New information

**KEY PROVINCIAL INFORMATION**

- The Southwest PREOC is activated to support communities affected by flooding and landslides caused by the Atmospheric River
- On 2021NOV17 the BC government declared a provincial state of emergency to mitigate impacts on transportation networks and 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 British Columbia
- On 2021NOV17 Search & Rescue (SAR) - Task Force 1 has been deployed to assist with the rescue of stranded evacuees of the Sumas Prairie region of Abbotsford
- As a result of the severe weather events, EMBC has approved Disaster Financial Assistance (DFA) for flooding in the Vancouver Island, Southwest and Central regions of the province, including First Nation communities, electoral areas and municipal areas within these regions

**KEY REGIONAL INFORMATION****Regional Summary**

Local Authorities	# SOLEs	# BCRs	# Orders	# Alerts	# RCs	ESS Reg to date	# GL	# in GL current
City of Abbotsford	1		4	4	1	780	1	54
City of Chilliwack	1		4	1	1	929	1	160
District of Kent	1		1		2			
District of Sechelt 2019 Seawatch	1		1					
Fraser Valley Regional District	1		5	1				
Hope					1			
Mission	1		1		1	15		
Sunshine Coast Regional District	1		1	1				
Village of Harrison Hot Springs	1							
<b>TOTAL</b>	<b>8</b>	<b>0</b>	<b>17</b>	<b>7</b>	<b>6</b>	<b>1724</b>	<b>2</b>	<b>214</b>



## River Forecast Centre

UPDATE: 2021NOV17 at 1730 hrs

The River Forecast Centre is maintaining the following advisories:

Sumas River and areas around the US Border – Flood Warning (MAINTAINED)

Chilliwack River – High Streamflow Advisory (MAINTAINED)

The Following advisories are downgraded:

Fraser Valley – High Streamflow Advisory (DOWNGRADED)

Fraser Canyon – High Streamflow Advisory (DOWNGRADED)

The following advisories are ended:

Coquihalla River – High Streamflow Advisory (ENDED)

Most streams throughout the region have continued to recede following the 2021Nov13-15 atmospheric river event; those systems with lake or reservoir-fed watersheds are experiencing a slower recession as water continues to move through these systems. Areas close to the Sumas River continue to experience high water conditions. Favourable weather conditions in the short term indicate that rivers and streams will continue to recede and recover from this historic event

## Fraser River Debris Trap Update

### ADVISORY

An increase in logs and large woody debris may be experienced on the Lower Fraser River, downstream of Agassiz through Saturday 2021NOV20

Recreational boaters, marine traffic and infrastructure operators should be aware that more logs than normal may be floating downstream due to decreased performance of the Fraser River Debris Trap. Based on new aerial images today, 2021NOV17, high debris volumes have misaligned the booms that direct debris into the Trap. Contractors are inspecting and attempting to realign the booms today, but repairs are expected to take longer

Normally, the Fraser River Debris Trap diverts up to 70% of the woody debris coming downstream near Agassiz before it flows into the lower reaches of the Fraser. Although there is always some volume of logs and floating debris in the River, an increase in the number of floating logs getting past the Debris Trap is anticipated

## ENVIRONMENT CANADA WEATHER FORECAST FOR – 2021NOV18

### Abbotsford

Friday AM Clearing in the morning. Increasing cloudiness in the afternoon. Fog patches in the morning. High 7

Friday PM Cloudy with 30 percent chance of showers. Low plus 2

Saturday AM A mix of sun and cloud with 60 percent chance of showers. High plus 5

Saturday PM Cloudy. Low plus 4

### Pemberton

Friday AM Sunny. Wind up to 15 km/h. High plus 1. Wind chill minus 7 in the afternoon

Friday PM Cloudy with 60 percent chance of flurries. Low minus 7

Saturday AM Flurries or rain showers. High plus 1

Saturday PM Cloudy with 40 percent chance of showers. Low zero

There are currently no weather alerts

## FIRST NATIONS

### Chawathil First Nation:

- **Incident:** Flooding
- EOC activated for flooding
- 12 homes have flooded

### Kwikwetlem First Nation:

- **Incident:** Flood Alert
- Advised that they have rescinded their Flood Alert as levels have dropped down safely enough to rescind
- Put on flood alert 2021NOV15 from BC Hydro Dams
- EOC activated 2021NOV15

### Leq'á:mel First Nation:

- **Incident:** Flooding
- Virtual EOC activated 2021NOV15 due to flooding and 1,000 sandbags requested

### Lower Stl'at'imx (LSTC):

- **Incident:** Heavy rain caused multiple landslides closing roads and affecting power to Douglas, Samahquam, and Skatin
- Power has been restored to Samahquam
- In-SHUCK-ch FSR - Road access to north to Pemberton has not been established for all communities

### Lytton First Nation/Camp Hope

- **Incident:** Activated in support of evacuees located at Camp Hope. Additional accommodation may be available at Camp Hope
- Supporting stranded motorists in Hope
- Food supplies from Camp Hope for Lytton evacuees and First Nation communities is provided for approximately 400+
- Power is back on
- Advance planning for food and medical supplies, energy needs

### Matsqui First Nation:

- **Incident:** Localized flooding on IR 2 and IR 4
- Requested sandbags and sand due to localized flooding on IR 2 and IR 4

### Musqueam First Nation:

- **Incident:** Flooding
- EOC activated 2021NOV17 due to flooding

### Peters First Nation:

- **Incident:** Flooding
- EOC activated 2021NOV14 for flooding

### Seabird Island

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- Group lodging was set up for stranded motorists. Breakfast and lunch provided for 8 truck drivers
- Transported the 8 truck drivers that stayed at Seabird to Agassiz to the Agricultural Hall EOC/ESS

- Kamp Road off of Seabird Island Road released flood waters into Maria Slough causing major impact
- Currently Seabird Island has endured flooding of several homes and is still in high water advisory. Crews are assessing damage
- Due to access egress concerns in regard to surrounding highways, it is unknown when fuel will be delivered to the Seabird Island Gas station. Currently there is 12,000 liters of fuel. Public Works/Operations are fueled up, however it has been forecasted that Seabird and surrounding areas will be out of fuel by Thursday
- The emergency generator for the community water system is working. Unable to have a secondary unit delivered due to access on local highways
- TELUS fiber connection from Hope is not functional, temporarily lost communication
- Working to mitigate and dry flooded basements within the community, water diversion and sand bagging and to ensure that the community has enough food and supplies in anticipation of food shortages

#### **Shxw̓ha:y Village First Nation**

- **Incident:** Flooding
- EOC is activated today 2021NOV17 in support of the flooding and landslide response in the region

#### **Shsw'ow'hamel First Nation**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Skawahlook First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Soowahlie First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- Currently no power or water due to flooding activity since 2021NOV14

#### **Spuzzum First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding
- Flooding is impacting drinking water in community
- Ongoing – drinking, sanitation and fire fighting water has been impacted. Intake dam is not working so there is no potable water
- Currently trucking water into the water system to make potable water as intake inspections and repairs happen
- Intake issues have not been resolved yet. More heavy equipment needed 2021NOV19
- Intake lines will need to be flushed, as debris from high waters have clogged the intake main
- Food was delivered to the community by helicopter
- Continue to work on the intake system to get water flowing to the treatment plan
- Road repairs after washouts are preventing access to the intake
- Livestock feed concerns
- Food supply concerns

#### **Squamish First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Sts'ailes First Nation:**

- **Incident:** Flooding
- Fleetwood Mt Rd was badly washed out and there is concern for an accompanying pipe which provides drinking water to 600 people in Sts'ailes

- Currently 2 flooded houses and 1 mobile home with water underneath. Community is currently out of sandbags

#### Sumas First Nation

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding

#### LOCAL AUTHORITIES

##### Abbotsford:

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding
- **Alerts: 4**
  - Issued 2021NOV15 for 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 Properties)
  - Issued 2021NOV14 for Clayburn Area: Clayburn Village and surrounding area (30 Properties)
  - Expanded 2021NOV15 (2 Alerts) for Sumas Prairie: Westside of Whatcom Road, East of Huntingdon Village, Southside of Vye Road; Westside of Sumas Way to West of Riverside Road, East of Sumas River Dike to Boundary Road (140 Properties)
  - The Evacuation Alert issued on 2021NOV14 for Matsqui Village: Grace Road North to the Matsqui Slough (12 Properties) was rescinded on 2021NOV17 at 2200hrs
  - The Evacuation Alert issued on 2021NOV14 for Eagle Mountain Area: Cranberry Court, Briarwood Place, Doneagle Place (12 -15 Properties) was rescinded on 2021NOV17 at 2200hrs
  - The Evacuation Alert issued 2021NOV14 for Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road (30 Properties) was rescinded on 2021NOV17 at 2200hrs
  - The Evacuation Alert which was expanded on 2021NOV15 for Straiton Areas: Dawson Road East of Sumas Mountain Road, Straiton Road between Old Clayburn Road and Sumas Mountain Road (60 Properties) was rescinded on 2021NOV17 at 2200hrs
- **Properties Alerted:** 1870
- **Orders: 4**
  - Issued 2021NOV15 (2 Orders) for Straiton Road (7 Properties, 15 properties)
  - Issued 2021NOV15 for Sumas Prairie including the area bordered by: Sumas Mountain, and Yale Road to the North, the US border to the South, the Sumas River dike to the East and Sumas Way to the west (619 properties). On 2021NOV17 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
  - Issued 2021NOV16 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 properties)
- **Properties Ordered:** to be confirmed
- **State of Local Emergency: 1** – issued 2021NOV15 and expires 2021NOV23 at midnight
- **Reception Centre(s): 1**, Tradex, 1190 Cornell Street (RC and GL - hours of operation: 24/7)
- **Individuals Registered with ESS:** 780 registered to date, 54 persons in group lodging
- Samaritan Purse has arrived and are on site with a day team and a night team
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to [Local Government website](#) for list of closures

##### Bowen Island:

- **Incident:** Flooding
- EOC was activated 2021NOV15 and stood down on 2021NOV15 at 1600 hrs

#### Chilliwack:

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding causing travellers to be stranded
- **Alerts: 1**
  - Issued 2021NOV16 Yarrow, from Boundary Road to Browne Road, and from the Vedder River to Majuba Hill Road
- **Orders: 4**
  - Issued 2021NOV17 at 1100hrs for property at 47000 block of Yale Road
  - Issued 2021NOV17 at 1100hrs for property at 43000 block of Old Orchard Road
  - Issued 2021NOV16 at 0930hrs for Yarrow, from Boundary Road to Browne Road, and all of Majuba Hill
  - Issued 2021NOV15 at 1230hrs for 4 properties on Yale Road and 3 properties on Chartwell Drive
- **State of Local Emergency:** 1, Expanded 2021NOV16 expires 2021NOV23 at midnight
- **Reception Centres:** 1, Chilliwack Landing Sports Centre, 45530 Spadina Avenue
- **Individuals Registered with ESS:** 929
- **Group Lodging Facilities:** 1, Evergreen Hall, 9291 Corbould Street (160 Registered)
- On 2021NOV16 the State of Local Emergency that was declared on 2021NOV15 for areas of the 47000 block of Yale Road and the 47000 block of Chartwell Drive was cancelled. On 2021NOV16 a State of Local Emergency was declared for the City of Chilliwack
- ~2800 people were evacuated
- If capacity is exceeded at the Chilliwack Landing Sports Centre and Evergreen Hall, 2 additional facilities with a collective capacity of 400 have been identified for use
- Fuel shortages are becoming a concern to Chilliwack General Hospital in terms of home care workers travelling to patients
- Reports of some gas stations having to close due to supply chain issues
- Reports of supply chain issues with grocery stores
- Some poultry and dairy operations with minor to moderate impacts have been reported. The EOC developed and implemented an entry plan for all suppliers and farmers to provide fuel and feed to farms in affected areas
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

#### Coquitlam:

- **Incident:** Flooding
- EOC activated 2021NOV17 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
- Coquitlam Animal Shelter has capacity to temporarily shelter domestic animals for evacuees or other shelter organizations that have exceeded their capacity

#### Delta:

- **Incident:** Heavy rain caused localized flooding throughout areas of Delta
- EOC Activated in response to issues related to flooding and high winds
- Supporting Abbotsford's Registration & Group lodging Facilities
- Monitoring and maintaining drainage infrastructure

#### Fraser Valley Regional District:

- **Incident:** Heavy rainfall causing overland flooding and mudslides
- **Alerts: 1**
  - Issued on 2021NOV15 at 1530hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 7 properties on Obyrne Road

- **Properties Alerted: 7**
- **Orders: 5**
  - Issued 2021NOV15 at 1630 for Cultus Lake, FVRD Electoral Area "H" for 17 properties on Lakeshore Drive
  - Issued 2021NOV15 at 1230hrs for Chilliwack River Valley Electoral Area "E" for 13 properties on Chilliwack Lake Road and 8 properties on Wilson Road
  - Issued 2021NOV15 at 0915hrs for Othello Road, FVRD Electoral Area "B" for 3 properties on Fish Camp Road and 5 properties on Othello Road
  - Issued 2021NOV14 at 1130hrs for Bridal Falls Area, FVRD Electoral Area "D" for 1 property on Bridal Falls Road (24 people)
  - Issued 2021NOV15 at 0030hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 4 properties on Auchenway Road
- **Properties Evacuated: 51**
- **State of Local Emergency: 1** - declared 2021NOV14 at 2230 for all Electoral Areas of the FVRD to remain in force until 2021NOV21 at midnight
  - The Wilson Road dike, Elbow Creek dike have been overtopped and damaged. Engineering Assessment for emergency dike inspection required
  - Geotechnical assessment underway for Hood Rd/Lyarden Rd due to slide debris concerns
  - Geotechnical assessment on Baker Trail Debris Catch Basin completed
  - A hydrotechnical assessment is being conducted to help inform evacuation order status on Wilson Road and Chilliwack Lake Road
  - Geotechnical assessment underway to understand the evacuation alert status on Obyrne Road
  - Need diesel for generators for water systems in Northbend and Boston Bar as power is out. This will be needed or there will be no water for fire protection and potable water. The FVRD's utility operator has been trapped in Boston Bar for several days and needs to be relieved and replaced with a new operator

#### **Village of Harrison Hot Springs:**

- **Incident:** Flooding along the Miami Slough
- **State of Local Emergency: 1** – declared 2021NOV15 for the Village of Harrison Hotsprings and expires 2021NOV22 at midnight
- EOC activated on 2021NOV15 due to localized flooding along the Miami Slough
- Sewage is backing up and lift stations cannot keep up to the demand

#### **District of Hope:**

- **Incident:** Multiple people stranded by highway closures
- **Reception Centre(s):** 1, Hope Secondary School, 444 Stuart St, Hope (hours of operation: 24/7 – warming centre)
- **Individuals Registered with ESS:** unknown
- Multiple churches have opened to provide support as needed
- Currently no food in town due to no power. Stores/restaurants closed
- Meals flown in via helicopter 2021NOV16 and provided by Salvation Army – Food and cot delivery continued today, 2021NOV17
- The EOC was relocated to the hospital

#### **District of Kent:**

- **Incident:** Landslide threatening people and property along Rockwell Drive
- **Orders:** 1, Issued on 2021NOV15 for Rockwell Drive, Rockwell Lane, Rockwell Place, Pirates Lane, Thunderbird Crescent, and Dogwood Lane
- **State of Local Emergency:** 1 – declared 2021NOV14 for Rockwell Drive and expires 2021NOV21 at midnight
- **Properties Evacuated: 6**
- **Reception Centre(s):** 2, (Harrison Hot Springs Resort Hotel; Agassiz Agricultural Hall, 6800 Pioneer Avenue (for evacuees from the Hwy #7 slides))
- **Individuals Registered with ESS:** number unconfirmed

- Multiple landslides on Rockwell Drive (6500, 6900 and 7000 blocks). The road is blocked at the intersection of Lillooet Road. Clearing of Rockwell Drive is in progress
- All properties on Rockwell Drive corridor have been placed on Evacuation Order. The reception centre has been moved from the Morrow Road location and evacuees are being directed to go to the Harrison Hot Springs Resort Hotel.
- Water is receding in the Kamp Road area
- Flood pumps at Hammersley Pump Station are again running. Pumping capacity has increased in Harrison Mills with the addition of a rental pump
- **Incident:** Hwy 7 landslide
- Approximately 275 people rescued from Highway 7 2021NOV15
- Crews are working to make access through the slide area
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

#### **Langley, Township of:**

- **Incident:** Mudslide threatening people and property
- **Properties Evacuated: 1**
- **Individuals Registered with ESS: 2**
- Crew mobilized to repair slope at 7800 block of 264 St and to repair bridge wingwall washout at 23600 block of 64 Ave
- Dozens of hay bales from flooded properties in Fort Langley are ending up in the Salmon River and impacting the flood boxes of the dike station. Crews and contractors are mobilized to remove the hay bales
- Interim repairs are in progress for 40 Avenue as per geotechnical recommendations
- Monitoring Jacob Haldi Bridge between Fort Langley and Kwantlen First Nations / Metro Vancouver Regional Park for debris getting stuck at the bridge that is flowing down the Fraser River
- Rainfall caused wide spread flooding on public and private property, as well as parks and trails, and sewer lift stations
- Multiple roads impacted due to flooding

#### **Maple Ridge:**

- **Incident:** Localized flooding on Alouette River
- EOC was activated 2021NOV15 and stood down on 2021NOV17 at 1600 hrs
- Monitored South Alouette, North Alouette and Fraser River flows
- The Fraser River levels continue to drop and the Sanitary Sewer Overflow (SSO) event will transition from an EOC event to an operational response
- Continuing visual inspections along South and North Alouette River

#### **Metro Vancouver Regional District:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding
- Liquid Waste Services is reporting 8 sewer overflows, and all Wastewater Treatment Plants have had power restored and are operating normally, and within the regulated requirements. Cariboo Dam has been able to manage flows through the Still Creek drainage system throughout the event with minor flooding
- Water Services is monitoring its Dams and is managing turbidity concerns
- Regional Parks currently have 6 parks closed due to flooding conditions, and power has been restored to all locations interrupted 2021NOV15
- Solid Waste Services is reporting all Recycling & Waste Facilities are reopened to full operations. Coquitlam Landfill had an overflow of surface water, which has since been contained and repairs are ongoing to the berm that was damaged

- Gaining situational awareness of impacted infrastructure. Assessing damages and planning for repair or mitigation strategies as required
- **Road Closures:**
- 56th Ave @ 176th Street, Surrey – Partial lane closure
- Blundell & Gilbert, Richmond - Alternating traffic (local traffic only)

#### **Mission:**

- **Incident:** Localized flooding and mutual aid
- **Orders:** 1, Issued 2021NOV16 for 8 properties located on the 8400 block of Bembow Street in Hatzic (8 properties)
- **Properties Evacuated:** 8 properties
- **State of Local Emergency:** 1, Issued 2021NOV16 to expire on 2021NOV23 at midnight
- **Reception Centre(s):** 1, Virtual
- **Individuals Registered with ESS:** 15
- EOC activated due to localized flooding and to provide mutual aid to Abbotsford
- On 2021NOV16 a State of Local Emergency and an Evacuation Order were issued for properties on Bembow Street in Hatzic
- Remote Mission EOC/RC currently processing extensions for families under Evacuation Order in Hatzic - Benbow
- ESS requested to support District of Kent with evacuees airlifted from between the mudslides on Highway 7 (50 cots sent to Kent from Mission supply) - Virtual RC will be processing vouchers for Kent evacuees through Mission's virtual RC
- Some road closures continue
- Completing daily assessments of Benbow Street (Mission)
- Continuing to partner with Public Works and City media staff to provide accurate Alertable notifications for road closures
- Two residences on King Avenue are isolated due to complete road wash out

#### **New Westminster:**

- **Incident:** Localized flooding
- EOC standing down 2021NOV17

#### **Pemberton:**

- **Incident:** Flooding
- EOC activated 2021NOV15 due to flood activity
- Stranded travellers from the Hwy 99/Duffy Lake Road mudslide in the Pemberton area continue to be impacted by highway closures. The Pemberton and District Community Centre has seen an influx in those requiring use of shower facilities. Lil'wat Nation has also seen a significant number of travellers sleeping in their vehicles at the Chevron Gas Station and camping in multiple different locations
- Connection has been made with additional travellers requiring ESS and other services
- 11 individuals have been provided lodging, food and other referral supports
- As localized flooding is taking some time to drain, damage and impacts to trails and infrastructure is still unknown

#### **Pitt Meadows, City of**

- **Incident:** Heavy rainfall has resulted in multiple roads flooding
- EOC stood down on 2021NOV17
- The City has progressed to a routine clean up stage following the event
- Localized flooding was experienced in the Bordertown area, however 224th is open and water appears to be subsiding
- Roads have reopened throughout Pitt Meadows
- The BC Hydro Alouette Dam peak occurred with little consequence to Pitt Meadows
- Pumps continue to operate at full capacity
- Continued dike inspections



#### **Port Coquitlam:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding
- Localized flooding has subsided. Drainage infrastructure was at a maximum capacity and now is continuing to lower
- Liverpool sanitation backups cleared back to normal flow
- Sand and bags are available to residents at Public Works Yard

#### **Squamish Lillooet Regional District:**

- **Incident:** Flood threat to properties
- **Alerts: 0**
- EOC activated 2021NOV15 due to flood threat to properties and water levels continue to rise
- The evacuation alert issued on 2021NOV15 for Tunnel Station/Upper Paradise Valley – Electoral Area D was rescinded 2021NOV16
- A geotechnical engineer will be in the Jason Creek area again 2021NOV18, continuing their survey of the creek system in the Reid Road and Walkerville areas where damage has been observed. As the area is heavily treed and the upper reaches are inaccessible by foot, the plan is for a drone flight to the upper reaches of the two creeks. Initial findings from 2021NOV17 is that there is further debris available to come downstream in the next heavy rain event, and at the furthest point able to be surveyed on foot today, the creek is still running black, indicating further debris available upstream of this point
- The SLRD is working with MFLNRORD and MoTI for urgent access improvements to the McKenzie FSR and Reid Road
- The EOC has requested advice from the SWE PREOC as to how to mitigate the risk upstream of the Reid Road washout. Terrain is steep, treed, and heavy machinery access may not be possible or with specialized machinery only
- On 2021NOV15 Pemberton Fire Rescue Service advised the SLRD EOC that a mudslide occurred in the vicinity of 1773 Reid Road, inundating the road approx. 1m deep due to a steep creek debris flow
  - MoTI and contractor attended the road washout 2021NOV16, cleared debris, and report that there is now approximately an 8 foot trench in the road. The culvert will likely need to be removed and replaced due to age and damage
  - MFLNRORD conducted an aerial survey of the S2S area 2021NOV16
- 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 at this time
- EOC Information Officers continue to receive a volume of media and public enquiries, and to publish regular updates

#### **Squamish District**

- **Incident:** Localized flooding due to heavy rainfall. Waste Treatment Plant overflowing
- EOC activated 2021NOV15 due to localized flooding concerns
- A Geotech assessment is being arranged to determine the extent of the damage and next steps on the Mamquam – Ring Creek Road. As of 2021NOV17, the fracture is approximately 500m long
- Paradise Valley residents reported access and egress challenges on the gravel section of Paradise Valley Road near the Jack Webster bridge. District Public Works assessed the situation and sent a grader to improve the road
- A sinkhole in the Squamish River dike near the Kowtain reserve is being assessed and monitored. Squamish Nation has been engaged

#### **Sunshine Coast Regional District**

- **Incident:** Localized flooding due to heavy rainfall
- **Alerts: 1**
- Issued 2021NOV15 for 14 properties on Ocean Beach Esplanade and Lower Road (2 properties placed on order 2021NOV16)
- **Properties Alerted: 12**
- **Orders: 1**
- Issued 2021NOV16 for 2 properties on Ocean Beach Esplanade

- **Properties Evacuated: 2**
- **State of Local Emergency: 1**, Issued 2021NOV15 expires 2021NOV22 for Electoral Areas A, B, D, E and F
- EOC activated 2021NOV15 due to localized flooding
- Day Road now accessible
- Contractor at Whitaker Creek responding to debris flow with excavator
- Reed Rd water main fixed
- Roberts Creek Campground road needs attention and site visit occurring for emergency vehicle access
- 5 waste water treatment plants are functioning poorly; no public health risk
- Chapman Creek Water Treatment Plant continued issues with intake. Continuing to monitor
- 3 dams assessed and no apparent concerns
- The 2 properties placed on evacuation order 2021NOV16 are not occupied. Only 2 of the 14 homes placed on evacuation alert 2021NOV15 are occupied
- Reports of continued erosion on numerous private properties
- 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. Fortis attempted to secure gas lines to a steel I-beam, which was too short, so is held in place by cranes
- Fortis rerouting exposed gas line on Lower Road
- Working to protect water supply/infrastructure for public health and fire flow (Chapman Creek main, water mains, McNeill Lake dam, Grantham's pump station)
- Working to protect public health / manage impacts of WWTP failure (notifications)
- Addressing current areas of no road access (washout occurred)
- Addressing potential areas of no road access (impending washout)
- Promoting public safety (park closures, awareness of issues/avoid unnecessary travel)
- Boil water advisories issued (2021NOV15 at 1330)

#### **Surrey:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding
- Crews are continuing to clean up and repair roads that have been washed out, replace flood boxes and restore spillways that have been damaged. They are also assessing damage to some pump stations due to flooding
- An individual who resides in the interior is stranded in Surrey and has reached out to the ESS team for support
- Firefighters and ESS volunteers sent to Abbotsford for support

#### **Translink:**

- Translink has activated their Emergency Coordination Centre in response to flooding impacts
- Managing consequences for supply chain issues to ensure continued essential public transit services

#### **Vancouver, City of**

- **Incident:** Flooding
- EOC activated 2021NOV17 for flood support

#### **Whistler:**

- **Incident:** ESS host community

### **AGENCIES**

#### **Ministry of Transportation and Infrastructure (MoTI):**

- MoTI South Coast Region has activated their Ministry Operations Centre and District Operations Centre

#### **Vancouver Fraser Port Authority (VFPA):**

- Communications issues are resolved

- All rail service coming to and from the Port of Vancouver is halted; impacts to supply chain anticipated but unknown at this time; waiting on damage assessment to rail lines and timeframe for re-opening to have a clearer picture on impacts
- Vessel delays and heightened anchorage demand are expected due to disruptions to terminal operations. VFPA are working closely with their terminal operators, railways, and all levels of government to understand the impacts of these delays on terminal operations and to develop a recovery plan
- Freshet-like conditions seen on the Fraser River: request to ship masters to exercise additional caution; potential for overhead clearances being less than advertised on CHS Charts and increased wood debris/heightened shoreline damage from a vessel's wake; additional tug support may be requested to ensure safe passage to and from berth to avoid accumulated debris
- Real-time insights into Port of Vancouver operations can be accessed through the PortVan eHub app, which can be downloaded at <https://www.portvancouver.com/port-dashboard/ehub-app/> or through the App Store. Daily updates on import rail performance and weekly updates on truck terminal turn time performance are available through the port authority's website <https://www.portvancouver.com/port-dashboard/>

## HEALTH INFORMATION

**No impacts reported**

## LIVESTOCK IMPACTED

### Ministry of Agriculture Updates:

- In SWE, 44 regulated poultry premises under order, 17 under alert. Representing ~2.2 million birds
- In SWE, 59 regulated dairy operations under order, 3 under alert. Represents a total of 22,000 cows
- On the Sumas Prairie, 20 dairy operations requesting immediate support for deliveries of water and, secondarily, feed. Represents approximately 5,700 dairy cows
- On the Sumas Prairie, 19 poultry operations requesting immediate support for deliveries of water and feed
- AFF staff are liaising with Abbotsford EOC to permit re-entry to farms
- AFF staff are working with BCWS to provide water deliveries by air
- Request that agriculture operations be included as an essential service to ensure prioritised road access for agricultural operators, feed, water, waste and milk trucks (request has been submitted to MOTI)
- Hearing concerns from agriculture operations and associated essential service providers not being able to reach farms due to traffic congestion on roads (especially Hwy 7)

## TRANSPORTATION IMPACTED

### Drive BC

Highway 1 Both Directions - Highway 1, in both directions. Mudslide between Annis Rd and K St for 38.4 km (Hope to 2 km east of Chilliwack). Road closed. Estimated time of opening not available. Assessment in progress

Highway 1, in both directions. Flooding between Flood Hope Rd and Junction Hwy 8 for 144.3 km (Hope to Spences Bridge). Rockslide. Road closed. Assessment in progress. Estimated time of opening not available

Highway 1, in both directions. Flooding between Exit 90: McCallum Rd and Exit 109: Yale Rd for 20.1 km (Abbotsford to Chilliwack). The road is closed. Estimated time of opening not available. Assessment in progress

Highway 3 Both Directions. Mudslide at Sunshine Valley (17 km east of Hope). Road Closed. Assessment in progress. Estimated time of opening not available

Highway 5, in both directions. Washout between Hope and Merritt. Road closed. Estimated time of opening not available. Detour not available. Damage assessment in progress. Multiple washouts

Highway 7, in both directions. Mudslide between Johnson Slough Rest Area and Ross Rd for 12.6 km (Kent to 1 km east of Hope). Road closed. Assessment in progress. Detour not available

Highway 7 Both Directions - Highway 7, in both directions. Mudslide between Highlands Blvd and Bodnar Rd (Kent). Flooding. Single lane alternating traffic. Watch for traffic control

Highway 11, in both directions. Flooding between Hazelwood Ave and Townshipline Rd for 2.9 km (Abbotsford). Road closed. Detour not available

Highway 99, in both directions. Mudslide between Lil'wat Pl and Seton Lake Rd for 81.9 km (9 km north of Pemberton to Lillooet). Road closed. Estimated time of opening not available. Assessment in progress

King George Blvd., northbound. Bridge closed at Nicomekl Bridge. Assessment in progress. Please use alternate route

## UTILITIES IMPACTED

### BC Hydro

- 2021NOV18 1318 hrs update - There are currently 350 customers without power within the Lower Mainland and Sunshine Coast remain without power due to flooding, mud/snow slides and trees down on wires
- [BC Hydro bill help for BC Residents who are evacuated](#)
- **For more information:** <https://www.bchydro.com/power-outages/app/outage-list.html>
- Urgent repairs are required in the Tank Hill area on our distribution line that is currently servicing our customers from Lytton to Spuzzum. As a result, customers in the area will be without power from 1500-1900 hrs on 2021NOV18 afternoon. This work is necessary to stabilize and support our pole structures, to avoid future unplanned outages and to coordinate and provide safety for the Ministry of Transportation and Infrastructure and CP Rail, as part of their reconstruction efforts

### - BC Hydro Alerts

- Cheakamus Dam Spill Notice of Cancellation – 2021NOV17 at 0930hrs - Present conditions are favourable and flows are expected to decrease

### Enbridge Inc.

- Due to heavy rainfall and increasing river flows, Enbridge has shut down a segment of 30-inch natural gas pipeline in the Coquihalla river valley on the morning of 2021NOV16 as a precautionary measure. The 36-inch natural gas pipeline remains in operation.
- Continuing to monitor the situation and will take further action should they become necessary.

## USEFUL LINKS/RESOURCES

[EMBC Current Flooding Information](#)

[River Forecast Centre](#)

[Drive BC](#)

[Environment Canada](#)

[Avalanche Canada Weather Forecast](#)

[BC Hydro](#)

**APPROVED BY:**

*Original signed by*

*Debbie Alexander*

Debbie Alexander

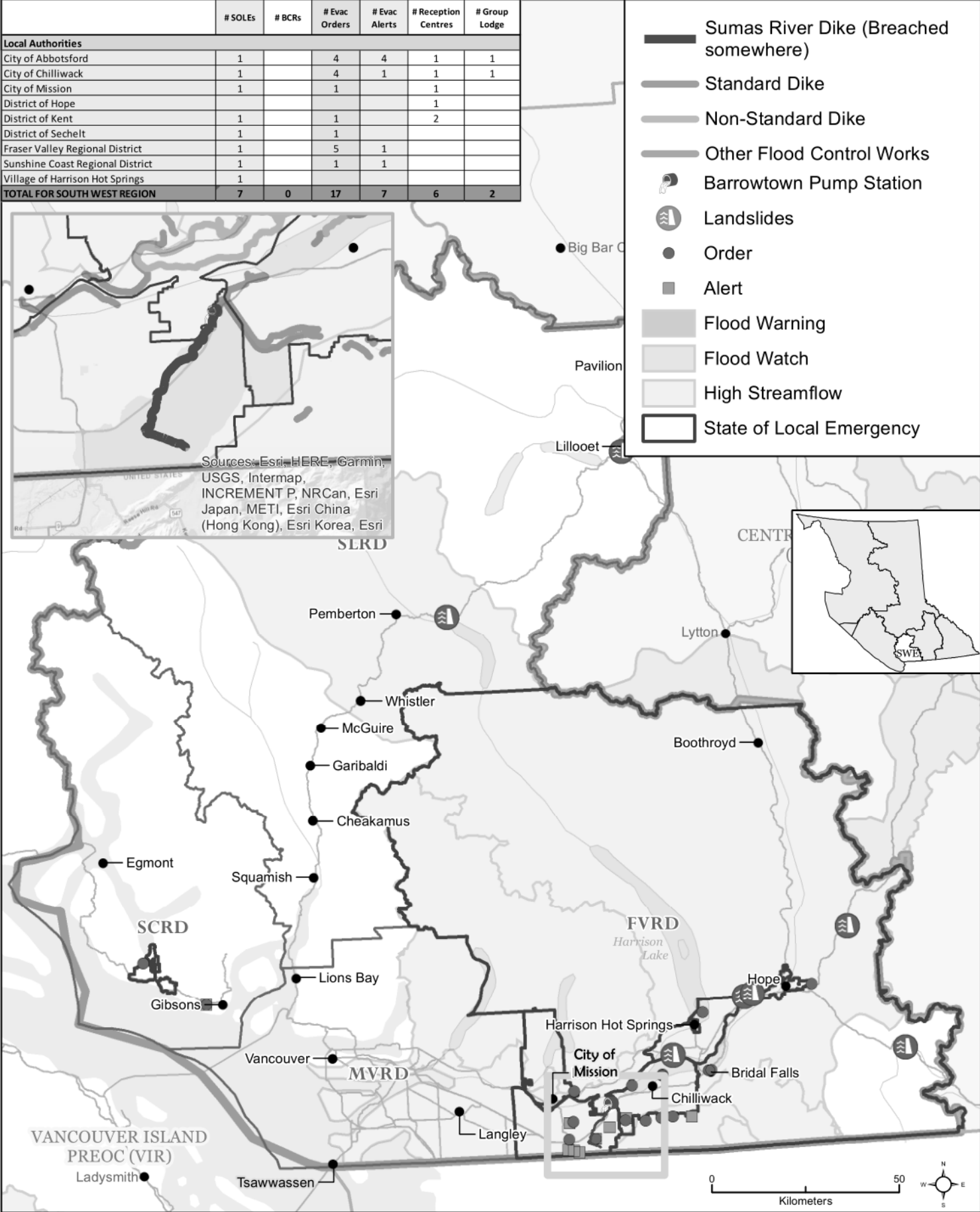
**PREOC Deputy Director**

**Note:** Information contained in this situation report is for operational purposes only. The contained information is not meant for public information. If you wish you use contained information for a media release, you must clear it with the PREOC Director.

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# South West (SWE) Provincial Regional Operational Centre (PREOC) Atmospheric River Events

2021-11-18



UPDATED 2021-11-18 Time: 15:23

File: \\spatial\\files.bcgov\\work\\ilmb\\PEP\\response\\SWE\\task223862\_ISC\_AtmosphericRiver\\arcgisprojects\\task223862\_sitmap\_8x11\_20211117.mxd

## Orange Weather Notification for Coastal BC - Return to wet weather

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From: preoc2.lia1@gov.bc.ca  
Sent: November 19, 2021 5:47:11 PM PST  
Attachments: image001.jpg, Orange\_Weather\_Notification-BCCoast\_WetPattern.pdf  
Good evening,

Forwarding on behalf of **Bobby Sekhon** at **Environment and Climate Change Canada**.

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Environment and  
Climate Change Canada

Environnement et  
Changement climatique Canada

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**Bobby Sekhon** on behalf of the **BC Services Team**

A/Warning Preparedness Meteorologist – I/Météorologue de Sensibilisation aux Alertes

Pacific Storm Prediction Centre | Le Centre de prévision des intempéries du Pacifique

Meteorological Service of Canada | Service météorologique du Canada

[baljit.sekhon@ec.gc.ca](mailto:baljit.sekhon@ec.gc.ca) | [f.MSA-Pacifique-WPM-Pacific.f@ec.gc.ca](mailto:f.MSA-Pacifique-WPM-Pacific.f@ec.gc.ca)

Tel : 604-314-0694 | Tél. 604-314-0694

Web Site: [www.weather.gc.ca](http://www.weather.gc.ca) | [www.meteo.gc.ca](http://www.meteo.gc.ca)

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Thank you,

**Lexi Shinde**  
**Liaison 1**

**Southwest Regional PREOC**

**Emergency Management British Columbia**

14292 Green Timbers Way  
Surrey, B.C. CANADA V3T 0J4

**Primary SWE PREOC contact**  
Phone 778-572-3962  
Email [preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)

PREOC Fax 604.586.4083

24 Hour Emergency Reporting 1.800.663.3456

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Environment and  
Climate Change Canada

Environnement et  
Changement climatique Canada

## **A Return to Wet November Weather**

Event Duration: Mon Nov 22 to Fri Nov 26, 2021

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Page 060 of 218 to/à Page 061 of 218

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## SWE Situation Report #6 and Map for 2021NOV19

From: preoc2.lia1@gov.bc.ca  
Sent: November 19, 2021 5:54:50 PM PST  
Attachments: SWE PREOC Situation Report #6 2021NOV19.pdf, Situation Map #6 2021NOV19.pdf

### South West Provincial Regional Emergency Operations Centre (SWE PREOC)

#### SITUATION REPORT #6

#### Event: Atmospheric River

Date/Time Issued: 2021-11-19; 1800hrs

Task #: 223862

Operational Period: 2021-11-19

Primary PREOC Email: [preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)

Primary PREOC Phone: 778-572-3962

Primary PREOC Fax: 604-586-4083

Overall Regional Situation: Static

Activated EMBC Staff: 13      Activated TEAMS: 7      Agency: 15      Other: 7      Remote: 4

The next Situation Report will be issued: 2021-11-20 at 1700hrs

The next Coordination Call will be: 2021-11-20 @ 1100hrs

\*\* New information

#### KEY PROVINCIAL INFORMATION

0. The Southwest PREOC is activated to support communities affected by flooding and landslides caused by the Atmospheric River
1. On 2021NOV17 the BC government declared a provincial state of emergency to mitigate impacts on transportation networks and 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 British Columbia
2. Search & Rescue (SAR) - Task Force 1 has been deployed on 2021NOV17. They are currently set up in the field to do rapid damage assessment for the west side of Sumas Prairie
3. As a result of the severe weather events, EMBC has approved Disaster Financial Assistance (DFA) for flooding in the Vancouver Island, Southwest and Central regions of the province, including First Nation communities, electoral areas and municipal areas within these regions
4. On 2021NOV19 the BC government made an [announcement](#) to prioritize fuel for essential vehicles and to introduce travel restrictions
  0. Non-essential vehicles, including the general public, will still have access to fuel available through retail gas stations. People will be limited to 30 litres per trip to the gas station
  1. Non-essential travel along severely affected highways is prohibited by an order for:
    - Highway 99: from the junction of Highway 99 and Lillooet River Road to the BC Hydro Seton Lake Campsite access in Lillooet. Only passenger vehicles and commercial vehicles up to 14,500 kilograms will be permitted.
    - Highway 3: from the junction of Highway 5 and Highway 3 in Hope to the west entrance to Princeton from Highway 3
    - Highway 7: from the junction of Highway 7 and Highway 9 in Agassiz to the junction of Highway 7 and Highway 1 in Hope

#### KEY REGIONAL INFORMATION

##### Regional Summary

Local Authorities	# SOLEs	# BCRs	# Orders	# Alerts	# RCs	ESS Reg to date	# GL	# in GL current
City of Abbotsford	1		4	4	1	780	1	54

City of Chilliwack	1		4	1	1	929	1	160
District of Kent	1		1		2			
District of Sechelt 2019 Seawatch	1		1					
Fraser Valley Regional District	1		5	1				
Village of Harrison Hot Springs	1							
Hope					0			
Mission	1		0		1	15		
Pemberton						12		
Sunshine Coast Regional District	1		1	1				
<b>TOTAL</b>	<b>8</b>	<b>0</b>	<b>16</b>	<b>7</b>	<b>5</b>	<b>1736</b>	<b>2.</b>	<b>214</b>

## River Forecast Centre

UPDATE: 2021NOV19 at 0745 hrs

The River Forecast Centre is maintaining the following advisory:

Sumas River including Sumas Prairie and surround areas – Flood Warning (MAINTAINED)

The following advisories are ended:

Fraser Valley, including the Chilliwack River – High Streamflow Advisory (ENDED)

River levels on tributary rivers through the region have receded to pre-event levels. Flows in lake-fed watersheds are slower to recede but have dropped below levels of concern. Flooding persists in the Sumas River and Sumas Prairie areas. Showers over the next few days are expected to be light, with limited contribution to flood level expected. Longer range rainfall is possible into next week and is continuing to be monitored for potential impacts to flood level. Overflow from the Nooksack River is not expected to contribute to the Sumas River drainage over the coming days, and the Nooksack River has dropped below flood level

## Fraser River Debris Trap Update

### ADVISORY

An increase in logs and large woody debris may be experienced on the Lower Fraser River, downstream of Agassiz through Saturday 2021NOV20

Recreational boaters, marine traffic and infrastructure operators should be aware that more logs than normal may be floating downstream due to decreased performance of the Fraser River Debris Trap. Based on new aerial images from 2021NOV17, high debris volumes have misaligned the booms that direct debris into the Trap. Contractors are inspecting and attempting to realign the booms, but repairs are expected to take longer

Normally, the Fraser River Debris Trap diverts up to 70% of the woody debris coming downstream near Agassiz before it flows into the lower reaches of the Fraser. Although there is always some volume of logs and floating debris in the River, an increase in the number of floating logs getting past the Debris Trap is anticipated

## ENVIRONMENT CANADA WEATHER FORECAST FOR – 2021NOV19

### Abbotsford

Sat AM Mainly cloudy with 60 percent chance of showers. High plus 5

Sat PM Cloudy with 30 percent chance of showers. Low plus 4

Sun AM Cloudy. High 6

Sun PM Increasing cloudiness. Low plus 3

### Pemberton

Sat AM Mainly cloudy with 60 percent chance of flurries or rain showers. High plus 1

Sat PM Cloudy with 30 percent chance of rain showers or flurries. Low zero

Sun AM Cloudy with 60 percent chance of showers. High plus 2  
Sun PM Cloudy with 30 percent chance of snow. Low minus 1

There are currently no weather alerts

## FIRST NATIONS

### Chawathil First Nation:

- **Incident:** Flooding
- EOC activated for flooding
- Water in flood zone slowly going down
- Was able to pick up food from Camp Hope, food needs ongoing
- There was a small fire when the power came back on
- 12 homes have flooded

### Kwikwetlem First Nation:

- **Incident:** Flood Alert
- EOC activated 2021NOV15
- Advised that they have rescinded their Flood Alert as levels have dropped down safely enough to rescind

### Leq'á:mel First Nation:

- **Incident:** Flooding
- Virtual EOC activated 2021NOV15 due to flooding and 1,000 sandbags requested

### Lower Stl'atl'imx (LSTC):

0. **Incident:** Heavy rain caused multiple landslides closing roads and affecting power to Douglas, Samahquam, and Skatin. Road now fully open on the west side
1. EOC was activated 2021NOV15 and stood down on 2021NOV18 at 1700 hrs
2. Telus optic cable has been severed at the 39km slide, repairs forthcoming
3. Stranded campers have left Tipella and made it to Pemberton
4. Power has been restored to Samahquam
5. In-SHUCK-ch FSR - Road access to north to Pemberton has not been established for all communities

### Lytton First Nation/Camp Hope

- **Incident:** Activated in support of evacuees located at Camp Hope. Additional accommodation may be available at Camp Hope
- Supporting stranded motorists in Hope
- Food supplies from Camp Hope for Lytton evacuees and First Nation communities is provided for approximately 400+
- Power is back on
- Advance planning for food and medical supplies, energy needs

### Musqueam First Nation:

- **Incident:** Flooding
- EOC activated 2021NOV17 due to flooding

### Peters First Nation:

- **Incident:** Flooding
- EOC activated 2021NOV14 for flooding

### Seabird Island

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- There are issues with telecommunications connectivity
- Concerns for food and fuel delivery

### Shxwha:y Village First Nation

- **Incident:** Flooding

- EOC is activated 2021NOV17 in support of the flooding and landslide response in the region

#### **Shsw'ow'hamel First Nation**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Skawahlook First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Soowahlie First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- Power is back on
- Community is under a boil water advisory
- Concern for long term food and water supply
- There is road access to Chilliwack

#### **Spuzzum First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding
- Water situation is currently stable, have water trucks as back up. With highway open, a water specialist was able to go on site
- There is currently no landline service (2021NOV19)
- Flooding is impacting drinking water in community
- Ongoing – drinking, sanitation and fire fighting water has been impacted. Intake dam is not working so there is no potable water
- Currently trucking water into the water system to make potable water as intake inspections and repairs happen
- Intake issues have not been resolved yet. More heavy equipment needed 2021NOV19
- Intake lines will need to be flushed, as debris from high waters have clogged the intake main
- Food was delivered to the community by helicopter
- Continue to work on the intake system to get water flowing to the treatment plan
- Road repairs after washouts are preventing access to the intake
- Livestock feed concerns, ongoing need for animal feed
- Food supply concerns, ongoing need

#### **Squamish First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Sts'ailes First Nation:**

6. **Incident:** Flooding
7. The school has been closed for the week due to staff travel issues
8. Fleetwood Mt Rd was badly washed out and there is concern for an accompanying pipe which provides drinking water to 600 people in Sts'ailes. Support for water pipe needed
9. Food needs ongoing, social assistance team sourced some food and will distribute it through the food bank

#### **Sumas First Nation**

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding
- Concern for long term food supply
- There is limited road access to Abbotsford
- People from a few homes have been displaced due to flooding
- Need for power to be restored on Kilgard Rd
- There was a fire on Sumas land but no other incidents were reported from fire as at 2021NOV17
- Sandbags arrived on 2021NOV17

#### **LOCAL AUTHORITIES**

## Abbotsford:

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding
- **Alerts: 4**
  - Issued 2021NOV15 for 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 Properties)
  - Issued 2021NOV14 for Clayburn Area: Clayburn Village and surrounding area (30 Properties)
  - Expanded 2021NOV15 (2 Alerts) for Sumas Prairie: Westside of Whatcom Road, East of Huntingdon Village, Southside of Vye Road; Westside of Sumas Way to West of Riverside Road, East of Sumas River Dike to Boundary Road (140 Properties)
  - The Evacuation Alert issued on 2021NOV14 for Matsqui Village: Grace Road North to the Matsqui Slough (12 Properties) was rescinded on 2021NOV17 at 2200hrs
  - The Evacuation Alert issued on 2021NOV14 for Eagle Mountain Area: Cranberry Court, Briarwood Place, Doneagle Place (12 -15 Properties) was rescinded on 2021NOV17 at 2200hrs
  - The Evacuation Alert issued 2021NOV14 for Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road (30 Properties) was rescinded on 2021NOV17 at 2200hrs
  - The Evacuation Alert which was expanded on 2021NOV15 for Straiton Areas: Dawson Road East of Sumas Mountain Road, Straiton Road between Old Clayburn Road and Sumas Mountain Road (60 Properties) was rescinded on 2021NOV17 at 2200hrs
- **Properties Alerted:** 1870
- **Orders: 4**
  - Issued 2021NOV15 (2 Orders) for Straiton Road (7 Properties, 15 properties)
  - Issued 2021NOV15 for Sumas Prairie including the area bordered by: Sumas Mountain, and Yale Road to the North, the US border to the South, the Sumas River dike to the East and Sumas Way to the west (619 properties). On 2021NOV17 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
  - Issued 2021NOV16 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 properties)
- **Properties Ordered:** to be confirmed
- **State of Local Emergency: 1** – issued 2021NOV15 and expires 2021NOV23 at midnight
- **Reception Centre(s): 1**, Tradex, 1190 Cornell Street (RC and GL - hours of operation: 24/7)
- **Individuals Registered with ESS:** 780 registered to date, 54 persons in group lodging
- Primary water intake at Noorish Creek is completely blocked with sediment. Working on engineering strategy. Currently drawing from much smaller secondary source at Canal Lake
- Samaritan Purse has arrived and are on site with a day team and a night team
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to [Local Government website](#) for list of closures

## Chilliwack:

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding causing travellers to be stranded
- **Alerts: 1**
  - Issued 2021NOV16 Yarrow, from Boundary Road to Browne Road, and from the Vedder River to Majuba Hill Road
- **Orders: 4**
  - Issued 2021NOV17 at 1100hrs for property at 47000 block of Yale Road
  - Issued 2021NOV17 at 1100hrs for property at 43000 block of Old Orchard Road
  - Issued 2021NOV16 at 0930hrs for Yarrow, from Boundary Road to Browne Road, and all of Majuba Hill
  - Issued 2021NOV15 at 1230hrs for 4 properties on Yale Road and 3 properties on Chartwell Drive
- **State of Local Emergency: 1**, Expanded 2021NOV16 expires 2021NOV23 at midnight
- **Reception Centres:** 1, Chilliwack Landing Sports Centre, 45530 Spadina Avenue
- **Individuals Registered with ESS:** 929
- **Group Lodging Facilities:** 1, Evergreen Hall, 9291 Corbould Street (160 Registered)
- On 2021NOV16 the State of Local Emergency that was declared on 2021NOV15 for areas of the 47000 block of Yale Road and the 47000 block of Chartwell Drive was cancelled. On 2021NOV16 a State of Local Emergency was declared for the City of Chilliwack
- ~2800 people were evacuated

- If capacity is exceeded at the Chilliwack Landing Sports Centre and Evergreen Hall, 2 additional facilities with a collective capacity of 400 have been identified for use
- Fuel shortages are becoming a concern to Chilliwack General Hospital in terms of home care workers travelling to patients
- Reports of some gas stations having to close due to supply chain issues
- Reports of supply chain issues with grocery stores
- Some poultry and dairy operations with minor to moderate impacts have been reported. The EOC developed and implemented an entry plan for all suppliers and farmers to provide fuel and feed to farms in affected areas

• **Road Closures:**

- Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

**Coquitlam:**

- **Incident:** Flooding
- EOC activated 2021NOV17 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
- Coquitlam Animal Shelter has capacity to temporarily shelter domestic animals for evacuees or other shelter organizations that have exceeded their capacity

**Delta:**

- **Incident:** Heavy rain caused localized flooding throughout areas of Delta
0. EOC Activated in response to issues related to flooding and high winds
1. Supporting Abbotsford's Registration & Group lodging Facilities
  2. Monitoring and maintaining drainage infrastructure

**Fraser Valley Regional District:**

- **Incident:** Heavy rainfall causing overland flooding and mudslides
- **Alerts: 1**
  - Issued on 2021NOV15 at 1530hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 7 properties on Obyrne Road
- **Properties Alerted: 7**
- **Orders: 5**
  - Issued 2021NOV15 at 1630 for Cultus Lake, FVRD Electoral Area "H" for 17 properties on Lakeshore Drive
  - Issued 2021NOV15 at 1230hrs for Chilliwack River Valley Electoral Area "E" for 13 properties on Chilliwack Lake Road and 8 properties on Wilson Road
  - Issued 2021NOV15 at 0915hrs for Othello Road, FVRD Electoral Area "B" for 3 properties on Fish Camp Road and 5 properties on Othello Road
  - Issued 2021NOV14 at 1130hrs for Bridal Falls Area, FVRD Electoral Area "D" for 1 property on Bridal Falls Road (24 people)
  - Issued 2021NOV15 at 0030hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 4 properties on Auchenway Road
- **Properties Evacuated: 51**
- **State of Local Emergency: 1** - declared 2021NOV14 at 2230 for all Electoral Areas of the FVRD and was extended on 2021NOV18 to expire on 2021NOV28
- Distribution of goods and medications to Boston Bar is a concern
- Cultus Lake pump station, Minter wastewater treatment plant generators damaged, damage assessment to be completed
- The Wilson Road dike, Elbow Creek dike have been overtopped and damaged. Engineering Assessment for emergency dike inspection required
- Geotechnical assessment underway for Hood Rd/Lyarden Rd due to slide debris concerns
- Geotechnical assessment on Baker Trail Debris Catch Basin completed
- A hydrotechnical assessment is being conducted to help inform evacuation order status on Wilson Road and Chilliwack Lake Road
- Geotechnical assessment underway to understand the evacuation alert status on Obyrne Road



- Need diesel for generators for water systems in Northbend and Boston Bar as power is out. This will be needed or there will be no water for fire protection and potable water. The FVRD's utility operator has been trapped in Boston Bar for several days and needs to be relieved and replaced with a new operator

#### Village of Harrison Hot Springs:

- **Incident:** Flooding along the Miami Slough
- **State of Local Emergency: 1** – declared 2021NOV15 for the Village of Harrison Hotsprings and expires 2021NOV22 at midnight
- EOC activated on 2021NOV15 due to localized flooding along the Miami Slough
- Sewage is backing up and lift stations cannot keep up to the demand

#### District of Hope:

- **Incident:** Multiple people stranded by highway closures
- **Reception Centre(s):** 0, Hope Secondary School, 444 Stuart St. Closed
- **Individuals Registered with ESS:** unknown
- Power has been restored on 2021NOV15 but communication issues still persist
- Limited damage to local infrastructure, known road impacts
- Some transport corridors open for essential traffic
- Reduced number of stranded travellers
- Food and fuel supplies holding and supply chains being re-established. Ongoing food/supply deliveries occurring at Hope airport
- Multiple churches have opened to provide support as needed

#### District of Kent:

- **Incident:** Landslide threatening people and property along Rockwell Drive
- **Orders:** 1, Issued on 2021NOV15 for Rockwell Drive, Rockwell Lane, Rockwell Place, Pirates Lane, Thunderbird Crescent, and Dogwood Lane
- **State of Local Emergency: 1** – declared 2021NOV14 for Rockwell Drive and expires 2021NOV21 at midnight
- **Properties Evacuated: 6**
- **Reception Centre(s):** 2, (Harrison Hot Springs Resort Hotel; Agassiz Agricultural Hall, 6800 Pioneer Avenue (for evacuees from the Hwy #7 slides))
- **Individuals Registered with ESS:** number unconfirmed
- Multiple landslides on Rockwell Drive (6500, 6900 and 7000 blocks). The road is blocked at the intersection of Lillooet Rd. Clearing of Rockwell Drive is in progress
- **Incident:** Hwy 7 landslide
- Approximately 275 people rescued from Highway 7 2021NOV15
- Crews are working to make access through the slide area
- Infrastructure such as lift stations and wastewater plants are operating at closer to normal levels
- Flood pumps at Hammersley Pump Station are again running. Pumping capacity has increased in Harrison Mills with the addition of a rental pump
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

#### Langley, Township of:

- **Incident:** Mudslide threatening people and property
- **Properties Evacuated: 1**
- **Individuals Registered with ESS: 2**
- Crew mobilized to repair slope at 7800 block of 264 St and to repair bridge wingwall washout at 23600 block of 64 Ave
- Dozens of hay bales from flooded properties in Fort Langley are ending up in the Salmon River and impacting the flood boxes of the dike station. Crews and contractors are mobilized to remove the hay bales
- Interim repairs are in progress for 40 Avenue as per geotechnical recommendations
- Monitoring Jacob Haldi Bridge between Fort Langley and Kwantlen First Nations / Metro Vancouver Regional Park for debris getting stuck at the bridge that is flowing down the Fraser River

#### Metro Vancouver Regional District:

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding
- Concern for solid and bio waste. Reaching capacity with no current mechanism to remove this from the region

#### **Mission:**

- **Incident:** Localized flooding and mutual aid
- **Orders:** 0, Issued 2021NOV16 for 8 properties located on the 8400 block of Bembow Street in Hatzic (8 properties) and rescinded on 2021NOV19 at 1100 hrs
- **Properties Evacuated:** 8 properties
- **State of Local Emergency:** 1, Issued 2021NOV16 to expire on 2021NOV23 at midnight
- **Reception Centre(s):** 1, Virtual
- **Individuals Registered with ESS:** 15
- EOC activated due to localized flooding and to provide mutual aid to Abbotsford
- On 2021NOV16 a State of Local Emergency and an Evacuation Order were issued for properties on Bembow Street in Hatzic
- Remote Mission EOC/RC currently processing extensions for families under Evacuation Order in Hatzic - Benbow

#### **Pemberton:**

- **Incident:** Flooding
- EOC activated 2021NOV15 due to flood activity
- **Individuals Registered with ESS:** 12
- As highways reopen, drafts of traffic plans are being created to prioritize essential goods and services to get through first
- Stranded travellers from the Hwy 99/Duffy Lake Road mudslide in the Pemberton area continue to be impacted by highway closures. The Pemberton and District Community Centre has seen an influx in those requiring use of shower facilities. Lil'wat Nation has also seen a significant number of travellers sleeping in their vehicles at the Chevron Gas Station and camping in multiple different locations
- Connection has been made with additional travellers requiring ESS and other services
- 11 individuals have been provided lodging, food and other referral supports

#### **Pitt Meadows, City of**

- **Incident:** Heavy rainfall has resulted in multiple roads flooding
- EOC stood down on 2021NOV17
- The City has progressed to a routine clean up stage following the event
- Localized flooding was experienced in the Bordertown area, however 224th is open and water appears to be subsiding
- Roads have reopened throughout Pitt Meadows
- The BC Hydro Alouette Dam peak occurred with little consequence to Pitt Meadows
- Pumps continue to operate at full capacity
- Continued dike inspections

#### **Port Coquitlam:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

#### **Squamish Lillooet Regional District:**

- **Incident:** Flood threat to properties
- **Alerts:** 0
- EOC activated 2021NOV15 due to flood threat to properties and water levels continue to rise
- The evacuation alert issued on 2021NOV15 for Tunnel Station/Upper Paradise Valley – Electoral Area D was rescinded 2021NOV16
- The Red Cross continues to provide emergency support services to stranded travellers throughout the SLRD
- A geotechnical engineer will be in the Jason Creek area again 2021NOV18, continuing their survey of the creek system in the Reid Road and Walkerville areas where damage has been observed. As the area is heavily treed and the upper reaches are inaccessible by foot, the plan is for a drone flight to the upper reaches of the two creeks. Initial findings from 2021NOV17 is that there is further debris available to come downstream in the next heavy rain event, and at the furthest point able to be surveyed on foot today, the creek is still running black, indicating further debris available upstream of this point. Further erosion will likely compromise the foundation of two to three residential structures, and such erosion is assessed as likely given that additional upstream debris is available to come down in the next

heavy rain event. Geotechnical report currently being completed after further ground and drone survey work on 2021NOV18

- The SLRD is working with MFLNRORD and MoTI for urgent access improvements to the McKenzie FSR and Reid Road
- The EOC has requested advice from the SWE PREOC as to how to mitigate the risk upstream of the Reid Road washout. Terrain is steep, treed, and heavy machinery access may not be possible or with specialized machinery only

#### Squamish District

- **Incident:** Localized flooding due to heavy rainfall. Waste Treatment Plant overflowing
- EOC activated 2021NOV15 due to localized flooding concerns
- A task force has been formed for the Mamquam – Ring Creek Rd damage. As of 2021NOV17, the fracture is approximately 500m long
- On 2021NOV18, Squamish Nation reported damage to the informal diking on the Cheakamus River that runs alongside the Cheakamus Reserve. District of Squamish staff will conduct a joint damage assessment of the area with Squamish Nation staff
- Paradise Valley residents reported access and egress challenges on the gravel section of Paradise Valley Road near the Jack Webster bridge. District Public Works assessed the situation and sent a grader to improve the road
- A sinkhole in the Squamish River dike near the Kowtain reserve is being assessed and monitored. Squamish Nation has been engaged

#### Sunshine Coast Regional District

- **Incident:** Localized flooding due to heavy rainfall
- EOC activated 2021NOV15 due to localized flooding
- **Alerts:** 1
- Issued 2021NOV15 for 14 properties on Ocean Beach Esplanade and Lower Road (2 properties placed on order 2021NOV16)
- **Properties Alerted:** 12
- **Orders:** 1
- Issued 2021NOV16 for 2 properties on Ocean Beach Esplanade
- **Properties Evacuated:** 2
- **State of Local Emergency:** 1, Issued 2021NOV15 expires 2021NOV22 for Electoral Areas A, B, D, E and F
- Day Road now accessible
- Contractor at Whitaker Creek responding to debris flow with excavator
- Reed Rd water main fixed
- Roberts Creek Campground road needs attention and site visit occurring for emergency vehicle access
- 5 waste water treatment plants are functioning poorly; no public health risk
- Chapman Creek Water Treatment Plant continued issues with intake. Continuing to monitor
- 3 dams assessed and no apparent concerns
- The 2 properties placed on evacuation order 2021NOV16 are not occupied. Only 2 of the 14 homes placed on evacuation alert 2021NOV15 are occupied
- Reports of continued erosion on numerous private properties
- 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. Fortis attempted to secure gas lines to a steel I-beam, which was too short, so is held in place by cranes
- Fortis rerouting exposed gas line on Lower Road. Underway
- Working to protect water supply/infrastructure for public health and fire flow (Chapman Creek main, water mains, McNeill Lake dam, Grantham's pump station)
- Boil water advisories issued (2021NOV15 at 1330) Still in effect

#### Surrey:

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding
- Crews are continuing to clean up and repair roads that have been washed out, replace flood boxes and restore spillways that have been damaged. They are also assessing damage to some pump stations due to flooding
- An individual who resides in the interior is stranded in Surrey and has reached out to the ESS team for support
- Firefighters and ESS volunteers sent to Abbotsford for support

#### Translink:

3. Translink has activated their Emergency Coordination Centre in response to flooding impacts

4. Continued delivery of a safe public transportation system (rail, bus) by identifying safety issues and responding as required. Monitoring fuel supplies and critical resources
5. Some minor flooding of infrastructure occurred earlier this week and this has been rectified
6. Managing consequences for supply chain issues to ensure continued essential public transit services

#### **Vancouver, City of**

- **Incident:** Flooding
- EOC activated 2021NOV17 for flood support and stood down on 2021NOV18 at 1700 hrs
- Situation stabilized, VFRS and VPD resources supporting Abbotsford stood down as military support has arrived
- Will continue supply chain assessments outside the EOC
- Hazards in Fraser River due to significantly increased levels of debris floating down, assessing possible impact to infrastructure

#### **Whistler:**

- **Incident:** ESS host community

#### **AGENCIES**

##### **Ministry of Transportation and Infrastructure (MoTI):**

- MoTI South Coast Region has activated their Ministry Operations Centre and District Operations Centre
- Hwy 7 has been re-opened for essential travel
- Hwy 3 will be opened soon to essential travel. Announcement coming
- Hwy 99 is also a priority and is expected to open over the weekend

##### **Vancouver Fraser Port Authority (VFPA):**

- Communications issues are resolved
- All rail service coming to and from the Port of Vancouver is halted; impacts to supply chain anticipated but unknown at this time; waiting on damage assessment to rail lines and timeframe for re-opening to have a clearer picture on impacts
- Vessel delays and heightened anchorage demand are expected due to disruptions to terminal operations. VFPA are working closely with their terminal operators, railways, and all levels of government to understand the impacts of these delays on terminal operations and to develop a recovery plan
- Freshet-like conditions seen on the Fraser River: request to ship masters to exercise additional caution; potential for overhead clearances being less than advertised on CHS Charts and increased wood debris/heightened shoreline damage from a vessel's wake; additional tug support may be requested to ensure safe passage to and from berth to avoid accumulated debris
- Real-time insights into Port of Vancouver operations can be accessed through the PortVan eHub app, which can be downloaded at <https://www.portvancouver.com/port-dashboard/ehub-app/> or through the App Store. Daily updates on import rail performance and weekly updates on truck terminal turn time performance are available through the port authority's website <https://www.portvancouver.com/port-dashboard/>

#### **HEALTH INFORMATION**

**No impacts reported**

#### **LIVESTOCK IMPACTED**

##### **Ministry of Agriculture Updates:**

- Coordinating drop of 4 tons of feed to a hog farm in Abbotsford by helicopter. Feed is brought to a staging area and BCWS is moving it by air
- Providing assistance to Spuzzum FN for livestock feed
- Reach out to Chilliwack EOC today letting them know AFF staff are available
- One request for feed assistance with horses relocated to Heritage Park in Chilliwack
- Continuing to work on road access with Abbotsford EOC for livestock owners, feed, and farm vehicles

SWE PREOC Registered Livestock premises under order and alert:

- Estimated premises under Order: 149
- Estimated premises under Alert: 32
- Estimated animals under Order/Alert: beef cattle (278/1022); dairy cattle (22710/1500) horses (28/12); sheep (29/100); swine (5027/30); goats (24/100); poultry (2020095/285874); other (24/14)

- On the Sumas Prairie, 20 dairy operations requesting immediate support for deliveries of water and secondary feed. Represents approximately 5,700 dairy cows
- On the Sumas Prairie, 19 poultry operations requesting immediate support for deliveries of water and feed
- AFF staff are liaising with Abbotsford EOC to permit re-entry to farms
- AFF staff are working with BCWS to provide water deliveries by air
- Request that agriculture operations be included as an essential service to ensure prioritised road access for agricultural operators, feed, water, waste and milk trucks (request has been submitted to MOTI)
- Hearing concerns from agriculture operations and associated essential service providers not being able to reach farms due to traffic congestion on roads (especially Hwy 7)

## TRANSPORTATION IMPACTED

### Drive BC

Highway 1 Both Directions - Highway 1, in both directions. Mudslide between Annis Rd and K St for 38.4 km (Hope to 2 km east of Chilliwack). Road closed. Estimated time of opening not available. Assessment in progress

Highway 1, in both directions. Flooding between Flood Hope Rd and Junction Hwy 8 for 144.3 km (Hope to Spences Bridge). Rockslide. Road closed. Assessment in progress. Estimated time of opening not available

Highway 1, in both directions. Flooding between Exit 90: McCallum Rd and Exit 109: Yale Rd for 20.1 km (Abbotsford to Chilliwack). The road is closed. Estimated time of opening not available. Assessment in progress

Highway 1. Flooding between Junction Hwy 12 and Junction Hwy 8 for 35.6 km (Lytton to Spences Bridge). Rock slide. Road closed. Estimated time of opening not available. Assessment in progress

Highway 3, in both directions. Mudslide between Sunshine Valley and Allison Pass Summit for 36.9 km (17 to 54 km east of Hope). OPEN TO ESSENTIAL TRAVEL ONLY!. Expect Major delays due to congestion. One lane each direction with areas of single lane alternating traffic. Watch for crews. Checkpoints are set up along the route

Highway 5, in both directions. Washout between Hope and Merritt. Road closed. Estimated time of opening not available. Detour not available. Damage assessment in progress. Multiple washouts

Highway 7, in both directions. Mudslide between Johnson Slough Rest Area and Ross Rd for 12.6 km (Kent to 1 km east of Hope). Assessment in progress. Highway is open to essential travel only. Single lane alternating traffic in place. Watch for hydro crews

Highway 7, in both directions. Mudslide between Highlands Blvd and Bodnar Rd (Kent). Flooding. Expect Major delays due to congestion. Open to one lane each direction

Highway 11, in both directions. Flooding between Hazelwood Ave and Townshipline Rd for 2.9 km (Abbotsford). Road closed. Detour not available

Highway 99, in both directions. Mudslide between Lil'wat Pl and Seton Lake Rd for 81.9 km (9 km north of Pemberton to Lillooet). Road closed. Estimated time of opening not available. Assessment in progress

King George Blvd., northbound. Bridge closed at Nicomekl Bridge. Assessment in progress. Please use alternate route

## UTILITIES IMPACTED

### BC Hydro

- 2021NOV19 update - There are currently 205 customers without power within the Lower Mainland and Sunshine Coast remain without power due to flooding, mud/snow slides and trees down on wires
- BC Hydro bill help for BC Residents who are evacuated
- **For more information:** <https://www.bchydro.com/power-outages/app/outage-list.html>
- Urgent repairs are required in the Tank Hill area on our distribution line that is currently servicing our customers from Lytton to Spuzzum. As a result, customers in the area will be without power from 1500-1900 hrs on 2021NOV18 afternoon. This work is necessary to stabilize and support our pole structures, to avoid future unplanned outages and to coordinate and provide safety for the Ministry of Transportation and Infrastructure and CP Rail, as part of their reconstruction efforts

## • BC Hydro Alerts

- Cheakamus Dam Spill Notice of Cancellation – 2021NOV17 at 0930hrs - Present conditions are favourable and flows are expected to decrease

## Enbridge Inc.

- Due to heavy rainfall and increasing river flows, Enbridge has shut down a segment of 30-inch natural gas pipeline in the Coquihalla river valley on the morning of 2021NOV16 as a precautionary measure. The 36-inch natural gas pipeline remains in operation.
- Continuing to monitor the situation and will take further action should they become necessary.

## USEFUL LINKS/RESOURCES

[Ministry of Agriculture, Food and Fisheries Flooding Information](#)

[EMBC Current Flooding Information](#)

[River Forecast Centre](#)

[Drive BC](#)

[Environment Canada](#)

[Avalanche Canada Weather Forecast](#)

[BC Hydro](#)

[Disaster Financial Assistance Website](#)

## APPROVED BY:

*Original signed by*

Debbie Alexander

**PREOC Deputy Director**

**Note:** Information contained in this situation report is for operational purposes only. The contained information is not meant for public information. If you wish you use contained information for a media release, you must clear it with the PREOC Director.

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Have a good evening,

**Lexi Shinde**

**Liaison 1**

**Southwest Regional PREOC**

**Emergency Management British Columbia**

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Surrey, B.C. CANADA V3T 0J4

**Primary SWE PREOC contact**

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## South West Provincial Regional Emergency Operations Centre (SWE PREOC)

### SITUATION REPORT #6

**Event: Atmospheric River**

**Date/Time Issued:** 2021-11-19; 1800hrs

**Task #:** 223862

**Operational Period:** 2021-11-19

**Primary PREOC Email:** [preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)

**Primary PREOC Phone:** 778-572-3962

**Primary PREOC Fax:** 604-586-4083

**Overall Regional Situation:** Static

Activated EMBC Staff: 13

Activated TEAMS: 7

Agency: 15

Other: 7

Remote: 4

**The next Situation Report will be issued:** 2021-11-20 at 1700hrs

**The next Coordination Call will be:** 2021-11-20 @ 1100hrs

**\*\* New information**

### KEY PROVINCIAL INFORMATION

- The Southwest PREOC is activated to support communities affected by flooding and landslides caused by the Atmospheric River
- On 2021NOV17 the BC government declared a provincial state of emergency to mitigate impacts on transportation networks and 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 British Columbia
- Search & Rescue (SAR) - Task Force 1 has been deployed on 2021NOV17. They are currently set up in the field to do rapid damage assessment for the west side of Sumas Prairie
- As a result of the severe weather events, EMBC has approved Disaster Financial Assistance (DFA) for flooding in the Vancouver Island, Southwest and Central regions of the province, including First Nation communities, electoral areas and municipal areas within these regions
- On 2021NOV19 the BC government made an announcement to prioritize fuel for essential vehicles and to introduce travel restrictions
  - Non-essential vehicles, including the general public, will still have access to fuel available through retail gas stations. People will be limited to 30 litres per trip to the gas station
  - Non-essential travel along severely affected highways is prohibited by an order for:
    - Highway 99: from the junction of Highway 99 and Lillooet River Road to the BC Hydro Seton Lake Campsite access in Lillooet. Only passenger vehicles and commercial vehicles up to 14,500 kilograms will be permitted.
    - Highway 3: from the junction of Highway 5 and Highway 3 in Hope to the west entrance to Princeton from Highway 3
    - Highway 7: from the junction of Highway 7 and Highway 9 in Agassiz to the junction of Highway 7 and Highway 1 in Hope



## KEY REGIONAL INFORMATION

### Regional Summary

Local Authorities	# SOLEs	# BCRs	# Orders	# Alerts	# RCs	ESS Reg to date	# GL	# in GL current
City of Abbotsford	1		4	4	1	780	1	54
City of Chilliwack	1		4	1	1	929	1	160
District of Kent	1		1		2			
District of Sechelt 2019 Seawatch	1		1					
Fraser Valley Regional District	1		5	1				
Village of Harrison Hot Springs	1							
Hope					0			
Mission	1		0		1	15		
Pemberton						12		
Sunshine Coast Regional District	1		1	1				
<b>TOTAL</b>	<b>8</b>	<b>0</b>	<b>16</b>	<b>7</b>	<b>5</b>	<b>1736</b>	<b>2</b>	<b>214</b>

### River Forecast Centre

UPDATE: 2021NOV19 at 0745 hrs

The River Forecast Centre is maintaining the following advisory:

Sumas River including Sumas Prairie and surround areas – Flood Warning (MAINTAINED)

The following advisories are ended:

Fraser Valley, including the Chilliwack River – High Streamflow Advisory (ENDED)

River levels on tributary rivers through the region have receded to pre-event levels. Flows in lake-fed watersheds are slower to recede but have dropped below levels of concern. Flooding persists in the Sumas River and Sumas Prairie areas. Showers over the next few days are expected to be light, with limited contribution to flood level expected. Longer range rainfall is possible into next week and is continuing to be monitored for potential impacts to flood level. Overflow from the Nooksack River is not expected to contribute to the Sumas River drainage over the coming days, and the Nooksack River has dropped below flood level

### Fraser River Debris Trap Update

#### ADVISORY

An increase in logs and large woody debris may be experienced on the Lower Fraser River, downstream of Agassiz through Saturday 2021NOV20

Recreational boaters, marine traffic and infrastructure operators should be aware that more logs than normal may be floating downstream due to decreased performance of the Fraser River Debris Trap. Based on new aerial images from 2021NOV17, high debris volumes have misaligned the booms that direct debris into the Trap. Contractors are inspecting and attempting to realign the booms, but repairs are expected to take longer

Normally, the Fraser River Debris Trap diverts up to 70% of the woody debris coming downstream near Agassiz before it flows into the lower reaches of the Fraser. Although there is always some volume of logs and floating debris in the River, an increase in the number of floating logs getting past the Debris Trap is anticipated

## ENVIRONMENT CANADA WEATHER FORECAST FOR – 2021NOV19

### Abbotsford

Sat AM	Mainly cloudy with 60 percent chance of showers. High plus 5
Sat PM	Cloudy with 30 percent chance of showers. Low plus 4
Sun AM	Cloudy. High 6
Sun PM	Increasing cloudiness. Low plus 3

### Pemberton

Sat AM	Mainly cloudy with 60 percent chance of flurries or rain showers. High plus 1
Sat PM	Cloudy with 30 percent chance of rain showers or flurries. Low zero
Sun AM	Cloudy with 60 percent chance of showers. High plus 2
Sun PM	Cloudy with 30 percent chance of snow. Low minus 1

There are currently no weather alerts

## FIRST NATIONS

### Chawathil First Nation:

- **Incident:** Flooding
- EOC activated for flooding
- Water in flood zone slowly going down
- Was able to pick up food from Camp Hope, food needs ongoing
- There was a small fire when the power came back on
- 12 homes have flooded

### Kwikwetlem First Nation:

- **Incident:** Flood Alert
- EOC activated 2021NOV15
- Advised that they have rescinded their Flood Alert as levels have dropped down safely enough to rescind

### Leq'á:mel First Nation:

- **Incident:** Flooding
- Virtual EOC activated 2021NOV15 due to flooding and 1,000 sandbags requested

### Lower Stl'at'imx (LSTC):

- **Incident:** Heavy rain caused multiple landslides closing roads and affecting power to Douglas, Samahquam, and Skatin. Road now fully open on the west side
- EOC was activated 2021NOV15 and stood down on 2021NOV18 at 1700 hrs
- Telus optic cable has been severed at the 39km slide, repairs forthcoming
- Stranded campers have left Tipella and made it to Pemberton
- Power has been restored to Samahquam
- In-SHUCK-ch FSR - Road access to north to Pemberton has not been established for all communities

### Lytton First Nation/Camp Hope

- **Incident:** Activated in support of evacuees located at Camp Hope. Additional accommodation may be available at Camp Hope
- Supporting stranded motorists in Hope

- Food supplies from Camp Hope for Lytton evacuees and First Nation communities is provided for approximately 400+
- Power is back on
- Advance planning for food and medical supplies, energy needs

#### **Musqueam First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV17 due to flooding

#### **Peters First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV14 for flooding

#### **Seabird Island**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- There are issues with telecommunications connectivity
- Concerns for food and fuel delivery

#### **Shxw̓ha:y Village First Nation**

- **Incident:** Flooding
- EOC is activated 2021NOV17 in support of the flooding and landslide response in the region

#### **Shsw'ow'hamel First Nation**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Skawahlook First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Soowahlie First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- Power is back on
- Community is under a boil water advisory
- Concern for long term food and water supply
- There is road access to Chilliwack

#### **Spuzzum First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding
- Water situation is currently stable, have water trucks as back up. With highway open, a water specialist was able to go on site
- There is currently no landline service (2021NOV19)
- Flooding is impacting drinking water in community
- Ongoing – drinking, sanitation and fire fighting water has been impacted. Intake dam is not working so there is no potable water
- Currently trucking water into the water system to make potable water as intake inspections and repairs happen
- Intake issues have not been resolved yet. More heavy equipment needed 2021NOV19
- Intake lines will need to be flushed, as debris from high waters have clogged the intake main
- Food was delivered to the community by helicopter
- Continue to work on the intake system to get water flowing to the treatment plan

- Road repairs after washouts are preventing access to the intake
- Livestock feed concerns, ongoing need for animal feed
- Food supply concerns, ongoing need

#### **Squamish First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Sts'ailes First Nation:**

- **Incident:** Flooding
- The school has been closed for the week due to staff travel issues
- Fleetwood Mt Rd was badly washed out and there is concern for an accompanying pipe which provides drinking water to 600 people in Sts'ailes. Support for water pipe needed
- Food needs ongoing, social assistance team sourced some food and will distribute it through the food bank

#### **Sumas First Nation**

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding
- Concern for long term food supply
- There is limited road access to Abbotsford
- People from a few homes have been displaced due to flooding
- Need for power to be restored on Kilgard Rd
- There was a fire on Sumas land but no other incidents were reported from fire as at 2021NOV17
- Sandbags arrived on 2021NOV17

### **LOCAL AUTHORITIES**

#### **Abbotsford:**

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding
- **Alerts: 4**
  - Issued 2021NOV15 for 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 Properties)
  - Issued 2021NOV14 for Clayburn Area: Clayburn Village and surrounding area (30 Properties)
  - Expanded 2021NOV15 (2 Alerts) for Sumas Prairie: Westside of Whatcom Road, East of Huntingdon Village, Southside of Vye Road; Westside of Sumas Way to West of Riverside Road, East of Sumas River Dike to Boundary Road (140 Properties)
  - The Evacuation Alert issued on 2021NOV14 for Matsqui Village: Grace Road North to the Matsqui Slough (12 Properties) was rescinded on 2021NOV17 at 2200hrs
  - The Evacuation Alert issued on 2021NOV14 for Eagle Mountain Area: Cranberry Court, Briarwood Place, Doneagle Place (12 -15 Properties) was rescinded on 2021NOV17 at 2200hrs
  - The Evacuation Alert issued 2021NOV14 for Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road (30 Properties) was rescinded on 2021NOV17 at 2200hrs
  - The Evacuation Alert which was expanded on 2021NOV15 for Straiton Areas: Dawson Road East of Sumas Mountain Road, Straiton Road between Old Clayburn Road and Sumas Mountain Road (60 Properties) was rescinded on 2021NOV17 at 2200hrs
- **Properties Alerted:** 1870
- **Orders: 4**
  - Issued 2021NOV15 (2 Orders) for Straiton Road (7 Properties, 15 properties)
  - Issued 2021NOV15 for Sumas Prairie including the area bordered by: Sumas Mountain, and Yale Road to the North, the US border to the South, the Sumas River dike to the East and Sumas Way to the west (619 properties). On 2021NOV17 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

- Issued 2021NOV16 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 properties)
- **Properties Ordered:** to be confirmed
- **State of Local Emergency: 1** – issued 2021NOV15 and expires 2021NOV23 at midnight
- **Reception Centre(s): 1**, Tradex, 1190 Cornell Street (RC and GL - hours of operation: 24/7)
- **Individuals Registered with ESS:** 780 registered to date, 54 persons in group lodging
- Primary water intake at Noorish Creek is completely blocked with sediment. Working on engineering strategy. Currently drawing from much smaller secondary source at Canal Lake
- Samaritan Purse has arrived and are on site with a day team and a night team
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to [Local Government website](#) for list of closures

#### Chilliwack:

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding causing travellers to be stranded
- **Alerts: 1**
  - Issued 2021NOV16 Yarrow, from Boundary Road to Browne Road, and from the Vedder River to Majuba Hill Road
- **Orders: 4**
  - Issued 2021NOV17 at 1100hrs for property at 47000 block of Yale Road
  - Issued 2021NOV17 at 1100hrs for property at 43000 block of Old Orchard Road
  - Issued 2021NOV16 at 0930hrs for Yarrow, from Boundary Road to Browne Road, and all of Majuba Hill
  - Issued 2021NOV15 at 1230hrs for 4 properties on Yale Road and 3 properties on Chartwell Drive
- **State of Local Emergency: 1**, Expanded 2021NOV16 expires 2021NOV23 at midnight
- **Reception Centres: 1**, Chilliwack Landing Sports Centre, 45530 Spadina Avenue
- **Individuals Registered with ESS: 929**
- **Group Lodging Facilities: 1**, Evergreen Hall, 9291 Corbould Street (160 Registered)
- On 2021NOV16 the State of Local Emergency that was declared on 2021NOV15 for areas of the 47000 block of Yale Road and the 47000 block of Chartwell Drive was cancelled. On 2021NOV16 a State of Local Emergency was declared for the City of Chilliwack
- ~2800 people were evacuated
- If capacity is exceeded at the Chilliwack Landing Sports Centre and Evergreen Hall, 2 additional facilities with a collective capacity of 400 have been identified for use
- Fuel shortages are becoming a concern to Chilliwack General Hospital in terms of home care workers travelling to patients
- Reports of some gas stations having to close due to supply chain issues
- Reports of supply chain issues with grocery stores
- Some poultry and dairy operations with minor to moderate impacts have been reported. The EOC developed and implemented an entry plan for all suppliers and farmers to provide fuel and feed to farms in affected areas
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

#### Coquitlam:

- **Incident:** Flooding
- EOC activated 2021NOV17 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
- Coquitlam Animal Shelter has capacity to temporarily shelter domestic animals for evacuees or other shelter organizations that have exceeded their capacity

#### **Delta:**

- **Incident:** Heavy rain caused localized flooding throughout areas of Delta
- EOC Activated in response to issues related to flooding and high winds
- Supporting Abbotsford's Registration & Group lodging Facilities
- Monitoring and maintaining drainage infrastructure

#### **Fraser Valley Regional District:**

- **Incident:** Heavy rainfall causing overland flooding and mudslides
- **Alerts: 1**
  - Issued on 2021NOV15 at 1530hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 7 properties on Obyrne Road
- **Properties Alerted: 7**
- **Orders: 5**
  - Issued 2021NOV15 at 1630 for Cultus Lake, FVRD Electoral Area "H" for 17 properties on Lakeshore Drive
  - Issued 2021NOV15 at 1230hrs for Chilliwack River Valley Electoral Area "E" for 13 properties on Chilliwack Lake Road and 8 properties on Wilson Road
  - Issued 2021NOV15 at 0915hrs for Othello Road, FVRD Electoral Area "B" for 3 properties on Fish Camp Road and 5 properties on Othello Road
  - Issued 2021NOV14 at 1130hrs for Bridal Falls Area, FVRD Electoral Area "D" for 1 property on Bridal Falls Road (24 people)
  - Issued 2021NOV15 at 0030hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 4 properties on Auchenway Road
- **Properties Evacuated: 51**
- **State of Local Emergency: 1** - declared 2021NOV14 at 2230 for all Electoral Areas of the FVRD and was extended on 2021NOV18 to expire on 2021NOV28
- Distribution of goods and medications to Boston Bar is a concern
- Cultus Lake pump station, Minter wastewater treatment plant generators damaged, damage assessment to be completed
- The Wilson Road dike, Elbow Creek dike have been overtopped and damaged. Engineering Assessment for emergency dike inspection required
- Geotechnical assessment underway for Hood Rd/Lyarden Rd due to slide debris concerns
- Geotechnical assessment on Baker Trail Debris Catch Basin completed
- A hydrotechnical assessment is being conducted to help inform evacuation order status on Wilson Road and Chilliwack Lake Road
- Geotechnical assessment underway to understand the evacuation alert status on Obyrne Road
- Need diesel for generators for water systems in Northbend and Boston Bar as power is out. This will be needed or there will be no water for fire protection and potable water. The FVRD's utility operator has been trapped in Boston Bar for several days and needs to be relieved and replaced with a new operator

#### **Village of Harrison Hot Springs:**

- **Incident:** Flooding along the Miami Slough
- **State of Local Emergency: 1** – declared 2021NOV15 for the Village of Harrison Hotsprings and expires 2021NOV22 at midnight
- EOC activated on 2021NOV15 due to localized flooding along the Miami Slough
- Sewage is backing up and lift stations cannot keep up to the demand

**District of Hope:**

- **Incident:** Multiple people stranded by highway closures
- **Reception Centre(s):** 0, Hope Secondary School, 444 Stuart St. Closed
- **Individuals Registered with ESS:** unknown
- Power has been restored on 2021NOV15 but communication issues still persist
- Limited damage to local infrastructure, known road impacts
- Some transport corridors open for essential traffic
- Reduced number of stranded travellers
- Food and fuel supplies holding and supply chains being re-established. Ongoing food/supply deliveries occurring at Hope airport
- Multiple churches have opened to provide support as needed

**District of Kent:**

- **Incident:** Landslide threatening people and property along Rockwell Drive
- **Orders:** 1, Issued on 2021NOV15 for Rockwell Drive, Rockwell Lane, Rockwell Place, Pirates Lane, Thunderbird Crescent, and Dogwood Lane
- **State of Local Emergency:** 1 – declared 2021NOV14 for Rockwell Drive and expires 2021NOV21 at midnight
- **Properties Evacuated:** 6
- **Reception Centre(s):** 2, (Harrison Hot Springs Resort Hotel; Agassiz Agricultural Hall, 6800 Pioneer Avenue (for evacuees from the Hwy #7 slides))
- **Individuals Registered with ESS:** number unconfirmed
- Multiple landslides on Rockwell Drive (6500, 6900 and 7000 blocks). The road is blocked at the intersection of Lillooet Rd. Clearing of Rockwell Drive is in progress
- **Incident:** Hwy 7 landslide
- Approximately 275 people rescued from Highway 7 2021NOV15
- Crews are working to make access through the slide area
- Infrastructure such as lift stations and wastewater plants are operating at closer to normal levels
- Flood pumps at Hammersley Pump Station are again running. Pumping capacity has increased in Harrison Mills with the addition of a rental pump
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

**Langley, Township of:**

- **Incident:** Mudslide threatening people and property
- **Properties Evacuated:** 1
- **Individuals Registered with ESS:** 2
- Crew mobilized to repair slope at 7800 block of 264 St and to repair bridge wingwall washout at 23600 block of 64 Ave
- Dozens of hay bales from flooded properties in Fort Langley are ending up in the Salmon River and impacting the flood boxes of the dike station. Crews and contractors are mobilized to remove the hay bales
- Interim repairs are in progress for 40 Avenue as per geotechnical recommendations
- Monitoring Jacob Haldi Bridge between Fort Langley and Kwantlen First Nations / Metro Vancouver Regional Park for debris getting stuck at the bridge that is flowing down the Fraser River

**Metro Vancouver Regional District:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding
- Concern for solid and bio waste. Reaching capacity with no current mechanism to remove this from the region

**Mission:**

- **Incident:** Localized flooding and mutual aid
- **Orders:** 0, Issued 2021NOV16 for 8 properties located on the 8400 block of Bembow Street in Hatzic (8 properties) and rescinded on 2021NOV19 at 1100 hrs
- **Properties Evacuated:** 8 properties
- **State of Local Emergency:** 1, Issued 2021NOV16 to expire on 2021NOV23 at midnight
- **Reception Centre(s):** 1, Virtual
- **Individuals Registered with ESS:** 15
- EOC activated due to localized flooding and to provide mutual aid to Abbotsford
- On 2021NOV16 a State of Local Emergency and an Evacuation Order were issued for properties on Bembow Street in Hatzic
- Remote Mission EOC/RC currently processing extensions for families under Evacuation Order in Hatzic - Benbow

**Pemberton:**

- **Incident:** Flooding
- EOC activated 2021NOV15 due to flood activity
- **Individuals Registered with ESS:** 12
- As highways reopen, drafts of traffic plans are being created to prioritize essential goods and services to get through first
- Stranded travellers from the Hwy 99/Duffy Lake Road mudslide in the Pemberton area continue to be impacted by highway closures. The Pemberton and District Community Centre has seen an influx in those requiring use of shower facilities. Lil'wat Nation has also seen a significant number of travellers sleeping in their vehicles at the Chevron Gas Station and camping in multiple different locations
- Connection has been made with additional travellers requiring ESS and other services
- 11 individuals have been provided lodging, food and other referral supports

**Pitt Meadows, City of**

- **Incident:** Heavy rainfall has resulted in multiple roads flooding
- EOC stood down on 2021NOV17
- The City has progressed to a routine clean up stage following the event
- Localized flooding was experienced in the Bordertown area, however 224th is open and water appears to be subsiding
- Roads have reopened throughout Pitt Meadows
- The BC Hydro Alouette Dam peak occurred with little consequence to Pitt Meadows
- Pumps continue to operate at full capacity
- Continued dike inspections

**Port Coquitlam:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

**Squamish Lillooet Regional District:**

- **Incident:** Flood threat to properties
- **Alerts:** 0
- EOC activated 2021NOV15 due to flood threat to properties and water levels continue to rise
- The evacuation alert issued on 2021NOV15 for Tunnel Station/Upper Paradise Valley – Electoral Area D was rescinded 2021NOV16
- The Red Cross continues to provide emergency support services to stranded travellers throughout the SLRD
- A geotechnical engineer will be in the Jason Creek area again 2021NOV18, continuing their survey of the creek system in the Reid Road and Walkerville areas where damage has been observed. As the area is heavily treed and the upper reaches are inaccessible by foot, the plan is for a drone flight to the upper reaches of the two creeks. Initial



findings from 2021NOV17 is that there is further debris available to come downstream in the next heavy rain event, and at the furthest point able to be surveyed on foot today, the creek is still running black, indicating further debris available upstream of this point. Further erosion will likely compromise the foundation of two to three residential structures, and such erosion is assessed as likely given that additional upstream debris is available to come down in the next heavy rain event. Geotechnical report currently being completed after further ground and drone survey work on 2021NOV18

- The SLRD is working with MFLNRORD and MoTI for urgent access improvements to the McKenzie FSR and Reid Road
- The EOC has requested advice from the SWE PREOC as to how to mitigate the risk upstream of the Reid Road washout. Terrain is steep, treed, and heavy machinery access may not be possible or with specialized machinery only

#### **Squamish District**

- **Incident:** Localized flooding due to heavy rainfall. Waste Treatment Plant overflowing
- EOC activated 2021NOV15 due to localized flooding concerns
- A task force has been formed for the Mamquam – Ring Creek Rd damage. As of 2021NOV17, the fracture is approximately 500m long
- On 2021NOV18, Squamish Nation reported damage to the informal diking on the Cheakamus River that runs alongside the Cheakamus Reserve. District of Squamish staff will conduct a joint damage assessment of the area with Squamish Nation staff
- Paradise Valley residents reported access and egress challenges on the gravel section of Paradise Valley Road near the Jack Webster bridge. District Public Works assessed the situation and sent a grader to improve the road
- A sinkhole in the Squamish River dike near the Kowtain reserve is being assessed and monitored. Squamish Nation has been engaged

#### **Sunshine Coast Regional District**

- **Incident:** Localized flooding due to heavy rainfall
- EOC activated 2021NOV15 due to localized flooding
- **Alerts: 1**
- Issued 2021NOV15 for 14 properties on Ocean Beach Esplanade and Lower Road (2 properties placed on order 2021NOV16)
- **Properties Alerted: 12**
- **Orders: 1**
- Issued 2021NOV16 for 2 properties on Ocean Beach Esplanade
- **Properties Evacuated: 2**
- **State of Local Emergency: 1,** Issued 2021NOV15 expires 2021NOV22 for Electoral Areas A, B, D, E and F
- Day Road now accessible
- Contractor at Whitaker Creek responding to debris flow with excavator
- Reed Rd water main fixed
- Roberts Creek Campground road needs attention and site visit occurring for emergency vehicle access
- 5 waste water treatment plants are functioning poorly; no public health risk
- Chapman Creek Water Treatment Plant continued issues with intake. Continuing to monitor
- 3 dams assessed and no apparent concerns
- The 2 properties placed on evacuation order 2021NOV16 are not occupied. Only 2 of the 14 homes placed on evacuation alert 2021NOV15 are occupied
- Reports of continued erosion on numerous private properties
- 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. Fortis attempted to secure gas lines to a steel I-beam, which was too short, so is held in place by cranes
- Fortis rerouting exposed gas line on Lower Road. Underway
- Working to protect water supply/infrastructure for public health and fire flow (Chapman Creek main, water mains, McNeill Lake dam, Grantham's pump station)
- Boil water advisories issued (2021NOV15 at 1330) Still in effect

**Surrey:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding
- Crews are continuing to clean up and repair roads that have been washed out, replace flood boxes and restore spillways that have been damaged. They are also assessing damage to some pump stations due to flooding
- An individual who resides in the interior is stranded in Surrey and has reached out to the ESS team for support
- Firefighters and ESS volunteers sent to Abbotsford for support

**Translink:**

- Translink has activated their Emergency Coordination Centre in response to flooding impacts
- Continued delivery of a safe public transportation system (rail, bus) by identifying safety issues and responding as required. Monitoring fuel supplies and critical resources
- Some minor flooding of infrastructure occurred earlier this week and this has been rectified
- Managing consequences for supply chain issues to ensure continued essential public transit services

**Vancouver, City of**

- **Incident:** Flooding
- EOC activated 2021NOV17 for flood support and stood down on 2021NOV18 at 1700 hrs
- Situation stabilized, VFRS and VPD resources supporting Abbotsford stood down as military support has arrived
- Will continue supply chain assessments outside the EOC
- Hazards in Fraser River due to significantly increased levels of debris floating down, assessing possible impact to infrastructure

**Whistler:**

- **Incident:** ESS host community

**AGENCIES****Ministry of Transportation and Infrastructure (MoTI):**

- MoTI South Coast Region has activated their Ministry Operations Centre and District Operations Centre
- Hwy 7 has been re-opened for essential travel
- Hwy 3 will be opened soon to essential travel. Announcement coming
- Hwy 99 is also a priority and is expected to open over the weekend

**Vancouver Fraser Port Authority (VFPA):**

- Communications issues are resolved
- All rail service coming to and from the Port of Vancouver is halted; impacts to supply chain anticipated but unknown at this time; waiting on damage assessment to rail lines and timeframe for re-opening to have a clearer picture on impacts
- Vessel delays and heightened anchorage demand are expected due to disruptions to terminal operations. VFPA are working closely with their terminal operators, railways, and all levels of government to understand the impacts of these delays on terminal operations and to develop a recovery plan
- Freshet-like conditions seen on the Fraser River: request to ship masters to exercise additional caution; potential for overhead clearances being less than advertised on CHS Charts and increased wood debris/heightened shoreline damage from a vessel's wake; additional tug support may be requested to ensure safe passage to and from berth to avoid accumulated debris
- Real-time insights into Port of Vancouver operations can be accessed through the PortVan eHub app, which can be downloaded at <https://www.portvancouver.com/port-dashboard/ehub-app/> or through the App Store. Daily updates on import rail performance and weekly updates on truck terminal turn time performance are available through the port authority's website <https://www.portvancouver.com/port-dashboard/>

## HEALTH INFORMATION

No impacts reported

## LIVESTOCK IMPACTED

### Ministry of Agriculture Updates:

- Coordinating drop of 4 tons of feed to a hog farm in Abbotsford by helicopter. Feed is brought to a staging area and BCWS is moving it by air
- Providing assistance to Spuzzum FN for livestock feed
- Reach out to Chilliwack EOC today letting them know AFF staff are available
- One request for feed assistance with horses relocated to Heritage Park in Chilliwack
- Continuing to work on road access with Abbotsford EOC for livestock owners, feed, and farm vehicles

SWE PREOC Registered Livestock premises under order and alert:

- Estimated premises under Order: 149
- Estimated premises under Alert: 32
- Estimated animals under Order/Alert: beef cattle (278/1022); dairy cattle (22710/1500) horses (28/12); sheep (29/100); swine (5027/30); goats (24/100); poultry (2020095/285874); other (24/14)
- On the Sumas Prairie, 20 dairy operations requesting immediate support for deliveries of water and secondary feed. Represents approximately 5,700 dairy cows
- On the Sumas Prairie, 19 poultry operations requesting immediate support for deliveries of water and feed
- AFF staff are liaising with Abbotsford EOC to permit re-entry to farms
- AFF staff are working with BCWS to provide water deliveries by air
- Request that agriculture operations be included as an essential service to ensure prioritised road access for agricultural operators, feed, water, waste and milk trucks (request has been submitted to MOTI)
- Hearing concerns from agriculture operations and associated essential service providers not being able to reach farms due to traffic congestion on roads (especially Hwy 7)

## TRANSPORTATION IMPACTED

### Drive BC

Highway 1 Both Directions - Highway 1, in both directions. Mudslide between Annis Rd and K St for 38.4 km (Hope to 2 km east of Chilliwack). Road closed. Estimated time of opening not available. Assessment in progress

Highway 1, in both directions. Flooding between Flood Hope Rd and Junction Hwy 8 for 144.3 km (Hope to Spences Bridge). Rockslide. Road closed. Assessment in progress. Estimated time of opening not available

Highway 1, in both directions. Flooding between Exit 90: McCallum Rd and Exit 109: Yale Rd for 20.1 km (Abbotsford to Chilliwack). The road is closed. Estimated time of opening not available. Assessment in progress

Highway 1. Flooding between Junction Hwy 12 and Junction Hwy 8 for 35.6 km (Lytton to Spences Bridge). Rock slide. Road closed. Estimated time of opening not available. Assessment in progress

Highway 3, in both directions. Mudslide between Sunshine Valley and Allison Pass Summit for 36.9 km (17 to 54 km east of Hope). OPEN TO ESSENTIAL TRAVEL ONLY!. Expect Major delays due to congestion. One lane each direction with areas of single lane alternating traffic. Watch for crews. Checkpoints are set up along the route

Highway 5, in both directions. Washout between Hope and Merritt. Road closed. Estimated time of opening not available. Detour not available. Damage assessment in progress. Multiple washouts

Highway 7, in both directions. Mudslide between Johnson Slough Rest Area and Ross Rd for 12.6 km (Kent to 1 km east of Hope). Assessment in progress. Highway is open to essential travel only. Single lane alternating traffic in place. Watch for hydro crews

Highway 7, in both directions. Mudslide between Highlands Blvd and Bodnar Rd (Kent). Flooding. Expect Major delays due to congestion. Open to one lane each direction

Highway 11, in both directions. Flooding between Hazelwood Ave and Townshipline Rd for 2.9 km (Abbotsford). Road closed. Detour not available

Highway 99, in both directions. Mudslide between Lil'wat Pl and Seton Lake Rd for 81.9 km (9 km north of Pemberton to Lillooet). Road closed. Estimated time of opening not available. Assessment in progress

King George Blvd., northbound. Bridge closed at Nicomekl Bridge. Assessment in progress. Please use alternate route

## UTILITIES IMPACTED

### BC Hydro

- 2021NOV19 update - There are currently 205 customers without power within the Lower Mainland and Sunshine Coast remain without power due to flooding, mud/snow slides and trees down on wires
- [BC Hydro bill help for BC Residents who are evacuated](#)
- **For more information:** <https://www.bchydro.com/power-outages/app/outage-list.html>
- Urgent repairs are required in the Tank Hill area on our distribution line that is currently servicing our customers from Lytton to Spuzzum. As a result, customers in the area will be without power from 1500-1900 hrs on 2021NOV18 afternoon. This work is necessary to stabilize and support our pole structures, to avoid future unplanned outages and to coordinate and provide safety for the Ministry of Transportation and Infrastructure and CP Rail, as part of their reconstruction efforts

### BC Hydro Alerts

- Cheakamus Dam Spill Notice of Cancellation – 2021NOV17 at 0930hrs - Present conditions are favourable and flows are expected to decrease

### Enbridge Inc.

- Due to heavy rainfall and increasing river flows, Enbridge has shut down a segment of 30-inch natural gas pipeline in the Coquihalla river valley on the morning of 2021NOV16 as a precautionary measure. The 36-inch natural gas pipeline remains in operation.
- Continuing to monitor the situation and will take further action should they become necessary.

## USEFUL LINKS/RESOURCES

[Ministry of Agriculture, Food and Fisheries Flooding Information](#)

[EMBC Current Flooding Information](#)

[River Forecast Centre](#)

[Drive BC](#)

[Environment Canada](#)

[Avalanche Canada Weather Forecast](#)

**APPROVED BY:**

*Original signed by*

*Debbie Alexander*

Debbie Alexander

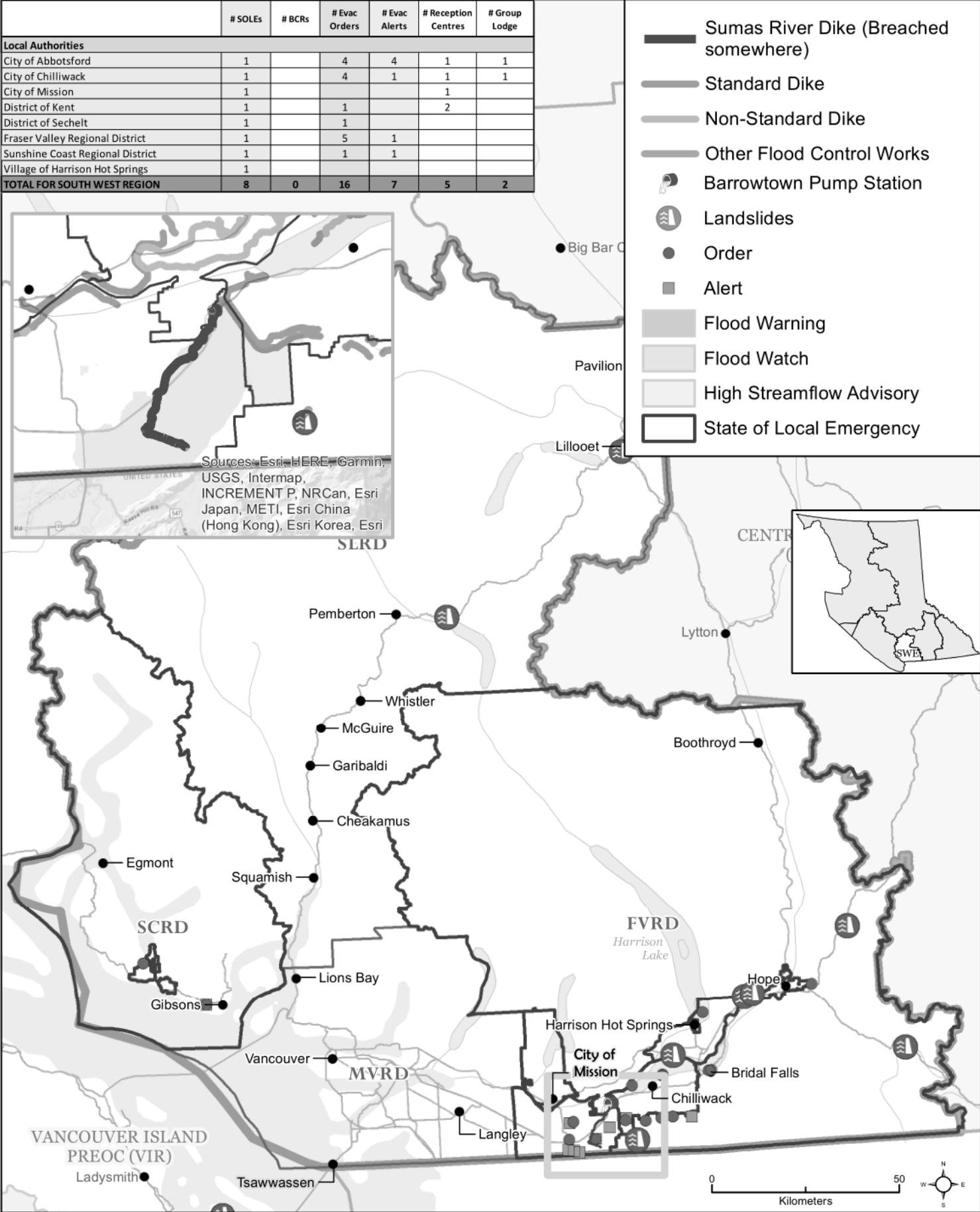
**PREOC Deputy Director**

**Note:** Information contained in this situation report is for operational purposes only. The contained information is not meant for public information. If you wish you use contained information for a media release, you must clear it with the PREOC Director.

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# South West (SWE) Provincial Regional Operational Centre (PREOC) Atmospheric River Events

2021-11-19



UPDATED 2021-11-19 Time: 15:56

File: Y:\lmb\PEP\response\SWE\task223862\_ISC\_AtmosphericRiver\arcgisprojects\task223862\_sitmap\_8x11\_20211117.mxd

## RE: Environment Canada Update - questions

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From: Stella Chiu <[schiu@abbotsford.ca](mailto:schiu@abbotsford.ca)>  
To: EMBC SWE PREOC Operations 1 EMBC:EX <[preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)>  
Cc: Brugman, Yannic EMBC:EX <[Yannic.Brugman@gov.bc.ca](mailto:Yannic.Brugman@gov.bc.ca)>, EMBC SWE PREOC Operations 2, EMBC EMBC:EX <[preoc2.ops2@gov.bc.ca](mailto:preoc2.ops2@gov.bc.ca)>  
Sent: November 20, 2021 5:09:09 PM PST  
Attachments: image001.jpg, image002.jpg

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

Thanks so much Kaylee for the clarification.

Appreciated,  
Stella

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**From:** EMBC SWE PREOC Operations 1 EMBC:EX <[preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)>  
**Sent:** Saturday, November 20, 2021 3:58 PM  
**To:** Stella Chiu <[schiu@abbotsford.ca](mailto:schiu@abbotsford.ca)>  
**Cc:** Brugman, Yannic EMBC:EX <[Yannic.Brugman@gov.bc.ca](mailto:Yannic.Brugman@gov.bc.ca)>; EMBC SWE PREOC Operations 2, EMBC EMBC:EX <[preoc2.ops2@gov.bc.ca](mailto:preoc2.ops2@gov.bc.ca)>  
**Subject:** RE: Environment Canada Update - questions

Hi Stella,

I hope this answers your question. Please let me know if you need more information. The following was pulled from the attached Orange Weather Notification sent to us by ECCC.

The inner South Coast will receive 20-40 mm of precipitation between Monday and Tuesday (November 22-23, 2021). Prior to the precipitation arriving, on Sunday night freezing levels will rise to 2600 m causing initial precipitation to fall as rain to mountaintop. Freezing levels fall throughout the event and finish near 1000 m by Tuesday morning.

- There may be some windy condition on Monday and Tuesday in the Fraser Valley. Southeasterly winds on Monday will turn southwesterly by Tuesday in the 20-50 km/h range.
- A new AR for the BC coast is likely on Thursday, November 25th, though details on location, duration and intensity remain uncertain. We will provide more details on Monday

**Kaylee Tower**  
**Operations Chief**  
**Southwest Regional PREOC**  
**Emergency Management British Columbia**  
14292 Green Timbers Way  
Surrey, B.C. CANADA V3T 0J4

**Primary SWE PREOC contact**  
Phone 778-572-3962  
Email [preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)

---

**From:** Brugman, Yannic EMBC:EX <[Yannic.Brugman@gov.bc.ca](mailto:Yannic.Brugman@gov.bc.ca)>  
**Sent:** November 20, 2021 3:18 PM  
**To:** EMBC SWE PREOC Operations 1 EMBC:EX <[preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)>  
**Subject:** Re: Environment Canada Update - questions

Hello ops. Can you please action this or otherwise communicate to Stella in regards to her request.

Thanks!  
Yannic.

Get [Outlook for iOS](#)

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**From:** Stella Chiu <[schiu@abbotsford.ca](mailto:schiu@abbotsford.ca)>  
**Sent:** Saturday, November 20, 2021 3:11:07 PM  
**To:** Brugman, Yannic EMBC:EX <[Yannic.Brugman@gov.bc.ca](mailto:Yannic.Brugman@gov.bc.ca)>  
**Subject:** Environment Canada Update - questions

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

Hi Yannic,

Sent you a text to your personal cell – this is the news I’m referencing.

In a news conference, public safety minister Mike Farnworth said the storm could exacerbate conditions in the Fraser Valley as it moves south on Sunday. Environment Canada is looking at issuing a weather advisory for the Fraser Valley in response to the storm conditions.

[Another atmospheric river set to drench B.C.’s north coast – Abbotsford News \(abbynews.com\)](#)

I have the notes from this morning’s call:

- Precip – 25mm of rain at Hope early next week
- Significant precip – 45mm of rain on Thursday, 20 mm rain on Friday, 40-50mm Sat/Sun at Hope

Is that storm set to arrive here on Thursday, or is there another storm that would arrive sooner?

If we can have better updates that would help us understand what’s coming ahead of us.

Thanks,

**Stella Chiu, P.Eng., FEC, M.Eng., PMP, LEED AP**

Senior Engineer, Drainage and Wastewater  
Engineering and Regional Utilities  
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[www.abbotsford.ca](http://www.abbotsford.ca)

#### PLEASE NOTE

City Hall is open for in-person appointments only.  
To contact the City of Abbotsford during regular business hours, please call us at **604-853-2281** or use our online services at [www.abbotsford.ca](http://www.abbotsford.ca).  
For up to date information on what is re-opening, visit [www.abbotsford.ca/reopening](http://www.abbotsford.ca/reopening). We apologize for any inconvenience and appreciate your understanding as we work to keep everybody healthy and safe.



[abbotsford.ca/stayconnected](http://abbotsford.ca/stayconnected)



## SWE Situation Report #7 and Map for 2021NOV20

From: preoc2.lia1@gov.bc.ca  
Sent: November 20, 2021 5:24:53 PM PST  
Attachments: SWE PREOC Situation Report #7 2021NOV20.pdf, Situation Map #7 2021NOV20.pdf

### South West Provincial Regional Emergency Operations Centre (SWE PREOC)

#### SITUATION REPORT #7

#### Event: Atmospheric River

Date/Time Issued: 2021-11-20; 1700

Task #: 223862

Operational Period: 2021-11-20

Primary PREOC Email: [preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)

Primary PREOC Phone: 778-572-3962

Primary PREOC Fax: 604-586-4083

Overall Regional Situation: Static

Activated EMBC Staff: 14      Activated TEAMS: 6      Agency: 15      Other: 6      Remote: 7

The next Situation Report will be issued: 2021-11-21 at 1700hrs

The next Coordination Call will be: 2021-11-21 @ 1100hrs

\*\* New information

#### KEY PROVINCIAL INFORMATION

0. The Southwest PREOC is activated to support communities affected by flooding and landslides caused by the Atmospheric River 2021NOV14
1. On 2021NOV17 the BC government declared a Provincial State of Emergency to mitigate impacts on transportation networks and 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 British Columbia
2. Search & Rescue (SAR) Task Force 1 was deployed on 2021NOV17. They are currently set up in the field to do rapid damage assessment for the west side of Sumas Prairie
3. As a result of the severe weather events, EMBC has approved Disaster Financial Assistance (DFA) for flooding in the Vancouver Island, Southwest and Central regions of the province, including First Nation communities, electoral areas and municipal areas within these regions
4. On 2021NOV19 the BC government made an [announcement](#) to prioritize fuel for essential vehicles and to introduce travel restrictions
  0. Non-essential vehicles, including the general public, will still have access to fuel available through retail gas stations. People will be limited to 30 litres per trip to the gas station
  1. Non-essential travel along severely affected highways is prohibited by an order for:
    - Highway 99: from the junction of Highway 99 and Lillooet River Road to the BC Hydro Seton Lake Campsite access in Lillooet. Only passenger vehicles and commercial vehicles up to 14,500 kilograms will be permitted.
    - Highway 3: from the junction of Highway 5 and Highway 3 in Hope to the west entrance to Princeton from Highway 3
    - Highway 7: from the junction of Highway 7 and Highway 9 in Agassiz to the junction of Highway 7 and Highway 1 in Hope

#### KEY REGIONAL INFORMATION

##### Regional Summary

Local Authorities	# SOLEs	# BCRs	# Orders	# Alerts	# RCs	ESS Reg to date	# GL	# in GL current
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City of Abbotsford	1		4	4	1	780	1	54
City of Chilliwack	1		4	1	1	929	1	160
District of Kent	1		1		2			
District of Sechelt 2019 Seawatch	1		1					
Fraser Valley Regional District	1		6	1				
Village of Harrison Hot Springs	1							
Hope					0			
Mission	1		0		1	15		
Pemberton						12		
Sunshine Coast Regional District	1		1	1				
<b>TOTAL</b>	<b>8</b>	<b>0</b>	<b>16</b>	<b>7</b>	<b>5</b>	<b>1736</b>	<b>2.</b>	<b>214</b>

## River Forecast Centre

UPDATE: 2021NOV19 at 0745 hrs

The River Forecast Centre is maintaining the following advisory:

Sumas River including Sumas Prairie and surround areas – Flood Warning (MAINTAINED)

The following advisories are ended:

Fraser Valley, including the Chilliwack River – High Streamflow Advisory (ENDED)

River levels on tributary rivers through the region have receded to pre-event levels. Flows in lake-fed watersheds are slower to recede but have dropped below levels of concern. Flooding persists in the Sumas River and Sumas Prairie areas. Showers over the next few days are expected to be light, with limited contribution to flood level expected. Longer range rainfall is possible into next week and is continuing to be monitored for potential impacts to flood level. Overflow from the Nooksack River is not expected to contribute to the Sumas River drainage over the coming days, and the Nooksack River has dropped below flood level

## Ministry of Agriculture, Food and Fisheries

- Feed delivered by air to one hog operation in the Sumas Prairie (~4,000 hogs) this morning
- Continuing to support deliveries of livestock feed and water as requested
- Liaising with MOTI to facilitate road access to agricultural operations

SWE PREOC Registered Livestock premises under order and alert:

- Estimated premises under Order: 149
- Estimated premises under Alert: 32
- Estimated animals under Order/Alert: beef cattle (278/1022); dairy cattle (22710/1500) horses (28/12); sheep (29/100); swine (5027/30); goats (24/100); poultry (2020095/285874); other (24/14)

## Canadian Armed Forces

- 1 x Griffon completing a community/grocery supply flight today, 2021NOV20
- 1 x Griffon moving 3 Incident Management Team members from Kamloops to Abbotsford today, 2021NOV20
- 108 land personnel deployed into SWE, primarily assisting the Municipality of Abbotsford with various emergency management tasks

## ENVIRONMENT CANADA WEATHER FORECAST FOR – 2021NOV20

### Abbotsford

Sun AM Mainly cloudy. Clearing in the afternoon. High 6. UV index 1 or low  
Sun PM Clear. Low plus 1  
  
Mon AM Cloudy with 40 percent chance of showers. High 6

Mon PM      Periods of rain. Low plus 4

#### **Pemberton**

Sun AM      Cloudy with 60 percent chance of wet flurries in the morning then 60 percent chance of rain showers late in the morning and in the afternoon then partly cloudy. High plus 4. UV index 1 or low

Sun PM      Cloudy periods. Low minus 4

Mon AM      Snow or rain. High plus 2

Mon PM      Rain or snow. Low zero

There are currently no weather alerts

#### **FIRST NATIONS**

##### **Chawathil First Nation:**

- **Incident:** Flooding
- EOC activated for flooding
- Water in flood zone slowly going down
- Was able to pick up food from Camp Hope, food needs ongoing
- There was a small fire when the power came back on
- 12 homes have flooded
- Donation Center/Food Bank set up

##### **Kwikwetlem First Nation:**

- **Incident:** Flood Alert
- EOC activated 2021NOV15

##### **Leq'á:mel First Nation:**

- **Incident:** Flooding
- Virtual EOC activated 2021NOV15 due to flooding

##### **Lower Stl'atl'imx (LSTC):**

0. **Incident:** Heavy rain caused multiple landslides closing roads and affecting power to Douglas, Samahquam, and Skatin. Road now fully open on the west side
1. EOC was activated 2021NOV15 and stood down on 2021NOV18 at 1700 hrs
  2. Telus optic cable has been severed at the 39km slide, repairs forthcoming
  3. Stranded campers have left Tipella and made it to Pemberton
  4. In-SHUCK-ch FSR - Road access to north to Pemberton has not been established for all communities

##### **Lytton First Nation/Camp Hope**

- **Incident:** Activated in support of evacuees located at Camp Hope. Additional accommodation may be available at Camp Hope

##### **Musqueam First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV17 due to flooding

##### **Peters First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV14 for flooding

##### **Seabird Island**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- There are issues with telecommunications connectivity
- Concerns for food and fuel delivery

#### **Shxw̓ha:y Village First Nation**

- **Incident:** Flooding
- EOC is activated 2021NOV17 in support of the flooding and landslide response in the region

#### **Shsw'ow'hamel First Nation**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Skawahlook First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Soowahlie First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- Power is back on
- Community is under a boil water advisory
- Concern for long term food and water supply
- There is road access to Chilliwack

#### **Spuzzum First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding
- Community water supply remains low while repairs are being made to intake, mainlines and road to intake.
- Continuing work to supply community with potable water- water tanker on stand by if needed
- Continuing to work at intake and main line to fix damage to water infrastructure
- Developing foods and supply chains as community members can not leave community as highways is closed to closest town and has very limited stocks
- Working to ensure emergency access routes are planned for emergencies services as needed
- There is currently no landline service (2021NOV19)
- Livestock feed concerns, ongoing need for animal feed

#### **Squamish First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Sts'ailes First Nation:**

5. **Incident:** Flooding
6. The school has been closed for the week due to staff travel issues
7. Fleetwood Mt Rd was badly washed out and there is concern for an accompanying pipe which provides drinking water to 600 people in Sts'ailes.
8. Food needs ongoing, social assistance team sourced some food and will distribute it through the food bank
9. Geotech assessment of exposed water pipe 2021NOV20
10. Houses that are flooded have subsided; one house is still affected
1. 8 of 10 stranded members are now home to the community
2. Food bank opened 2021NOV19

#### **Sumas First Nation**

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding
- Concern for long term food supply
- There is limited road access to Abbotsford
- People from a few homes have been displaced due to flooding
- Need for power to be restored on Kilgard Rd
- There was a fire on Sumas land but no other incidents were reported from fire as at 2021NOV17
- Sandbags arrived on 2021NOV17

#### **LOCAL AUTHORITIES**

## Abbotsford:

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding
- **Alerts: 4**
  - Issued 2021NOV15 for 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 Properties)
  - Issued 2021NOV14 for Clayburn Area: Clayburn Village and surrounding area (30 Properties)
  - Expanded 2021NOV15 (2 Alerts) for Sumas Prairie: Westside of Whatcom Road, East of Huntingdon Village, Southside of Vye Road; Westside of Sumas Way to West of Riverside Road, East of Sumas River Dike to Boundary Road (140 Properties)
  - The Evacuation Alert issued on 2021NOV14 for Matsqui Village: Grace Road North to the Matsqui Slough (12 Properties) was rescinded on 2021NOV17 at 2200hrs
  - The Evacuation Alert issued on 2021NOV14 for Eagle Mountain Area: Cranberry Court, Briarwood Place, Doneagle Place (12 -15 Properties) was rescinded on 2021NOV17 at 2200hrs
  - The Evacuation Alert issued 2021NOV14 for Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road (30 Properties) was rescinded on 2021NOV17 at 2200hrs
  - The Evacuation Alert which was expanded on 2021NOV15 for Straiton Areas: Dawson Road East of Sumas Mountain Road, Straiton Road between Old Clayburn Road and Sumas Mountain Road (60 Properties) was rescinded on 2021NOV17 at 2200hrs
- **Properties Alerted:** 1870
- **Orders: 4**
  - Issued 2021NOV15 (2 Orders) for Straiton Road (7 Properties, 15 properties)
  - Issued 2021NOV15 for Sumas Prairie including the area bordered by: Sumas Mountain, and Yale Road to the North, the US border to the South, the Sumas River dike to the East and Sumas Way to the west (619 properties). On 2021NOV17 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
  - Issued 2021NOV16 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 properties)
- **Properties Ordered:** to be confirmed
- **State of Local Emergency: 1** – issued 2021NOV15 and expires 2021NOV23 at midnight
- **Reception Centre(s): 1**, Tradex, 1190 Cornell Street (RC and GL - hours of operation: 24/7)
- **Individuals Registered with ESS:** 780 registered to date, 54 persons in group lodging
- Primary water intake at Noorish Creek is completely blocked with sediment. Working on engineering strategy. Currently drawing from much smaller secondary source at Canal Lake
- Samaritan Purse has arrived and are on site with a day team and a night team

## Chilliwack:

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding causing travellers to be stranded
- **Alerts: 1**
  - Issued 2021NOV16 Yarrow, from Boundary Road to Browne Road, and from the Vedder River to Majuba Hill Road
- **Orders: 4**
  - Issued 2021NOV17 at 1100hrs for property at 47000 block of Yale Road
  - Issued 2021NOV17 at 1100hrs for property at 43000 block of Old Orchard Road
  - Issued 2021NOV16 at 0930hrs for Yarrow, from Boundary Road to Browne Road, and all of Majuba Hill
  - Issued 2021NOV15 at 1230hrs for 4 properties on Yale Road and 3 properties on Chartwell Drive
- **State of Local Emergency: 1**, Expanded 2021NOV16 expires 2021NOV23 at midnight
- **Reception Centres: 1**, Chilliwack Landing Sports Centre, 45530 Spadina Avenue
- **Individuals Registered with ESS:** 929
- **Group Lodging Facilities: 1**, Evergreen Hall, 9291 Corbould Street (160 Registered)
- On 2021NOV16 the State of Local Emergency that was declared on 2021NOV15 for areas of the 47000 block of Yale Road and the 47000 block of Chartwell Drive was cancelled. On 2021NOV16 a State of Local Emergency was declared for the City of Chilliwack
- ~2800 people were evacuated
- If capacity is exceeded at the Chilliwack Landing Sports Centre and Evergreen Hall, 2 additional facilities with a collective capacity of 400 have been identified for use

- Fuel shortages are becoming a concern to Chilliwack General Hospital in terms of home care workers travelling to patients
- Reports of some gas stations having to close due to supply chain issues
- Reports of supply chain issues with grocery stores
- Some poultry and dairy operations with minor to moderate impacts have been reported. The EOC developed and implemented an entry plan for all suppliers and farmers to provide fuel and feed to farms in affected areas

#### **Coquitlam:**

- **Incident:** Flooding
- EOC activated 2021NOV17 to coordinate provision of support, equipment and staffing for other communities

#### **Delta:**

- **Incident:** Heavy rain caused localized flooding throughout areas of Delta
3. EOC Activated in response to issues related to flooding and high winds
  4. Monitoring and maintaining drainage infrastructure

#### **Fraser Valley Regional District:**

- **Incident:** Heavy rainfall causing overland flooding and mudslides
- **Alerts: 1**
  - Issued on 2021NOV18 at 1645hrs for Othello Road, FVRD Electoral Area B for 1 property on Othello Road and 1 property on Tunnels Road.
  - On 2021NOV18 the Evacuation Alert issued on 2021NOV15 at 1530hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 7 properties on Obyrne Road was rescinded
- **Properties Alerted: 2**
- **Orders: 6**
  - Issued 2021NOV15 at 0915hrs for Othello Road, FVRD Electoral Area "B" for 3 properties on Fish Camp Road and 5 properties on Othello Road
  - Expanded 2021NOV16 – The order issued 2021NOV14 at 1130hrs for Bridal Falls Area, FVRD Electoral Area "D" was expanded on to include 3 properties on Bridal Falls Road and 2 properties on Popkum Road South
  - Issued 2021NOV18 at 1605hrs for Chilliwack River Valley Electoral Area "E" for selected portion of 1 property on the 50800 block of OByrne Road
  - Issued 2021NOV15 at 1230hrs for Chilliwack River Valley Electoral Area "E" for 13 properties on Chilliwack Lake Road and 8 properties on Wilson Road
  - Issued 2021NOV15 at 0030hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 4 properties on Auchenway Road
  - Issued 2021NOV19 at 1530hrs for Hatzic Island, FVRD Electoral Area G for 1 property on Shook Road
  - The Evacuation Order issued 2021NOV15 at 1630 for Cultus Lake, FVRD Electoral Area "H" for 17 properties on Lakeshore Drive was rescinded 2021NOV18 at 1430hrs
- **Properties Evacuated: 37**
- **State of Local Emergency: 1** - declared 2021NOV14 at 2230 for all Electoral Areas of the FVRD and was extended on 2021NOV18 to expire on 2021NOV28
- Leisure Valley – Rapid Damage Assessment being completed today, 2021NOV20, at site as well as hydrotechnical assessment. Assessment will include Frosst Creek as well as Leisure Valley site
- Othello Road – Hydrotechnical assessment of the Coquihalla River is to occur on Sunday, 2021NOV21. Evacuation order/alert remains in place pending assessment of bank stability
- Hatzic Island – Evacuation order remains in place until geotechnical assessment. Safe drinking water and septic concerns to be addressed in conjunction with Fraser Health. Continued communications with Dewdney Area Improvement District (DAID) regarding CP rail regarding blocked culvert affecting drainage of lake
- Bridal Falls Rd – Review of evacuation order area underway. Updated geotechnical report indicated area which needs to remain in evacuation order status
- Addressing limited fuel sources in Yale and transporting needed supplies to Boston Bar and surrounding areas
- Working to identify an aircraft fuel source for the Hope Airpark; and a local fuel source for fire department
- Damage Assessment underway for FVRD infrastructure, utilities, and Parks
- Distribution of goods and medications to Boston Bar is a concern
- Cultus Lake pump station, Minter wastewater treatment plant generators damaged, damage assessment to be completed

#### **Village of Harrison Hot Springs:**

- **Incident:** Flooding along the Miami Slough

- **State of Local Emergency: 1** – declared 2021NOV15 for the Village of Harrison Hotsprings and expires 2021NOV22 at midnight
- EOC activated on 2021NOV15 due to localized flooding along the Miami Slough
- Sewage is backing up and lift stations cannot keep up to the demand

#### District of Hope:

- **Incident:** Multiple people stranded by highway closures
- **Reception Centre(s):** 0, Hope Secondary School, 444 Stuart St. Closed
- **Individuals Registered with ESS:** unknown
- The 2 Reception Centres have closed and food distribution centres are starting to demobilize. Extra food is being redistributed to the food bank.
- Demobilizing cots and blankets back to the Province
- Public works continues to conduct damage assessments to infrastructure
- Working to re-establish internet at Municipal Hall
- Working to establish Advance Planning and Recovery Units
- Power has been restored on 2021NOV15 but communication issues still persist
- Some transport corridors open for essential traffic
- Reduced number of stranded travellers
- Food and fuel supplies holding and supply chains being re-established. Ongoing food/supply deliveries occurring at Hope airport

#### District of Kent:

- **Incident:** Landslide threatening people and property along Rockwell Drive
- **Orders:** 1, Issued on 2021NOV15 for Rockwell Drive, Rockwell Lane, Rockwell Place, Pirates Lane, Thunderbird Crescent, and Dogwood Lane
- **State of Local Emergency: 1** – declared 2021NOV14 for Rockwell Drive and extended to 2021NOV28 at midnight
- **Properties Evacuated: 6**
- **Reception Centre(s):** 2, (Harrison Hot Springs Resort Hotel; Agassiz Agricultural Hall, 6800 Pioneer Avenue (for evacuees from the Hwy #7 slides))
- **Individuals Registered with ESS:** number unconfirmed
- Multiple landslides on Rockwell Drive (6500, 6900 and 7000 blocks). The road is blocked at the intersection of Lillooet Rd. Clearing of Rockwell Drive is in progress
- **Incident:** Hwy 7 landslide
- Approximately 275 people rescued from Highway 7 2021NOV15
- Crews are working to make access through the slide area
- Infrastructure such as lift stations and wastewater plants are operating at closer to normal levels
- Flood pumps at Hammersley Pump Station are again running. Pumping capacity has increased in Harrison Mills with the addition of a rental pump
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

#### Langley, Township of:

- **Incident:** Mudslide threatening people and property
- **Properties Evacuated: 0**
- **Individuals Registered with ESS: 2**
- Crew mobilized to repair slope at 7800 block of 264 St and to repair bridge wingwall washout at 23600 block of 64 Ave. Still in progress as of 2021NOV19
- Dozens of hay bales from flooded properties in Fort Langley are ending up in the Salmon River and impacting the flood boxes of the dike station. Crews and contractors are mobilized to remove the hay bales
- Interim repairs are in progress for 40 Avenue as per geotechnical recommendations
- Monitoring Jacob Haldi Bridge between Fort Langley and Kwantlen First Nations / Metro Vancouver Regional Park for debris getting stuck at the bridge that is flowing down the Fraser River
- A community centre at 5339 207th Street has been flooded with about 2' of water in the basement

#### Metro Vancouver Regional District:

- **Incident:** Localized flooding

- EOC activated 2021NOV15 due to localized flooding
- Concern for solid and bio waste. Reaching capacity with no current mechanism to remove this from the region

#### **Mission:**

- **Incident:** Localized flooding and mutual aid
- **Orders:** 0, Issued 2021NOV16 for 8 properties located on the 8400 block of Bembow Street in Hatzic (8 properties) and rescinded on 2021NOV19 at 1100 hrs
- **Properties Evacuated:** 8 properties
- **State of Local Emergency:** 1, Issued 2021NOV16 to expire on 2021NOV23 at midnight
- **Reception Centre(s):** 1, Virtual
- **Individuals Registered with ESS:** 15
- EOC activated due to localized flooding and to provide mutual aid to Abbotsford
- On 2021NOV16 a State of Local Emergency and an Evacuation Order were issued for properties on Bembow Street in Hatzic
- Remote Mission EOC/RC currently processing extensions for families under Evacuation Order in Hatzic – Benbow.
- Remote Mission EOC/RC currently processing extensions for families under Evacuation Order. Extensions given for supports to November 22. (2 extended)
- 1 new registration as of 2021NOV19, 8 total for RC
- Kent extensions processed until November 22. 2021 (8 extended)
- On road remains closed in Mission and one road is single lane only
- Benbow Street Evacuation Order rescinded
- Requesting community support to house animals/livestock affected by flooding in neighbouring communities. Social media post being drafted and list is being compiled. In collaboration with Ministry of Agriculture.

#### **Pemberton:**

- **Incident:** Flooding
- EOC activated 2021NOV15 due to flood activity
- **Individuals Registered with ESS:** 12
- As highways reopen, drafts of traffic plans are being created to prioritize essential goods and services to get through first
- A coordinated travel advisory between the SLRD, member municipalities and First Nation communities is being drafted to highlight key messages including Hwy 99/Duffey Lake Road will be open to essential traffic only, that recreation travel is not permitted, checkpoints are expected, winter conditions are in effect on this route and being fully prepared for considerable delays with food, water, warm clothes, blankets and other emergency supplies is critical. This advisory will also stress that there are no gas stations between Pemberton/Mt. Currie and Lillooet and supplies at these locations may be limited or not available.

#### **Port Coquitlam:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

#### **Squamish Lillooet Regional District:**

- **Incident:** Flood threat to properties
- **Alerts:** 0
- EOC activated 2021NOV15 due to flood threat to properties and water levels continue to rise
- The evacuation alert issued on 2021NOV15 for Tunnel Station/Upper Paradise Valley – Electoral Area D was rescinded 2021NOV16
- The Red Cross continues to provide emergency support services to stranded travellers throughout the SLRD
- A geotechnical engineer will be in the Jason Creek area again 2021NOV18, continuing their survey of the creek system in the Reid Road and Walkerville areas where damage has been observed. As the area is heavily treed and the upper reaches are inaccessible by foot, the plan is for a drone flight to the upper reaches of the two creeks. Initial findings from 2021NOV17 is that there is further debris available to come downstream in the next heavy rain event, and at the furthest point able to be surveyed on foot today, the creek is still running black, indicating further debris available upstream of this point. Further erosion will likely compromise the foundation of two to three residential structures, and such erosion is assessed as likely given that additional upstream debris is available to come down in the next heavy rain event. Geotechnical report currently being completed after further ground and drone survey work on 2021NOV18
- The SLRD is working with MFLNRORD and MoTI for urgent access improvements to the McKenzie FSR and Reid Road



- The EOC has requested advice from the SWE PREOC as to how to mitigate the risk upstream of the Reid Road washout. Terrain is steep, treed, and heavy machinery access may not be possible or with specialized machinery only
- Reid Road is open as of 2021NOV19, one lane only as a temporary repair until upstream debris is addressed
- Geotechnical survey and initial risk assessment of affected creeks and properties has been completed. Written report is expected early next week.
- MoTI contractor Miller Capilano may be able to remove the most readily available debris upstream of Reid Road because it directly threatens the viability of the road, any culvert replacement and full road repair. EOC will continue to liaise with MoTI to confirm next steps.
- Stranded travellers in the SLRD currently receiving ESS include approximately: 19 households in Lillooet, 9 households in Whistler, 5 households in Pemberton.
- Coordinated travel advisory messaging across all jurisdictions in the regional boundaries has been completed in anticipation of Highway 99 / Duffey Lake Road reopening on Sunday November 21. Purpose is to reinforce essential only travel and being prepared for challenging conditions on this stretch of road if travel is undertaken.
- Search and Rescue work is continuing in the Hwy 99 / Duffey Lake Road area.

### Squamish District

- **Incident:** Localized flooding due to heavy rainfall. Waste Treatment Plant overflowing
- EOC activated 2021NOV15 due to localized flooding concerns
- A task force has been formed for the Mamquam – Ring Creek Rd damage. As of 2021NOV17, the fracture is approximately 500m long
- On 2021NOV18, Squamish Nation reported damage to the informal diking on the Cheakamus River that runs alongside the Cheakamus Reserve. District of Squamish staff will conduct a joint damage assessment of the area with Squamish Nation staff
- Paradise Valley residents reported access and egress challenges on the gravel section of Paradise Valley Road near the Jack Webster bridge. District Public Works assessed the situation and sent a grader to improve the road
- A sinkhole in the Squamish River dike near the Kowtain reserve is being assessed and monitored. Squamish Nation has been engaged
- A coordinated travel advisory between the SLRD, member municipalities and First Nations communities is being drafted to highlight key messages including that Hwy 99/Duffey Lake Road will be open to essential traffic only, that recreation travel is not permitted, checkpoints are expected, winter conditions are in effect on this route and being fully prepared for considerable delays with food, water, warm clothes, blankets and other emergency supplies is critical. This advisory will also stress that there are no gas stations between Pemberton/Mt. Currie and Lillooet and supplies at these locations may be limited or not available.
- The DOS Emergency Operation Centre (EOC) is standing down as of 1700 hrs, November 19, 2021 under Task #223879, and will reopen at 0900 hrs, November 22, 2021 to support emergency response as required.

### Sunshine Coast Regional District

- **Incident:** Localized flooding due to heavy rainfall
- EOC activated 2021NOV15 due to localized flooding
- **Alerts: 1**
- Issued 2021NOV15 for 14 properties on Ocean Beach Esplanade and Lower Road (2 properties placed on order 2021NOV16)
- **Properties Alerted: 12**
- **Orders: 1**
- Issued 2021NOV16 for 2 properties on Ocean Beach Esplanade
- **Properties Evacuated: 2**
- **State of Local Emergency: 1,** Issued 2021NOV15 expires 2021NOV22 for Electoral Areas A, B, D, E and F
- Assessments on Chapman Dam, Edwards Dam, and McNeil Lake Dam indicate no concerns
- Contractor at Whitaker Creek responding to debris flow with excavator. Excavator work completed. Report that material is being removed from buildings under order 2021NOV20
- Roberts Creek Campground road needs attention and site visit occurring for emergency vehicle access. Working with BC Parks to close access through Parks, as Beach Ave now open (1 lane) 2021NOV21
- Chapman Creek Water Treatment Plant continued issues with intake. Continuing to monitor
- The 2 properties placed on evacuation order 2021NOV16 are not occupied. Only 2 of the 14 homes placed on evacuation alert 2021NOV15 are occupied
- Boil water advisories issued (2021NOV15 at 1330) Still in effect. Permission received from VCH to lift Boil Water Advisory for Welcome Woods area. Gibsons/Reed Road area still under Boil Water Advisory 2021NOV20
- Fortis reports exposed gas line at Stephens Road and Lower Road and they are preparing for re-routing and/or shutoff
- Preparing for damage assessment of 2 properties on Ocean Beach Esplanade

**Surrey:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding
- Crews are continuing to clean up and repair roads that have been washed out, replace flood boxes and restore spillways that have been damaged. They are also assessing damage to some pump stations due to flooding
- An individual who resides in the interior is stranded in Surrey and has reached out to the ESS team for support
- Firefighters and ESS volunteers sent to Abbotsford for support
- ESS support line remains open for stranded individuals looking for assistance

**Translink:**

5. Translink has activated their Emergency Coordination Centre in response to flooding impacts
6. Continued delivery of a safe public transportation system (rail, bus) by identifying safety issues and responding as required. Monitoring fuel supplies and critical resources
7. Some minor flooding of infrastructure occurred earlier this week and this has been rectified
8. Managing consequences for supply chain issues to ensure continued essential public transit services

**Vancouver, City of**

- **Incident:** Flooding
- EOC activated 2021NOV17 for flood support and stood down on 2021NOV18 at 1700 hrs
- Situation stabilized, VFRS and VPD resources supporting Abbotsford stood down as military support has arrived
- Will continue supply chain assessments outside the EOC
- Hazards in Fraser River due to significantly increased levels of debris floating down, assessing possible impact to infrastructure

**Whistler:**

- **Incident:** ESS host community

**AGENCIES****Ministry of Transportation and Infrastructure (MoTI):**

- MoTI South Coast Region has activated their Ministry Operations Centre and District Operations Centre
- Working with Ministry of Agriculture regarding logistics on inbound, outbound, and staging for resources and materials to assist MAFF and the farmers in the Sumas Prairie
- Hwy 1:
  - Popkum to Hope – CLOSED anticipating single lane in each direction within 24 hours
  - Hope to Boston Bar – emergency access only
  - Boston Bar to Spences Bridge – CLOSED assessments are continuing on problem areas, no ETO at this time
  - Abbotsford – CLOSED McCallum to Yale Rd, as water recedes assessments are occurring. ETO - Unknown
- Hwy 3 is open to essential travel. Single lane in each direction with areas of single lane alternating traffic. Heavy equipment continues to work in the area
- Highway 7: Mission to Agassiz - OPEN to two way traffic; Agassiz to Hope - OPEN to single lane alternating traffic for essential travel. Heavy equipment continues work in area
- Hwy 99 is open to essential travel only
- Hwy 5 Hope to Merritt: CLOSED

**Vancouver Fraser Port Authority (VFPA):**

- Communications issues are resolved
- All rail service coming to and from the Port of Vancouver is halted; impacts to supply chain anticipated but unknown at this time; waiting on damage assessment to rail lines and timeframe for re-opening to have a clearer picture on impacts
- Vessel delays and heightened anchorage demand are expected due to disruptions to terminal operations. VFPA are working closely with their terminal operators, railways, and all levels of government to understand the impacts of these delays on terminal operations and to develop a recovery plan
- Freshet-like conditions seen on the Fraser River: request to ship masters to exercise additional caution; potential for overhead clearances being less than advertised on CHS Charts and increased wood debris/heightened shoreline

damage from a vessel's wake; additional tug support may be requested to ensure safe passage to and from berth to avoid accumulated debris

- Real-time insights into Port of Vancouver operations can be accessed through the PortVan eHub app, which can be downloaded at <https://www.portvancouver.com/port-dashboard/ehub-app/> or through the App Store. Daily updates on import rail performance and weekly updates on truck terminal turn time performance are available through the port authority's website <https://www.portvancouver.com/port-dashboard/>

## HEALTH INFORMATION

**No impacts reported**

## LIVESTOCK IMPACTED

### Ministry of Agriculture Updates:

- Coordinating drop of 4 tons of feed to a hog farm in Abbotsford by helicopter. Feed is brought to a staging area and BCWS is moving it by air
- Providing assistance to Spuzzum FN for livestock feed
- Reach out to Chilliwack EOC today letting them know AFF staff are available
- One request for feed assistance with horses relocated to Heritage Park in Chilliwack
- Continuing to work on road access with Abbotsford EOC for livestock owners, feed, and farm vehicles

SWE PREOC Registered Livestock premises under order and alert:

- Estimated premises under Order: 149
- Estimated premises under Alert: 32
- Estimated animals under Order/Alert: beef cattle (278/1022); dairy cattle (22710/1500) horses (28/12); sheep (29/100); swine (5027/30); goats (24/100); poultry (2020095/285874); other (24/14)

## TRANSPORTATION IMPACTED

### Drive BC

Highway 1 Both Directions - Highway 1, in both directions. Flooding between K St and Junction Hwy 12 for 104.7 km (Hope to Lytton). Rock slide. Road closed. Estimated time of opening not available. Assessment in progress. Road is closed starting at the Highway 1 / 7 Junction. Road is open for EMERGENCY VEHICLES ONLY from Hope to Boston Bar

Highway 1, in both directions. Flooding between Flood Hope Rd and Junction Hwy 8 for 144.3 km (Hope to Spences Bridge). Rockslide. Road closed. Assessment in progress. Estimated time of opening not available

Highway 1, in both directions. Flooding between Exit 90: McCallum Rd and Exit 109: Yale Rd for 20.1 km (Abbotsford to Chilliwack). The road is closed. Estimated time of opening not available. Assessment in progress

Highway 1. Flooding between Junction Hwy 12 and Junction Hwy 8 for 35.6 km (Lytton to Spences Bridge). Rock slide. Road closed. Estimated time of opening not available. Assessment in progress

Highway 3, in both directions. Mudslide between Sunshine Valley and Allison Pass Summit for 36.9 km (17 to 54 km east of Hope). OPEN TO ESSENTIAL TRAVEL ONLY!. Expect Major delays due to congestion. One lane each direction with areas of single lane alternating traffic. Watch for crews. Checkpoints are set up along the route

Highway 5, in both directions. Washout between Hope and Merritt. Road closed. Estimated time of opening not available. Detour not available. Damage assessment in progress. Multiple washouts

Highway 7, in both directions. Mudslide between Johnson Slough Rest Area and Ross Rd for 12.6 km (Kent to 1 km east of Hope). Assessment in progress. Highway is open to essential travel only. Single lane alternating traffic in place. Watch for hydro crews

Highway 7, in both directions. Mudslide between Highlands Blvd and Bodnar Rd (Kent). Flooding. Expect Major delays due to congestion. Open to one lane each direction. Single lane late alternating traffic from 7 AM to 7 PM

Highway 11, in both directions. Flooding between Hazelwood Ave and Townshipline Rd for 2.9 km (Abbotsford). Road closed. Detour not available

Highway 99, in both directions. Mudslide between Lil'wat Pl and Seton Lake Rd for 81.9 km (9 km north of Pemberton to Lillooet). Road closed. Estimated time of opening not available. Assessment in progress

King George Blvd., northbound. Bridge closed at Nicomekl Bridge. Assessment in progress. Please use alternate route

## UTILITIES IMPACTED

### BC Hydro

- 2021NOV20 update - There are currently ~ 90 customers without power within the Lower Mainland and Sunshine Coast remain without power due to flooding, mud/snow slides and trees down on wires
- [BC Hydro bill help for BC Residents who are evacuated](#)
- **For more information:** <https://www.bchydro.com/power-outages/app/outage-list.html>

## USEFUL LINKS/RESOURCES

[Ministry of Agriculture, Food and Fisheries Flooding Information](#)

[EMBC Current Flooding Information](#)

[River Forecast Centre](#)

[Drive BC](#)

[Environment Canada](#)

[Avalanche Canada Weather Forecast](#)

[BC Hydro](#)

[Disaster Financial Assistance Website](#)

### APPROVED BY:

*Original signed by*

Debbie Alexander

**PREOC Deputy Director**

**Note:** Information contained in this situation report is for operational purposes only. The contained information is not meant for public information. If you wish you use contained information for a media release, you must clear it with the PREOC Director.

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Have a good evening,

**Lexi Shinde**

**Liaison 1**

**Southwest Regional PREOC**

**Emergency Management British Columbia**

14292 Green Timbers Way  
Surrey, B.C. CANADA V3T 0J4

**Primary SWE PREOC contact**

Phone 778-572-3962

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PREOC Fax 604.586.4083

24 Hour Emergency Reporting 1.800.663.3456

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**Event: Atmospheric River**

**Date/Time Issued:** 2021-11-20; 1700

**Task #:** 223862

**Operational Period:** 2021-11-20

**Primary PREOC Email:** [preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)

**Primary PREOC Phone:** 778-572-3962

**Primary PREOC Fax:** 604-586-4083

**Overall Regional Situation:** Static

Activated EMBC Staff: 14

Activated TEAMS: 6

Agency: 15

Other: 6

Remote: 7

**The next Situation Report will be issued:** 2021-11-21 at 1700hrs

**The next Coordination Call will be:** 2021-11-21 @ 1100hrs

**\*\* New information**

**KEY PROVINCIAL INFORMATION**

- The Southwest PREOC is activated to support communities affected by flooding and landslides caused by the Atmospheric River 2021NOV14
- On 2021NOV17 the BC government declared a Provincial State of Emergency to mitigate impacts on transportation networks and 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 British Columbia
- Search & Rescue (SAR) Task Force 1 was deployed on 2021NOV17. They are currently set up in the field to do rapid damage assessment for the west side of Sumas Prairie
- As a result of the severe weather events, EMBC has approved Disaster Financial Assistance (DFA) for flooding in the Vancouver Island, Southwest and Central regions of the province, including First Nation communities, electoral areas and municipal areas within these regions
- On 2021NOV19 the BC government made an announcement to prioritize fuel for essential vehicles and to introduce travel restrictions
  - Non-essential vehicles, including the general public, will still have access to fuel available through retail gas stations. People will be limited to 30 litres per trip to the gas station
  - Non-essential travel along severely affected highways is prohibited by an order for:
    - Highway 99: from the junction of Highway 99 and Lillooet River Road to the BC Hydro Seton Lake Campsite access in Lillooet. Only passenger vehicles and commercial vehicles up to 14,500 kilograms will be permitted.
    - Highway 3: from the junction of Highway 5 and Highway 3 in Hope to the west entrance to Princeton from Highway 3
    - Highway 7: from the junction of Highway 7 and Highway 9 in Agassiz to the junction of Highway 7 and Highway 1 in Hope

## KEY REGIONAL INFORMATION

### Regional Summary

Local Authorities	# SOLEs	# BCRs	# Orders	# Alerts	# RCs	ESS Reg to date	# GL	# in GL current
City of Abbotsford	1		4	4	1	780	1	54
City of Chilliwack	1		4	1	1	929	1	160
District of Kent	1		1		2			
District of Sechelt 2019 Seawatch	1		1					
Fraser Valley Regional District	1		6	1				
Village of Harrison Hot Springs	1							
Hope					0			
Mission	1		0		1	15		
Pemberton						12		
Sunshine Coast Regional District	1		1	1				
<b>TOTAL</b>	<b>8</b>	<b>0</b>	<b>16</b>	<b>7</b>	<b>5</b>	<b>1736</b>	<b>2</b>	<b>214</b>

### River Forecast Centre

UPDATE: 2021NOV19 at 0745 hrs

The River Forecast Centre is maintaining the following advisory:

Sumas River including Sumas Prairie and surround areas – Flood Warning (MAINTAINED)

The following advisories are ended:

Fraser Valley, including the Chilliwack River – High Streamflow Advisory (ENDED)

River levels on tributary rivers through the region have receded to pre-event levels. Flows in lake-fed watersheds are slower to recede but have dropped below levels of concern. Flooding persists in the Sumas River and Sumas Prairie areas. Showers over the next few days are expected to be light, with limited contribution to flood level expected. Longer range rainfall is possible into next week and is continuing to be monitored for potential impacts to flood level. Overflow from the Nooksack River is not expected to contribute to the Sumas River drainage over the coming days, and the Nooksack River has dropped below flood level

### Ministry of Agriculture, Food and Fisheries

- Feed delivered by air to one hog operation in the Sumas Prairie (~4,000 hogs) this morning
- Continuing to support deliveries of livestock feed and water as requested
- Liaising with MOTI to facilitate road access to agricultural operations

SWE PREOC Registered Livestock premises under order and alert:

- Estimated premises under Order: 149
- Estimated premises under Alert: 32
- Estimated animals under Order/Alert: beef cattle (278/1022); dairy cattle (22710/1500) horses (28/12); sheep (29/100); swine (5027/30); goats (24/100); poultry (2020095/285874); other (24/14)

### Canadian Armed Forces

- 1 x Griffon completing a community/grocery supply flight today, 2021NOV20
- 1 x Griffon moving 3 Incident Management Team members from Kamloops to Abbotsford today, 2021NOV20
- 108 land personnel deployed into SWE, primarily assisting the Municipality of Abbotsford with various emergency management tasks

## ENVIRONMENT CANADA WEATHER FORECAST FOR – 2021NOV20

### Abbotsford

Sun AM Mainly cloudy. Clearing in the afternoon. High 6. UV index 1 or low  
 Sun PM Clear. Low plus 1

Mon AM Cloudy with 40 percent chance of showers. High 6  
 Mon PM Periods of rain. Low plus 4

### Pemberton

Sun AM Cloudy with 60 percent chance of wet flurries in the morning then 60 percent chance of rain showers late in the morning and in the afternoon then partly cloudy. High plus 4. UV index 1 or low  
 Sun PM Cloudy periods. Low minus 4

Mon AM Snow or rain. High plus 2  
 Mon PM Rain or snow. Low zero

There are currently no weather alerts

## FIRST NATIONS

### Chawathil First Nation:

- **Incident:** Flooding
- EOC activated for flooding
- Water in flood zone slowly going down
- Was able to pick up food from Camp Hope, food needs ongoing
- There was a small fire when the power came back on
- 12 homes have flooded
- Donation Center/Food Bank set up

### Kwikwetlem First Nation:

- **Incident:** Flood Alert
- EOC activated 2021NOV15

### Leq'á:mel First Nation:

- **Incident:** Flooding
- Virtual EOC activated 2021NOV15 due to flooding

### Lower Stl'at'imx (LSTC):

- **Incident:** Heavy rain caused multiple landslides closing roads and affecting power to Douglas, Samahquam, and Skatin. Road now fully open on the west side
- EOC was activated 2021NOV15 and stood down on 2021NOV18 at 1700 hrs
- Telus optic cable has been severed at the 39km slide, repairs forthcoming
- Stranded campers have left Tipella and made it to Pemberton



- In-SHUCK-ch FSR - Road access to north to Pemberton has not been established for all communities

#### **Lytton First Nation/Camp Hope**

- **Incident:** Activated in support of evacuees located at Camp Hope. Additional accommodation may be available at Camp Hope

#### **Musqueam First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV17 due to flooding

#### **Peters First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV14 for flooding

#### **Seabird Island**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- There are issues with telecommunications connectivity
- Concerns for food and fuel delivery

#### **Shxw̓ha:y Village First Nation**

- **Incident:** Flooding
- EOC is activated 2021NOV17 in support of the flooding and landslide response in the region

#### **Shsw'ow'hamel First Nation**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Skawahlook First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Soowahlie First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- Power is back on
- Community is under a boil water advisory
- Concern for long term food and water supply
- There is road access to Chilliwack

#### **Spuzzum First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding
- Community water supply remains low while repairs are being made to intake, mainlines and road to intake.
- Continuing work to supply community with potable water- water tanker on stand by if needed
- Continuing to work at intake and main line to fix damage to water infrastructure
- Developing foods and supply chains as community members can not leave community as highways is closed to closest town and has very limited stocks
- Working to ensure emergency access routes are planned for emergencies services as needed
- There is currently no landline service (2021NOV19)
- Livestock feed concerns, ongoing need for animal feed

#### **Squamish First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Sts'ailes First Nation:**

- **Incident:** Flooding
- The school has been closed for the week due to staff travel issues
- Fleetwood Mt Rd was badly washed out and there is concern for an accompanying pipe which provides drinking water to 600 people in Sts'ailes.
- Food needs ongoing, social assistance team sourced some food and will distribute it through the food bank
- Geotech assessment of exposed water pipe 2021NOV20
- Houses that are flooded have subsided; one house is still affected
- 8 of 10 stranded members are now home to the community
- Food bank opened 2021NOV19

#### **Sumas First Nation**

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding
- Concern for long term food supply
- There is limited road access to Abbotsford
- People from a few homes have been displaced due to flooding
- Need for power to be restored on Kilgard Rd
- There was a fire on Sumas land but no other incidents were reported from fire as at 2021NOV17
- Sandbags arrived on 2021NOV17

### **LOCAL AUTHORITIES**

#### **Abbotsford:**

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding
- **Alerts: 4**
  - Issued 2021NOV15 for 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 Properties)
  - Issued 2021NOV14 for Clayburn Area: Clayburn Village and surrounding area (30 Properties)
  - Expanded 2021NOV15 (2 Alerts) for Sumas Prairie: Westside of Whatcom Road, East of Huntingdon Village, Southside of Vye Road; Westside of Sumas Way to West of Riverside Road, East of Sumas River Dike to Boundary Road (140 Properties)
  - The Evacuation Alert issued on 2021NOV14 for Matsqui Village: Grace Road North to the Matsqui Slough (12 Properties) was rescinded on 2021NOV17 at 2200hrs
  - The Evacuation Alert issued on 2021NOV14 for Eagle Mountain Area: Cranberry Court, Briarwood Place, Doneagle Place (12 -15 Properties) was rescinded on 2021NOV17 at 2200hrs
  - The Evacuation Alert issued 2021NOV14 for Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road (30 Properties) was rescinded on 2021NOV17 at 2200hrs
  - The Evacuation Alert which was expanded on 2021NOV15 for Straiton Areas: Dawson Road East of Sumas Mountain Road, Straiton Road between Old Clayburn Road and Sumas Mountain Road (60 Properties) was rescinded on 2021NOV17 at 2200hrs
- **Properties Alerted:** 1870
- **Orders: 4**
  - Issued 2021NOV15 (2 Orders) for Straiton Road (7 Properties, 15 properties)
  - Issued 2021NOV15 for Sumas Prairie including the area bordered by: Sumas Mountain, and Yale Road to the North, the US border to the South, the Sumas River dike to the East and Sumas Way to the west (619 properties).

On 2021NOV17 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

- Issued 2021NOV16 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 properties)
- **Properties Ordered:** to be confirmed
- **State of Local Emergency: 1** – issued 2021NOV15 and expires 2021NOV23 at midnight
- **Reception Centre(s): 1**, Tradex, 1190 Cornell Street (RC and GL - hours of operation: 24/7)
- **Individuals Registered with ESS:** 780 registered to date, 54 persons in group lodging
- Primary water intake at Noorish Creek is completely blocked with sediment. Working on engineering strategy. Currently drawing from much smaller secondary source at Canal Lake
- Samaritan Purse has arrived and are on site with a day team and a night team

#### Chilliwack:

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding causing travellers to be stranded
- **Alerts: 1**
  - Issued 2021NOV16 Yarrow, from Boundary Road to Browne Road, and from the Vedder River to Majuba Hill Road
- **Orders: 4**
  - Issued 2021NOV17 at 1100hrs for property at 47000 block of Yale Road
  - Issued 2021NOV17 at 1100hrs for property at 43000 block of Old Orchard Road
  - Issued 2021NOV16 at 0930hrs for Yarrow, from Boundary Road to Browne Road, and all of Majuba Hill
  - Issued 2021NOV15 at 1230hrs for 4 properties on Yale Road and 3 properties on Chartwell Drive
- **State of Local Emergency: 1**, Expanded 2021NOV16 expires 2021NOV23 at midnight
- **Reception Centres:** 1, Chilliwack Landing Sports Centre, 45530 Spadina Avenue
- **Individuals Registered with ESS:** 929
- **Group Lodging Facilities:** 1, Evergreen Hall, 9291 Corbould Street (160 Registered)
- On 2021NOV16 the State of Local Emergency that was declared on 2021NOV15 for areas of the 47000 block of Yale Road and the 47000 block of Chartwell Drive was cancelled. On 2021NOV16 a State of Local Emergency was declared for the City of Chilliwack
- ~2800 people were evacuated
- If capacity is exceeded at the Chilliwack Landing Sports Centre and Evergreen Hall, 2 additional facilities with a collective capacity of 400 have been identified for use
- Fuel shortages are becoming a concern to Chilliwack General Hospital in terms of home care workers travelling to patients
- Reports of some gas stations having to close due to supply chain issues
- Reports of supply chain issues with grocery stores
- Some poultry and dairy operations with minor to moderate impacts have been reported. The EOC developed and implemented an entry plan for all suppliers and farmers to provide fuel and feed to farms in affected areas

#### Coquitlam:

- **Incident:** Flooding
- EOC activated 2021NOV17 to coordinate provision of support, equipment and staffing for other communities

#### Delta:

- **Incident:** Heavy rain caused localized flooding throughout areas of Delta
- EOC Activated in response to issues related to flooding and high winds
- Monitoring and maintaining drainage infrastructure

#### Fraser Valley Regional District:

- **Incident:** Heavy rainfall causing overland flooding and mudslides
- **Alerts: 1**
  - Issued on 2021NOV18 at 1645hrs for Othello Road, FVRD Electoral Area B for 1 property on Othello Road and 1 property on Tunnels Road.
  - On 2021NOV18 the Evacuation Alert issued on 2021NOV15 at 1530hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 7 properties on Obyrne Road was rescinded
- **Properties Alerted: 2**
- **Orders: 6**
  - Issued 2021NOV15 at 0915hrs for Othello Road, FVRD Electoral Area "B" for 3 properties on Fish Camp Road and 5 properties on Othello Road
  - Expanded 2021NOV16 – The order issued 2021NOV14 at 1130hrs for Bridal Falls Area, FVRD Electoral Area "D" was expanded on to include 3 properties on Bridal Falls Road and 2 properties on Popkum Road South
  - Issued 2021NOV18 at 1605hrs for Chilliwack River Valley Electoral Area "E" for selected portion of 1 property on the 50800 block of OByrne Road
  - Issued 2021NOV15 at 1230hrs for Chilliwack River Valley Electoral Area "E" for 13 properties on Chilliwack Lake Road and 8 properties on Wilson Road
  - Issued 2021NOV15 at 0030hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 4 properties on Auchenway Road
  - Issued 2021NOV19 at 1530hrs for Hatzic Island, FVRD Electoral Area G for 1 property on Shook Road
  - The Evacuation Order issued 2021NOV15 at 1630 for Cultus Lake, FVRD Electoral Area "H" for 17 properties on Lakeshore Drive was rescinded 2021NOV18 at 1430hrs
- **Properties Evacuated: 37**
- **State of Local Emergency: 1** - declared 2021NOV14 at 2230 for all Electoral Areas of the FVRD and was extended on 2021NOV18 to expire on 2021NOV28
  - Leisure Valley – Rapid Damage Assessment being completed today, 2021NOV20, at site as well as hydrotechnical assessment. Assessment will include Frosst Creek as well as Leisure Valley site
  - Othello Road – Hydrotechnical assessment of the Coquihalla River is to occur on Sunday, 2021NOV21. Evacuation order/alert remains in place pending assessment of bank stability
  - Hatzic Island – Evacuation order remains in place until geotechnical assessment. Safe drinking water and septic concerns to be addressed in conjunction with Fraser Health. Continued communications with Dewdney Area Improvement District (DAID) regarding CP rail regarding blocked culvert affecting drainage of lake
  - Bridal Falls Rd – Review of evacuation order area underway. Updated geotechnical report indicated area which needs to remain in evacuation order status
  - Addressing limited fuel sources in Yale and transporting needed supplies to Boston Bar and surrounding areas
  - Working to identify an aircraft fuel source for the Hope Airpark; and a local fuel source for fire department
  - Damage Assessment underway for FVRD infrastructure, utilities, and Parks
  - Distribution of goods and medications to Boston Bar is a concern
  - Cultus Lake pump station, Minter wastewater treatment plant generators damaged, damage assessment to be completed

#### **Village of Harrison Hot Springs:**

- **Incident:** Flooding along the Miami Slough
- **State of Local Emergency: 1** – declared 2021NOV15 for the Village of Harrison Hotsprings and expires 2021NOV22 at midnight
- EOC activated on 2021NOV15 due to localized flooding along the Miami Slough
- Sewage is backing up and lift stations cannot keep up to the demand

#### **District of Hope:**

- **Incident:** Multiple people stranded by highway closures
- **Reception Centre(s):** 0, Hope Secondary School, 444 Stuart St. Closed
- **Individuals Registered with ESS:** unknown

- The 2 Reception Centres have closed and food distribution centres are starting to demobilize. Extra food is being redistributed to the food bank.
- Demobilizing cots and blankets back to the Province
- Public works continues to conduct damage assessments to infrastructure
- Working to re-establish internet at Municipal Hall
- Working to establish Advance Planning and Recovery Units
- Power has been restored on 2021NOV15 but communication issues still persist
- Some transport corridors open for essential traffic
- Reduced number of stranded travellers
- Food and fuel supplies holding and supply chains being re-established. Ongoing food/supply deliveries occurring at Hope airport

#### **District of Kent:**

- **Incident:** Landslide threatening people and property along Rockwell Drive
- **Orders:** 1, Issued on 2021NOV15 for Rockwell Drive, Rockwell Lane, Rockwell Place, Pirates Lane, Thunderbird Crescent, and Dogwood Lane
- **State of Local Emergency:** 1 – declared 2021NOV14 for Rockwell Drive and extended to 2021NOV28 at midnight
- **Properties Evacuated:** 6
- **Reception Centre(s):** 2, (Harrison Hot Springs Resort Hotel; Agassiz Agricultural Hall, 6800 Pioneer Avenue (for evacuees from the Hwy #7 slides))
- **Individuals Registered with ESS:** number unconfirmed
- Multiple landslides on Rockwell Drive (6500, 6900 and 7000 blocks). The road is blocked at the intersection of Lillooet Rd. Clearing of Rockwell Drive is in progress
- **Incident:** Hwy 7 landslide
- Approximately 275 people rescued from Highway 7 2021NOV15
- Crews are working to make access through the slide area
- Infrastructure such as lift stations and wastewater plants are operating at closer to normal levels
- Flood pumps at Hammersley Pump Station are again running. Pumping capacity has increased in Harrison Mills with the addition of a rental pump
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

#### **Langley, Township of:**

- **Incident:** Mudslide threatening people and property
- **Properties Evacuated:** 0
- **Individuals Registered with ESS:** 2
- Crew mobilized to repair slope at 7800 block of 264 St and to repair bridge wingwall washout at 23600 block of 64 Ave. Still in progress as of 2021NOV19
- Dozens of hay bales from flooded properties in Fort Langley are ending up in the Salmon River and impacting the flood boxes of the dike station. Crews and contractors are mobilized to remove the hay bales
- Interim repairs are in progress for 40 Avenue as per geotechnical recommendations
- Monitoring Jacob Haldi Bridge between Fort Langley and Kwantlen First Nations / Metro Vancouver Regional Park for debris getting stuck at the bridge that is flowing down the Fraser River
- A community centre at 5339 207th Street has been flooded with about 2' of water in the basement

#### **Metro Vancouver Regional District:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

- Concern for solid and bio waste. Reaching capacity with no current mechanism to remove this from the region

#### **Mission:**

- **Incident:** Localized flooding and mutual aid
- **Orders:** 0, Issued 2021NOV16 for 8 properties located on the 8400 block of Bembow Street in Hatzic (8 properties) and rescinded on 2021NOV19 at 1100 hrs
- **Properties Evacuated:** 8 properties
- **State of Local Emergency:** 1, Issued 2021NOV16 to expire on 2021NOV23 at midnight
- **Reception Centre(s):** 1, Virtual
- **Individuals Registered with ESS:** 15
- EOC activated due to localized flooding and to provide mutual aid to Abbotsford
- On 2021NOV16 a State of Local Emergency and an Evacuation Order were issued for properties on Bembow Street in Hatzic
- Remote Mission EOC/RC currently processing extensions for families under Evacuation Order in Hatzic – Benbow.
- Remote Mission EOC/RC currently processing extensions for families under Evacuation Order. Extensions given for supports to November 22. (2 extended)
- 1 new registration as of 2021NOV19, 8 total for RC
- Kent extensions processed until November 22. 2021 (8 extended)
- On road remains closed in Mission and one road is single lane only
- Benbow Street Evacuation Order rescinded
- Requesting community support to house animals/livestock affected by flooding in neighbouring communities. Social media post being drafted and list is being compiled. In collaboration with Ministry of Agriculture.

#### **Pemberton:**

- **Incident:** Flooding
- EOC activated 2021NOV15 due to flood activity
- **Individuals Registered with ESS:** 12
- As highways reopen, drafts of traffic plans are being created to prioritize essential goods and services to get through first
- A coordinated travel advisory between the SLRD, member municipalities and First Nation communities is being drafted to highlight key messages including Hwy 99/Duffey Lake Road will be open to essential traffic only, that recreation travel is not permitted, checkpoints are expected, winter conditions are in effect on this route and being fully prepared for considerable delays with food, water, warm clothes, blankets and other emergency supplies is critical. This advisory will also stress that there are no gas stations between Pemberton/Mt. Currie and Lillooet and supplies at these locations may be limited or not available.

#### **Port Coquitlam:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

#### **Squamish Lillooet Regional District:**

- **Incident:** Flood threat to properties
- **Alerts:** 0
- EOC activated 2021NOV15 due to flood threat to properties and water levels continue to rise
- The evacuation alert issued on 2021NOV15 for Tunnel Station/Upper Paradise Valley – Electoral Area D was rescinded 2021NOV16
- The Red Cross continues to provide emergency support services to stranded travellers throughout the SLRD
- A geotechnical engineer will be in the Jason Creek area again 2021NOV18, continuing their survey of the creek system in the Reid Road and Walkerville areas where damage has been observed. As the area is heavily treed and the upper reaches are inaccessible by foot, the plan is for a drone flight to the upper reaches of the two creeks. Initial

findings from 2021NOV17 is that there is further debris available to come downstream in the next heavy rain event, and at the furthest point able to be surveyed on foot today, the creek is still running black, indicating further debris available upstream of this point. Further erosion will likely compromise the foundation of two to three residential structures, and such erosion is assessed as likely given that additional upstream debris is available to come down in the next heavy rain event. Geotechnical report currently being completed after further ground and drone survey work on 2021NOV18

- The SLRD is working with MFLNRORD and MoTI for urgent access improvements to the McKenzie FSR and Reid Road
- The EOC has requested advice from the SWE PREOC as to how to mitigate the risk upstream of the Reid Road washout. Terrain is steep, treed, and heavy machinery access may not be possible or with specialized machinery only
- Reid Road is open as of 2021NOV19, one lane only as a temporary repair until upstream debris is addressed
- Geotechnical survey and initial risk assessment of affected creeks and properties has been completed. Written report is expected early next week.
- MoTI contractor Miller Capilano may be able to remove the most readily available debris upstream of Reid Road because it directly threatens the viability of the road, any culvert replacement and full road repair. EOC will continue to liaise with MoTI to confirm next steps.
- Stranded travellers in the SLRD currently receiving ESS include approximately: 19 households in Lillooet, 9 households in Whistler, 5 households in Pemberton.
- Coordinated travel advisory messaging across all jurisdictions in the regional boundaries has been completed in anticipation of Highway 99 / Duffey Lake Road reopening on Sunday November 21. Purpose is to reinforce essential only travel and being prepared for challenging conditions on this stretch of road if travel is undertaken.
- Search and Rescue work is continuing in the Hwy 99 / Duffey Lake Road area.

#### Squamish District

- **Incident:** Localized flooding due to heavy rainfall. Waste Treatment Plant overflowing
- EOC activated 2021NOV15 due to localized flooding concerns
- A task force has been formed for the Mamquam – Ring Creek Rd damage. As of 2021NOV17, the fracture is approximately 500m long
- On 2021NOV18, Squamish Nation reported damage to the informal diking on the Cheakamus River that runs alongside the Cheakamus Reserve. District of Squamish staff will conduct a joint damage assessment of the area with Squamish Nation staff
- Paradise Valley residents reported access and egress challenges on the gravel section of Paradise Valley Road near the Jack Webster bridge. District Public Works assessed the situation and sent a grader to improve the road
- A sinkhole in the Squamish River dike near the Kowtain reserve is being assessed and monitored. Squamish Nation has been engaged
- A coordinated travel advisory between the SLRD, member municipalities and First Nations communities is being drafted to highlight key messages including that Hwy 99/Duffey Lake Road will be open to essential traffic only, that recreation travel is not permitted, checkpoints are expected, winter conditions are in effect on this route and being fully prepared for considerable delays with food, water, warm clothes, blankets and other emergency supplies is critical. This advisory will also stress that there are no gas stations between Pemberton/Mt. Currie and Lillooet and supplies at these locations may be limited or not available.
- The DOS Emergency Operation Centre (EOC) is standing down as of 1700 hrs, November 19, 2021 under Task #223879, and will reopen at 0900 hrs, November 22, 2021 to support emergency response as required.

#### Sunshine Coast Regional District

- **Incident:** Localized flooding due to heavy rainfall
- EOC activated 2021NOV15 due to localized flooding
- **Alerts:** 1
- Issued 2021NOV15 for 14 properties on Ocean Beach Esplanade and Lower Road (2 properties placed on order 2021NOV16)
- **Properties Alerted:** 12
- **Orders:** 1
- Issued 2021NOV16 for 2 properties on Ocean Beach Esplanade

- **Properties Evacuated: 2**
- **State of Local Emergency: 1**, Issued 2021NOV15 expires 2021NOV22 for Electoral Areas A, B, D, E and F
- Assessments on Chapman Dam, Edwards Dam, and McNeil Lake Dam indicate no concerns
- Contractor at Whitaker Creek responding to debris flow with excavator. Excavator work completed. Report that material is being removed from buildings under order 2021NOV20
- Roberts Creek Campground road needs attention and site visit occurring for emergency vehicle access. Working with BC Parks to close access through Parks, as Beach Ave now open (1 lane) 2021NOV21
- Chapman Creek Water Treatment Plant continued issues with intake. Continuing to monitor
- The 2 properties placed on evacuation order 2021NOV16 are not occupied. Only 2 of the 14 homes placed on evacuation alert 2021NOV15 are occupied
- Boil water advisories issued (2021NOV15 at 1330) Still in effect. Permission received from VCH to lift Boil Water Advisory for Welcome Woods area. Gibsons/Reed Road area still under Boil Water Advisory 2021NOV20
- Fortis reports exposed gas line at Stephens Road and Lower Road and they are preparing for re-routing and/or shutoff
- Preparing for damage assessment of 2 properties on Ocean Beach Esplanade

#### **Surrey:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding
- Crews are continuing to clean up and repair roads that have been washed out, replace flood boxes and restore spillways that have been damaged. They are also assessing damage to some pump stations due to flooding
- An individual who resides in the interior is stranded in Surrey and has reached out to the ESS team for support
- Firefighters and ESS volunteers sent to Abbotsford for support
- ESS support line remains open for stranded individuals looking for assistance

#### **Translink:**

- Translink has activated their Emergency Coordination Centre in response to flooding impacts
- Continued delivery of a safe public transportation system (rail, bus) by identifying safety issues and responding as required. Monitoring fuel supplies and critical resources
- Some minor flooding of infrastructure occurred earlier this week and this has been rectified
- Managing consequences for supply chain issues to ensure continued essential public transit services

#### **Vancouver, City of**

- **Incident:** Flooding
- EOC activated 2021NOV17 for flood support and stood down on 2021NOV18 at 1700 hrs
- Situation stabilized, VFRS and VPD resources supporting Abbotsford stood down as military support has arrived
- Will continue supply chain assessments outside the EOC
- Hazards in Fraser River due to significantly increased levels of debris floating down, assessing possible impact to infrastructure

#### **Whistler:**

- **Incident:** ESS host community

### **AGENCIES**

#### **Ministry of Transportation and Infrastructure (MoTI):**

- MoTI South Coast Region has activated their Ministry Operations Centre and District Operations Centre
- Working with Ministry of Agriculture regarding logistics on inbound, outbound, and staging for resources and materials to assist MAFF and the farmers in the Sumas Prairie
- Hwy 1:



- Popkum to Hope – CLOSED anticipating single lane in each direction within 24 hours
- Hope to Boston Bar – emergency access only
- Boston Bar to Spences Bridge – CLOSED assessments are continuing on problem areas, no ETO at this time
- Abbotsford – CLOSED McCallum to Yale Rd, as water recedes assessments are occurring. ETO - Unknown
- Hwy 3 is open to essential travel. Single lane in each direction with areas of single lane alternating traffic. Heavy equipment continues to work in the area
- Highway 7: Mission to Agassiz - OPEN to two way traffic; Agassiz to Hope - OPEN to single lane alternating traffic for essential travel. Heavy equipment continues work in area
- Hwy 99 is open to essential travel only
- Hwy 5 Hope to Merritt: CLOSED

#### **Vancouver Fraser Port Authority (VFPA):**

- Communications issues are resolved
- All rail service coming to and from the Port of Vancouver is halted; impacts to supply chain anticipated but unknown at this time; waiting on damage assessment to rail lines and timeframe for re-opening to have a clearer picture on impacts
- Vessel delays and heightened anchorage demand are expected due to disruptions to terminal operations. VFPA are working closely with their terminal operators, railways, and all levels of government to understand the impacts of these delays on terminal operations and to develop a recovery plan
- Freshet-like conditions seen on the Fraser River: request to ship masters to exercise additional caution; potential for overhead clearances being less than advertised on CHS Charts and increased wood debris/heightened shoreline damage from a vessel's wake; additional tug support may be requested to ensure safe passage to and from berth to avoid accumulated debris
- Real-time insights into Port of Vancouver operations can be accessed through the PortVan eHub app, which can be downloaded at <https://www.portvancouver.com/port-dashboard/ehub-app/> or through the App Store. Daily updates on import rail performance and weekly updates on truck terminal turn time performance are available through the port authority's website <https://www.portvancouver.com/port-dashboard/>

#### **HEALTH INFORMATION**

**No impacts reported**

#### **LIVESTOCK IMPACTED**

##### **Ministry of Agriculture Updates:**

- Coordinating drop of 4 tons of feed to a hog farm in Abbotsford by helicopter. Feed is brought to a staging area and BCWS is moving it by air
- Providing assistance to Spuzzum FN for livestock feed
- Reach out to Chilliwack EOC today letting them know AFF staff are available
- One request for feed assistance with horses relocated to Heritage Park in Chilliwack
- Continuing to work on road access with Abbotsford EOC for livestock owners, feed, and farm vehicles

SWE PREOC Registered Livestock premises under order and alert:

- Estimated premises under Order: 149
- Estimated premises under Alert: 32
- Estimated animals under Order/Alert: beef cattle (278/1022); dairy cattle (22710/1500) horses (28/12); sheep (29/100); swine (5027/30); goats (24/100); poultry (2020095/285874); other (24/14)

#### **TRANSPORTATION IMPACTED**

**Drive BC**

Highway 1 Both Directions - Highway 1, in both directions. Flooding between K St and Junction Hwy 12 for 104.7 km (Hope to Lytton). Rock slide. Road closed. Estimated time of opening not available. Assessment in progress. Road is closed starting at the Highway 1 / 7 Junction. Road is open for EMERGENCY VEHICLES ONLY from Hope to Boston Bar

Highway 1, in both directions. Flooding between Flood Hope Rd and Junction Hwy 8 for 144.3 km (Hope to Spences Bridge). Rockslide. Road closed. Assessment in progress. Estimated time of opening not available

Highway 1, in both directions. Flooding between Exit 90: McCallum Rd and Exit 109: Yale Rd for 20.1 km (Abbotsford to Chilliwack). The road is closed. Estimated time of opening not available. Assessment in progress

Highway 1. Flooding between Junction Hwy 12 and Junction Hwy 8 for 35.6 km (Lytton to Spences Bridge). Rock slide. Road closed. Estimated time of opening not available. Assessment in progress

Highway 3, in both directions. Mudslide between Sunshine Valley and Allison Pass Summit for 36.9 km (17 to 54 km east of Hope). OPEN TO ESSENTIAL TRAVEL ONLY!. Expect Major delays due to congestion. One lane each direction with areas of single lane alternating traffic. Watch for crews. Checkpoints are set up along the route

Highway 5, in both directions. Washout between Hope and Merritt. Road closed. Estimated time of opening not available. Detour not available. Damage assessment in progress. Multiple washouts

Highway 7, in both directions. Mudslide between Johnson Slough Rest Area and Ross Rd for 12.6 km (Kent to 1 km east of Hope). Assessment in progress. Highway is open to essential travel only. Single lane alternating traffic in place. Watch for hydro crews

Highway 7, in both directions. Mudslide between Highlands Blvd and Bodnar Rd (Kent). Flooding. Expect Major delays due to congestion. Open to one lane each direction. Single lane late alternating traffic from 7 AM to 7 PM

Highway 11, in both directions. Flooding between Hazelwood Ave and Townshipline Rd for 2.9 km (Abbotsford). Road closed. Detour not available

Highway 99, in both directions. Mudslide between Lil'wat Pl and Seton Lake Rd for 81.9 km (9 km north of Pemberton to Lillooet). Road closed. Estimated time of opening not available. Assessment in progress

King George Blvd., northbound. Bridge closed at Nicomekl Bridge. Assessment in progress. Please use alternate route

#### UTILITIES IMPACTED

##### BC Hydro

- 2021NOV20 update - There are currently ~ 90 customers without power within the Lower Mainland and Sunshine Coast remain without power due to flooding, mud/snow slides and trees down on wires
- [BC Hydro bill help for BC Residents who are evacuated](#)
- **For more information:** <https://www.bchydro.com/power-outages/app/outage-list.html>

#### USEFUL LINKS/RESOURCES

[Ministry of Agriculture, Food and Fisheries Flooding Information](#)

[EMBC Current Flooding Information](#)

[River Forecast Centre](#)

[Drive BC](#)

[Environment Canada](#)

[Avalanche Canada Weather Forecast](#)

[BC Hydro](#)

[Disaster Financial Assistance Website](#)

**APPROVED BY:**

*Original signed by*

Debbie Alexander

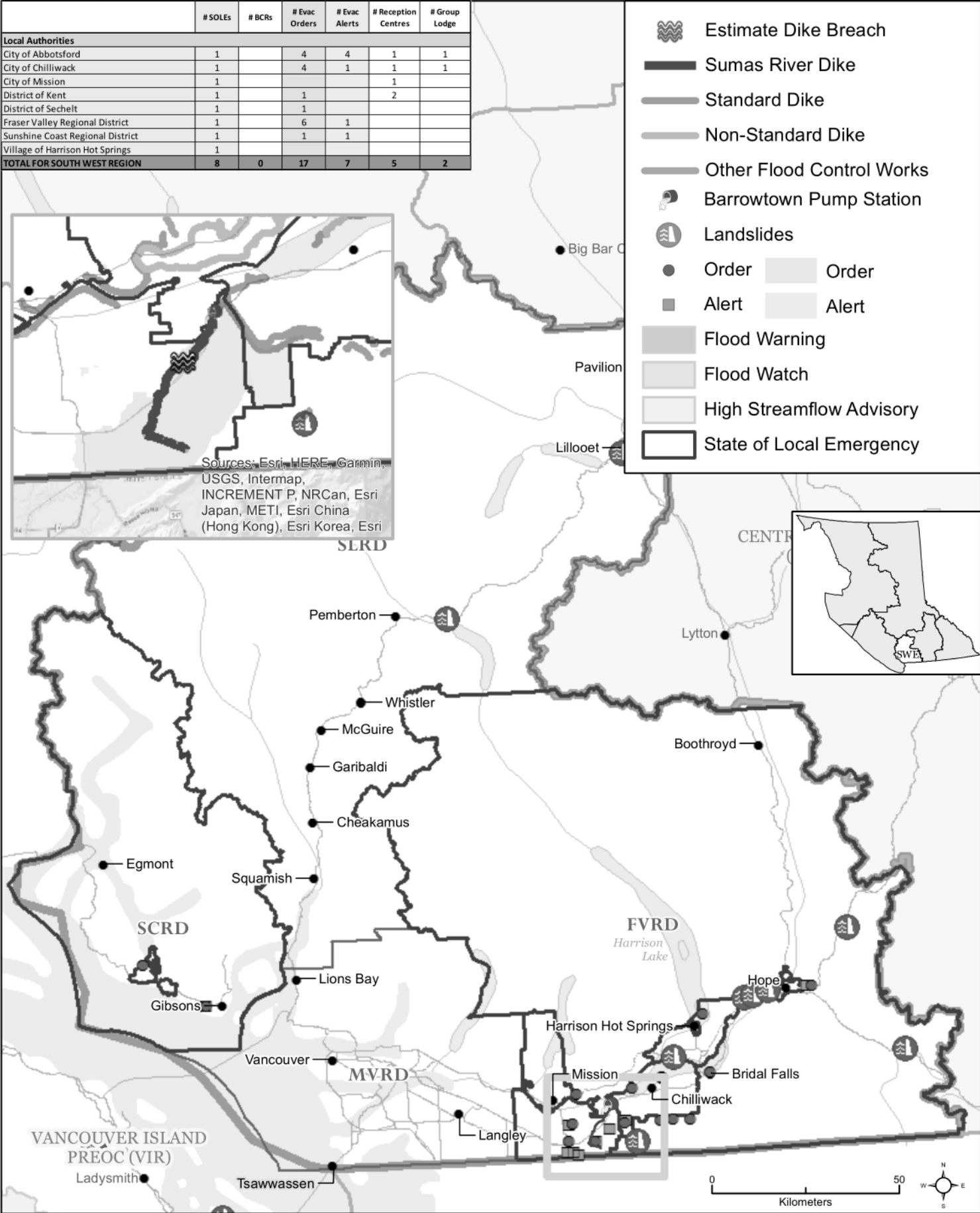
**PREOC Deputy Director**

**Note:** Information contained in this situation report is for operational purposes only. The contained information is not meant for public information. If you wish you use contained information for a media release, you must clear it with the PREOC Director.

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# South West (SWE) Provincial Regional Operational Centre (PREOC) Atmospheric River Events

2021-11-20



UPDATED 2021-11-20 Time: 14:27

File: W:\lmb\PEP\response\SWE\task223862\_ISC\_AtmosphericRiver\arcgisprojects\task223862\_sitmap\_8x11\_20211120.mxd

# SWE Situation Report #8 and Map for 2021NOV21

From: preoc2.lia1@gov.bc.ca  
Sent: November 21, 2021 5:46:50 PM PST  
Attachments: SWE PREOC Situation Report #8 2021NOV21.pdf, Situation Map #8 2021NOV21.pdf

## South West Provincial Regional Emergency Operations Centre (SWE PREOC)

### SITUATION REPORT #8

#### Event: Atmospheric River

Date/Time Issued: 2021-11-21; 1700

Task #: 223862

Operational Period: 2021-11-21

Primary PREOC Email: [preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)

Primary PREOC Phone: 778-572-3962

Primary PREOC Fax: 604-586-4083

Overall Regional Situation: Static

Activated EMBC Staff: 13      Activated TEAMS: 9      Agency: 14      Other: 6      Remote: 7

The next Situation Report will be issued: 2021-11-22 at 1700hrs

The next Coordination Call will be: 2021-11-22 @ 1100hrs

\*\* New information

### KEY PROVINCIAL INFORMATION

0. The Southwest PREOC is activated to support communities affected by flooding and landslides caused by the Atmospheric River 2021NOV14
1. On 2021NOV17 the BC government declared a Provincial State of Emergency to mitigate impacts on transportation networks and 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 British Columbia
2. Search & Rescue (SAR) Task Force 1 was deployed on 2021NOV17. They are currently set up in the field to do rapid damage assessment for the west side of Sumas Prairie
3. As a result of the severe weather events, EMBC has approved Disaster Financial Assistance (DFA) for flooding in the Vancouver Island, Southwest and Central regions of the province, including First Nation communities, electoral areas and municipal areas within these regions
4. On November 19, 2021, the Minister of Public Safety and Solicitor General announced two new Orders under the Emergency Program Act prioritizing fuel for essential vehicles, limiting fuel purchases to 30 litres per trip for the general public, and restricting non-essential travel through impacted areas.
  - This order applies to all fuel suppliers in the Lower Mainland-to-Hope region, the Sea-to-Sky region, Sunshine Coast, the Gulf Islands and Vancouver Island

### KEY REGIONAL INFORMATION

#### Regional Summary

Local Authorities	# SOLEs	# BCRs	# Orders	# Alerts	# RCs	ESS Reg to date	# GL	# in GL current
City of Abbotsford	1		4	4	1	800	1	46
City of Chilliwack	1		4	1	1	945	1	70
District of Kent	1		1		1			
District of Sechelt 2019 Seawatch*	1		1					
Fraser Valley Regional District	1		7	2				
Village of Harrison Hot Springs	1							
Village of Lillooet						70		
Mission	1		0		1	15		

Pemberton						13		
Sunshine Coast Regional District	1		1	1				
Whistler						22		
<b>TOTAL</b>	<b>8</b>	<b>0</b>	<b>18</b>	<b>7</b>	<b>4</b>	<b>1,865</b>	<b>2.</b>	<b>116</b>

## River Forecast Centre

UPDATE: 2021NOV19 at 0745 hrs

The River Forecast Centre is maintaining the following advisory:

Sumas River including Sumas Prairie and surround areas – Flood Warning (MAINTAINED)

The following advisories are ended:

Fraser Valley, including the Chilliwack River – High Streamflow Advisory (ENDED)

River levels on tributary rivers through the region have receded to pre-event levels. Flows in lake-fed watersheds are slower to recede but have dropped below levels of concern. Flooding persists in the Sumas River and Sumas Prairie areas. Showers over the next few days are expected to be light, with limited contribution to flood level expected. Longer range rainfall is possible into next week and is continuing to be monitored for potential impacts to flood level. Overflow from the Nooksack River is not expected to contribute to the Sumas River drainage over the coming days, and the Nooksack River has dropped below flood level

## Fraser River Debris Trap Update

### ADVISORY – Update 2021NOV21 1200hrs

An increase in logs and large woody debris may be experienced on the Lower Fraser River, downstream of Agassiz through Friday November 26. Recreational boaters, marine traffic and infrastructure operators should be aware that more logs than normal may be floating downstream due to decreased performance of the Fraser River Debris Trap

High debris volumes misaligned the booms that direct debris into the Trap following the rainfall event. An assessment and repairs are underway. With a return to more seasonal lower flow levels along the Fraser River, the volume of woody debris entering the Trap is lower than during spring freshet periods

Normally, the Fraser River Debris Trap diverts up to 70% of the woody debris coming downstream near Agassiz before it flows into the lower reaches of the Fraser. Although there is always some volume of logs and floating debris in the River, an increase in the number of floating logs getting past the Debris Trap is anticipated

## Air Operation Branch

- 6 helicopters in total - 1 type 1 (Heavy), 4 type 2 (Mediums), 1 type 3 (Intermediate)
- 4 Helibase managers operating out of Hope, Chilliwack and Abbotsford
- 6 aviation ground support staff positioned in Abbotsford assisting with all aspects of air operations support
- Multiple flights flying physicians, nurses, patients, medical supplies, miscellaneous cargo and CISM staff
- Additional fixed wing and rotary wing aircraft also available through the Military and Coast Guard
- All request today have been filled as of 2021NOV21

## Canadian Armed Forces

### CAF Air Task Force (ATF):

- 2021NOV21: 3 x CH146 Griffons preparing for test flight. Air Task Force in place in Abbotsford
- 2021NOV22: No requests at this time, however SWE is reported to be compiling flight requests, with First Nation Emergency Support Services, for community supply delivery. Ministry of Health has indicated requests are being formulated. 1 x CH147 Chinook arriving

### CAF Land Task Force (LTF):

- 2021NOV21: Supporting Chawathil First Nation with community sandbagging. Also conducting Sumas dyke reconnaissance, and sandbagging for Barrowtown pump. 200 land force members moving by road to Vernon where they will remain for at least the next 24 hours

- 2021NOV22: Current tasks will be continued in the short term

#### Longer Term Plans:

- 1 x CH147 Chinook arriving approximately 2021NOV22

#### PREOC Emergency Support Services Branch

- The PREOC ESS Branch is activated in support of active Reception Centres and Group Lodging and other ESS issues in the Southwest Region
- Working to source ESS staff/volunteers for Chilliwack and Abbotsford Reception Centres
- The Red Cross working to open a Recovery Centre at Abbotsford Tradex Centre possibly by Wednesday, 2021NOV24

#### Transportation Branch

- **Hwy 1** - Working on the essential orders to restrict Hwy 1 Abbotsford reopening to allow MAFF related vehicles for the Sumas Prairie area while continuing to liaise with MOTI LMD DOC to assess road conditions to get ETA on Hwy 1 reopening for MAFF
- **Farm access** - Working with MAFF to establish routes available for farmers to access farms if available. Cole Road on single lane alternating traffic, Vye Road is open for Ag related vehicles, and Highway 11 is open from Vye to Highway 1. Highway 1 is closed but the on ramp for NB to Hwy 1 WB is available with traffic mgmt. in place
- **City of Abbotsford** - Liaise with COA EOC and provided mapping of available routes that COA has assessed and can be used within the Sumas Prairie area
- **Hwy 3** - Working on a request to see if an exemption window can be potentially provided on Hwy 3 for dairy to be transported down to the lower mainland
- **Sediment repurposing enquiry by FVRD** - Determine collaboration opportunities with the Province (EMBC and MOTI) for the removal and repurposing of the sediments for use in road washout chasms

#### ENVIRONMENT CANADA WEATHER FORECAST FOR – 2021NOV21

##### Abbotsford

Mon AM	Cloudy. Rain beginning near noon. Wind east 30 km/h. High 6. UV index 1 or low
Mon PM	Rain. Low plus 4
Tue AM	Cloudy with 60 percent chance of showers. High plus 5
Tue PM	Periods of rain. Low plus 4

##### Pemberton

Mon AM	Cloudy. Snow beginning early in the morning then changing to rain near noon. Snowfall amount 2 to 4 cm. Wind up to 15 km/h. High plus 1. Wind chill minus 4 in the morning
Mon PM	Rain or snow. Low zero
Tue AM	Cloudy. High plus 2
Tue PM	Periods of snow. Low minus 1

There are currently no weather alerts

#### FIRST NATIONS

##### Chawathil First Nation:

- **Incident:** Flooding
- EOC activated for flooding
- Community has limited access to Hope
- Working on food security issues
- Donation Center/Food Bank set up

##### Katzie First Nation:

- **Incident:** Flooding
- EOC activated 2021NOV20 in response to flooding

- Pump set up in IR3 Barnston Island
- Concern about septic systems IR3 Barnston Island
- Prepping for future rain

#### **Kwikwetlem First Nation:**

- **Incident:** Flood Alert
- EOC activated 2021NOV15

#### **Leq'á:mel First Nation:**

- **Incident:** Flooding
- Virtual EOC activated 2021NOV15 due to flooding

#### **Lower Stl'atl'imx (LSTC):**

0. **Incident:** Heavy rain caused multiple landslides closing roads and affecting power to Douglas, Samahquam, and Skatin. Road now fully open on the west side
1. EOC was activated 2021NOV15 and stood down on 2021NOV18 at 1700 hrs
2. Telus optic cable has been severed at the 39km slide, repairs forthcoming

#### **Lytton First Nation/Camp Hope**

- **Incident:** Activated in support of evacuees located at Camp Hope. Additional accommodation may be available at Camp Hope

#### **Musqueam First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV17 due to flooding
- In the process of rapid damage assessments. 10 properties are damaged - primarily basement flooding

#### **Peters First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV14 for flooding

#### **Seabird Island**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- Issues with telecommunications connectivity. Concerns for food and fuel delivery

#### **Shxw'ha:y Village First Nation**

- **Incident:** Flooding
- EOC is activated 2021NOV17 in support of the flooding and landslide response in the region

#### **Shsw'ow'hamel First Nation**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Skawahlook First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

#### **Soowahlie First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- The community has road access to Chilliwack
- Community is under a boil water advisory
- Concern for long term food and water supply

#### **Spuzzum First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding
- Community water supply remains low while repairs are being made to intake, mainlines and road to intake.



- Continuing work to supply community with potable water- water tanker on stand by if needed
- Continuing to work at intake and main line to fix damage to water infrastructure
- Community has access to Mission
- Livestock food drops have been received
- Currently at half capacity in water reservoir

#### Squamish First Nation:

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- EOC remains activated to provide ESS support for members trapped in inside and outside of the Lower Mainland
- No residential property damage, some flooding on Squamish Valley Reserves

#### Sts'ailes First Nation:

3. **Incident:** Flooding
4. Geotech assessment of exposed water pipe 2021NOV20
5. Houses that are flooded have subsided; one house is still affected
6. 8 of 10 stranded members are now home to the community
7. Food bank opened 2021NOV19

#### Sumas First Nation

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding
- Concern for long term food supply
- There is limited road access to Abbotsford
- People from a few homes have been displaced due to flooding
- Need for power to be restored on Kilgard Rd

### LOCAL AUTHORITIES

#### Abbotsford:

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding
- **Alerts: 4**
  - Issued 2021NOV15 for 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 Properties)
  - Issued 2021NOV14 for Clayburn Area: Clayburn Village and surrounding area (30 Properties)
  - Expanded 2021NOV15 (2 Alerts) for Sumas Prairie: Westside of Whatcom Road, East of Huntingdon Village, Southside of Vye Road; Westside of Sumas Way to West of Riverside Road, East of Sumas River Dike to Boundary Road (140 Properties)
- **Properties Alerted:** 1870
- **Orders: 4**
  - Issued 2021NOV15 (2 Orders) for Straiton Road (7 Properties, 15 properties)
  - Issued 2021NOV15 for Sumas Prairie including the area bordered by: Sumas Mountain, and Yale Road to the North, the US border to the South, the Sumas River dike to the East and Sumas Way to the west (619 properties). On 2021NOV17 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
  - Issued 2021NOV16 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 properties)
- **Properties Ordered:** to be confirmed
- **State of Local Emergency: 1** – issued 2021NOV15 and expires 2021NOV23 at midnight
- **Reception Centre(s): 1**, Tradex, 1190 Cornell Street (RC and GL - hours of operation: 24/7)
- **Individuals Registered with ESS:** 800 registered to date, 46 persons in group lodging
- Emergency repairs continue along Sumas dike
- Spillway is partially opened on Sumas River
- BC Wildfire Service IMT arrived at Abbotsford EOC for staffing surge capacity, CTF-1 at site for Rapid Damage Assessment of impacted areas
- Volunteers are on site filling sandbags

- Large scale agriculture operations continue to coordinate emergency relocations and feed to impacted areas

#### Chilliwack:

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding causing travellers to be stranded
- **Alerts: 1**
  - Issued 2021NOV16 Yarrow, from Boundary Road to Browne Road, and from the Vedder River to Majuba Hill Road
- **Orders: 4**
  - Issued 2021NOV17 at 1100hrs for property at 47000 block of Yale Road
  - Issued 2021NOV17 at 1100hrs for property at 43000 block of Old Orchard Road
  - Issued 2021NOV16 at 0930hrs for Yarrow, from Boundary Road to Browne Road, and all of Majuba Hill
  - Issued 2021NOV15 at 1230hrs for 4 properties on Yale Road and 3 properties on Chartwell Drive
- **State of Local Emergency:** 1, Expanded 2021NOV16 expires 2021NOV23 at midnight
- **Reception Centres:** 1, Chilliwack Landing Sports Centre, 45530 Spadina Avenue
- **Individuals Registered with ESS:** 945 (69 new registrants 2021NOV20)
- **Group Lodging Facilities:** 1, Evergreen Hall, 9291 Corbould Street (70 Registered)
- On 2021NOV16 the State of Local Emergency that was declared on 2021NOV15 for areas of the 47000 block of Yale Road and the 47000 block of Chartwell Drive was cancelled. On 2021NOV16 a State of Local Emergency was declared for the City of Chilliwack
- Fuel shortages are becoming a concern to Chilliwack General Hospital in terms of home care workers travelling to patients – Fuel source has been secured and providing to FVRD FD and Health Workers
- Multiple culverts need replacing

#### Coquitlam:

- **Incident:** Flooding
- EOC activated 2021NOV17 to coordinate provision of support, equipment and staffing for other communities
- No emergency conditions exist in Coquitlam

#### Delta:

- **Incident:** Heavy rain caused localized flooding throughout areas of Delta
8. EOC Activated in response to issues related to flooding and high winds
  9. Monitoring and maintaining drainage infrastructure

#### Fraser Valley Regional District:

- **Incident:** Heavy rainfall causing overland flooding and mudslides
- **Alerts: 2**
  - Issued on 2021NOV18 at 1645hrs for Othello Road, FVRD Electoral Area B. Geographic areas on Othello Road and Tunnels Road
  - Issued 2021NOV21 at 1245hrs for Chilliwack River Valley Electoral Area "E" for selected area on Hansom Road
- **Properties Alerted:** 3 properties
- **Orders: 7**
  - Issued 2021NOV15 at 0915hrs for Othello Road, FVRD Electoral Area "B". Geographic areas on Fish Camp Road and Othello Road
  - Expanded 2021NOV16 – The order issued 2021NOV14 at 1130hrs for Bridal Falls Area, FVRD Electoral Area "D" was expanded on to include Geographic areas on Bridal Falls Road and Popkum Road South
  - Issued 2021NOV21 at 1245hrs for Chilliwack River Valley Electoral Area "E" for selected area on Hansom Road
  - Issued 2021NOV18 at 1605hrs for Chilliwack River Valley Electoral Area "E" for selected area of OByrne Road
  - Issued 2021NOV15 at 1230hrs for Chilliwack River Valley Electoral Area "E" for geographic areas on Chilliwack Lake Road and Wilson Road
  - Issued 2021NOV15 at 0030hrs for Chilliwack River Valley, FVRD Electoral Area "E" for geographic areas on Auchenway Road
  - Issued 2021NOV19 at 1530hrs for Hatzic Island, FVRD Electoral Area G for geographic areas on Shook Road
- **Properties Evacuated:** 37 geographic areas, 72 properties, 367 units
- **State of Local Emergency: 1** - declared 2021NOV14 at 2230 for all Electoral Areas of the FVRD and was extended on 2021NOV18 to expire on 2021NOV28
- Currently the FVRD has 37 geographic areas of impact
- Hansom Road - Geotechnical assessment on Hansom Road identified several small landslides and tension cracks on the ground. 1 house is determined to be unsafe to occupy. An evacuation order placed on selected property on Hansom Road and an evacuation alert placed on selected property on Hansom Road

- Leisure Valley - Hydrotechnical assessment completed on Leisure Valley, Columbia Valley Road. Before the evacuation order can be lifted, the engineer has identified two requirements: Reestablishment of the Creek Channel through the site; Reconstruction of the berm and establishment of erosion protection (riprap) along the left bank. There is immediate risk of continued flooding and sediments deposit on the property without the completion of these works
  - Damage assessment was completed at Leisure Valley by FVRD Operations Staff. At least two dwellings are structurally unsafe and most others are surrounded by several feet of debris. Structural integrity of these units is uncertain
  - 23 units are affected by flooding, debris flow and are currently surrounded by debris ranging from 1 to 4 feet deep. A portion of the stream channel is filled with debris, a critical culvert is blocked and a berm protected the property was eroded. At this time, we are unsure of the extent of water damage to all units. However, our preliminary assessment is that 6 are high damage, 18 are damaged and need further assessment, and 26 units appear to be unaffected
- Othello Road - Geotechnical Assessment underway today. There is an evacuation order and alerts on Othello Road. The hydrotechnical engineer will assess the immediate risks and temporary placement of riprap if needed
- Hatzic Island, Everglade evacuation order is still active. Potential hydrotechnical assessment on 2021NOV20
- Bridal Falls Rd – Review of evacuation order area underway. Updated geotechnical report indicated area which needs to remain in evacuation order status
- Addressing limited fuel sources in Yale and transporting needed supplies to Boston Bar and surrounding areas
- Working to identify an aircraft fuel source for the Hope Airpark; and a local fuel source for fire department
- Damage Assessment underway for FVRD infrastructure, utilities, and Parks

#### Village of Harrison Hot Springs:

- **Incident:** Flooding along the Miami Slough
- **State of Local Emergency: 1** – declared 2021NOV15 for the Village of Harrison Hotsprings and expires 2021NOV22 at midnight
- EOC activated on 2021NOV15 due to localized flooding along the Miami Slough
- Sewage is backing up and lift stations cannot keep up to the demand

#### District of Hope:

- **Incident:** Multiple people stranded by highway closures
- **Reception Centre(s):** 0, Hope Secondary School, 444 Stuart St. Closed
- **Individuals Registered with ESS:** unknown
- Public works continues to conduct damage assessments to infrastructure
- Working on advanced planning
- HOPE.CA emails are being restored through the temporary satellite system
- The 2 Reception Centres have closed and food distribution centres are starting to demobilize. Extra food is being redistributed to the Camp Hope
- Demobilized cots and blankets back to the Province. Removed 2021NOV20

#### District of Kent:

- **Incident:** Landslide threatening people and property along Rockwell Drive
- **Orders:** 1, Issued on 2021NOV15 for Rockwell Drive, Rockwell Lane, Rockwell Place, Pirates Lane, Thunderbird Crescent, and Dogwood Lane
- **State of Local Emergency: 1** – declared 2021NOV14 for Rockwell Drive and extended to 2021NOV28 at midnight
- **Properties Evacuated: 6**
- **Reception Centre(s):** 1, (Harrison Hot Springs Resort Hotel)
- **Individuals Registered with ESS:** number unconfirmed
- Multiple landslides on Rockwell Drive (6500, 6900 and 7000 blocks). The road is blocked at the intersection of Lillooet Rd. Clearing of Rockwell Drive is in progress
- Full access to emergency vehicles is restored
- MoTI has determined that Rockwell Drive is safe for travel. A section of the slope at the 6900 block landslide may be unstable. Discussions ongoing with MoTI to determine if road should be closed during next rainfall
- Working towards geotechnical engineer to assess the danger to life and safety on Rockwell Drive
- All properties in the Rockwell Drive corridor remain under evacuation order
- **Incident:** Hwy 7 landslide
- Approximately 275 people rescued from Highway 7 2021NOV15
- Fire department operations are ongoing at Highway 7 (Seabird Bluffs) landslide site. Additional vehicles have been found and recovery is underway in cooperation with tow operators

**Langley, Township of:**

- **Incident:** Mudslide threatening people and property
- **Properties Evacuated:** 0
- **Individuals Registered with ESS:** 2
- Crew mobilized to repair slope at 7800 block of 264 St and to repair bridge wingwall washout at 23600 block of 64 Ave. In progress as of 2021NOV21
- Dozens of hay bales from flooded properties in Fort Langley are ending up in the Salmon River and impacting the flood boxes of the dike station. Crews and contractors are mobilized to remove the hay bales – monitoring over the weekend
- Interim repairs are in progress for 40 Avenue as per geotechnical recommendations
- Monitoring Jacob Haldi Bridge between Fort Langley and Kwantlen First Nations / Metro Vancouver Regional Park for debris getting stuck at the bridge that is flowing down the Fraser River

**Metro Vancouver Regional District:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

**Mission:**

- **Incident:** Localized flooding and mutual aid
- **Properties Evacuated:** 0, All 8 properties affected have returned home
- **State of Local Emergency:** 1, Issued 2021NOV16 to expire on 2021NOV23 at midnight
- **Reception Centre(s):** 1, Virtual RC continuing to support evacuees from the District of Kent using ERA
- **Individuals Registered with ESS:** 0, all Mission evacuees have returned home
- EOC activated due to localized flooding and to provide mutual aid to Abbotsford
- On 2021NOV16 a State of Local Emergency and an Evacuation Order were issued for properties on Bembow Street in Hatzic

**Pemberton:**

- **Incident:** Flooding
- EOC activated 2021NOV15 due to flood activity
- **Individuals Registered with ESS:** 13
- As highways reopen, drafts of traffic plans are being created to prioritize essential goods and services to get through first

**Port Coquitlam:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

**Squamish Lillooet Regional District:**

- **Incident:** Flood threat to properties
- **Alerts:** 0
- EOC activated 2021NOV15 due to flood threat to properties and water levels continue to rise
- Reid Road is open as of 2021NOV19, one lane only as a temporary repair until upstream debris is addressed
- Geotechnical survey and initial risk assessment of affected creeks and properties has been completed. Written report is expected early next week.
- MoTI contractor Miller Capilano may be able to remove the most readily available debris upstream of Reid Road because it directly threatens the viability of the road, any culvert replacement and full road repair. EOC will continue to liaise with MoTI to confirm next steps.
- Stranded travellers in the SLRD currently receiving ESS include approximately: 19 households in Lillooet, 9 households in Whistler, 5 households in Pemberton.
- Coordinated travel advisory messaging across all jurisdictions in the regional boundaries has been completed in anticipation of Highway 99 / Duffey Lake Road reopening on Sunday November 21. Purpose is to reinforce essential only travel and being prepared for challenging conditions on this stretch of road if travel is undertaken.
- Search and Rescue work is continuing in the Hwy 99 / Duffey Lake Road area.

**Squamish District**

- **Incident:** Localized flooding due to heavy rainfall. Waste Treatment Plant overflowing
- EOC activated 2021NOV15 due to localized flooding concerns

- The DOS Emergency Operation Centre (EOC) is standing down as of 1700 hrs, November 19, 2021 under Task #223879, and will reopen at 0900 hrs, November 22, 2021 to support emergency response as required

#### Sunshine Coast Regional District

- **Incident:** Localized flooding due to heavy rainfall
- EOC activated 2021NOV15 due to localized flooding
- **Alerts:** 1
- Issued 2021NOV15 for 14 properties on Ocean Beach Esplanade and Lower Road (2 properties placed on order 2021NOV16)
- **Properties Alerted:** 12
- **Orders:** 1
- Issued 2021NOV16 for 2 properties on Ocean Beach Esplanade
- **Properties Evacuated:** 2
- **State of Local Emergency:** 1, Issued 2021NOV15 extended to 2021NOV29 for Electoral Areas A, B, D, E and F
- Assessments on Chapman Dam, Edwards Dam, and McNeil Lake Dam indicate no concerns
- Contractor at Whitaker Creek responding to debris flow with excavator. Excavator work completed. Report that material is being removed from buildings under order 2021NOV20
- Roberts Creek Campground road needs attention and site visit occurring for emergency vehicle access. Working with BC Parks to close access through Parks, as Beach Ave now open (1 lane) 2021NOV21
- Chapman Creek Water Treatment Plant continued issues with intake. Continuing to monitor
- The 2 properties placed on evacuation order 2021NOV16 are not occupied. Only 2 of the 14 homes placed on evacuation alert 2021NOV15 are occupied
- Boil water advisories issued (2021NOV15 at 1330). Permission received from VCH to lift Boil Water Advisory for Welcome Woods area. Gibsons/Reed Road area still under Boil Water Advisory 2021NOV20
- Fortis reports exposed gas line at Stephens Road and Lower Road and they are preparing for re-routing and/or shutoff
- Preparing for damage assessment of 2 properties on Ocean Beach Esplanade

#### Surrey:

- **Incident:** Localized flooding
  - EOC activated 2021NOV15 due to localized flooding
0. Surrey continues to conduct cleanup activities and ESS support for the Atmospheric flooding event

#### Translink:

1. Translink has activated their Emergency Coordination Centre in response to flooding impacts
2. Continued delivery of a safe public transportation system (rail, bus) by identifying safety issues and responding as required. Monitoring fuel supplies and critical resources

#### District of West Vancouver

- **Incident:** Atmospheric River/Storm Surge
- EOC activated 2021NOV15
- Seawall damage

#### Whistler:

- **Incident:** ESS host community
  - **Individuals Registered with ESS:** 22

#### AGENCIES

#### Ministry of Transportation and Infrastructure (MoTI):

- MoTI South Coast Region has activated their Ministry Operations Centre and District Operations Centre
- Working with Ministry of Agriculture regarding logistics on inbound, outbound, and staging for resources and materials to assist MAFF and the farmers in the Sumas Prairie
- Hwy 1:
  - Popkum to Hope – OPEN with steady flow of traffic
  - Hope to Boston Bar – emergency access only, anticipate essential travel access by end of day, 2021NOV21
  - Boston Bar to Spences Bridge – CLOSED assessments are continuing on problem areas, no ETO at this time
  - Abbotsford – CLOSED McCallum to Yale Rd, as water recedes assessments are occurring. ETO – Unknown. Working to provide access as possible with agriculture

- Hwy 3 is OPEN to essential travel. Single lane in each direction with areas of single lane alternating traffic. Heavy equipment continues to work in the area
- Highway 7: Mission to Agassiz - OPEN to two way traffic; Agassiz to Hope - OPEN with lane in each direction for essential travel. Heavy equipment continues work in area
- Hwy 99 is OPEN to essential travel, limitations on commercial trucks
- Hwy 5 Hope to Merritt: CLOSED

## HEALTH INFORMATION

No impacts reported

## LIVESTOCK IMPACTED

### Ministry of Agriculture Updates:

- Essential Agriculture vehicle certification requests web form live for unlimited fuelling of agricultural vehicles: <https://www2.gov.bc.ca/gov/content/industry/agriculture-seafood/agricultural-land-and-environment/water/flooding-emergency-resources#localcontact>
- Mental wellness resources posted to AFF website: <https://www2.gov.bc.ca/gov/content/industry/agriculture-seafood/agricultural-land-and-environment/water/flooding-emergency-resources#mentalwellness>
- No change to Premises under order or alert
- Continuing to respond to requests from EOCs for assistance

### SWE PREOC Registered Livestock premises under order and alert:

- Estimated premises under Order: 149
- Estimated premises under Alert: 32
- Estimated animals under Order/Alert: beef cattle (278/1022); dairy cattle (22710/1500) horses (28/12); sheep (29/100); swine (5027/30); goats (24/100); poultry (2020095/285874); other (24/14)

## TRANSPORTATION IMPACTED

### Drive BC

Highway 1, in both directions. Flooding between Exit 90: McCallum Rd and Exit 109: Yale Rd for 20.1 km (Abbotsford to Chilliwack). The road is closed. Estimated time of opening not available. Assessment in progress. Watch for traffic control.

Highway 1, in both directions. Mudslide between Exit 135 and Exit 171: Old Hope-Princeton Highway for 35.3 km (Hope to 2 km east of Chilliwack). Lane Closure. Expect delays due to congestion. Travel for essential purposes only. Drivers are reminded to drive to conditions and use caution.

Highway 1, in both directions. Flooding between K St and Junction Hwy 12 for 104.7 km (Hope to Lytton). Rock slide. Road closed. Estimated time of opening not available. Assessment in progress. Road is closed starting at the Highway 1 / 7 Junction. Road is open for EMERGENCY VEHICLES ONLY from Hope to Boston Bar.

Highway 1. Flooding between Junction Hwy 12 and Junction Hwy 8 for 35.6 km (Lytton to Spences Bridge). Rock slide. Road closed. Estimated time of opening not available. Assessment in progress

Highway 3, in both directions. Mudslide between Sunshine Valley and Allison Pass Summit for 36.9 km (17 to 54 km east of Hope). Expect Major delays due to congestion. Open for essential travel only, defined in the Travel Restrictions Order through the Emergency Program Act. One lane each direction with areas of single lane alternating traffic. Watch for crews. Checkpoints are set up along the route.

Highway 5, in both directions. Washout between Hope and Merritt. Road closed. Estimated time of opening not available. Detour not available. Damage assessment in progress. Multiple washouts

Highway 7, in both directions. Mudslide between Johnson Slough Rest Area and Ross Rd for 12.6 km (Kent to 1 km east of Hope). Open for essential travel only, defined in the Travel Restrictions Order through the Emergency Program Act. Checkpoints will be in place and travel restrictions will be enforced. Watch for crews and drive to conditions

Highway 7, in both directions. Mudslide between Highlands Blvd and Bodnar Rd (Kent). Flooding. Watch for traffic control. Open for regular 2-way travel. Drivers are reminded to drive to conditions and use caution. Watch for crews.

Highway 11, in both directions. Flooding between Hazelwood Ave and Townshipline Rd for 2.9 km (Abbotsford). Road closed. Southbound open to EMERGENCY VEHICLES ONLY. Northbound remains closed. Local detours available via local roads.

Highway 99, in both directions. Travel advisory in effect between Lil'wat Pl and Seton Lake Rd for 81.9 km (9 km north of Pemberton to Lillooet). Open for essential travel only, defined in the Travel Restrictions Order through the Emergency Program Act. Checkpoints will be in place and travel restrictions will be enforced. Only vehicles up to 14,500 kg will be permitted. Expect changing winter conditions.

King George Blvd., northbound. Bridge closed at Nicomekl Bridge. Assessment in progress. Please use alternate route

## UTILITIES IMPACTED

### BC Hydro

- 2021NOV21 update - There are currently ~ 87 customers without power within the Lower Mainland and Sunshine Coast remain without power due to flooding, mud/snow slides and trees down on wires
- [BC Hydro bill help for BC Residents who are evacuated](#)
- **For more information:** <https://www.bchydro.com/power-outages/app/outage-list.html>

## USEFUL LINKS/RESOURCES

[Ministry of Agriculture, Food and Fisheries Flooding Information](#)

[EMBC Current Flooding Information](#)

[River Forecast Centre](#)

[Drive BC](#)

[Environment Canada](#)

[Avalanche Canada Weather Forecast](#)

[BC Hydro](#)

[Disaster Financial Assistance Website](#)

### APPROVED BY:

*Original signed by*

Debbie Alexander

**PREOC Deputy Director**

**Note:** Information contained in this situation report is for operational purposes only. The contained information is not meant for public information. If you wish you use contained information for a media release, you must clear it with the PREOC Director.

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Have a good evening!

**Lexi Shinde**

**Liaison 1**

**Southwest Regional PREOC**

**[Emergency Management British Columbia](#)**

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**South West Provincial Regional Emergency Operations Centre (SWE PREOC)****SITUATION REPORT #8****Event: Atmospheric River****Date/Time Issued:** 2021-11-21; 1700**Task #:** 223862**Operational Period:** 2021-11-21**Primary PREOC Email:** [preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)**Primary PREOC Phone:** 778-572-3962**Primary PREOC Fax:** 604-586-4083**Overall Regional Situation:** Static

Activated EMBC Staff: 13

Activated TEAMS: 9

Agency: 14

Other: 6

Remote: 7

**The next Situation Report will be issued:** 2021-11-22 at 1700hrs**The next Coordination Call will be:** 2021-11-22 @ 1100hrs

\*\* New information

**KEY PROVINCIAL INFORMATION**

- The Southwest PREOC is activated to support communities affected by flooding and landslides caused by the Atmospheric River 2021NOV14
- On 2021NOV17 the BC government declared a Provincial State of Emergency to mitigate impacts on transportation networks and 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 British Columbia
- Search & Rescue (SAR) Task Force 1 was deployed on 2021NOV17. They are currently set up in the field to do rapid damage assessment for the west side of Sumas Prairie
- As a result of the severe weather events, EMBC has approved Disaster Financial Assistance (DFA) for flooding in the Vancouver Island, Southwest and Central regions of the province, including First Nation communities, electoral areas and municipal areas within these regions
- On November 19, 2021, the Minister of Public Safety and Solicitor General announced two new Orders under the Emergency Program Act prioritizing fuel for essential vehicles, limiting fuel purchases to 30 litres per trip for the general public, and restricting non-essential travel through impacted areas.
  - This order applies to all fuel suppliers in the Lower Mainland-to-Hope region, the Sea-to-Sky region, Sunshine Coast, the Gulf Islands and Vancouver Island

**KEY REGIONAL INFORMATION****Regional Summary**

Local Authorities	# SOLEs	# BCRs	# Orders	# Alerts	# RCs	ESS Reg to date	# GL	# in GL current
City of Abbotsford	1		4	4	1	800	1	46
City of Chilliwack	1		4	1	1	945	1	70
District of Kent	1		1		1			
District of Sechelt 2019 Seawatch*	1		1					
Fraser Valley Regional District	1		7	2				
Village of Harrison Hot Springs	1							

Village of Lillooet						70		
Mission	1		0		1	15		
Pemberton						13		
Sunshine Coast Regional District	1		1	1				
Whistler						22		
<b>TOTAL</b>	<b>8</b>	<b>0</b>	<b>18</b>	<b>7</b>	<b>4</b>	<b>1,865</b>	<b>2</b>	<b>116</b>

**\*SOLE unrelated to current event**

## **River Forecast Centre**

UPDATE: 2021NOV19 at 0745 hrs

The River Forecast Centre is maintaining the following advisory:

Sumas River including Sumas Prairie and surround areas – Flood Warning (MAINTAINED)

The following advisories are ended:

Fraser Valley, including the Chilliwack River – High Streamflow Advisory (ENDED)

River levels on tributary rivers through the region have receded to pre-event levels. Flows in lake-fed watersheds are slower to recede but have dropped below levels of concern. Flooding persists in the Sumas River and Sumas Prairie areas. Showers over the next few days are expected to be light, with limited contribution to flood level expected. Longer range rainfall is possible into next week and is continuing to be monitored for potential impacts to flood level. Overflow from the Nooksack River is not expected to contribute to the Sumas River drainage over the coming days, and the Nooksack River has dropped below flood level

## **Fraser River Debris Trap Update**

### **ADVISORY – Update 2021NOV21 1200hrs**

An increase in logs and large woody debris may be experienced on the Lower Fraser River, downstream of Agassiz through Friday November 26. Recreational boaters, marine traffic and infrastructure operators should be aware that more logs than normal may be floating downstream due to decreased performance of the Fraser River Debris Trap

High debris volumes misaligned the booms that direct debris into the Trap following the rainfall event. An assessment and repairs are underway. With a return to more seasonal lower flow levels along the Fraser River, the volume of woody debris entering the Trap is lower than during spring freshet periods

Normally, the Fraser River Debris Trap diverts up to 70% of the woody debris coming downstream near Agassiz before it flows into the lower reaches of the Fraser. Although there is always some volume of logs and floating debris in the River, an increase in the number of floating logs getting past the Debris Trap is anticipated

## **Air Operation Branch**

- 6 helicopters in total - 1 type 1 (Heavy), 4 type 2 (Mediums), 1 type 3 (Intermediate)
- 4 Helibase managers operating out of Hope, Chilliwack and Abbotsford
- 6 aviation ground support staff positioned in Abbotsford assisting with all aspects of air operations support
- Multiple flights flying physicians, nurses, patients, medical supplies, miscellaneous cargo and CISM staff
- Additional fixed wing and rotary wing aircraft also available through the Military and Coast Guard
- All request today have been filled as of 2021NOV21

## **Canadian Armed Forces**

**CAF Air Task Force (ATF):**

- 2021NOV21: 3 x CH146 Griffons preparing for test flight. Air Task Force in place in Abbotsford
- 2021NOV22: No requests at this time, however SWE is reported to be compiling flight requests, with First Nation Emergency Support Services, for community supply delivery. Ministry of Health has indicated requests are being formulated. 1 x CH147 Chinook arriving

**CAF Land Task Force (LTF):**

- 2021NOV21: Supporting Chawathil First Nation with community sandbagging. Also conducting Sumas dyke reconnaissance, and sandbagging for Barrowtown pump. 200 land force members moving by road to Vernon where they will remain for at least the next 24 hours
- 2021NOV22: Current tasks will be continued in the short term

**Longer Term Plans:**

- 1 x CH147 Chinook arriving approximately 2021NOV22

**PREOC Emergency Support Services Branch**

- The PREOC ESS Branch is activated in support of active Reception Centres and Group Lodging and other ESS issues in the Southwest Region
- Working to source ESS staff/volunteers for Chilliwack and Abbotsford Reception Centres
- The Red Cross working to open a Recovery Centre at Abbotsford Tradex Centre possibly by Wednesday, 2021NOV24

**Transportation Branch**

- **Hwy 1** - Working on the essential orders to restrict Hwy 1 Abbotsford reopening to allow MAFF related vehicles for the Sumas Prairie area while continuing to liaise with MOTI LMD DOC to assess road conditions to get ETA on Hwy 1 reopening for MAFF
- **Farm access** - Working with MAFF to establish routes available for farmers to access farms if available. Cole Road on single lane alternating traffic, Vye Road is open for Ag related vehicles, and Highway 11 is open from Vye to Highway 1. Highway 1 is closed but the on ramp for NB to Hwy 1 WB is available with traffic mgmt. in place
- **City of Abbotsford** - Liaise with COA EOC and provided mapping of available routes that COA has assessed and can be used within the Sumas Prairie area
- **Hwy 3** - Working on a request to see if an exemption window can be potentially provided on Hwy 3 for dairy to be transported down to the lower mainland
- **Sediment repurposing enquiry by FVRD** - Determine collaboration opportunities with the Province (EMBC and MOTI) for the removal and repurposing of the sediments for use in road washout chasms

**ENVIRONMENT CANADA WEATHER FORECAST FOR – 2021NOV21****Abbotsford**

Mon AM	Cloudy. Rain beginning near noon. Wind east 30 km/h. High 6. UV index 1 or low
Mon PM	Rain. Low plus 4
Tue AM	Cloudy with 60 percent chance of showers. High plus 5
Tue PM	Periods of rain. Low plus 4

**Pemberton**

Mon AM	Cloudy. Snow beginning early in the morning then changing to rain near noon. Snowfall amount 2 to 4 cm. Wind up to 15 km/h. High plus 1. Wind chill minus 4 in the morning
Mon PM	Rain or snow. Low zero
Tue AM	Cloudy. High plus 2

Tue PM      Periods of snow. Low minus 1

There are currently no weather alerts

## FIRST NATIONS

### Chawathil First Nation:

- **Incident:** Flooding
- EOC activated for flooding
- Community has limited access to Hope
- Working on food security issues
- Donation Center/Food Bank set up

### Katzie First Nation:

- **Incident:** Flooding
- EOC activated 2021NOV20 in response to flooding
- Pump set up in IR3 Barnston Island
- Concern about septic systems IR3 Barnston Island
- Prepping for future rain

### Kwikwetlem First Nation:

- **Incident:** Flood Alert
- EOC activated 2021NOV15

### Leq'á:mel First Nation:

- **Incident:** Flooding
- Virtual EOC activated 2021NOV15 due to flooding

### Lower Stl'atl'imx (LSTC):

- **Incident:** Heavy rain caused multiple landslides closing roads and affecting power to Douglas, Samahquam, and Skatin. Road now fully open on the west side
- EOC was activated 2021NOV15 and stood down on 2021NOV18 at 1700 hrs
- Telus optic cable has been severed at the 39km slide, repairs forthcoming

### Lytton First Nation/Camp Hope

- **Incident:** Activated in support of evacuees located at Camp Hope. Additional accommodation may be available at Camp Hope

### Musqueam First Nation:

- **Incident:** Flooding
- EOC activated 2021NOV17 due to flooding
- In the process of rapid damage assessments. 10 properties are damaged - primarily basement flooding

### Peters First Nation:

- **Incident:** Flooding
- EOC activated 2021NOV14 for flooding

### Seabird Island

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- Issues with telecommunications connectivity. Concerns for food and fuel delivery

**Shxw̓ha:y Village First Nation**

- **Incident:** Flooding
- EOC is activated 2021NOV17 in support of the flooding and landslide response in the region

**Shsw'ow'hamel First Nation**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

**Skawahlook First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

**Soowahlie First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- The community has road access to Chilliwack
- Community is under a boil water advisory
- Concern for long term food and water supply

**Spuzzum First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding
- Community water supply remains low while repairs are being made to intake, mainlines and road to intake.
- Continuing work to supply community with potable water- water tanker on stand by if needed
- Continuing to work at intake and main line to fix damage to water infrastructure
- Community has access to Mission
- Livestock food drops have been received
- Currently at half capacity in water reservoir

**Squamish First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding
- EOC remains activated to provide ESS support for members trapped in inside and outside of the Lower Mainland
- No residential property damage, some flooding on Squamish Valley Reserves

**Sts'ailes First Nation:**

- **Incident:** Flooding
- Geotech assessment of exposed water pipe 2021NOV20
- Houses that are flooded have subsided; one house is still affected
- 8 of 10 stranded members are now home to the community
- Food bank opened 2021NOV19

**Sumas First Nation**

- **Incident:** Flooding
- EOC activated 2021NOV16 for flooding
- Concern for long term food supply
- There is limited road access to Abbotsford
- People from a few homes have been displaced due to flooding
- Need for power to be restored on Kilgard Rd

## LOCAL AUTHORITIES

### Abbotsford:

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding
- **Alerts: 4**
  - Issued 2021NOV15 for 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 Properties)
  - Issued 2021NOV14 for Clayburn Area: Clayburn Village and surrounding area (30 Properties)
  - Expanded 2021NOV15 (2 Alerts) for Sumas Prairie: Westside of Whatcom Road, East of Huntingdon Village, Southside of Vye Road; Westside of Sumas Way to West of Riverside Road, East of Sumas River Dike to Boundary Road (140 Properties)
- **Properties Alerted:** 1870
- **Orders: 4**
  - Issued 2021NOV15 (2 Orders) for Straiton Road (7 Properties, 15 properties)
  - Issued 2021NOV15 for Sumas Prairie including the area bordered by: Sumas Mountain, and Yale Road to the North, the US border to the South, the Sumas River dike to the East and Sumas Way to the west (619 properties). On 2021NOV17 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
  - Issued 2021NOV16 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 properties)
- **Properties Ordered:** to be confirmed
- **State of Local Emergency: 1** – issued 2021NOV15 and expires 2021NOV23 at midnight
- **Reception Centre(s): 1**, Tradex, 1190 Cornell Street (RC and GL - hours of operation: 24/7)
- **Individuals Registered with ESS:** 800 registered to date, 46 persons in group lodging
- Emergency repairs continue along Sumas dike
- Spillway is partially opened on Sumas River
- BC Wildfire Service IMT arrived at Abbotsford EOC for staffing surge capacity, CTF-1 at site for Rapid Damage Assessment of impacted areas
- Volunteers are on site filling sandbags
- Large scale agriculture operations continue to coordinate emergency relocations and feed to impacted areas

### Chilliwack:

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding causing travellers to be stranded
- **Alerts: 1**
  - Issued 2021NOV16 Yarrow, from Boundary Road to Browne Road, and from the Vedder River to Majuba Hill Road
- **Orders: 4**
  - Issued 2021NOV17 at 1100hrs for property at 47000 block of Yale Road
  - Issued 2021NOV17 at 1100hrs for property at 43000 block of Old Orchard Road
  - Issued 2021NOV16 at 0930hrs for Yarrow, from Boundary Road to Browne Road, and all of Majuba Hill
  - Issued 2021NOV15 at 1230hrs for 4 properties on Yale Road and 3 properties on Chartwell Drive
- **State of Local Emergency:** 1, Expanded 2021NOV16 expires 2021NOV23 at midnight
- **Reception Centres:** 1, Chilliwack Landing Sports Centre, 45530 Spadina Avenue
- **Individuals Registered with ESS:** 945 (69 new registrants 2021NOV20)
- **Group Lodging Facilities:** 1, Evergreen Hall, 9291 Corbould Street (70 Registered)
- On 2021NOV16 the State of Local Emergency that was declared on 2021NOV15 for areas of the 47000 block of Yale Road and the 47000 block of Chartwell Drive was cancelled. On 2021NOV16 a State of Local Emergency was declared for the City of Chilliwack

- Fuel shortages are becoming a concern to Chilliwack General Hospital in terms of home care workers travelling to patients – Fuel source has been secured and providing to FVRD FD and Health Workers
- Multiple culverts need replacing

#### **Coquitlam:**

- **Incident:** Flooding
- EOC activated 2021NOV17 to coordinate provision of support, equipment and staffing for other communities
- No emergency conditions exist in Coquitlam

#### **Delta:**

- **Incident:** Heavy rain caused localized flooding throughout areas of Delta
- EOC Activated in response to issues related to flooding and high winds
- Monitoring and maintaining drainage infrastructure

#### **Fraser Valley Regional District:**

- **Incident:** Heavy rainfall causing overland flooding and mudslides
- **Alerts: 2**
  - Issued on 2021NOV18 at 1645hrs for Othello Road, FVRD Electoral Area B. Geographic areas on Othello Road and Tunnels Road
  - Issued 2021NOV21 at 1245hrs for Chilliwack River Valley Electoral Area "E" for selected area on Hansom Road
- **Properties Alerted:** 3 properties
- **Orders: 7**
  - Issued 2021NOV15 at 0915hrs for Othello Road, FVRD Electoral Area "B". Geographic areas on Fish Camp Road and Othello Road
  - Expanded 2021NOV16 – The order issued 2021NOV14 at 1130hrs for Bridal Falls Area, FVRD Electoral Area "D" was expanded on to include Geographic areas on Bridal Falls Road and Popkum Road South
  - Issued 2021NOV21 at 1245hrs for Chilliwack River Valley Electoral Area "E" for selected area on Hansom Road
  - Issued 2021NOV18 at 1605hrs for Chilliwack River Valley Electoral Area "E" for selected area of OByrne Road
  - Issued 2021NOV15 at 1230hrs for Chilliwack River Valley Electoral Area "E" for geographic areas on Chilliwack Lake Road and Wilson Road
  - Issued 2021NOV15 at 0030hrs for Chilliwack River Valley, FVRD Electoral Area "E" for geographic areas on Auchenway Road
  - Issued 2021NOV19 at 1530hrs for Hatzic Island, FVRD Electoral Area G for geographic areas on Shook Road
- **Properties Evacuated:** 37 geographic areas, 72 properties, 367 units
- **State of Local Emergency: 1** - declared 2021NOV14 at 2230 for all Electoral Areas of the FVRD and was extended on 2021NOV18 to expire on 2021NOV28
- Currently the FVRD has 37 geographic areas of impact
- Hansom Road - Geotechnical assessment on Hansom Road identified several small landslides and tension cracks on the ground. 1 house is determined to be unsafe to occupy. An evacuation order placed on selected property on Hansom Road and an evacuation alert placed on selected property on Hansom Road
- Leisure Valley - Hydrotechnical assessment completed on Leisure Valley, Columbia Valley Road. Before the evacuation order can be lifted, the engineer has identified two requirements: Reestablishment of the Creek Channel through the site; Reconstruction of the berm and establishment of erosion protection (riprap) along the left bank. There is immediate risk of continued flooding and sediments deposit on the property without the completion of these works
  - Damage assessment was completed at Leisure Valley by FVRD Operations Staff. At least two dwellings are structurally unsafe and most others are surrounded by several feet of debris. Structural integrity of these units is uncertain
  - 23 units are affected by flooding, debris flow and are currently surrounded by debris ranging from 1 to 4 feet deep. A portion of the stream channel is filled with debris, a critical culvert is blocked and a berm protecting the property was eroded. At this time, we are unsure of the extent of water damage to all units. However, our

preliminary assessment is that 6 are high damage, 18 are damaged and need further assessment, and 26 units appear to be unaffected

- Othello Road - Geotechnical Assessment underway today. There is an evacuation order and alerts on Othello Road. The hydrotechnical engineer will assess the immediate risks and temporary placement of riprap if needed
- Hatzic Island, Everglade evacuation order is still active. Potential hydrotechnical assessment on 2021NOV20
- Bridal Falls Rd – Review of evacuation order area underway. Updated geotechnical report indicated area which needs to remain in evacuation order status
- Addressing limited fuel sources in Yale and transporting needed supplies to Boston Bar and surrounding areas
- Working to identify an aircraft fuel source for the Hope Airpark; and a local fuel source for fire department
- Damage Assessment underway for FVRD infrastructure, utilities, and Parks

#### **Village of Harrison Hot Springs:**

- **Incident:** Flooding along the Miami Slough
- **State of Local Emergency: 1** – declared 2021NOV15 for the Village of Harrison Hotsprings and expires 2021NOV22 at midnight
- EOC activated on 2021NOV15 due to localized flooding along the Miami Slough
- Sewage is backing up and lift stations cannot keep up to the demand

#### **District of Hope:**

- **Incident:** Multiple people stranded by highway closures
- **Reception Centre(s):** 0, Hope Secondary School, 444 Stuart St. Closed
- **Individuals Registered with ESS:** unknown
- Public works continues to conduct damage assessments to infrastructure
- Working on advanced planning
- HOPE.CA emails are being restored through the temporary satellite system
- The 2 Reception Centres have closed and food distribution centres are starting to demobilize. Extra food is being redistributed to the Camp Hope
- Demobilized cots and blankets back to the Province. Removed 2021NOV20

#### **District of Kent:**

- **Incident:** Landslide threatening people and property along Rockwell Drive
- **Orders:** 1, Issued on 2021NOV15 for Rockwell Drive, Rockwell Lane, Rockwell Place, Pirates Lane, Thunderbird Crescent, and Dogwood Lane
- **State of Local Emergency: 1** – declared 2021NOV14 for Rockwell Drive and extended to 2021NOV28 at midnight
- **Properties Evacuated: 6**
- **Reception Centre(s):** 1, (Harrison Hot Springs Resort Hotel)
- **Individuals Registered with ESS:** number unconfirmed
- Multiple landslides on Rockwell Drive (6500, 6900 and 7000 blocks). The road is blocked at the intersection of Lillooet Rd. Clearing of Rockwell Drive is in progress
- Full access to emergency vehicles is restored
- MoTI has determined that Rockwell Drive is safe for travel. A section of the slope at the 6900 block landslide may be unstable. Discussions ongoing with MoTI to determine if road should be closed during next rainfall
- Working towards geotechnical engineer to assess the danger to life and safety on Rockwell Drive
- All properties in the Rockwell Drive corridor remain under evacuation order
- **Incident:** Hwy 7 landslide
- Approximately 275 people rescued from Highway 7 2021NOV15
- Fire department operations are ongoing at Highway 7 (Seabird Bluffs) landslide site. Additional vehicles have been found and recovery is underway in cooperation with tow operators

#### **Langley, Township of:**

- **Incident:** Mudslide threatening people and property



- **Properties Evacuated: 0**
- **Individuals Registered with ESS: 2**
- Crew mobilized to repair slope at 7800 block of 264 St and to repair bridge wingwall washout at 23600 block of 64 Ave. In progress as of 2021NOV21
- Dozens of hay bales from flooded properties in Fort Langley are ending up in the Salmon River and impacting the flood boxes of the dike station. Crews and contractors are mobilized to remove the hay bales – monitoring over the weekend
- Interim repairs are in progress for 40 Avenue as per geotechnical recommendations
- Monitoring Jacob Haldi Bridge between Fort Langley and Kwantlen First Nations / Metro Vancouver Regional Park for debris getting stuck at the bridge that is flowing down the Fraser River

#### **Metro Vancouver Regional District:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

#### **Mission:**

- **Incident:** Localized flooding and mutual aid
- **Properties Evacuated:** 0, All 8 properties affected have returned home
- **State of Local Emergency:** 1, Issued 2021NOV16 to expire on 2021NOV23 at midnight
- **Reception Centre(s):** 1, Virtual RC continuing to support evacuees from the District of Kent using ERA
- **Individuals Registered with ESS:** 0, all Mission evacuees have returned home
- EOC activated due to localized flooding and to provide mutual aid to Abbotsford
- On 2021NOV16 a State of Local Emergency and an Evacuation Order were issued for properties on Bembow Street in Hatzic

#### **Pemberton:**

- **Incident:** Flooding
- EOC activated 2021NOV15 due to flood activity
- **Individuals Registered with ESS:** 13
- As highways reopen, drafts of traffic plans are being created to prioritize essential goods and services to get through first

#### **Port Coquitlam:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

#### **Squamish Lillooet Regional District:**

- **Incident:** Flood threat to properties
- **Alerts: 0**
- EOC activated 2021NOV15 due to flood threat to properties and water levels continue to rise
- Reid Road is open as of 2021NOV19, one lane only as a temporary repair until upstream debris is addressed
- Geotechnical survey and initial risk assessment of affected creeks and properties has been completed. Written report is expected early next week.
- MoTI contractor Miller Capilano may be able to remove the most readily available debris upstream of Reid Road because it directly threatens the viability of the road, any culvert replacement and full road repair. EOC will continue to liaise with MoTI to confirm next steps.
- Stranded travellers in the SLRD currently receiving ESS include approximately: 19 households in Lillooet, 9 households in Whistler, 5 households in Pemberton.
- Coordinated travel advisory messaging across all jurisdictions in the regional boundaries has been completed in anticipation of Highway 99 / Duffey Lake Road reopening on Sunday November 21. Purpose is to reinforce essential only travel and being prepared for challenging conditions on this stretch of road if travel is undertaken.
- Search and Rescue work is continuing in the Hwy 99 / Duffey Lake Road area.

#### **Squamish District**

- **Incident:** Localized flooding due to heavy rainfall. Waste Treatment Plant overflowing
- EOC activated 2021NOV15 due to localized flooding concerns
- The DOS Emergency Operation Centre (EOC) is standing down as of 1700 hrs, November 19, 2021 under Task #223879, and will reopen at 0900 hrs, November 22, 2021 to support emergency response as required

#### **Sunshine Coast Regional District**

- **Incident:** Localized flooding due to heavy rainfall
- EOC activated 2021NOV15 due to localized flooding
- **Alerts:** 1
- Issued 2021NOV15 for 14 properties on Ocean Beach Esplanade and Lower Road (2 properties placed on order 2021NOV16)
- **Properties Alerted:** 12
- **Orders:** 1
- Issued 2021NOV16 for 2 properties on Ocean Beach Esplanade
- **Properties Evacuated:** 2
- **State of Local Emergency:** 1, Issued 2021NOV15 extended to 2021NOV29 for Electoral Areas A, B, D, E and F
- Assessments on Chapman Dam, Edwards Dam, and McNeil Lake Dam indicate no concerns
- Contractor at Whitaker Creek responding to debris flow with excavator. Excavator work completed. Report that material is being removed from buildings under order 2021NOV20
- Roberts Creek Campground road needs attention and site visit occurring for emergency vehicle access. Working with BC Parks to close access through Parks, as Beach Ave now open (1 lane) 2021NOV21
- Chapman Creek Water Treatment Plant continued issues with intake. Continuing to monitor
- The 2 properties placed on evacuation order 2021NOV16 are not occupied. Only 2 of the 14 homes placed on evacuation alert 2021NOV15 are occupied
- Boil water advisories issued (2021NOV15 at 1330). Permission received from VCH to lift Boil Water Advisory for Welcome Woods area. Gibsons/Reed Road area still under Boil Water Advisory 2021NOV20
- Fortis reports exposed gas line at Stephens Road and Lower Road and they are preparing for re-routing and/or shutoff
- Preparing for damage assessment of 2 properties on Ocean Beach Esplanade

#### **Surrey:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding
- Surrey continues to conduct cleanup activities and ESS support for the Atmospheric flooding event

#### **Translink:**

- Translink has activated their Emergency Coordination Centre in response to flooding impacts
- Continued delivery of a safe public transportation system (rail, bus) by identifying safety issues and responding as required. Monitoring fuel supplies and critical resources

#### **District of West Vancouver**

- **Incident:** Atmospheric River/Storm Surge
- EOC activated 2021NOV15
- Seawall damage

#### **Whistler:**

- **Incident:** ESS host community
- **Individuals Registered with ESS:** 22

## AGENCIES

### Ministry of Transportation and Infrastructure (MoTI):

- MoTI South Coast Region has activated their Ministry Operations Centre and District Operations Centre
- Working with Ministry of Agriculture regarding logistics on inbound, outbound, and staging for resources and materials to assist MAFF and the farmers in the Sumas Prairie
- Hwy 1:
  - Popkum to Hope – OPEN with steady flow of traffic
  - Hope to Boston Bar – emergency access only, anticipate essential travel access by end of day, 2021NOV21
  - Boston Bar to Spences Bridge – CLOSED assessments are continuing on problem areas, no ETO at this time
  - Abbotsford – CLOSED McCallum to Yale Rd, as water recedes assessments are occurring. ETO – Unknown. Working to provide access as possible with agriculture
- Hwy 3 is OPEN to essential travel. Single lane in each direction with areas of single lane alternating traffic. Heavy equipment continues to work in the area
- Highway 7: Mission to Agassiz - OPEN to two way traffic; Agassiz to Hope - OPEN with lane in each direction for essential travel. Heavy equipment continues work in area
- Hwy 99 is OPEN to essential travel, limitations on commercial trucks
- Hwy 5 Hope to Merritt: CLOSED

## HEALTH INFORMATION

### No impacts reported

## LIVESTOCK IMPACTED

### Ministry of Agriculture Updates:

- Essential Agriculture vehicle certification requests web form live for unlimited fuelling of agricultural vehicles: <https://www2.gov.bc.ca/gov/content/industry/agriculture-seafood/agricultural-land-and-environment/water/flooding-emergency-resources#localcontact>
- Mental wellness resources posted to AFF website: <https://www2.gov.bc.ca/gov/content/industry/agriculture-seafood/agricultural-land-and-environment/water/flooding-emergency-resources#mentalwellness>
- No change to Premises under order or alert
- Continuing to respond to requests from EOCs for assistance

### SWE PREOC Registered Livestock premises under order and alert:

- Estimated premises under Order: 149
- Estimated premises under Alert: 32
- Estimated animals under Order/Alert: beef cattle (278/1022); dairy cattle (22710/1500) horses (28/12); sheep (29/100); swine (5027/30); goats (24/100); poultry (2020095/285874); other (24/14)

## TRANSPORTATION IMPACTED

### Drive BC

Highway 1, in both directions. Flooding between Exit 90: McCallum Rd and Exit 109: Yale Rd for 20.1 km (Abbotsford to Chilliwack). The road is closed. Estimated time of opening not available. Assessment in progress. Watch for traffic control.

Highway 1, in both directions. Mudslide between Exit 135 and Exit 171: Old Hope-Princeton Highway for 35.3 km (Hope to 2 km east of Chilliwack). Lane Closure. Expect delays due to congestion. Travel for essential purposes only. Drivers are reminded to drive to conditions and use caution.

Highway 1, in both directions. Flooding between K St and Junction Hwy 12 for 104.7 km (Hope to Lytton). Rock slide. Road closed. Estimated time of opening not available. Assessment in progress. Road is closed starting at the Highway 1 / 7 Junction. Road is open for EMERGENCY VEHICLES ONLY from Hope to Boston Bar.

Highway 1. Flooding between Junction Hwy 12 and Junction Hwy 8 for 35.6 km (Lytton to Spences Bridge). Rock slide. Road closed. Estimated time of opening not available. Assessment in progress

Highway 3, in both directions. Mudslide between Sunshine Valley and Allison Pass Summit for 36.9 km (17 to 54 km east of Hope). Expect Major delays due to congestion. Open for essential travel only, defined in the Travel Restrictions Order through the Emergency Program Act. One lane each direction with areas of single lane alternating traffic. Watch for crews. Checkpoints are set up along the route.

Highway 5, in both directions. Washout between Hope and Merritt. Road closed. Estimated time of opening not available. Detour not available. Damage assessment in progress. Multiple washouts

Highway 7, in both directions. Mudslide between Johnson Slough Rest Area and Ross Rd for 12.6 km (Kent to 1 km east of Hope). Open for essential travel only, defined in the Travel Restrictions Order through the Emergency Program Act. Checkpoints will be in place and travel restrictions will be enforced. Watch for crews and drive to conditions

Highway 7, in both directions. Mudslide between Highlands Blvd and Bodnar Rd (Kent). Flooding. Watch for traffic control. Open for regular 2-way travel. Drivers are reminded to drive to conditions and use caution. Watch for crews.

Highway 11, in both directions. Flooding between Hazelwood Ave and Townshipline Rd for 2.9 km (Abbotsford). Road closed. Southbound open to EMERGENCY VEHICLES ONLY. Northbound remains closed. Local detours available via local roads.

Highway 99, in both directions. Travel advisory in effect between Lil'wat Pl and Seton Lake Rd for 81.9 km (9 km north of Pemberton to Lillooet). Open for essential travel only, defined in the Travel Restrictions Order through the Emergency Program Act. Checkpoints will be in place and travel restrictions will be enforced. Only vehicles up to 14,500 kg will be permitted. Expect changing winter conditions.

King George Blvd., northbound. Bridge closed at Nicomekl Bridge. Assessment in progress. Please use alternate route

#### UTILITIES IMPACTED

##### BC Hydro

- 2021NOV21 update - There are currently ~ 87 customers without power within the Lower Mainland and Sunshine Coast remain without power due to flooding, mud/snow slides and trees down on wires
- [BC Hydro bill help for BC Residents who are evacuated](#)
- **For more information:** <https://www.bchydro.com/power-outages/app/outage-list.html>

#### USEFUL LINKS/RESOURCES

[Ministry of Agriculture, Food and Fisheries Flooding Information](#)

[EMBC Current Flooding Information](#)

[River Forecast Centre](#)

[Drive BC](#)

[Environment Canada](#)

[Avalanche Canada Weather Forecast](#)

[BC Hydro](#)

**APPROVED BY:**

*Original signed by*

Debbie Alexander

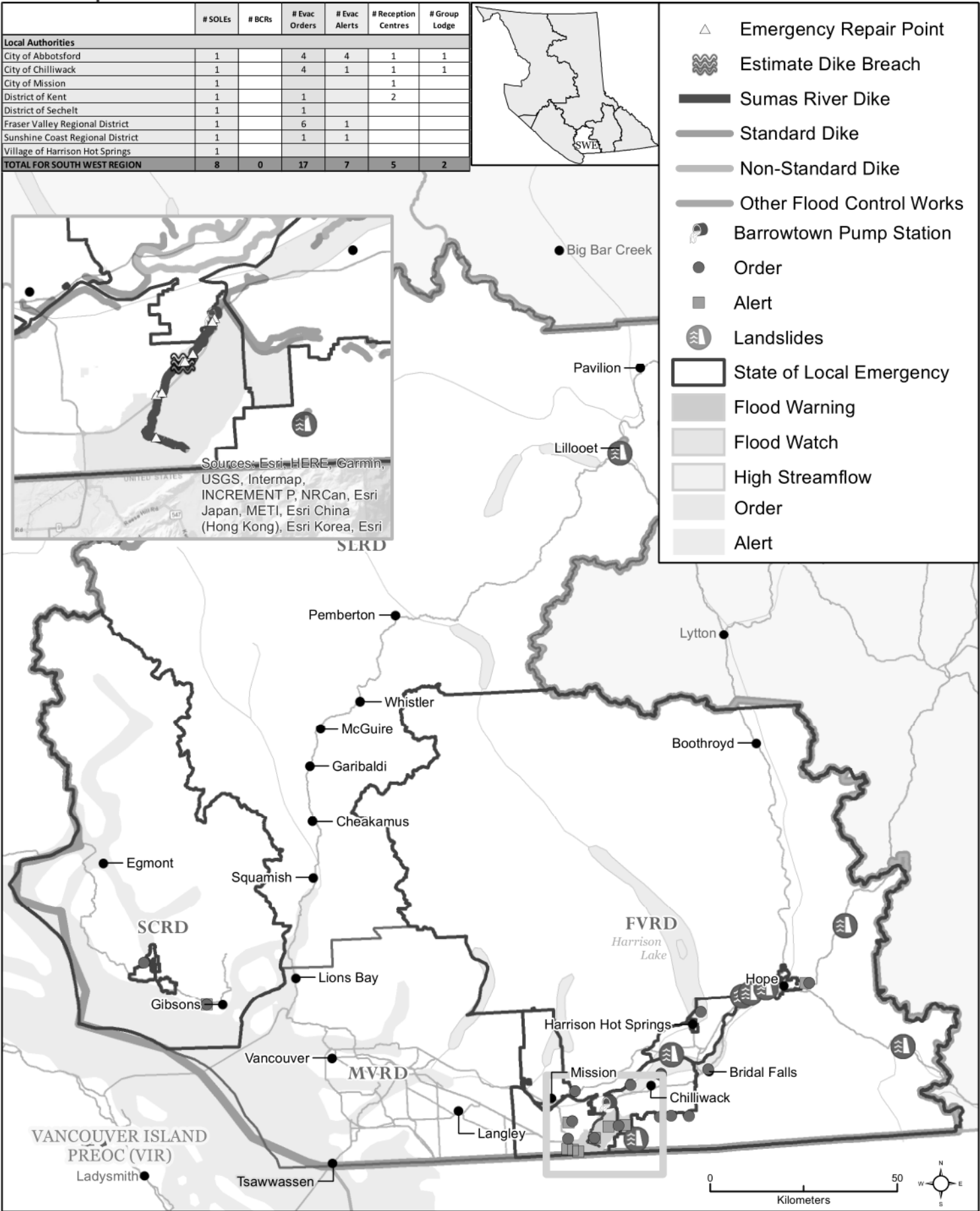
**PREOC Deputy Director**

**Note:** Information contained in this situation report is for operational purposes only. The contained information is not meant for public information. If you wish you use contained information for a media release, you must clear it with the PREOC Director.

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# South West (SWE) Provincial Regional Operational Centre (PREOC) Atmospheric River Events

2021-11-21



UPDATED 2021-11-21 Time: 12:13

File: Y:\lmb\PEP\response\SWE\task223862\_ISC\_AtmosphericRiver\arcgisprojects\task223862\_sitmap\_8x11\_20211121.mxd

**From:** [Qu, Junying FLNR:EX](#)  
**To:** [Stella Chiu](#); [Alice Lau](#); [EOC Planning Chief](#)  
**Cc:** [EOC Logistic Chief](#); [EOC Liaison Officer](#); [Campbell, David FLNR:EX](#); [Jollymore, Ashlee FLNR:EX](#); [Sung, Rudy FLNR:EX](#); [Giles, Andrew FLNR:EX](#)  
**Subject:** RE: Daily Spot River Forecast  
**Date:** November 19, 2021 4:50:27 PM  
**Attachments:** [Estimated Water Levels at BarrowtoenPS.xlsx](#)  
[image001.jpg](#)

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Hi Stella,

Please find the Excel file attached, which includes:

- The estimated hourly water levels for Fraser River at Mission from Nov. 19 to 28, 2021 using our hydraulic model. The model inflows were obtained from the RFC's CLEVER forecast today. The model boundary conditions downstream were based on the tidal levels from Canadian Hydrographic Services' website.
- The estimated water levels at Barrowtown Pump Station by simply adding 1.2 m to the Mission water levels.

Please be aware that the estimated water levels at Mission could be at low accuracy because 1) our hydraulic model is generally applicable at the Mission level > 4 m, but it is about 2.5 m now; 2) the uncertainties about rain and flow forecasting have significant impact on the water level forecasting. Please let me know if you have any questions and need additional supports.

Best regards,

Jun Ying Qu, Ph.D., P.Eng.

Senior Hydrotechnical Engineer

Flood Safety Section

Water Management Branch

Ministry of Forests, Lands, Natural Resource

Operations and Rural Development

Courier: 5th Floor - 2975 Jutland Road

Victoria BC V8T 5J9

Mail: PO Box 9340 Stn Prov Govt

Victoria BC V8W 9M1

Phone: (778) 698-7343

Email: [Junying.Qu@gov.bc.ca](mailto:Junying.Qu@gov.bc.ca)

---

**From:** Stella Chiu <[schiu@abbotsford.ca](mailto:schiu@abbotsford.ca)>

**Sent:** November 19, 2021 1:52 PM

**To:** [Jollymore, Ashlee FLNR:EX](#) <[Ashlee.Jollymore@gov.bc.ca](mailto:Ashlee.Jollymore@gov.bc.ca)>; [Alice Lau](#) <[ALau@abbotsford.ca](mailto:ALau@abbotsford.ca)>; [EOC Planning Chief](#) <[EOCPlanningChief@abbotsford.ca](mailto:EOCPlanningChief@abbotsford.ca)>

**Cc:** [EOC Logistic Chief](#) <[EOCLogisticChief@abbotsford.ca](mailto:EOCLogisticChief@abbotsford.ca)>; [EOC Liaison Officer](#) <[EOCLiaisonOfficer@abbotsford.ca](mailto:EOCLiaisonOfficer@abbotsford.ca)>; [Campbell, David FLNR:EX](#) <[David.Campbell@gov.bc.ca](mailto:David.Campbell@gov.bc.ca)>; [Qu, Junying FLNR:EX](#) <[Junying.Qu@gov.bc.ca](mailto:Junying.Qu@gov.bc.ca)>

**Subject:** RE: Daily Spot River Forecast

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

Thanks Junying and Ashlee.

Regards

Stella

---

**From:** [Jollymore, Ashlee FLNR:EX](#) <[Ashlee.Jollymore@gov.bc.ca](mailto:Ashlee.Jollymore@gov.bc.ca)>

**Sent:** Friday, November 19, 2021 1:32 PM

**To:** Stella Chiu <[schiu@abbotsford.ca](mailto:schiu@abbotsford.ca)>; Alice Lau <[ALau@abbotsford.ca](mailto:ALau@abbotsford.ca)>; EOC Planning Chief <[EOCPlanningChief@abbotsford.ca](mailto:EOCPlanningChief@abbotsford.ca)>

**Cc:** EOC Logistic Chief <[EOCLogisticChief@abbotsford.ca](mailto:EOCLogisticChief@abbotsford.ca)>; EOC Liaison Officer <[EOCLiaisonOfficer@abbotsford.ca](mailto:EOCLiaisonOfficer@abbotsford.ca)>; Campbell, David FLNR:EX <[David.Campbell@gov.bc.ca](mailto:David.Campbell@gov.bc.ca)>; Qu, Junying FLNR:EX <[Junying.Qu@gov.bc.ca](mailto:Junying.Qu@gov.bc.ca)>

**Subject:** RE: Daily Spot River Forecast

Hi all,

Thanks for the clarification. We (Junying Qu) are currently running the hydraulic model to provide a level forecast for the sites downstream of Fraser at Hope and will let you know when they are available.

Stay safe,

Ashlee

---

**From:** Stella Chiu <[schiu@abbotsford.ca](mailto:schiu@abbotsford.ca)>

**Sent:** November 19, 2021 12:45 PM

**To:** Jollymore, Ashlee FLNR:EX <[Ashlee.Jollymore@gov.bc.ca](mailto:Ashlee.Jollymore@gov.bc.ca)>; Alice Lau <[ALau@abbotsford.ca](mailto:ALau@abbotsford.ca)>; EOC Planning Chief <[EOCPlanningChief@abbotsford.ca](mailto:EOCPlanningChief@abbotsford.ca)>

**Cc:** EOC Logistic Chief <[EOCLogisticChief@abbotsford.ca](mailto:EOCLogisticChief@abbotsford.ca)>; EOC Liaison Officer <[EOCLiaisonOfficer@abbotsford.ca](mailto:EOCLiaisonOfficer@abbotsford.ca)>; Campbell, David FLNR:EX <[David.Campbell@gov.bc.ca](mailto:David.Campbell@gov.bc.ca)>

**Subject:** RE: Daily Spot River Forecast

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

Ashlee,

We'd like to see Fraser River level downstream of Barrowtown projection, based on the projection of the 10-day river forecast on the Lower Fraser River.

Thanks,

Stella

---

**From:** Jollymore, Ashlee FLNR:EX <[Ashlee.Jollymore@gov.bc.ca](mailto:Ashlee.Jollymore@gov.bc.ca)>

**Sent:** Friday, November 19, 2021 12:33 PM

**To:** Alice Lau <[ALau@abbotsford.ca](mailto:ALau@abbotsford.ca)>; EOC Planning Chief <[EOCPlanningChief@abbotsford.ca](mailto:EOCPlanningChief@abbotsford.ca)>

**Cc:** Stella Chiu <[schiu@abbotsford.ca](mailto:schiu@abbotsford.ca)>; EOC Logistic Chief <[EOCLogisticChief@abbotsford.ca](mailto:EOCLogisticChief@abbotsford.ca)>; EOC Liaison Officer <[EOCLiaisonOfficer@abbotsford.ca](mailto:EOCLiaisonOfficer@abbotsford.ca)>; Campbell, David FLNR:EX <[David.Campbell@gov.bc.ca](mailto:David.Campbell@gov.bc.ca)>

**Subject:** RE: Daily Spot River Forecast

Hi all,

Thanks for the email. Could you detail what information that you would be looking for?

Here are the products that Alice and I spoke to that are available on the RFC website:

Current Streamflow conditions from Water Survey of Canada monitoring sites:

[http://bcrfc.env.gov.bc.ca/freshet/map\\_all\\_wsc.html](http://bcrfc.env.gov.bc.ca/freshet/map_all_wsc.html)

CLEVER 10-day River Forecasts (all of BC):

[http://bcrfc.env.gov.bc.ca/freshet/map\\_clever.html](http://bcrfc.env.gov.bc.ca/freshet/map_clever.html)

COFFEE 5-day River Forecasts (coastal BC):

[http://bcrfc.env.gov.bc.ca/fallfloods/map\\_coffee.html](http://bcrfc.env.gov.bc.ca/fallfloods/map_coffee.html)

Thanks for the detail – happy to try and help how we can.

Cheers,



Ashlee

**From:** Alice Lau <[ALau@abbotsford.ca](mailto:ALau@abbotsford.ca)>

**Sent:** November 19, 2021 9:55 AM

**To:** EOC Planning Chief <[EOCPlanningChief@abbotsford.ca](mailto:EOCPlanningChief@abbotsford.ca)>

**Cc:** Stella Chiu <[schiu@abbotsford.ca](mailto:schiu@abbotsford.ca)>; EOC Logistic Chief <[EOCLogisticChief@abbotsford.ca](mailto:EOCLogisticChief@abbotsford.ca)>; EOC Liaison Officer <[EOCLiaisonOfficer@abbotsford.ca](mailto:EOCLiaisonOfficer@abbotsford.ca)>; Jollymore, Ashlee FLNR:EX <[Ashlee.Jollymore@gov.bc.ca](mailto:Ashlee.Jollymore@gov.bc.ca)>

**Subject:** Daily Spot River Forecast

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

Hello!!

Logistics received a request to have the daily Fraser River & distributary report forecast sent to the EOC team.

I talked to BC Government River Forecast Center [Ashlee.Jollymore@gov.bc.ca](mailto:Ashlee.Jollymore@gov.bc.ca) and got their confirmation the water survey information is very general and for overview only, but they can put something together for us if we can detail what we need.

Thank you.

**Alice Lau, SCMP**

Buyer II

Finance and Procurement Services

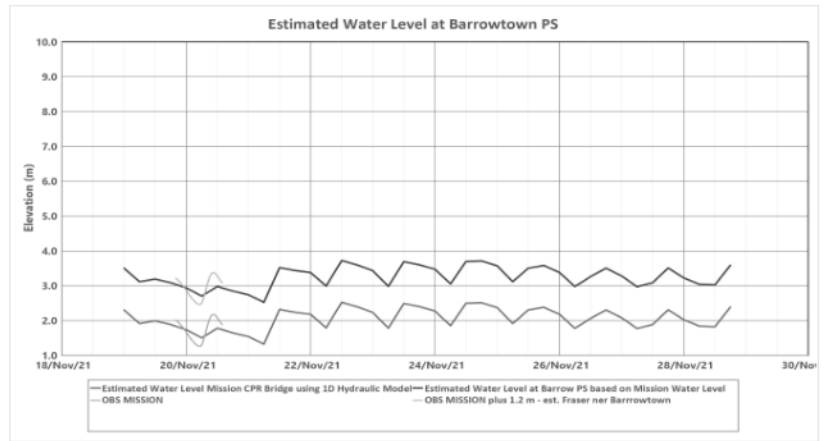
**Tel:** 604-864-5617

**Email:** [alau@abbotsford.ca](mailto:alau@abbotsford.ca)

City-Email-Signature



Date/Time	Estimated Water Level Mission CPR Bridge (m)	Estimated Water Level at Barrow PS (m)
11/19/2021 0:00	2.30	3.50
11/19/2021 1:00	2.21	3.41
11/19/2021 2:00	2.13	3.33
11/19/2021 3:00	2.05	3.25
11/19/2021 4:00	1.99	3.19
11/19/2021 5:00	1.94	3.13
11/19/2021 6:00	1.92	3.12
11/19/2021 7:00	1.93	3.13
11/19/2021 8:00	1.99	3.19
11/19/2021 9:00	2.01	3.21
11/19/2021 10:00	2.02	3.21
11/19/2021 11:00	2.01	3.21
11/19/2021 12:00	1.99	3.19
11/19/2021 13:00	1.97	3.17
11/19/2021 14:00	1.93	3.13
11/19/2021 15:00	1.91	3.11
11/19/2021 16:00	1.89	3.09
11/19/2021 17:00	1.88	3.08
11/19/2021 18:00	1.89	3.09
11/19/2021 19:00	1.89	3.09
11/19/2021 20:00	1.88	3.08
11/19/2021 21:00	1.86	3.06
11/19/2021 22:00	1.82	3.02
11/19/2021 23:00	1.79	2.99
11/20/2021 0:00	1.74	2.94
11/20/2021 1:00	1.69	2.89
11/20/2021 2:00	1.64	2.84
11/20/2021 3:00	1.60	2.80
11/20/2021 4:00	1.56	2.76
11/20/2021 5:00	1.52	2.72
11/20/2021 6:00	1.50	2.70
11/20/2021 7:00	1.51	2.71
11/20/2021 8:00	1.61	2.81
11/20/2021 9:00	1.71	2.91
11/20/2021 10:00	1.82	3.02
11/20/2021 11:00	1.80	3.00
11/20/2021 12:00	1.78	2.98
11/20/2021 13:00	1.74	2.94
11/20/2021 14:00	1.71	2.91
11/20/2021 15:00	1.69	2.89
11/20/2021 16:00	1.67	2.87
11/20/2021 17:00	1.65	2.85
11/20/2021 18:00	1.65	2.84
11/20/2021 19:00	1.65	2.85
11/20/2021 20:00	1.65	2.85
11/20/2021 21:00	1.63	2.83
11/20/2021 22:00	1.61	2.81
11/20/2021 23:00	1.58	2.78
11/21/2021 0:00	1.54	2.74
11/21/2021 1:00	1.50	2.70
11/21/2021 2:00	1.46	2.66
11/21/2021 3:00	1.41	2.61
11/21/2021 4:00	1.38	2.58
11/21/2021 5:00	1.34	2.54
11/21/2021 6:00	1.32	2.52
11/21/2021 7:00	1.33	2.53
11/21/2021 8:00	1.43	2.63
11/21/2021 9:00	1.60	2.80
11/21/2021 10:00	2.00	3.20
11/21/2021 11:00	2.20	3.40
11/21/2021 12:00	2.32	3.52
11/21/2021 13:00	2.31	3.51
11/21/2021 14:00	2.28	3.48
11/21/2021 15:00	2.23	3.43
11/21/2021 16:00	2.20	3.40
11/21/2021 17:00	2.21	3.41
11/21/2021 18:00	2.23	3.43
11/21/2021 19:00	2.28	3.48
11/21/2021 20:00	2.31	3.51
11/21/2021 21:00	2.30	3.50
11/21/2021 22:00	2.28	3.48
11/21/2021 23:00	2.23	3.43
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11/22/2021 2:00	2.03	3.23
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11/22/2021 6:00	1.79	2.99
11/22/2021 7:00	1.80	3.00
11/22/2021 8:00	1.91	3.11
11/22/2021 9:00	2.12	3.32
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11/22/2021 11:00	2.48	3.68
11/22/2021 12:00	2.52	3.72
11/22/2021 13:00	2.51	3.71
11/22/2021 14:00	2.48	3.68
11/22/2021 15:00	2.44	3.64
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11/22/2021 17:00	2.40	3.60
11/22/2021 18:00	2.39	3.59
11/22/2021 19:00	2.40	3.60
11/22/2021 20:00	2.40	3.60
11/22/2021 21:00	2.39	3.59
11/22/2021 22:00	2.36	3.56
11/22/2021 23:00	2.30	3.50
11/23/2021 0:00	2.23	3.43
11/23/2021 1:00	2.16	3.36
11/23/2021 2:00	2.08	3.28
11/23/2021 3:00	1.99	3.19
11/23/2021 4:00	1.91	3.11
11/23/2021 5:00	1.83	3.03
11/23/2021 6:00	1.78	2.98
11/23/2021 7:00	1.75	2.95
11/23/2021 8:00	1.80	3.00
11/23/2021 9:00	1.96	3.16
11/23/2021 10:00	2.18	3.38
11/23/2021 11:00	2.38	3.58
11/23/2021 12:00	2.49	3.69
11/23/2021 13:00	2.51	3.71
11/23/2021 14:00	2.50	3.70
11/23/2021 15:00	2.47	3.67
11/23/2021 16:00	2.43	3.63
11/23/2021 17:00	2.41	3.61
11/23/2021 18:00	2.40	3.60
11/23/2021 19:00	2.40	3.59
11/23/2021 20:00	2.39	3.59
11/23/2021 21:00	2.39	3.59



11/23/2021 22:00	2.37	3.57
11/23/2021 23:00	2.32	3.52
11/24/2021 0:00	2.27	3.47
11/24/2021 1:00	2.20	3.40
11/24/2021 2:00	2.12	3.32
11/24/2021 3:00	2.05	3.25
11/24/2021 4:00	1.98	3.18
11/24/2021 5:00	1.91	3.11
11/24/2021 6:00	1.85	3.05
11/24/2021 7:00	1.81	3.01
11/24/2021 8:00	1.82	3.02
11/24/2021 9:00	1.91	3.11
11/24/2021 10:00	2.10	3.30
11/24/2021 11:00	2.32	3.52
11/24/2021 12:00	2.50	3.70
11/24/2021 13:00	2.58	3.78
11/24/2021 14:00	2.60	3.80
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11/24/2021 23:00	2.41	3.61
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11/25/2021 1:00	2.30	3.50
11/25/2021 2:00	2.23	3.43
11/25/2021 3:00	2.15	3.35
11/25/2021 4:00	2.08	3.28
11/25/2021 5:00	1.99	3.19
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11/25/2021 7:00	1.86	3.06
11/25/2021 8:00	1.81	3.01
11/25/2021 9:00	1.83	3.03
11/25/2021 10:00	1.93	3.13
11/25/2021 11:00	2.11	3.31
11/25/2021 12:00	2.30	3.50
11/25/2021 13:00	2.44	3.64
11/25/2021 14:00	2.50	3.70
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11/25/2021 17:00	2.41	3.61
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11/25/2021 19:00	2.34	3.54
11/25/2021 20:00	2.31	3.51
11/25/2021 21:00	2.28	3.48
11/25/2021 22:00	2.25	3.45
11/25/2021 23:00	2.21	3.41
11/26/2021 0:00	2.18	3.38
11/26/2021 1:00	2.12	3.32
11/26/2021 2:00	2.06	3.26
11/26/2021 3:00	1.99	3.19
11/26/2021 4:00	1.91	3.11
11/26/2021 5:00	1.84	3.04
11/26/2021 6:00	1.77	2.97
11/26/2021 7:00	1.71	2.91
11/26/2021 8:00	1.67	2.87
11/26/2021 9:00	1.65	2.85
11/26/2021 10:00	1.70	2.90
11/26/2021 11:00	1.85	3.05
11/26/2021 12:00	2.06	3.26
11/26/2021 13:00	2.26	3.46
11/26/2021 14:00	2.38	3.58
11/26/2021 15:00	2.41	3.61
11/26/2021 16:00	2.40	3.60
11/26/2021 17:00	2.36	3.56
11/26/2021 18:00	2.30	3.50
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11/26/2021 21:00	2.18	3.38
11/26/2021 22:00	2.14	3.34
11/26/2021 23:00	2.10	3.30
11/27/2021 0:00	2.08	3.28
11/27/2021 1:00	2.04	3.24
11/27/2021 2:00	2.00	3.20
11/27/2021 3:00	1.95	3.15
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11/27/2021 8:00	1.66	2.86
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11/27/2021 10:00	1.63	2.83
11/27/2021 11:00	1.71	2.91
11/27/2021 12:00	1.89	3.09
11/27/2021 13:00	2.09	3.29
11/27/2021 14:00	2.28	3.48
11/27/2021 15:00	2.38	3.58
11/27/2021 16:00	2.39	3.59
11/27/2021 17:00	2.37	3.57
11/27/2021 18:00	2.31	3.51
11/27/2021 19:00	2.26	3.46
11/27/2021 20:00	2.21	3.41
11/27/2021 21:00	2.15	3.35
11/27/2021 22:00	2.10	3.30
11/27/2021 23:00	2.06	3.26
11/28/2021 0:00	2.03	3.22
11/28/2021 1:00	2.01	3.21
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11/28/2021 3:00	1.97	3.17
11/28/2021 4:00	1.92	3.12
11/28/2021 5:00	1.89	3.09
11/28/2021 6:00	1.84	3.04
11/28/2021 7:00	1.79	2.99
11/28/2021 8:00	1.75	2.95
11/28/2021 9:00	1.71	2.91
11/28/2021 10:00	1.70	2.90
11/28/2021 11:00	1.73	2.92
11/28/2021 12:00	1.82	3.02
11/28/2021 13:00	2.00	3.20
11/28/2021 14:00	2.20	3.40
11/28/2021 15:00	2.37	3.57
11/28/2021 16:00	2.43	3.63
11/28/2021 17:00	2.42	3.62
11/28/2021 18:00	2.38	3.58
11/28/2021 19:00	2.32	3.52
11/28/2021 20:00	2.28	3.47
11/28/2021 21:00	2.21	3.41
11/28/2021 22:00	2.15	3.34
11/28/2021 23:00	2.09	3.29

Estimated Water Level Mission CPR Bridge using 1D Hydraulic Model

Estimated Water Level at Barrow PS based on Mission Water Level

Date/Time	Fraser@ Mission level	Barrowtown (+1.2 m from Mission)	
11/19/2021 20:00	2.013	3.213	11/28/2021 23:00
11/19/2021 20:05	2.008	3.208	
11/19/2021 20:10	2.004	3.204	
11/19/2021 20:15	1.998	3.198	
11/19/2021 20:20	1.994	3.194	
11/19/2021 20:25	1.987	3.187	
11/19/2021 20:30	1.985	3.185	
11/19/2021 20:35	1.979	3.179	
11/19/2021 20:40	1.971	3.171	
11/19/2021 20:45	1.965	3.165	
11/19/2021 20:50	1.96	3.16	
11/19/2021 20:55	1.955	3.155	
11/19/2021 21:00	1.949	3.149	
11/19/2021 21:05	1.942	3.142	
11/19/2021 21:10	1.936	3.136	
11/19/2021 21:15	1.93	3.13	
11/19/2021 21:20	1.923	3.123	
11/19/2021 21:25	1.916	3.116	
11/19/2021 21:30	1.908	3.108	
11/19/2021 21:35	1.903	3.103	
11/19/2021 21:40	1.894	3.094	
11/19/2021 21:45	1.89	3.09	
11/19/2021 21:50	1.882	3.082	
11/19/2021 21:55	1.872	3.072	
11/19/2021 22:00	1.867	3.067	
11/19/2021 22:05	1.856	3.056	
11/19/2021 22:10	1.848	3.048	
11/19/2021 22:15	1.841	3.041	
11/19/2021 22:20	1.835	3.035	
11/19/2021 22:25	1.827	3.027	
11/19/2021 22:30	1.822	3.022	
11/19/2021 22:35	1.813	3.013	
11/19/2021 22:40	1.804	3.004	
11/19/2021 22:45	1.799	2.999	
11/19/2021 22:50	1.788	2.988	
11/19/2021 22:55	1.779	2.979	
11/19/2021 23:00	1.769	2.969	
11/19/2021 23:05	1.765	2.965	

11/19/2021 23:10	1.756	2.956
11/19/2021 23:15	1.747	2.947
11/19/2021 23:20	1.738	2.938
11/19/2021 23:25	1.729	2.929
11/19/2021 23:30	1.718	2.918
11/19/2021 23:35	1.709	2.909
11/19/2021 23:40	1.702	2.902
11/19/2021 23:45	1.692	2.892
11/19/2021 23:50	1.683	2.883
11/19/2021 23:55	1.675	2.875
11/20/2021 0:00	1.668	2.868
11/20/2021 0:05	1.657	2.857
11/20/2021 0:10	1.65	2.85
11/20/2021 0:15	1.639	2.839
11/20/2021 0:20	1.629	2.829
11/20/2021 0:25	1.618	2.818
11/20/2021 0:30	1.609	2.809
11/20/2021 0:35	1.599	2.799
11/20/2021 0:40	1.588	2.788
11/20/2021 0:45	1.583	2.783
11/20/2021 0:50	1.575	2.775
11/20/2021 0:55	1.561	2.761
11/20/2021 1:00	1.554	2.754
11/20/2021 1:05	1.545	2.745
11/20/2021 1:10	1.537	2.737
11/20/2021 1:15	1.528	2.728
11/20/2021 1:20	1.519	2.719
11/20/2021 1:25	1.507	2.707
11/20/2021 1:30	1.501	2.701
11/20/2021 1:35	1.493	2.693
11/20/2021 1:40	1.487	2.687
11/20/2021 1:45	1.478	2.678
11/20/2021 1:50	1.473	2.673
11/20/2021 1:55	1.464	2.664
11/20/2021 2:00	1.459	2.659
11/20/2021 2:05	1.449	2.649
11/20/2021 2:10	1.438	2.638
11/20/2021 2:15	1.432	2.632
11/20/2021 2:20	1.424	2.624

11/20/2021 2:25	1.417	2.617
11/20/2021 2:30	1.408	2.608
11/20/2021 2:35	1.403	2.603
11/20/2021 2:40	1.395	2.595
11/20/2021 2:45	1.383	2.583
11/20/2021 2:50	1.376	2.576
11/20/2021 2:55	1.372	2.572
11/20/2021 3:00	1.366	2.566
11/20/2021 3:05	1.362	2.562
11/20/2021 3:10	1.354	2.554
11/20/2021 3:15	1.348	2.548
11/20/2021 3:20	1.344	2.544
11/20/2021 3:25	1.339	2.539
11/20/2021 3:30	1.327	2.527
11/20/2021 3:35	1.326	2.526
11/20/2021 3:40	1.318	2.518
11/20/2021 3:45	1.313	2.513
11/20/2021 3:50	1.306	2.506
11/20/2021 3:55	1.304	2.504
11/20/2021 4:00	1.296	2.496
11/20/2021 4:05	1.292	2.492
11/20/2021 4:10	1.291	2.491
11/20/2021 4:15	1.281	2.481
11/20/2021 4:20	1.279	2.479
11/20/2021 4:25	1.275	2.475
11/20/2021 4:30	1.274	2.474
11/20/2021 4:35	1.271	2.471
11/20/2021 4:40	1.267	2.467
11/20/2021 4:45	1.267	2.467
11/20/2021 4:50	1.262	2.462
11/20/2021 4:55	1.261	2.461
11/20/2021 5:00	1.26	2.46
11/20/2021 5:05	1.257	2.457
11/20/2021 5:10	1.259	2.459
11/20/2021 5:15	1.257	2.457
11/20/2021 5:20	1.259	2.459
11/20/2021 5:25	1.262	2.462
11/20/2021 5:30	1.265	2.465
11/20/2021 5:35	1.266	2.466

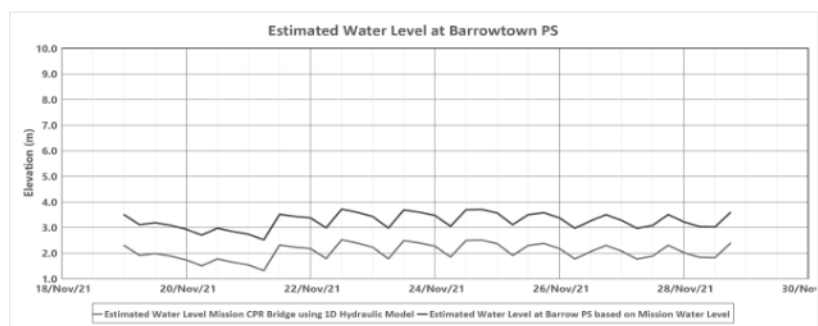
11/20/2021 5:40	1.27	2.47
11/20/2021 5:45	1.276	2.476
11/20/2021 5:50	1.284	2.484
11/20/2021 5:55	1.294	2.494
11/20/2021 6:00	1.298	2.498
11/20/2021 6:05	1.312	2.512
11/20/2021 6:10	1.326	2.526
11/20/2021 6:15	1.339	2.539
11/20/2021 6:20	1.354	2.554
11/20/2021 6:25	1.37	2.57
11/20/2021 6:30	1.388	2.588
11/20/2021 6:35	1.408	2.608
11/20/2021 6:40	1.433	2.633
11/20/2021 6:45	1.454	2.654
11/20/2021 6:50	1.476	2.676
11/20/2021 6:55	1.498	2.698
11/20/2021 7:00	1.519	2.719
11/20/2021 7:05	1.543	2.743
11/20/2021 7:10	1.568	2.768
11/20/2021 7:15	1.589	2.789
11/20/2021 7:20	1.612	2.812
11/20/2021 7:25	1.641	2.841
11/20/2021 7:30	1.664	2.864
11/20/2021 7:35	1.687	2.887
11/20/2021 7:40	1.714	2.914
11/20/2021 7:45	1.735	2.935
11/20/2021 7:50	1.762	2.962
11/20/2021 7:55	1.783	2.983
11/20/2021 8:00	1.808	3.008
11/20/2021 8:05	1.832	3.032
11/20/2021 8:10	1.853	3.053
11/20/2021 8:15	1.873	3.073
11/20/2021 8:20	1.896	3.096
11/20/2021 8:25	1.919	3.119
11/20/2021 8:30	1.938	3.138
11/20/2021 8:35	1.958	3.158
11/20/2021 8:40	1.979	3.179
11/20/2021 8:45	1.995	3.195
11/20/2021 8:50	2.01	3.21



11/20/2021 8:55	2.029	3.229
11/20/2021 9:00	2.041	3.241
11/20/2021 9:05	2.057	3.257
11/20/2021 9:10	2.075	3.275
11/20/2021 9:15	2.086	3.286
11/20/2021 9:20	2.101	3.301
11/20/2021 9:25	2.11	3.31
11/20/2021 9:30	2.121	3.321
11/20/2021 9:35	2.13	3.33
11/20/2021 9:40	2.138	3.338
11/20/2021 9:45	2.148	3.348
11/20/2021 9:50	2.154	3.354
11/20/2021 9:55	2.159	3.359
11/20/2021 10:00	2.16	3.36
11/20/2021 10:05	2.166	3.366
11/20/2021 10:10	2.169	3.369
11/20/2021 10:15	2.171	3.371
11/20/2021 10:20	2.172	3.372
11/20/2021 10:25	2.173	3.373
11/20/2021 10:30	2.172	3.372
11/20/2021 10:35	2.173	3.373
11/20/2021 10:40	2.168	3.368
11/20/2021 10:45	2.168	3.368
11/20/2021 10:50	2.164	3.364
11/20/2021 10:55	2.16	3.36
11/20/2021 11:00	2.161	3.361
11/20/2021 11:05	2.156	3.356
11/20/2021 11:10	2.149	3.349
11/20/2021 11:15	2.144	3.344
11/20/2021 11:20	2.14	3.34
11/20/2021 11:25	2.134	3.334
11/20/2021 11:30	2.13	3.33
11/20/2021 11:35	2.124	3.324
11/20/2021 11:40	2.115	3.315
11/20/2021 11:45	2.108	3.308
11/20/2021 11:50	2.095	3.295
11/20/2021 11:55	2.085	3.285
11/20/2021 12:00	2.078	3.278
11/20/2021 12:05	2.066	3.266

11/20/2021 12:10	2.061	3.261
11/20/2021 12:15	2.052	3.252
11/20/2021 12:20	2.046	3.246
11/20/2021 12:25	2.033	3.233
11/20/2021 12:30	2.027	3.227
11/20/2021 12:35	2.015	3.215
11/20/2021 12:40	2.007	3.207
11/20/2021 12:45	1.996	3.196
11/20/2021 12:50	1.988	3.188
11/20/2021 12:55	1.978	3.178
11/20/2021 13:00	1.968	3.168
11/20/2021 13:05	1.959	3.159
11/20/2021 13:10	1.954	3.154
11/20/2021 13:15	1.947	3.147
11/20/2021 13:20	1.938	3.138
11/20/2021 13:25	1.932	3.132
11/20/2021 13:30	1.925	3.125
11/20/2021 13:35	1.916	3.116
11/20/2021 13:40	1.907	3.107
11/20/2021 13:45	1.9	3.1
11/20/2021 13:50	1.894	3.094
11/20/2021 13:55	1.885	3.085
11/20/2021 14:00	1.88	3.08
11/20/2021 14:05	1.875	3.075
11/20/2021 14:10	1.868	3.068

Date/Time	Estimated Water Level Mission CPR Bridge (m)	Estimated Water Level at Barrow PS (m)
11/19/2021 0:00	2.30	3.50
11/19/2021 1:00	2.21	3.41
11/19/2021 2:00	2.13	3.33
11/19/2021 3:00	2.05	3.25
11/19/2021 4:00	1.99	3.19
11/19/2021 5:00	1.94	3.13
11/19/2021 6:00	1.92	3.12
11/19/2021 7:00	1.93	3.13
11/19/2021 8:00	1.99	3.19
11/19/2021 9:00	2.01	3.21
11/19/2021 10:00	2.02	3.21
11/19/2021 11:00	2.01	3.21
11/19/2021 12:00	1.99	3.19
11/19/2021 13:00	1.97	3.17
11/19/2021 14:00	1.93	3.13
11/19/2021 15:00	1.91	3.11
11/19/2021 16:00	1.89	3.09
11/19/2021 17:00	1.88	3.08
11/19/2021 18:00	1.89	3.09
11/19/2021 19:00	1.89	3.09
11/19/2021 20:00	1.88	3.08
11/19/2021 21:00	1.86	3.06
11/19/2021 22:00	1.82	3.02
11/19/2021 23:00	1.79	2.99
11/20/2021 0:00	1.74	2.94
11/20/2021 1:00	1.69	2.89
11/20/2021 2:00	1.64	2.84
11/20/2021 3:00	1.60	2.80
11/20/2021 4:00	1.56	2.76
11/20/2021 5:00	1.52	2.72
11/20/2021 6:00	1.50	2.70
11/20/2021 7:00	1.51	2.71
11/20/2021 8:00	1.61	2.81
11/20/2021 9:00	1.71	2.91
11/20/2021 10:00	1.82	3.02
11/20/2021 11:00	1.80	3.00
11/20/2021 12:00	1.78	2.98
11/20/2021 13:00	1.74	2.94
11/20/2021 14:00	1.71	2.91
11/20/2021 15:00	1.69	2.89
11/20/2021 16:00	1.67	2.87
11/20/2021 17:00	1.65	2.85
11/20/2021 18:00	1.65	2.84
11/20/2021 19:00	1.65	2.85
11/20/2021 20:00	1.65	2.85
11/20/2021 21:00	1.63	2.83
11/20/2021 22:00	1.61	2.81
11/20/2021 23:00	1.58	2.78
11/21/2021 0:00	1.54	2.74
11/21/2021 1:00	1.50	2.70
11/21/2021 2:00	1.46	2.66
11/21/2021 3:00	1.41	2.61
11/21/2021 4:00	1.38	2.58
11/21/2021 5:00	1.34	2.54
11/21/2021 6:00	1.32	2.52
11/21/2021 7:00	1.33	2.53
11/21/2021 8:00	1.43	2.63
11/21/2021 9:00	1.60	2.80
11/21/2021 10:00	2.00	3.20
11/21/2021 11:00	2.20	3.40
11/21/2021 12:00	2.32	3.52
11/21/2021 13:00	2.31	3.51
11/21/2021 14:00	2.28	3.48
11/21/2021 15:00	2.23	3.43
11/21/2021 16:00	2.20	3.40
11/21/2021 17:00	2.21	3.41
11/21/2021 18:00	2.23	3.43
11/21/2021 19:00	2.28	3.48
11/21/2021 20:00	2.31	3.51
11/21/2021 21:00	2.30	3.50
11/21/2021 22:00	2.28	3.48
11/21/2021 23:00	2.23	3.43
11/22/2021 0:00	2.18	3.38
11/22/2021 1:00	2.11	3.31
11/22/2021 2:00	2.03	3.23
11/22/2021 3:00	1.96	3.16
11/22/2021 4:00	1.89	3.09
11/22/2021 5:00	1.82	3.02
11/22/2021 6:00	1.79	2.99
11/22/2021 7:00	1.80	3.00
11/22/2021 8:00	1.91	3.11
11/22/2021 9:00	2.12	3.32
11/22/2021 10:00	2.33	3.53
11/22/2021 11:00	2.48	3.68
11/22/2021 12:00	2.52	3.72
11/22/2021 13:00	2.51	3.71
11/22/2021 14:00	2.48	3.68
11/22/2021 15:00	2.44	3.64
11/22/2021 16:00	2.41	3.61
11/22/2021 17:00	2.40	3.60
11/22/2021 18:00	2.39	3.59
11/22/2021 19:00	2.40	3.60
11/22/2021 20:00	2.40	3.60
11/22/2021 21:00	2.39	3.59
11/22/2021 22:00	2.36	3.56
11/22/2021 23:00	2.30	3.50
11/23/2021 0:00	2.23	3.43
11/23/2021 1:00	2.16	3.36
11/23/2021 2:00	2.08	3.28
11/23/2021 3:00	1.99	3.19
11/23/2021 4:00	1.91	3.11
11/23/2021 5:00	1.83	3.03
11/23/2021 6:00	1.78	2.98
11/23/2021 7:00	1.75	2.95
11/23/2021 8:00	1.80	3.00
11/23/2021 9:00	1.96	3.16
11/23/2021 10:00	2.18	3.38
11/23/2021 11:00	2.38	3.58
11/23/2021 12:00	2.49	3.69
11/23/2021 13:00	2.51	3.71
11/23/2021 14:00	2.50	3.70



11/23/2021 15:00	2.47	3.67
11/23/2021 16:00	2.43	3.63
11/23/2021 17:00	2.41	3.61
11/23/2021 18:00	2.40	3.60
11/23/2021 19:00	2.40	3.59
11/23/2021 20:00	2.39	3.59
11/23/2021 21:00	2.39	3.59
11/23/2021 22:00	2.37	3.57
11/23/2021 23:00	2.32	3.52
11/24/2021 0:00	2.27	3.47
11/24/2021 1:00	2.20	3.40
11/24/2021 2:00	2.12	3.32
11/24/2021 3:00	2.05	3.25
11/24/2021 4:00	1.98	3.18
11/24/2021 5:00	1.91	3.11
11/24/2021 6:00	1.85	3.05
11/24/2021 7:00	1.81	3.01
11/24/2021 8:00	1.82	3.02
11/24/2021 9:00	1.91	3.11
11/24/2021 10:00	2.10	3.30
11/24/2021 11:00	2.32	3.52
11/24/2021 12:00	2.50	3.70
11/24/2021 13:00	2.58	3.78
11/24/2021 14:00	2.60	3.80
11/24/2021 15:00	2.59	3.79
11/24/2021 16:00	2.56	3.76
11/24/2021 17:00	2.53	3.73
11/24/2021 18:00	2.51	3.71
11/24/2021 19:00	2.50	3.70
11/24/2021 20:00	2.49	3.69
11/24/2021 21:00	2.48	3.67
11/24/2021 22:00	2.45	3.65
11/24/2021 23:00	2.41	3.61
11/25/2021 0:00	2.37	3.57
11/25/2021 1:00	2.30	3.50
11/25/2021 2:00	2.23	3.43
11/25/2021 3:00	2.15	3.35
11/25/2021 4:00	2.08	3.28
11/25/2021 5:00	1.99	3.19
11/25/2021 6:00	1.92	3.12
11/25/2021 7:00	1.86	3.06
11/25/2021 8:00	1.81	3.01
11/25/2021 9:00	1.83	3.03
11/25/2021 10:00	1.93	3.13
11/25/2021 11:00	2.11	3.31
11/25/2021 12:00	2.30	3.50
11/25/2021 13:00	2.44	3.64
11/25/2021 14:00	2.50	3.70
11/25/2021 15:00	2.49	3.69
11/25/2021 16:00	2.46	3.66
11/25/2021 17:00	2.41	3.61
11/25/2021 18:00	2.38	3.58
11/25/2021 19:00	2.34	3.54
11/25/2021 20:00	2.31	3.51
11/25/2021 21:00	2.28	3.48
11/25/2021 22:00	2.25	3.45
11/25/2021 23:00	2.21	3.41
11/26/2021 0:00	2.18	3.38
11/26/2021 1:00	2.12	3.32
11/26/2021 2:00	2.06	3.26
11/26/2021 3:00	1.99	3.19
11/26/2021 4:00	1.91	3.11
11/26/2021 5:00	1.84	3.04
11/26/2021 6:00	1.77	2.97
11/26/2021 7:00	1.71	2.91
11/26/2021 8:00	1.67	2.87
11/26/2021 9:00	1.65	2.85
11/26/2021 10:00	1.70	2.90
11/26/2021 11:00	1.85	3.05
11/26/2021 12:00	2.06	3.26
11/26/2021 13:00	2.26	3.46
11/26/2021 14:00	2.38	3.58
11/26/2021 15:00	2.41	3.61
11/26/2021 16:00	2.40	3.60
11/26/2021 17:00	2.36	3.56
11/26/2021 18:00	2.30	3.50
11/26/2021 19:00	2.27	3.47
11/26/2021 20:00	2.21	3.42
11/26/2021 21:00	2.18	3.38
11/26/2021 22:00	2.14	3.34
11/26/2021 23:00	2.10	3.30
11/27/2021 0:00	2.08	3.28
11/27/2021 1:00	2.04	3.24
11/27/2021 2:00	2.00	3.20
11/27/2021 3:00	1.95	3.15
11/27/2021 4:00	1.89	3.09
11/27/2021 5:00	1.82	3.02
11/27/2021 6:00	1.77	2.97
11/27/2021 7:00	1.70	2.90
11/27/2021 8:00	1.66	2.86
11/27/2021 9:00	1.62	2.82
11/27/2021 10:00	1.63	2.83
11/27/2021 11:00	1.71	2.91
11/27/2021 12:00	1.89	3.09
11/27/2021 13:00	2.09	3.29
11/27/2021 14:00	2.28	3.48
11/27/2021 15:00	2.38	3.58
11/27/2021 16:00	2.39	3.59
11/27/2021 17:00	2.37	3.57
11/27/2021 18:00	2.31	3.51
11/27/2021 19:00	2.26	3.46
11/27/2021 20:00	2.21	3.41
11/27/2021 21:00	2.15	3.35
11/27/2021 22:00	2.10	3.30
11/27/2021 23:00	2.06	3.26
11/28/2021 0:00	2.03	3.22
11/28/2021 1:00	2.01	3.21
11/28/2021 2:00	1.99	3.19
11/28/2021 3:00	1.97	3.17
11/28/2021 4:00	1.92	3.12
11/28/2021 5:00	1.89	3.09
11/28/2021 6:00	1.84	3.04
11/28/2021 7:00	1.79	2.99
11/28/2021 8:00	1.75	2.95
11/28/2021 9:00	1.71	2.91
11/28/2021 10:00	1.70	2.90
11/28/2021 11:00	1.73	2.92
11/28/2021 12:00	1.82	3.02
11/28/2021 13:00	2.00	3.20

11/28/2021 14:00	2.20	3.40
11/28/2021 15:00	2.37	3.57
11/28/2021 16:00	2.43	3.63
11/28/2021 17:00	2.42	3.62
11/28/2021 18:00	2.38	3.58
11/28/2021 19:00	2.32	3.52
11/28/2021 20:00	2.28	3.47
11/28/2021 21:00	2.21	3.41
11/28/2021 22:00	2.15	3.34
11/28/2021 23:00	2.09	3.29

Estimated Water Level Mission CPR Bridge using 1D Hydraulic Model

Estimated Water Level at Barrow PS based on Mission Water Level

**From:**EMBC SWE PREOC Operations 1 EMBC:EX**Bcc:**

EMBC PDM EMBC:EX; EMBC PECC Operations 1 EMBC:EX; EMBC CTL PREOC Operations 1 EMBC:EX; EMBC NEA PREOC Operations 1 EMBC:EX; Turner, Jordan GCPE:EX; Maley, Madeline L EMBC:EX; Richards, Tara R EMBC:EX; Farmer, Elena TRAN:EX; phu.biu@gov.bc.ca; Brad.Shauer@enbridge.com; brad\_foster@cpr.ca; EMBC OPERATIONS REGIONAL STAFF ALL; Coast Guard - ICS Team; Denise Falconer; ECCC - Lisa Erven; Environment Canada - Arnel Castellan; Environment Canada - Baljit Sekhon; Environment Canada - Carmen Hartt; Environment Canada - Doug Lundquist; Environment Canada - Pacific Storm Prediction Centre shift supervisor; Environment Canada Generic; Industry - Russ Hamilton; Industry Canada - Ken Pugente; Industry Canada - Kevin Hartley; Kimberly TREMBLAY - RCMP - D Div.; Nav Canada; Nav Canada - Lilia Budakh; NAVCanada - Darrin Linders; Public Safety Canada - Duty Officer Email; Public Safety Canada Liaison; RCMP - DEOC-admin DEOC EDIV; RCMP - Mark Lundie; RCMP - Martin Guay; RCMP DEOC - Nancy Hughes; Transport Canada - Deni Langis; Transport Canada - Pacific Email; 311 Operations; Abbotsford Police - Rob Hryhorczuk; AGRI - Dieter Geesing; AGRI - Mark Raymond; Agriculture - Interior; BC Ferries - Operations; BC Housing Security and Emergency Services; BC Hydro - Gregory Sykes; BC Hydro - Grey Ryley; BC Hydro - Jerry Muir; BC Hydro - Sabrina Locicero; BC Hydro - Tara Laycock; BC Hydro - Ted Olynyk; BC Hydro Corp Emergency Centre - ECC Manager; BC Hydro Duty Coordinator; BC Hydro PREOC Rep Email; BC Oil & Gas - Jennifer Liddicoat; BC Oil & Gas - Peter Dalton; BC Transit - Neil Gibbs; BC Transit - Nigel Couch; BC Transit - Stephen Anderson; BCAA - Matt Newman; BCIT - Glen Magel; BCIT - Sharon Lewis; BCRTC - CMBC - Derek Stewart; BCRTC - CMBC - Dorit Mason; BCRTC - CMBC - Matt Adams; BCRTC - Jon Arason; BCRTC - Translink - Brian Jensen; BCSARA - Brian Lamond; Bell - Cni-nic; BNSF - Hana Hunn; BNSF Rail - Operations; Canadian Red Cross Duty Officer; CMBC Emergency Manager; CN Rail - Doug Allen; CN Rail - John Nicoletti; CN Rail - Trevor Evans; CN Rail - Wade O'Brien; CP Rail - David Miller; CP Rail - Jeff Livesey; CP Rail - Mike Lovocchio; CP Rail - Robert North; CP Rail - Ron Kotylak; CRC - Kai Nestman; CSIS - Sabrina Marzari; DAVE HART(Port Metro); ECOMM; ECOMM911 - Tony Gilligan; FireInfo BC; FNHA - Jane Mather; Fortis - Jimmy Yip; Fortis - Maxine Hickli; FortisBC - Taras (T.M.) Sandulak; FortisBC Dispatch Gas Operations; Health - Mark Phillips; Health - Nicole Spence; Health Duty Officer; Health ECC Generic Email; Health PREOC; HECC Operations; HEMBC - Scott Blessin; HEMBC DPS Program; IBC - Greg Moy; Insurance Bureau of Canada - Aaron Sutherland; Jack Chen (Jack.Chen@technicalsaftybc.ca); James Ablitt (James.Ablitt@technicalsaftybc.ca); Jen Stoutenburg (jen.stoutenburg@technicalsaftybc.ca); JIBC - Bettina Williams; JIBC - Janine Aussem; JIBC - Jodie Marshall; Kinder Morgan - Bob Love; Kinder Morgan - Bruce Jamer; Kinder Morgan Jason Turner; KPU Richmond - Emergency Planning; KPU Richmond - Gino Pagliericci; Kussal, Ivan s.22 Lisa Modica-Amore (lisa.modica-amore@technicalsaftybc.ca); Mainroad LM - Bob Devaney; OGC 24/7 Duty Manager; OGC Security and Emergency Management Group (emp@bcogc.ca); PHAC - Generic Email; Port of Vancouver - Anastasia Ovodova; Port of Vancouver - Danielle Trudeau; Port of Vancouver - Port Operations Centre 24/7; Protrans BC - Shabnam Mirseraji; Rocky Mountaineer - Michelle Papas; Salvation Army - Ian Pollard; SFU - Laura Kerek; SFU - Laura Vajanto; SFU - Peter Anderson; SFU - Security; SFU - Steve Braham; Shaw Communication Vancouver Regional Operations Duty Manager; Shaw Regional Action Centre (RAC) 24/7; SPCA Emergency Response Directors (emergencyresponsesdirectors@spsa.bc.ca); St. John Ambulance - Ashten Black; St. John Ambulance - Jane Short; St. John Ambulance - Scott Perrault; Telus - Ramon Zulueta; TELUS - Sarah MacDonald; TELUS - Shawn Cowley; TELUS Business Continuity; TELUS GVRD - Kirk Panser; Trans Mountain - Kelly Malinoski; Translink - Canada Line - Ron Powell; Translink - Dorit Mason; Translink EOC; Translink - Pat Koch; Tzu Chi - Tony Lee; UBC - Daniel Smutylo; UBC - Hailey Maxwell; Vancouver Coastal Health - Rocio Andrews; Vancouver EOC Director / VOC Deputy Director EOC Director; Vancouver USAR - David Boone; VIA Rail - Peter Lambrinakos; VIA Rail - Thierry Plamondon-Tremblay; Vince Busto; YVR - Airport Operations; YVR - Carla Hanson; YVR - James Blake; YVR - Monty Rahman; YVR - Trevor Boudreau; Abbotsford - Darcy Ross; Bodo Wiedemann s.22 Burnaby - Patricia Kavanagh; David Sinclair s.22; Delta - Jason Rickerby; DERC BCIT Bob Holowenko; DERC Port Coquitlam, Chris Carr s.22; DERC SURREY Ken Clark (kenclarke@shaw.ca); DERC WHITE ROCK ERIC KEHLER (eric@databyte.com); ERC BC Hydro, Sol Lancashire Hydro (sol@lancs.ca); ERC CHILLIWACK John Jackaman s.22; ERC Coquitlam - Richard Woznianek; ERC Whistler Cameron Chu (s.22); Hope - Walter Chernoff; Jim Forsyth ERC Vancouver s.22 Kent Harrison Agassiz - Mike Ozzard; Langley City - David Barber; Langley City - Glen Johnson; Langley Emergency Program; Langley Township - Al Peterson; Langley Township - Dave Easingwood; Maple Ridge - Nick Gaudioso; Maple Ridge - Ron Darcus; Mission - Mike Mayer; New West - Geoff Armstrong; New West - Jeremy Cohoe; New West - Kevin Wright; NSEM - Bob Piggott; Paul Bryan; PERCS - Leonard McCabe; RAC - Neil King; S.E.P.A.R. - Gordon Kirk; Surrey SAR - James Longley; UBC - Tom Carroll; Vancouver - Gary Webb; Vancouver Coast Health - Ernie Mix; White Rock MERC Ralph Webb; Abbotsford - Craig Leighton; Abbotsford - Darren Lee; Abbotsford - Pardeep Agnihotri; Abbotsford - RJ Adams; Abbotsford - Sarina MacDonell; Abbotsford EOC Director; Abbotsford EOC Planning Chief; Abbotsford Police - Desi Sansalone; Agassiz - Mike Van Laerhoven; Chilliwack - Ian Josephson; Chilliwack - Chris Wilson; Chilliwack - David Blain; Chilliwack - Frank Van Nynatten; Chilliwack - Mike Bourdon; Chilliwack - Tara L. Friesen; FVRD - Orion Engar; FVRD Emergency Duty Officer; Hope - Tom Desorcy; Kent Harrison - Derek Dubiellak; Mission - Heather Gherman; Mission - Mark Goddard; Mission - Nick Rychkun; Sto:lo FN - Andrew Ming; Anmore - Jay Sharpe; Anmore - Juli Haliwell; Anmore - Karen Elrick; Belcarra - Lorna Dysart; Belcarra - Stewart Novak; Bowen Island - Christie Stashyn; Burnaby - Brian Carter; Burnaby - Charmaine Pflugrath; Burnaby - Dave Critchley; Coquitlam - Brad Lofgren; Coquitlam - Jim Ogloff; Coquitlam - Nicole Kimmitt; Coquitlam - Stephanie James; Delta - Dave Ayton; Delta - Guy McKintuck; Delta - Michel Latendresse; Delta Police DOC; Langley - A Ruhl; Langley - R Zwaag; Langley (T) Denise Heichert; Langley City - Rory Thompson; Langley City & Township - Cheryl Lalonde; Langley Township - P Cordeiro; Langley Township - Stephen Gamble; Lions Bay; Maple Ridge - Howard Exner; Maple Ridge - James Clelland; Maple Ridge - James Storey; Maple Ridge - Stephan Drolet; Metro Van Duty Officer; Metro Vancouver - Bill Duvall; Metro Vancouver - Brant Arnold-Smith; Metro Vancouver - William Beatty; Metro Vancouver PREOC REP; New Westminster - Cory Hansen; New Westminster - Rob Dick; New Westminster - Tim Armstrong; NSEM - Emily Dicken; NSEM - John Hawkes; NSEMO Liaison Generic; Pitt Meadows - Barbara Morgan; Pitt Meadows - Debi Hooks; Port Coquitlam - Robert Kippes; Port Coquitlam - Trisha Maciejko; Port Moody - Jeff Moi; Port Moody - Kate Zanon; Port Moody - Kirk Heaven; Port Moody - Paul Rockwood; Port Moody - Tim Savoie; Richmond - Tim Wilkinson; Richmond Emergency Management Office;

Surrey - Larry Thomas; Surrey - Mark Griffioen; Surrey - Shelley Morris; Surrey FOC; Vancouver - Ashley Hooper; Vancouver - Daniel Stevens; Vancouver - Kirsten Jasper; Vancouver - Miranda Myles; Vancouver ESS/EM Duty Manager - 24 hour On Call; Vancouver PD Risk Officer - Karen Collins; White Rock - Ed Wolfe; White Rock - Norm MacLeod; Egmont - Kal Helyar; Gibsons - Jordan Pratt; Halfmoon Bay - Ryan Daley; Halfmoon Bay - Tom Wayne; Lillooet - Darren Oike; Lions Bay - Naizam (Nai) Jaffer; Lions Bay - Peter DeJong; Lions Bay - Robert Whitney; Pemberton - Nikki Gilmore; Pemberton - Robert Grossman; Pemberton - Sarah Toews; Pemberton - Vinka Hutchinson; PVDD - Steve Flynn; Roberts Creek - Pat Higgins; Roberts Creek - Sean Hatanaka; SCD - Carolyn Hayman; SCD - Matt Treit; SCD - Rob Michael; Sechelt - Andrew Yeates; Sechelt - Dwight Davison; Sechelt - Julie Rogers; Sechelt - Trevor Pike; SLRD - Mike Fusca; SLRD - Sarah Morgan; Squamish - Bill Stoner; Squamish - Christina Moore; Squamish - Megan Latimer; Squamish - Sean Sweeney; Squamish - Shawn McLean; Whistler - Andrew Tucker; Whistler - Chris Wike; Whistler - Erin Marriner; Whistler - Ryan Donohue; "Rita Bergsma"; Susanne MacKinnon; Vancouver - Jackie Kloosterboer; Anmore - Jim Matthews; BC Housing - Patrick Cullen; Bowen - Carolyn McDonald; Burnaby - Allison Sanderson; Burnaby ESS; Cheam FN - Andrew Victor; Chilliwack - Lisa Richardson; Coquitlam ESS; CRC - Gary Carleton; Delta - Kate Steel; FVRD - Tarina Colledge; Kent Harrison - Pierre Groenenboom; Langley, City & township - Tara Sutherland; Lions Bay - Fred Bain; Maple Ridge - Marla Weinheimer; Metro Vancouver - Nela Graham; Mission - Monique Weir; Mission ESS; NSEMO - Anne Martin; Port Moody - Devin Jain; Port Moody - Jim Lacroix; Port Moody - Roselle Quinones; Richmond - Norman Kotze; Richmond - Harpreet Jaswal; SCD - Marilyn Pederson; Semiahmoo FN - Leeann Wells; Semiahmoo FN - Samantha Wells; Shxwhay FN (Skway) - Michelle Roberts; Squamish - Sally Collins; Sts'ailes FN - Margaret Charlie; Surrey - Karin Pasqua; Surrey - Laurie Cavan; Surrey - Tara Roberts; Whistler - Kerry Hannah; Whistler - Roger Weetman; White Rock - Sylvia Yee; Aitchelitz FN - Chief Angie Bailey; Boothroyd First Nation; Boothroyd FN - Cheryl Davidson; Boothroyd FN - George Campbell; Boothroyd FN - Lawrence Campbell; Boston Bar FN - Cathy Speth; Boston Bar FN - Dolores O'Donaghey; Boston Bar FN - Kelley Williams; Boston Bar FN - Pamela Robertson; Chawathil FN - Audrey George; Chawathil FN - Deanna John; Chawathil FN - Rhoda Peters; Chawathil FN - Rose Peters; Cheam FN - Eric Alex; Cheam FN - Rob Kovac; Cheam Indian Band - Deidra Aleck; Katzie First Nation - Maureen Eugene; Katzie FN - Ian Cowan; Katzie FN - Moira Adams; Katzie FN - Stacey Goulding; Kwantlen FN - Carol Gabriel; Kwantlen FN - Carrie Mitchell; Kwantlen FN - Christine Loewen; Kwantlen FN - Les Antone; Kwantlen FN - Marilyn Carpenter; Kwaw-Kwaw-Aplit - Randy Leon; Kwikwetlem FN - John Peters; Leq'a:mel FN - Barb Leggat; Leq'a:mel FN - Shawn Gabriel; Leq'a:mel FN - Stephen McGlenn; Matsqui FN - Alice McKay; Matsqui FN - Cindy Collins; Matsqui FN - Brenda Morgan; Peters Band - Mark Peters; Peters FN - Norma Webb; Peters FN - Victoria Peters; Seabird Island - Al Fraser; Seabird Island - Ashley Bobb; Seabird Island - Daniel Harry; Seabird Island - John Bobb; Seabird Island - Paula Woodruff; Seabird Island Band - Bonnie Nickel; Seabird Island FN - Daryl McNeil; Seabird Island FN - J Campbell; Shxwhay Village - Chief Robert Gladstone; Shxwhay Village (Skway FN) - Tyrell Kenworthy; Shxwowhamel EPC; Shxwowhamel FN - Angie Dick; Shxwowhamel FN - Bonnie Leggat; Shxwowhamel FN - Kaleen Pettis; Shxwowhamel FN - Raymond Louie; Shxwowhamel FN - Sally Hope; Shxwowhamel FN - Shane James; Skawahlook FN - Michael Suedfeld; Skawahlook FN - Sharron Young; Skawahlook FN - Susan McKamey; Skawahlook FN - Brian; Skowkale FN Mark Point; Skwah FN - Lory Oberst; Skwah FN - Robert Combes; Skwah FN - Ron Prest; Soowahlie FN - Dana St. Dennis; Soowahlie FN - Juliette; Soowahlie FN - Wade Nahanne; Spuzzum - Crystal Hatzidimitriou; Spuzzum FN - Crystal-Anne Hatzidimitriou; Spuzzum Nation Reception; Sq'ewlets FN - Katina Pennier; Squiala FN - Brittney Friesen; Squiala FN - Nikki Jackson; Sq'welets FN - Johnny Williams Jr.; Stó:lo FN - Dave Schaepe; Stó:lo FN - Karen Brady; Stó:lo FN - M Goold; Stó:lo FN - M McGinity; Stó:lo TC - Tyrone McNeil; Stolo FN - Sue Griffin; Stolo Nation Food Sovereignty; Sts'ailes FN - Boyd Peters; Sts'ailes FN - Ralph Leon; Sts'ailes FN - Tim Felix; Sumas FN; Sumas FN - Jackie Bird; Sumas FN - Richard Hall; Tzeachten FN - Deanna Honeyman; Tzeachten FN - Derek Epp; Tzeachten FN - James Atebe; Tzeachten FN - Leah Efford; Union Bar - Jessica James; Union Bar - Joshua Currie; Union Bar - Tammy Shields; Yakwekwioose FN - Nicole LaRock; Yale FN - Dominic Hope; Yale FN - Elsie Kipp; Yale FN - Ken Hansen; Yale FN - Laureen Duerksen; Katzie - Grace Cunningham; Katzie - Rick; Katzie FN - Debbie Janus; Katzie FN - Denis Valliancourt; Kwikwetlem FN - Lance; Kwikwetlem FN - Ed Hall; Kwikwetlem FN - Erika Scholten; Kwikwetlem FN - George Chaffee; Kwikwetlem FN - Theresa Boyce; Matsqui FN - Alice McKay; Musqueam First Nation - Morgan Guerin; Musqueam FN - Coreen Mathison; Musqueam FN - Laurence Paul; Musqueam FN - Tracy Samra; Musqueam IB - Jim MacDonald; Naut'samawt TC - Erik Blaney; Peter (peter@katzie.ca); Semiahmoo FN - Joanne Charles; Semiahmoo FN - Joanne Charles; Semiahmoo FN - Leeann Wells; Semiahmoo FN - Paul Gadbois; Semiahmoo FN - Samantha Wells; Squamish FN - Austin Chandler; Squamish FN - Josie Harry; Tsawwassen FN - Jordi Nickolet; Tsleil-Waututh FN - Andrew Van Eden; Tsleil-Waututh FN - Ernie George; Tsleil-Waututh FN - Spencer Taft; Bob Sokol (Bob\_Sokol@squamish.net); Lil'wat - Dean Nelson; Lil'wat - Sylvia Dan; Lil'wat - Troy Bikadi; Lower Stl'atl'imx TC - Sheldon Dowswell; N'Quatqua - Chantel Thevarg; Nxwisten - Gerald Michel; Samahquam FN - Clara Smith; Samahquam FN - Tammy Peters; Sechelt FN - Jesse Waldorf; Sekw'el'was - Michelle Edwards; Skatin First Nation; Squamish FN - David Harrison; Squamish FN - Doreen Maruska; Squamish FN - Glenda Gibbon; Squamish FN - Paul Wick; Titqet FN - Susan Napoleon; Titqet FN - Susan Napoleon; Tsai'alh FN - Crystal Branget; Ts'kw'aylaxw - Francis Alec; Ts'kw'aylaxw - Francis Alec (reception); Xaxli'p FN - Shonna Jacob; Xa'Xtsa FN - Amelia Paul; Xa'Xtsa FN - Chief Don Harris; Xa'Xtsa FN - Rosanna Peters; BC Association of Aboriginal Friendship Centres; FN EPS - Gillian Fuss; FN EPS - Maggie Mazurkewich; FN EPS - Vanessa Serroul; FNESS - Bob Mills; FNESS - Brent Langlois; FNESS - Esther Winder; FNESS - Xiomara O'Brien; FNHA - Amber Lee; FNHA - Brent Tom; FNHA - Casey Neathway; FNHA - Diane McEachern; FNHA - Gethsemene Luttrell; FNHA Ildiko Herr; FNHA - James Whelan; FNHA - Linda Pillsworth; FNHA - Mark Turner; FNHA - Michelle DeGroot; INAC Duty Officer; ISC - Brent Baron; ISC - Duncan Stephen; ISC - Jaimi Gardner; ISC - Marie Urdiga; ISC - Tim McCann; ISC - Genevieve Lindsay; LABRC FN - Brittany Hall; LABRC FN - Denise Unger; LFFA (FN) - Dionne Bunsha; MARR CI EMB; MIRR Jennifer Walker; Terri Holoday s.22 EMB - Alan Hurley; EMB - Amrita Bhalla; EMB - Craig Bland; EMB - Ian Cummings; EMB - Jeff Owens; EMB - John Oakley; EMB - Kathleen Fryer; EMB - Ken Meeks; EMB - Lori Lolacher; EMB - Nicole Aichele; EMB - Pavan Toor; EMB - Richard Chang; EMB - Richard Laing; EMB - Shaun Glass; EMB - Shelly Ewen; EMB - Tyler Haley; EMB - Yannic Brugman; IPREM - Leanne Black; IPREM - Peter MacDonald; John Oakley

s.22 OFC - Brian Godlonton; OFC - Steve Wright; BCEHS - Randy Hansen; Bob Manson; CBS - Cynthia Calinisan; FNHA - Dan Ferguson; FNHA - Jodie Millward; FNHA - John Ford; Fraser Health - Terri-Lou Woods; Fraser Health security; Health PHSA - Jill Cathcart; HEMBC - Amy Romanas; HEMBC - Christine



Turenko; HEMBC - Jennifer McGowan; HEMBC - Lower Mainland Acute and Residential; HEMBC - Maddy Laberge; HEMBC - Mark Phillips; HEMBC - Michael Scott; HEMBC - Penelope Mador; HEMBC Generic; Ita Hyland; PHSA - John Lavery; PHSA - Robin Gardner; JTFP - Brendon LeBlanc; JTFP Asst SRLO - Benny Pong; JTFP Asst SRLO - Benny Pong (Mai); JTFP OP - Robert Alliston; JTFP RLO - Barry Plaxton (Capt); JTFP RLO - Brad Fairall; JTFP RLO - Brad Fairall (MWO); JTFP RLO - Brendon LeBlanc; JTFP RLO - Charles Middleton (CWO); JTFP RLO - Chris Scott; JTFP RLO - Justin Tegart; JTFP RLO - Justin Tegart; JTFP RLO - Leah Wilson; JTFP RLO - Paul Lavallee; JTFP RLO - Rod Tulett (CPO 2); EMBC SWE PREOC Advanced Planning Unit 1, EMBC EMBC:EX; EMBC SWE PREOC Advanced Planning Unit 2, EMBC EMBC:EX; EMBC SWE PREOC Advanced Planning Unit 3, EMBC EMBC:EX; EMBC SWE PREOC Advanced Planning Unit 4, EMBC EMBC:EX; EMBC SWE PREOC Advanced Planning Unit 5, EMBC EMBC:EX; EMBC SWE PREOC Communications Unit 1 EMBC:EX; EMBC SWE PREOC Communications Unit 2 EMBC:EX; EMBC SWE PREOC Communications Unit 3 EMBC:EX; EMBC SWE PREOC Communications Unit 4 EMBC:EX; EMBC SWE PREOC Communications Unit 5 EMBC:EX; EMBC SWE PREOC First Nations 1 EMBC:EX; EMBC SWE PREOC First Nations 2 EMBC:EX; EMBC SWE PREOC Planning 6 EMBC:EX; EMBC SWE PREOC Planning 7 EMBC:EX; EMBC SWE PREOC Recovery Unit 1, EMBC EMBC:EX; EMBC SWE PREOC Recovery Unit 2, EMBC EMBC:EX; EMBC SWE PREOC Recovery Unit 3, EMBC EMBC:EX; EMBC SWE PREOC Recovery Unit 4, EMBC EMBC:EX; EMBC SWE PREOC Recovery Unit 5, EMBC EMBC:EX; SWE PREOC Deputy Director; SWE PREOC Director; SWE PREOC ESS 1; SWE PREOC ESS 2; SWE PREOC Finance & Admin; SWE PREOC Fire Branch 1; SWE PREOC Fire Branch 2; SWE PREOC Liaison; SWE PREOC Logistics 2; SWE PREOC Logistics 3; SWE PREOC Logistics 4; SWE PREOC Logistics Chief; SWE PREOC Operations 2; SWE PREOC Operations 3; SWE PREOC Operations 4; SWE PREOC Operations 5; SWE PREOC Operations 6; SWE PREOC Operations Chief; SWE PREOC Planning 2, Situation Unit; SWE PREOC Planning 3, Documentation; SWE PREOC Planning 4, CI; SWE PREOC Planning 5; SWE PREOC Planning Chief; SWE PREOC Public Info Officer; AGRI - Brent Barclay; AGRI - Georgina Hodson; AGRI - Graham Knox; AGRI - James Street; AGRI - Lindsay Bisschop; AGRI Emergency Management PECC; Agriculture - Emergencies; BC Parks - Elyse Guzek; BC Parks Peace Arch - Elyse Curley; BCAS Dispatch; BCEHS - Andrew Billing; BCEHS - Christine Grist; BCEHS - Daniel Zawyrucha; BCEHS - William (BJ) Chute; BCLDB - Erin McEwan; BCLDB - Layla Giuca; BCWS - Fraser Zone; BCWS - Pemberton Zone; BCWS - RWCO Coastal Fire Centre; BCWS - Sunshine Coast Zone; CITZ - John Carrelli; Corrections - Michael Fernquist; Faganello, Tara MUNI:EX; FLNR - Allan Johnsrude; FLNR - Ashlee Jollymore; FLNR - Brian Epps; FLNR - Bryan Robinson; FLNR - Charles Luo; FLNR - Cher King-Scobie; FLNR - Dave Southam; FLNR - David Campbell; FLNR - Derek Lefler; FLNR - Giles Fournier; FLNR - Gurdeep Singh; FLNR - Hardy Bartle; FLNR - Jonathan Boyd; FLNR - Junying Qu; FLNR - Kevin Haberl; FLNR - Malcolm Schulz; FLNR - Mike Peters; FLNR - Mitchell Hahn; FLNR - Queenie Yip; FLNR - Randall Dayton; FLNR - Ron Nilsson; FLNR - Scott Morgan; FLNR - Scott Shaw-MacLaren; FLNR - Trevor Bohay; FLNR - Tyler Andersen; FLNR WX - Matt MacDonald; FLNRORD - Godson Umeokwochi; FLNRORD - Megan Fong; GCPE - Jordan Turner; Horel, Bridget FLNR:EX; Koh, Wendy FLNR:EX; Liggins, Lavona AFF:EX; Macmillan, Donald I PSSG:EX; MAH - Nicola Marotz; MCF EMU; MCFD - Louise Bouchard; MECC - Tony Litke; Ministry of Housing and Social Development; MIRR - Cam Filmer; MIRR - Janice Franklin; MOE - Avtar Sundher; MOE - Chris Doyle; MOE - Rhonda Brett; MOTI - Ashok Bhatti; MOTI - Chris Lee; MOTI - Don Legault; MOTI - Elena Farmer; MOTI - Frank Roussel; MOTI - Grant Smith; MOTI - Henry Lew; MOTI - Janelle Staite; MOTI - Ken Nash; MOTI - Michael Braun; MOTI - Patricia Wong; MOTI - Pete Prendergast; MOTI - Ron McCormack; MOTI - Van Phu Bui; MOTI Generic PREOC Email; OSCIO IT Operations Centre; PSSG - Myrna Luknowsky; PSSG - Tony Porter; Qu, Junying FLNR:EX; RFC - George Roman; RTMC - Provincial Highways Conditions Centre; TMCBC TRAN:EX; Xia, Cenling FLNR:EX; Bo Wiedemann; Mark Spencer; Steve Kern; Agassiz - Gerald Basten; Agassiz - John Vantol; Agassiz - Wayne Dyer; Chilliwack Valley VFD - Colby Johnson; Chilliwack Valley VFD - Mike Danyluk; Columbia Valley VFD - Larry Parcher; Columbia Valley VFD - Michael Soth; Columbia Valley VFD - Nathan Steegstra; Halfmoon Bay VFD - Greg Phelps; Hope SAR - Barry Gannon; Hope SAR (Tanya MacNenesh); Lions Bay - Andrew Oliver; Mission - Dale Unrau; Mission Fire Duty Chiefs; North Fraer VFD (Steve Howell); North Fraser VFD - Curtis Stevens; Pemberton Fire - Cameron Adams; Pender Harbour Fire - Don Murray; Popkum VFD - Walter Roos; SCRd - Sechelt Fire Duty Officer; SCRd Bob Stevens; SCRd Gibsons Fire Chief; Sean Hatanaka - Roberts Creek Volunteer Fire Dept (sean.hatanaka@scrd.ca); Squamish Fire - Russ Inouye; Sunshine Valley VFD - Chris Terry; Sunshine Valley VFD - Gary Vath; Whistler Fire; Abbotsford PD - Colin Wiebe; BCSARA - Trent Blair; BCSARA Director Sea to Sky Rep - John Howe; BCSARA Fraser Valley Director - Frank Van Nynatten; BCSARA President - Chris Kelly; BCSARA Support - Kathy Stenton; CFV SAR - Christie Falk; CFV SAR - Jerry Haak; CFV SAR - Lee Holeczek; CFVSAR - Lee Holeczek; Chilliwack SAR - Dave Casey; Chilliwack SAR - Doug Fraser; Chilliwack SAR - Equipment; Chilliwack SAR - Greg Unruh; Chilliwack SAR - Josef Seywerd; Chilliwack SAR - President; Coquitlam SAR - Managers; Coquitlam SAR - President; EMBC SAR SP - Allan Mole; Hope SAR - Barry Gannon; Hope SAR - Noelle Hartt; Hope SAR - Ray Hartt; Hope SAR - Stacey Gauthier; Hope SAR - Steve Link; Hope SAR - Tanya MacNeish; KHSAR - Neil Brewer; Langley AIR - George Miller; Lions Bay SAR - Brent Calkin; Lions Bay SAR - Martin Collwell; Lions Bay SAR - Sandro Frei; managers@sfsar.ca; Mission SAR; Mission SAR - Rodger Williams; Mission SAR Training Officer; North Shore Rescue - Allan McMordie; North Shore Rescue - Don Jardine; North Shore Rescue - Greg Miller; North Shore Rescue - Jeff Yarnold; North Shore Rescue - Mike Danks; North Shore Rescue - Scott Merriman; North Shore Rescue - Simon Jackson; NorthShore Rescue - Scott Campbell; NSR - Dale Weidman; Pemberton SAR - Martin Buchheim; Pemberton SAR - Peter Schimek; Pemberton SAR Managers; president@sfsar.ca; RCMP - Carla Der; RM SAR - Del Doornbosch; RM SAR - Michael Day; RM SAR - SAR Managers; South Fraser SAR - icp@sfsar.ca; Squamish SAR - Board of Directors; Squamish SAR - Managers; Squamish SAR - Operations Committee; Sunshine Coast SAR Managers; Surrey SAR - Don Burgess; Whistler SAR - Brad Sills; Whistler SAR - Daren Romano; Whistler SAR - Daryl Kincaid; Whistler SAR - Rob Withey; Whistler SAR - Rob Withey; IPREM - Shannon Peterson; TEAMS - Aastha Sahdev; TEAMS - Andrea Schmidt; TEAMS - Andrew Wallwork; TEAMS - Carley Coccolla; TEAMS - Carrie Davis; TEAMS - Cassandra Fuhrmann; TEAMS - Christopher Lien; TEAMS - Cindy Grantham; TEAMS - Danielle Dzioba; TEAMS - Darlene Bozanic; TEAMS - David Ramsay; TEAMS - Donna Ellis; TEAMS - Doug Wolgram; TEAMS - Ellen Law; TEAMS - Harold Dixon; TEAMS - Harp Dhaliwal; TEAMS - Heather Imrie; TEAMS - Jim Jensen; TEAMS - Jing Zhang; TEAMS - Joakim Zatko; TEAMS - Kathleen Murphy; TEAMS - Katrina Estoque; TEAMS - Kristin Vanderkuip; TEAMS - Megan Coyle; TEAMS - Rachel Chapman; TEAMS - Raymond Young; TEAMS - Rhannon Domynt Pergentile; TEAMS - Sanja Radic; TEAMS - Scott Hill; TEAMS - Stefani Thornson; TEAMS - Stephanie Suski; TEAMS - Suzanne Tarlier; TEAMS - Tanvi Ahuja; BC Hydro Bob Gammer; Bell - Carol McDonald; Duty Manager -

Shaw Communications; E-Comm PECC Alerts; Hewson, David EMBC:EX; ISED - 24/7 Emergency Contact; ISED - Kasun Somaratne; Pacific Northern Gas - Emily Ortis; Pembina Pipeline - Andy Fedechko; Pembina Pipeline - Cory Klapper; Pembina Pipeline - Joel Block; Pembina Pipeline - Natasha Nassyrova; Rogers - Jim Loree; Rogers - Andy Chernoff; Rogers - Tony D'Agostino; Rogers - Tony Smith; Shaw - Brad Stephenson; Shaw - Tracey Fischer; TELUS - Parm Sandhu; TELUS - Scott Freeman; TELUS - Todd Worrell

**Subject:** SWE PREOC Situation Report #2 and Map for 2021NOV15  
**Date:** November 15, 2021 17:13:00  
**Attachments:** [SWE PREOC Situation Report #2 2021NOV15.pdf](#)  
[Situation Map #2 2021NOV15.pdf](#)

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## South West Provincial Regional Operations Centre (SWE PREOC)

### SITUATION REPORT #2

#### Event: Atmospheric River

**Date/Time Issued:** 2021-11-15; 1700hrs

**Task #:** 223862

**Operational Period:** 2021-11-15

**Primary PREOC Email:** [preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)

**Primary PREOC Phone:** 778-572-3962

**Primary PREOC Fax:** 604-586-4083

**Overall Regional Situation:** Static

Activated EMBC Staff: 10      Activated TEAMS: 3      Agency: 4

**The next Situation Report will be issued:** 2021-11-16 at 1530hrs

\*\* New information

## KEY PROVINCIAL INFORMATION

0. The Southwest PREOC is activated to support communities affected by flooding and landslides caused by the Atmospheric River

### Environment Canada

1. Environment Canada has issued the following weather warnings:

Rainfall warnings are in effect for:

- Coquihalla Hwy – Hope to Merritt, Fraser Valley including Metro Vancouver, Fraser Valley, Howe Sound, Sea to Sky - Squamish to Whistler, Whistler, Sunshine Coast - Gibsons to Earls Cove
- Total rainfall up to 180 to 250 mm. Rising freezing levels with melting snow giving rise to increased river flows and localised flooding. So far, the highest rainfall amounts near 180 to 200 mm have been observed over central and eastern Fraser Valley. Additional rainfall amounts near 50 mm are expected today

Wind warnings are in effect for:

- Howe Sound, Metro Vancouver, Fraser Valley east including Hope

Snowfall warning in effect for:

- Coquihalla Hwy – Hope to Merritt. Heavy snow tonight, snowfall accumulation 15 to 25 cm

### River Forecast Centre

6. The River Forecast Centre is upgrading to a Flood Warning for:
  0. Coquihalla River
7. The River Forecast Centre is upgrading to or maintaining a Flood Watch for:
  0. Sea to Sky (upgraded)
    1. Howe Sound (upgraded)
    2. North Shore Mountains (upgraded)
    3. Fraser Valley including surrounding tributaries
    4. Fraser Canyon tributaries, including tributaries around Hope
    5. Chilliwack River
8. The River Forecast Centre is maintaining a High Streamflow Advisory for:
  0. Sunshine Coast
    1. Metro Vancouver
9. The next Coordination Call will be 2021NOV16 @ 0900hrs
10. **Total Active RCs: 4**
11. **Total Active Alerts: 7**
12. **Total Orders: 4**
13. **Total States of Local Emergency: 4**
14. **Total Band Council Resolutions: 0**

#### WEATHER FORECAST FOR – 2021NOV16

##### Abbotsford

Monday PM Mainly cloudy with 40 percent chance of showers late this evening and overnight. Wind southwest 60km gusting to 80 diminishing to 20 early this evening. Low plus 4

Tuesday AM Clearing in the morning. Wind southwest 20 km/h. High 9

Tuesday PM Clear. Low minus 1

##### Pemberton

Monday PM Mainly cloudy. Flurries beginning this evening. Local amount 2 to 4 cm. Wind southwest 20 km/h becoming light this evening. Low minus 3

Tuesday AM A mix of sun and cloud. Clearing near noon. High plus 3

Tuesday PM Clear. Low minus 8

#### FIRST NATIONS

##### Chawathil First Nation:

- **Incident:** Flooding
- EOC activated for flooding. 1 home is flooding and material is sliding off of bluffs around the community

##### Kwikwetlem First Nation:

- **Incident:** Flood Alert
- Put on flood alert from BC Hydro Dams
- EOC activated 2021NOV15

**Leq'á:mel First Nation:**

- **Incident:** Flooding
- Virtual EOC activated 2021NOV15 due to flooding and 1,000 sandbags requested

**Matsqui First Nation:**

- **Incident:** Localized flooding on IR 2 and IR 4
- Requested sandbags and sand due to localized flooding on IR 2 and IR 4

**Peters First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV14 for flooding

**Skawahlook First Nation:**

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

**Seabird Island**

- **Incident:** Band office and gym have opened as warming station for travellers stranded by highway closures. Seabird Island Band – 2895 Chowat Rd, Agassiz

**Lytton First Nation/Camp Hope**

- **Incident:** Activated in support of evacuees located at Camp Hope. Additional accommodation may be available at Camp Hope

**LOCAL AUTHORITIES****Abbotsford:**

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding
- **Alerts: 7**
  - 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
  - Matsqui Village: Grace Road North to the Matsqui Slough
  - Clayburn Area: Clayburn Village and surrounding area
  - Eagle Mountain Areas: Cranberry Court, Briarwood Place, Doneagle Place
  - Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road
  - Sumas Prairie: Westside of Whatcom Road, East of Huntington Village, Southside of Vye Road
  - Straiton Areas: Dawson Road East of Sumas Mountain Road
- **Homes Alerted:** unknown
- **Orders: 2**
  - Issued 2021NOV15 for 5 units on Straiton Road
  - Issued 2021NOV15 for Sumas Prairie including the area bordered by: Sumas Mt. and Yale Rd to the North, The USA border to the South, the Sumas River Dike to the East and Sumas Way to the West

- **Homes Ordered:** 5 units
- **State of Local Emergency: 1** – issued 2021NOV15 and expires 2021NOV23 at midnight
- **Reception Centre(s): 1,** Abbotsford Recreation Centre (ARC), 2499 McMillan Road
- **Individuals Registered with ESS:** unknown
- Reception Centre is located at the Abbotsford Recreation Centre (ARC) 2499 McMillan Road for any residents displaced due to the flooding and/or landslide events currently occurring
- 2021NOV14: Fire and Police are currently sandbagging and debris clearing
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

#### **Bowen Island:**

- **Incident:** Flooding
- EOC activated 2021NOV15 due to flooding

#### **Burnaby:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

#### **Chilliwack:**

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding causing travellers to be stranded
- **Reception Centre: 1** – Chilliwack Secondary School, 46363 Yale Road
- Due to the high stream flows, the following parking areas along the Vedder Greenway will be closed until further notice: Vedder Park, Peach Park, Lickman Parking lot, Keith Wilson Bridge, No. 3 Road, Browne Road, Giesbrecht Road
- The public are asked to stay away from the Vedder River (including adjacent trails) and other fast moving water
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

#### **Fraser Valley Regional District:**

- **Incident:** Heavy rainfall causing overland flooding and mudslides
- **Orders: 2**
  - Issued 2021NOV14 at 1130hrs for Bridal Falls Area, FVRD Electoral Area “D” for 1 property on Bridal Falls Road
  - Issued 2021NOV15 at 0030hrs for Chilliwack River Valley, FVRD Electoral Area “E” for 4 properties on Auchenway Road
- **State of Local Emergency: 1** - declared 2021NOV14 at 2230 for all Electoral Areas of the FVRD to remain in force until 2021NOV21 at midnight
- **Homes Evacuated:** to be confirmed
- **Reception Centre(s): #**
- **Individuals Registered with ESS: #**
- There has been an approximately 50 ft. mudslide in the Bridal Falls area, which has led to an

evacuation order at Camperland RV Resort & Cabins on Bridal Falls Rd. in FVRD Electoral Area D. Approximately, 24 people were evacuated

- Four (4) properties have been evacuated at Auchenway Road in Chilliwack River Valley in FVRD Electoral Area E
- The water level at Wilson Road dike in Chilliwack River Valley is approximately 1m below the crest. Operations crew are monitoring the water levels at the dike. The dike is approx. 900m and protects 20 properties and Chilliwack Lake Road. The dike is actively eroding and at risk of overtopping
- Jones Creek water levels are high. A local resident has been providing updates regarding the creek levels. The creek has eroded the banks and is approximately 8ft. away from the structure. The Laidlaw Bridge requires monitoring through MoTI
- Multiple landslides have created road closures at Hwy 1
- 24 people or 5 various groups with pets require shelter, these are mostly stranded travellers

#### **Village of Harrison Hot Springs:**

- **Incident:** Flooding along the Miami Slough
- **State of Local Emergency: 1** – declared 2021NOV15 for the Village of Harrison Hotsprings and expires 2021NOV22 at midnight
- EOC activated on 2021NOV15 due to localized flooding along the Miami Slough

#### **Hope:**

- **Incident:** Multiple people stranded by highway closures
- **Reception Centre(s):** 2, 71731 Meadow Road, Fraser Valley B, BC and Hope Grace Baptist Church – 949 3<sup>rd</sup> Ave. Hope
- **Individuals Registered with ESS:** unknown
- Sunshine Valley Fire Chief indicated that Highway 3 is closed and many people are stranded. The fire hall is open all night and people can register for ESS
- Currently there is no power in District of Hope
- The EOC was relocated to the Hospital
- Evacuations are taking place on the Coquihalla River

#### **District of Kent:**

- **Incident:** Landslide threatening people and property along Rockwell Drive
- **Alerts:**
- **Orders:**
- **State of Local Emergency: 1** – declared 2021NOV14 for Rockwell Drive and expires 2021NOV21 at midnight
- **Homes Alerted: #**
- **Homes Evacuated: 6**
- **Reception Centre(s): #**
- **Individuals Registered with ESS: #**
- Multiple landslides on Rockwell Drive (6500, 6900 and 7000 blocks). A tactical evacuation of 6 properties was performed on 2021NOV14
- Evacuation Notices have been verbally delivered to those residents residing in the 6500 block of Rockwell Drive. All other residents south of this location are on Evacuation Alert

- **Incident:** Hwy 7 landslide
- Multiple landslides have trapped approximated 150 people on Hwy 7 at Seabird Bluffs
- 12 people were rescued from the Hwy 7 incident overnight
- Canada Task Force 1 is on scene supporting the response from the Agassiz Fire Department
- BC Hydro is working on deactivating the powerlines in the area
- A culvert is blocked on Chaplin Road (Seabird Island) causing significant water backup onto Kamp Road
- Flood pumps at Hammersley Pump Station overheated and shut down
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

#### **Langley, Township of:**

- **Incident:** Mudslide threatening people and property
- **Homes Evacuated: 1**
- **Individuals Registered with ESS: 2**
- A mud slide has occurred at 7800 block of 264th Ave. in Langley. The Township is on scene assessing the damage
- 2 adults have been provided 1 night accommodation

#### **Mission:**

- **Incident:** Localized flooding and mutual aid
- EOC activated due to localized flooding and to provide mutual aid to Abbotsford

#### **New Westminster:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

#### **Pemberton:**

- **Incident:** Flooding
- EOC activated 2021NOV15 due to flood activity

#### **Pitt Meadows, City of**

- **Incident:** Heavy rainfall has resulted in multiple roads flooding
- Multiple roads flooded, Public Works is on scene
- A number of properties could be affected by flood. The city is monitoring the situation and will issue an evacuation order if necessary

#### **Port Coquitlam:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding
- High river flows and potential overflow of banks and surrounding land. Drainage infrastructure at

maximum capacity. No disruption in solid waste collection. Pump stations at maximum capacity and experienced pump failures

- Closures: Gates parking lot, Traboulay Trail from dog park to Patricia food bridge, Burleigh - Kingsway to Chine

#### **Richmond:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

#### **Squamish Lillooet Regional District:**

- **Incident:** Flood threat to properties
- EOC activated 2021NOV15 due to flood threat to properties and water levels continue to rise

#### **Squamish District**

- **Incident:** Localized flooding due to heavy rainfall. Waste Treatment Plant overflowing
- EOC activated 2021NOV15 due to localized flooding concerns
- Wastewater Treatment Plant is overflowing within the District of Squamish

#### **Sunshine Coast Regional District**

- **Incident:** Localized flooding due to heavy rainfall
- EOC activated 2021NOV15 due to localized flooding on Day Road in Roberts Creek

#### **Surrey:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

### **HEALTH INFORMATION**

**No impacts reported**

### **LIVE STOCK IMPACTED**

**No impacts reported**

### **TRANSPORTATION IMPACTED**

#### **Drive BC**

Highway 3 Both Directions - Highway 3, in both directions. Mudslide at Sunshine Valley (17 km east of Hope). Road Closed. Assessment in progress. Estimated time of opening not available

Highway 5, in both directions. Mudslide at Exit 202 (11 km south of Great Bear Snowshed). Road closed. Assessment in progress. Estimated time of opening not available. Detour not available. Road closed between Hope and Merritt

Highway 1 Both Directions - Highway 1, in both directions. Mudslide between Annis Rd and K St for 38.4 km (Hope to 2 km east of Chilliwack). Road closed. Detour in effect. Assessment in progress. Estimated time of opening not available. Detour onto Bridal Falls Rd to Hwy 9



Highway 1 Both Directions - Highway 1, in both directions. Travel advisory in effect between Annis Rd and Exit 170 for 35.0 km (1 km east of Chilliwack to Hope). Heavy rain. Mudslide. Assessment in progress. Mudslide events and flooding east of Chilliwack, avoid unnecessary travel, expect closures and major delays

Highway 1, in both directions. Flooding between Flood Hope Rd and Junction Hwy 8 for 144.3 km (Hope to Spences Bridge). Road closed. Assessment in progress. Estimated time of opening not available

Highway 7 Both Directions - Highway 7, in both directions. Mudslide between Johnson Slough Rest Area and Ruby Creek Rd (Kent). Road closed. Assessment in progress. Detour not available

Highway 7 Both Directions - Highway 7, in both directions. Flooding between Highlands Blvd and Bodnar Rd (Kent). Road closed. Assessment in progress. Estimated time of opening not available

Highway 7 Both Directions - Highway 7, in both directions. Flooding between 240 St and 272 St for 6.3 km (Maple Ridge). Road closed. Detour in effect

Highway 11, in both directions. Flooding between Hazelwood Ave and Townshipline Rd for 2.9 km (Abbotsford). Road closed

Highway 99, northbound. Flooding between Blundell Rd and Exit 36: Westminster Hwy (Richmond). Road closed. Traffic is being rerouted onto Westminster Highway

Chancellor Boulevard (UBC), westbound. Flooding at Acadia Road in Vancouver. Westbound lane closure

King George Blvd., northbound. Bridge closed at Nicomekl Bridge. Assessment in progress. Please use alternate route

## UTILITIES IMPACTED

### BC Hydro

- 2021NOV15 1148 update: There are currently 63 outages for the Lower Mainland and Sunshine Coast with 23,528 customers affected in various areas. Cause of outages are due to wires down, mud slides and adverse weather, some outages are still under investigation
- A flood alert is now in effect downstream of Wahleach Dam. Spill via free crest spillway is occurring at Wahleach Dam, water levels may rise above the banks, flooding land and impacting residential areas
- 2021NOV14 2145 update: A large outage caused by landslides is currently affecting customers in Hope, Spuzzum, Yale and surrounding communities. Where safe, crews have been patrolling the damaged lines to plan repairs. Due to deteriorating conditions and additional slides, crews have been unable to restore the majority of customers still without power in Hope and they will remain without power overnight. Crews will continue to work throughout the night to repair damage where possible and safe to do so

**For more information:** <https://www.bchydro.com/power-outages/app/outage-list.html>

#### USEFUL LINKS/RESOURCES

[River Forecast Centre](#)

[Drive BC](#)

[Environment Canada](#)

[Avalanche Canada Weather Forecast](#)

[BC Hydro](#)

**APPROVED BY:**

*Original signed by*

Ken Meeks

**PREOC Director**

**Note:** Information contained in this situation report is for operational purposes only. The contained information is not meant for public information. If you wish you use contained information for a media release, you must clear it with the PREOC Director.

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## South West Provincial Regional Operations Centre (SWE PREOC)

### SITUATION REPORT #2

#### Event: Atmospheric River

Date/Time Issued: 2021-11-15; 1700hrs

Task #: 223862

Operational Period: 2021-11-15

Primary PREOC Email: [preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)

Primary PREOC Phone: 778-572-3962

Primary PREOC Fax: 604-586-4083

Overall Regional Situation: Static

Activated EMBC Staff: 10      Activated TEAMS: 3      Agency: 4

The next Situation Report will be issued: 2021-11-16 at 1530hrs

\*\* New information

### KEY PROVINCIAL INFORMATION

- The Southwest PREOC is activated to support communities affected by flooding and landslides caused by the Atmospheric River

#### Environment Canada

- Environment Canada has issued the following weather warnings:

Rainfall warnings are in effect for:

- Coquihalla Hwy – Hope to Merritt, Fraser Valley including Metro Vancouver, Fraser Valley, Howe Sound, Sea to Sky - Squamish to Whistler, Whistler, Sunshine Coast - Gibsons to Earls Cove
- Total rainfall up to 180 to 250 mm. Rising freezing levels with melting snow giving rise to increased river flows and localised flooding. So far, the highest rainfall amounts near 180 to 200 mm have been observed over central and eastern Fraser Valley. Additional rainfall amounts near 50 mm are expected today

Wind warnings are in effect for:

- Howe Sound, Metro Vancouver, Fraser Valley east including Hope

Snowfall warning in effect for:

- Coquihalla Hwy – Hope to Merritt. Heavy snow tonight, snowfall accumulation 15 to 25 cm

#### River Forecast Centre

- The River Forecast Centre is upgrading to a Flood Warning for:
  - Coquihalla River
- The River Forecast Centre is upgrading to or maintaining a Flood Watch for:
  - Sea to Sky (upgraded)
  - Howe Sound (upgraded)
  - North Shore Mountains (upgraded)
  - Fraser Valley including surrounding tributaries
  - Fraser Canyon tributaries, including tributaries around Hope
  - Chilliwack River
- The River Forecast Centre is maintaining a High Streamflow Advisory for:
  - Sunshine Coast
  - Metro Vancouver
- The next Coordination Call will be 2021NOV16 @ 0900hrs

- **Total Active RCs: 4**
- **Total Active Alerts: 7**
- **Total Orders: 4**
- **Total States of Local Emergency: 4**
- **Total Band Council Resolutions: 0**

## WEATHER FORECAST FOR – 2021NOV16

### Abbotsford

- Monday PM Mainly cloudy with 40 percent chance of showers late this evening and overnight. Wind southwest 60km gusting to 80 diminishing to 20 early this evening. Low plus 4
- Tuesday AM Clearing in the morning. Wind southwest 20 km/h. High 9
- Tuesday PM Clear. Low minus 1

### Pemberton

- Monday PM Mainly cloudy. Flurries beginning this evening. Local amount 2 to 4 cm. Wind southwest 20 km/h becoming light this evening. Low minus 3
- Tuesday AM A mix of sun and cloud. Clearing near noon. High plus 3
- Tuesday PM Clear. Low minus 8

## FIRST NATIONS

### Chawathil First Nation:

- **Incident:** Flooding
- EOC activated for flooding. 1 home is flooding and material is sliding off of bluffs around the community

### Kwikwetlem First Nation:

- **Incident:** Flood Alert
- Put on flood alert from BC Hydro Dams
- EOC activated 2021NOV15

### Leq'á:mel First Nation:

- **Incident:** Flooding
- Virtual EOC activated 2021NOV15 due to flooding and 1,000 sandbags requested

### Matsqui First Nation:

- **Incident:** Localized flooding on IR 2 and IR 4
- Requested sandbags and sand due to localized flooding on IR 2 and IR 4

### Peters First Nation:

- **Incident:** Flooding
- EOC activated 2021NOV14 for flooding

### Skawahlook First Nation:

- **Incident:** Flooding
- EOC activated 2021NOV15 for flooding

### Seabird Island

- **Incident:** Band office and gym have opened as warming station for travellers stranded by highway closures. Seabird Island Band – 2895 Chowat Rd, Agassiz

#### **Lytton First Nation/Camp Hope**

- **Incident:** Activated in support of evacuees located at Camp Hope. Additional accommodation may be available at Camp Hope

#### **LOCAL AUTHORITIES**

##### **Abbotsford:**

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding
- **Alerts: 7**
  - 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
  - Matsqui Village: Grace Road North to the Matsqui Slough
  - Clayburn Area: Clayburn Village and surrounding area
  - Eagle Mountain Areas: Cranberry Court, Briarwood Place, Doneagle Place
  - Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road
  - Sumas Prairie: Westside of Whatcom Road, East of Huntington Village, Southside of Vye Road
  - Straiton Areas: Dawson Road East of Sumas Mountain Road
- **Homes Alerted:** unknown
- **Orders: 2**
  - Issued 2021NOV15 for 5 units on Straiton Road
  - Issued 2021NOV15 for Sumas Prairie including the area bordered by: Sumas Mt. and Yale Rd to the North, The USA border to the South, the Sumas River Dike to the East and Sumas Way to the West
- **Homes Ordered:** 5 units
- **State of Local Emergency: 1** – issued 2021NOV15 and expires 2021NOV23 at midnight
- **Reception Centre(s): 1**, Abbotsford Recreation Centre (ARC), 2499 McMillan Road
- **Individuals Registered with ESS:** unknown
- Reception Centre is located at the Abbotsford Recreation Centre (ARC) 2499 McMillan Road for any residents displaced due to the flooding and/or landslide events currently occurring
- 2021NOV14: Fire and Police are currently sandbagging and debris clearing
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

##### **Bowen Island:**

- **Incident:** Flooding
- EOC activated 2021NOV15 due to flooding

##### **Burnaby:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

##### **Chilliwack:**

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding causing travellers to be stranded
- **Reception Centre: 1** – Chilliwack Secondary School, 46363 Yale Road
- Due to the high stream flows, the following parking areas along the Vedder Greenway will be closed until further notice: Vedder Park, Peach Park, Lickman Parking lot, Keith Wilson Bridge, No. 3 Road, Browne Road, Giesbrecht Road
- The public are asked to stay away from the Vedder River (including adjacent trails) and other fast moving water
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

**Fraser Valley Regional District:**

- **Incident:** Heavy rainfall causing overland flooding and mudslides
- **Orders: 2**
  - Issued 2021NOV14 at 1130hrs for Bridal Falls Area, FVRD Electoral Area "D" for 1 property on Bridal Falls Road
  - Issued 2021NOV15 at 0030hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 4 properties on Auchenway Road
- **State of Local Emergency: 1** - declared 2021NOV14 at 2230 for all Electoral Areas of the FVRD to remain in force until 2021NOV21 at midnight
- **Homes Evacuated:** to be confirmed
- **Reception Centre(s): #**
- **Individuals Registered with ESS: #**
- There has been an approximately 50 ft. mudslide in the Bridal Falls area, which has led to an evacuation order at Camperland RV Resort & Cabins on Bridal Falls Rd. in FVRD Electoral Area D. Approximately, 24 people were evacuated
- Four (4) properties have been evacuated at Auchenway Road in Chilliwack River Valley in FVRD Electoral Area E
- The water level at Wilson Road dike in Chilliwack River Valley is approximately 1m below the crest. Operations crew are monitoring the water levels at the dike. The dike is approx. 900m and protects 20 properties and Chilliwack Lake Road. The dike is actively eroding and at risk of overtopping
- Jones Creek water levels are high. A local resident has been providing updates regarding the creek levels. The creek has eroded the banks and is approximately 8ft. away from the structure. The Laidlaw Bridge requires monitoring through MoTI
- Multiple landslides have created road closures at Hwy 1
- 24 people or 5 various groups with pets require shelter, these are mostly stranded travellers

**Village of Harrison Hot Springs:**

- **Incident:** Flooding along the Miami Slough
- **State of Local Emergency: 1** – declared 2021NOV15 for the Village of Harrison Hotsprings and expires 2021NOV22 at midnight
- EOC activated on 2021NOV15 due to localized flooding along the Miami Slough

**Hope:**

- **Incident:** Multiple people stranded by highway closures
- **Reception Centre(s):** 2, 71731 Meadow Road, Fraser Valley B, BC and Hope Grace Baptist Church – 949 3<sup>rd</sup> Ave. Hope
- **Individuals Registered with ESS:** unknown
- Sunshine Valley Fire Chief indicated that Highway 3 is closed and many people are stranded. The fire hall is open all night and people can register for ESS
- Currently there is no power in District of Hope
- The EOC was relocated to the Hospital
- Evacuations are taking place on the Coquihalla River

**District of Kent:**

- **Incident:** Landslide threatening people and property along Rockwell Drive
- **Alerts:**
- **Orders:**
- **State of Local Emergency: 1** – declared 2021NOV14 for Rockwell Drive and expires 2021NOV21 at midnight
- **Homes Alerted: #**
- **Homes Evacuated: 6**
- **Reception Centre(s): #**
- **Individuals Registered with ESS: #**
- Multiple landslides on Rockwell Drive (6500, 6900 and 7000 blocks). A tactical evacuation of 6 properties was performed on 2021NOV14

- Evacuation Notices have been verbally delivered to those residents residing in the 6500 block of Rockwell Drive. All other residents south of this location are on Evacuation Alert
- **Incident:** Hwy 7 landslide
- Multiple landslides have trapped approximated 150 people on Hwy 7 at Seabird Bluffs
- 12 people were rescued from the Hwy 7 incident overnight
- Canada Task Force 1 is on scene supporting the response from the Agassiz Fire Department
- BC Hydro is working on deactivating the powerlines in the area
- A culvert is blocked on Chaplin Road (Seabird Island) causing significant water backup onto Kamp Road
- Flood pumps at Hammersley Pump Station overheated and shut down
- **Road Closures:**
  - Multiple roads are closed due to flooding and/or mudslides. Refer to Local Government website for list of closures

#### Langley, Township of:

- **Incident:** Mudslide threatening people and property
- **Homes Evacuated: 1**
- **Individuals Registered with ESS: 2**
- A mud slide has occurred at 7800 block of 264th Ave. in Langley. The Township is on scene assessing the damage
- 2 adults have been provided 1 night accommodation

#### Mission:

- **Incident:** Localized flooding and mutual aid
- EOC activated due to localized flooding and to provide mutual aid to Abbotsford

#### New Westminster:

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

#### Pemberton:

- **Incident:** Flooding
- EOC activated 2021NOV15 due to flood activity

#### Pitt Meadows, City of

- **Incident:** Heavy rainfall has resulted in multiple roads flooding
- Multiple roads flooded, Public Works is on scene
- A number of properties could be affected by flood. The city is monitoring the situation and will issue an evacuation order if necessary

#### Port Coquitlam:

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding
- High river flows and potential overflow of banks and surrounding land. Drainage infrastructure at maximum capacity. No disruption in solid waste collection. Pump stations at maximum capacity and experienced pump failures
- Closures: Gates parking lot, Traboulay Trail from dog park to Patricia food bridge, Burleigh - Kingsway to Chine

#### Richmond:

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

#### **Squamish Lillooet Regional District:**

- **Incident:** Flood threat to properties
- EOC activated 2021NOV15 due to flood threat to properties and water levels continue to rise

#### **Squamish District**

- **Incident:** Localized flooding due to heavy rainfall. Waste Treatment Plant overflowing
- EOC activated 2021NOV15 due to localized flooding concerns
- Wastewater Treatment Plant is overflowing within the District of Squamish

#### **Sunshine Coast Regional District**

- **Incident:** Localized flooding due to heavy rainfall
- EOC activated 2021NOV15 due to localized flooding on Day Road in Roberts Creek

#### **Surrey:**

- **Incident:** Localized flooding
- EOC activated 2021NOV15 due to localized flooding

#### **HEALTH INFORMATION**

**No impacts reported**

#### **LIVE STOCK IMPACTED**

**No impacts reported**

#### **TRANSPORTATION IMPACTED**

##### **Drive BC**

Highway 3 Both Directions - Highway 3, in both directions. Mudslide at Sunshine Valley (17 km east of Hope). Road Closed. Assessment in progress. Estimated time of opening not available

Highway 5, in both directions. Mudslide at Exit 202 (11 km south of Great Bear Snowshed). Road closed. Assessment in progress. Estimated time of opening not available. Detour not available. Road closed between Hope and Merritt

Highway 1 Both Directions - Highway 1, in both directions. Mudslide between Annis Rd and K St for 38.4 km (Hope to 2 km east of Chilliwack). Road closed. Detour in effect. Assessment in progress. Estimated time of opening not available. Detour onto Bridal Falls Rd to Hwy 9

Highway 1 Both Directions - Highway 1, in both directions. Travel advisory in effect between Annis Rd and Exit 170 for 35.0 km (1 km east of Chilliwack to Hope). Heavy rain. Mudslide. Assessment in progress. Mudslide events and flooding east of Chilliwack, avoid unnecessary travel, expect closures and major delays

Highway 1, in both directions. Flooding between Flood Hope Rd and Junction Hwy 8 for 144.3 km (Hope to Spences Bridge). Road closed. Assessment in progress. Estimated time of opening not available

Highway 7 Both Directions - Highway 7, in both directions. Mudslide between Johnson Slough Rest Area and Ruby Creek Rd (Kent). Road closed. Assessment in progress. Detour not available

Highway 7 Both Directions - Highway 7, in both directions. Flooding between Highlands Blvd and Bodnar Rd (Kent). Road closed. Assessment in progress. Estimated time of opening not available

Highway 7 Both Directions - Highway 7, in both directions. Flooding between 240 St and 272 St for 6.3 km (Maple Ridge). Road closed. Detour in effect



Highway 11, in both directions. Flooding between Hazelwood Ave and Townshipline Rd for 2.9 km (Abbotsford). Road closed

Highway 99, northbound. Flooding between Blundell Rd and Exit 36: Westminster Hwy (Richmond). Road closed. Traffic is being rerouted onto Westminster Highway

Chancellor Boulevard (UBC), westbound. Flooding at Acadia Road in Vancouver. Westbound lane closure

King George Blvd., northbound. Bridge closed at Nicomekl Bridge. Assessment in progress. Please use alternate route

## UTILITIES IMPACTED

### BC Hydro

- 2021NOV15 1148 update: There are currently 63 outages for the Lower Mainland and Sunshine Coast with 23,528 customers affected in various areas. Cause of outages are due to wires down, mud slides and adverse weather, some outages are still under investigation
- A flood alert is now in effect downstream of Wahleach Dam. Spill via free crest spillway is occurring at Wahleach Dam, water levels may rise above the banks, flooding land and impacting residential areas
- 2021NOV14 2145 update: A large outage caused by landslides is currently affecting customers in Hope, Spuzzum, Yale and surrounding communities. Where safe, crews have been patrolling the damaged lines to plan repairs. Due to deteriorating conditions and additional slides, crews have been unable to restore the majority of customers still without power in Hope and they will remain without power overnight. Crews will continue to work throughout the night to repair damage where possible and safe to do so

**For more information:** <https://www.bchydro.com/power-outages/app/outage-list.html>

## USEFUL LINKS/RESOURCES

[River Forecast Centre](#)

[Drive BC](#)

[Environment Canada](#)

[Avalanche Canada Weather Forecast](#)

[BC Hydro](#)

### APPROVED BY:

*Original signed by*

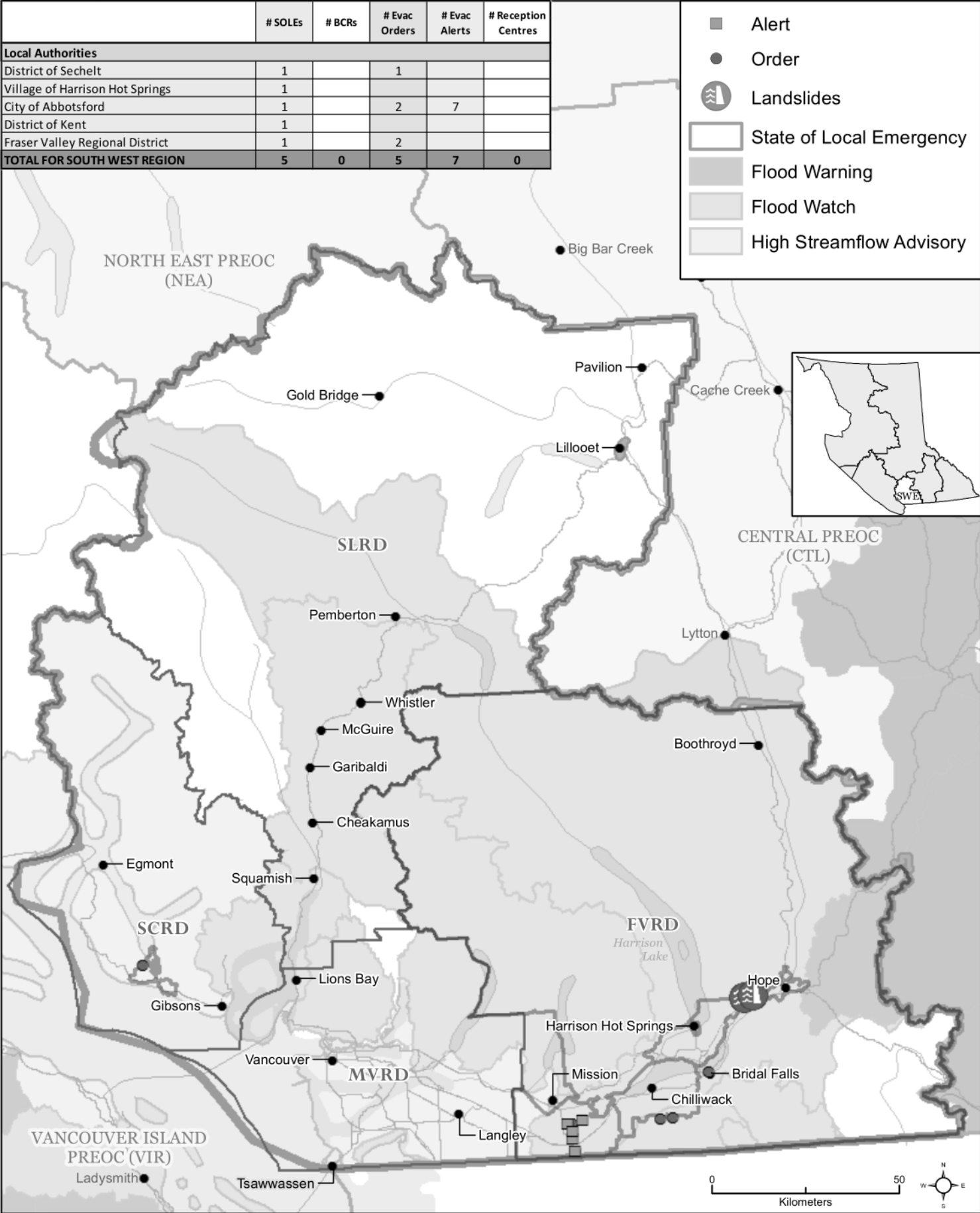
Ken Meeks

**PREOC Director**

**Note:** Information contained in this situation report is for operational purposes only. The contained information is not meant for public information. If you wish you use contained information for a media release, you must clear it with the PREOC Director.

# South West (SWE) Provincial Regional Operational Centre (PREOC) Atmospheric River Events

2021-11-15



UPDATED 2021-11-15 Time: 16:37

File: W:\lmb\PEP\response\SWE\task223863\_ISC\_AtmosphericRiver\arcgisprojects\task223863\_sitmap\_8x11\_20211115.mxd

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Katzie FN - Stacey Goulding; Kwantlen FN - Carol Gabriel; Kwantlen FN - Carrie Mitchell; Kwantlen FN - Christine Loewen; Kwantlen FN - Les Antone; Kwantlen FN - Marilyn Carpenter; Kwaw-Kwaw-Aplit - Randy Leon; Kwikwetlem FN - John Peters; Leq'a:mel FN - Barb Leggat; Leq'a:mel FN - Shawn Gabriel; Leq'a:mel FN - Stephen McGlenn; Mastqui FN - Alice McKay; Mastqui FN - Cindy Collins; Matsqui FN - Brenda Morgan; Peters Band - Mark Peters; Peters FN - Norma Webb; Peters FN - Victoria Peters; Seabird Island - Al Fraser; Seabird Island - Ashley Bobb; Seabird Island - Daniel Harry; Seabird Island - John Bobb; Seabird Island - Paula Woodruff; Seabird Island Band - Bonnie Nickel; Seabird Island FN - Daryl McNeil; Seabird Island FN - J Campbell; Shxwhay Village - Chief Robert Gladstone; Shxwhay Village (Skway FN) - Tyrell Kenworthy; Shxwowhamel EPC; Shxwowhamel FN - Angie Dick; Shxwowhamel FN - Bonnie Leggat; Shxwowhamel FN - Kaleen Pettis; Shxwowhamel FN - Raymond Louie; Shxwowhamel FN - Sally Hope; Shxwowhamel FN - Shane James; Skawahlook FN - Michael Suedfeld; Skawahlook FN - Sharron Young; Skawahlook FN - Susan McKamey; Skawahlook FN - Brian; Skowkale FN Mark Point; Skwah FN - Lory Oberst; Skwah FN - Robert Combes; Skwah FN - Ron Prest; Soowahlie FN - Dana St. Dennis; Soowahlie FN - Juliette; Soowahlie FN - Wade Nahanne; Spuzzum - Crystal Hatzidimitriou; Spuzzum FN - Crystal-Anne Hatzidimitriou; Spuzzum Nation Reception; Sq'ewlets FN - Katina Pennier; Squiala FN - Brittney Friesen; Squiala FN - Nikki Jackson; Sq'welets FN - Johnny Williams Jr.; Stó:lo FN - Dave Schaepe; Stó:lo FN - Karen Brady; Stó:lo FN - M Gool; Stó:lo FN - M McGinity; Stó:lo TC - Tyrone McNeil; Stolo FN - Sue Griffin; Stolo Nation Food Sovereignty; Sts'ailes FN - Boyd Peters; Sts'ailes FN - Ralph Leon; Sts'ailes FN - Tim Felix; Sumas FN; Sumas FN - Jackie Bird; Sumas FN - Richard Hall; Tzeachten FN - Deanna Honeyman; Tzeachten FN - Derek Epp; Tzeachten FN - James Atebe; Tzeachten FN - Leah Efford; Union Bar - Jessica James; Union Bar - Joshua Currie; Union Bar - Tammy Shields; Yakweakwioose FN - Nicole LaRock; Yale FN - Dominic Hope; Yale FN - Elsie Kipp; Yale FN - Ken Hansen; Yale FN - Laureen Duerksen; Katzie - Grace Cunningham; Katzie - Rick; Katzie FN - Debbie Janus; Katzie FN - Denis Valliancourt; Kwikwetlem - Lance; Kwikwetlem FN - Ed Hall; Kwikwetlem FN - Erika Scholten; Kwikwetlem FN - George Chaffee; Kwikwetlem FN - Theresa Boyce; Matsqui FN - Alice McKay; Musqueam First Nation - Morgan Guerin; Musqueam FN - Coreen Mathison; Musqueam FN - Laurence Paul; Musqueam FN - Tracy Samra; Musqueam IB - Jim MacDonald; Naut'samawt TC - Erik Blaney; Peter (peter@katzie.ca); Semiahmoo FN - Joanne Charles; Semiahmoo FN - Joanne Charles; Semiahmoo FN - Leeann Wells; Semiahmoo FN - Paul Gadbois; Semiahmoo FN - Samantha Wells; Squamish FN - Austin Chandler; Squamish FN - Josie Harry; Tsawwassen FN - Jordi Nickolet; Tsleil-Waututh FN - Andrew Van Eden; Tsleil-Waututh FN - Ernie George; Tsleil-Waututh FN - Spencer Taft; Bob Sokol (Bob\_Sokol@squamish.net); Lil'wat - Dean Nelson; Lil'wat - Sylvia Dan; Lil'wat - Troy Bikadi; Lower Stl'at'imx TC - Sheldon Dowswell; N'Quatqua - Chantel Thevarg; Nxwisten - Gerald Michel; Samahquam FN - Clara Smith; Samahquam FN - Tammy Peters; Sechelt FN - Jesse Waldorf; Sekw'el'was - Michelle Edwards; Skatin First Nation; Squamish FN - David Harrison; Squamish FN - Doreen Maruska; Squamish FN - Glenda Gibbon; Squamish FN - Paul Wick; Titqet FN - Susan Napoleon; Titqet FN - Susan Napoleon; Tsal'ah FN - Crystal Branget; Ts'kw'aylaxw - Francis Alec; Ts'kw'aylaxw - Francis Alec (reception); Xaxli'p FN - Shonna Jacob; Xa'Xtsa FN - Amelia Paul; Xa'Xtsa FN - Chief Don Harris; Xa'Xtsa FN - Rosanna Peters; BC Association of Aboriginal Friendship Centres; FN EPS - Gillian Fuss; FN EPS - Maggie Mazurkewich; FN EPS - Vanessa Serroul; FNESS - Bob Mills; FNESS - Brent Langlois; FNESS - Esther Winder; FNESS - Xiomara O'Brien; FNHA - Amber Lee; FNHA - Brent Tom; FNHA - Casey Neathway; FNHA - Diane McEachern; FNHA - Gethsemane Luttrell; FNHA Ildiko Herr; FNHA - James Whelan; FNHA - Linda Pillsworth; FNHA - Mark Turner; FNHA - Michelle DeGroot; INAC Duty Officer; ISC - Brent Baron; ISC - Duncan Stephen; ISC - Jaimi Gardner; ISC - Marie Urdiga; ISC - Tim McCann; ISC - Genevieve Lindsay; LABRC FN - Brittany Hall; LABRC FN - Denise Unger; LFFA (FN) - Dionne Bunsha; MARR CI EMB; MIRR Jennifer Walker; Terri Holoday; BCEHS - Randy Hansen; Bob Manson; CBS - Cynthia Calinisan; FNHA - Dan Ferguson; FNHA - Jodie Millward; FNHA - John Ford; Fraser Health - Terri-Lou Woods; Fraser Health security; Health PHSA - Jill Cathcart; HEMBC - Amy Romanas; HEMBC - Christine Turenko; HEMBC - Jennifer McGowan; HEMBC - Lower Mainland Acute and Residential; HEMBC - Maddy Laberge; HEMBC - Mark Phillips; HEMBC - Michael Scott;

HEMBC - Penelope Mador; HEMBC Generic; Ita Hyland; PHSA - John Lavery ; PHSA - Robin Gardner ; JTFP - Brendon LeBlanc; JTFP Asst SRLO - Benny Pong; JTFP Asst SRLO - Benny Pong (Mai); JTFP OP - Robert Alliston; JTFP RLO - Barry Plaxton (Capt); JTFP RLO - Brad Fairall; JTFP RLO - Brad Fairall (MWQ); JTFP RLO - Brendon Leblanc; JTFP RLO - Charles Middleton (CWO); JTFP RLO - Chris Scott; JTFP RLO - Justin Tegart; JTFP RLO - Justin Tegart; JTFP RLO - Leah Wilson; JTFP RLO - Paul Lavallee ; JTFP RLO - Rod Tulett (CPO 2); EMBC SWE PREOC Advanced Planning Unit 1, EMBC EMBC:EX; EMBC SWE PREOC Advanced Planning Unit 2, EMBC EMBC:EX; EMBC SWE PREOC Advanced Planning Unit 3, EMBC EMBC:EX; EMBC SWE PREOC Advanced Planning Unit 4, EMBC EMBC:EX; EMBC SWE PREOC Advanced Planning Unit 5, EMBC EMBC:EX; EMBC SWE PREOC Communications Unit 1 EMBC:EX; EMBC SWE PREOC Communications Unit 2 EMBC:EX; EMBC SWE PREOC Communications Unit 3 EMBC:EX; EMBC SWE PREOC Communications Unit 4 EMBC:EX; EMBC SWE PREOC Communications Unit 5 EMBC:EX; EMBC SWE PREOC First Nations 1 EMBC:EX; EMBC SWE PREOC First Nations 2 EMBC:EX; EMBC SWE PREOC Planning 6 EMBC:EX; EMBC SWE PREOC Planning 7 EMBC:EX; EMBC SWE PREOC Recovery Unit 1, EMBC EMBC:EX; EMBC SWE PREOC Recovery Unit 2, EMBC EMBC:EX; EMBC SWE PREOC Recovery Unit 3, EMBC EMBC:EX; EMBC SWE PREOC Recovery Unit 4, EMBC EMBC:EX; EMBC SWE PREOC Recovery Unit 5, EMBC EMBC:EX; SWE PREOC Deputy Director ; SWE PREOC Director; SWE PREOC ESS 1; SWE PREOC ESS 2; SWE PREOC Finance & Admin; SWE PREOC Fire Branch 1; SWE PREOC Fire Branch 2; SWE PREOC Liaison; SWE PREOC Logistics 2; SWE PREOC Logistics 3; SWE PREOC Logistics 4; SWE PREOC Logistics Chief; SWE PREOC Operations 2; SWE PREOC Operations 3; SWE PREOC Operations 4; SWE PREOC Operations 5; SWE PREOC Operations 6; SWE PREOC Operations Chief; SWE PREOC Planning 2, Situation Unit; SWE PREOC Planning 3, Documentation; SWE PREOC Planning 4, CI; SWE PREOC Planning 5; SWE PREOC Planning Chief; SWE PREOC Public Info Officer; AGRI - Brent Barclay; AGRI - Georgina Hodson; AGRI - Graham Knox; AGRI - James Street; AGRI - Lindsay Bisschop; AGRI Emergency Management PECC ; Agriculture - Emergencies; BC Parks - Elyse Guzek; BC Parks Peace Arch -Elyse Curley ; BCAS Dispatch; BCEHS - Andrew Billing; BCEHS - Christine Grist; BCEHS - Daniel Zawyrucha; BCEHS - William (BJ) Chute; BCLDB - Erin McEwan; BCLDB - Layla Giuca; BCWS - Fraser Zone; BCWS - Pemberton Zone; BCWS - RWCO Coastal Fire Centre; BCWS - Sunshine Coast Zone; CITZ - John Carrelli; Corrections - Michael Fernquist ; Faganello, Tara MUNI:EX; FLNR - Allan Johnsrude; FLNR - Ashlee Jollymore; FLNR - Brian Epps; FLNR - Bryan Robinson; FLNR - Charles Luo; FLNR - Cher King-Scobie; FLNR - Dave Southam; FLNR - David Campbell; FLNR - Derek Lefler; FLNR - Giles Fournier; FLNR - Gurdeep Singh ; FLNR - Hardy Bartle; FLNR - Jonathan Boyd; FLNR - Junying Qu; FLNR - Kevin Haberl; FLNR - Malcolm Schulz; FLNR - Mike Peters; FLNR - Mitchell Hahn; FLNR - Queenie Yip; FLNR - Randall Dayton; FLNR - Ron Nilsson; FLNR - Scott Morgan; FLNR - Scott Shaw-MacLaren; FLNR - Trevor Bohay; FLNR - Tyler Andersen; FLNR WX - Matt MacDonald ; FLNRORD - Godson Umeokwochi ; FLNR-Tim Turner; FLNRORD - Megan Fong ; GCPE - Jordan Turner; Horel, Bridget FLNR:EX; Koh, Wendy FLNR:EX; Liggins, Lavona AFF:EX; Macmillan, Donald I PSSG:EX; MAH - Nicola Marotz; MCF EMU; MCFD - Louise Bouchard; MECC - Tony Litke; Ministry of Housing and Social Development; MIRR - Cam Filmer; MIRR - Janice Franklin; MOE - Avtar Sundher; MOE - Chris Doyle; MOE - Rhonda Brett; MOTI - Ashok Bhatti; MOTI - Chris Lee; MOTI - Don Legault; MOTI - Elena Farmer; MOTI - Frank Roussel ; MOTI - Grant Smith; MOTI - Henry Lew; MOTI - Janelle Staite; MOTI - Ken Nash; MOTI - Michael Braun; MOTI - Patricia Wong ; MOTI - Pete Prendergast; MOTI - Ron McCormack; MOTI - Van Phu Bui; MOTI Generic PREOC Email; OCIO IT Operations Centre; PSSG - Myrna Luknowsky; PSSG - Tony Porter; Qu, Junying FLNR:EX; RFC - George Roman; RTMC - Provincial Highways Conditions Centre; TMCBC TRAN:EX; Xia, Cenling FLNR:EX; Bo Wiedemann;s.22 ; Mark Spencer; Steve Kern; Agassiz - Gerald Basten ; Agassiz - John Vantol; Agassiz - Wayne Dyer ; Chilliwack Valley VFD - Colby Johnson; Chilliwack Valley VFD - Mike Danyluk; Columbia Valley VFD - Larry Parcher; Columbia Valley VFD - Michael Soth; Columbia Valley VFD - Nathan Steegstra; Halfmoon Bay VFD - Greg Phelps; Hope SAR - Barry Gannon; Hope SAR (Tanya MacNesh); Lions Bay - Andrew Oliver ; Mission - Dale Unrau; Mission Fire Duty Chiefs; North Fraer VFD (Steve Howell); North Fraser VFD - Curtis Stevens; Pemberton Fire - Cameron Adams; Pender Harbour Fire - Don Murray ; Popkum VFD - Walter Roos; SCRD - Sechelt Fire Duty Officer; SCRD Bob Stevens; SCRD Gibsons Fire Chief; Sean Hatanaka - Roberts Creek Volunteer Fire Dept (sean.hatanaka@scrd.ca); Squamish Fire - Russ Inouye; Sunshine Valley VFD - Chris Terry; Sunshine Valley VFD - Gary Vath; Whistler Fire; Abbotsford PD - Colin Wiebe; BCSARA - Trent Blair; BCSARA Director Sea to Sky Rep - John Howe; BCSARA Fraser Valley Director - Frank Van Nynatten; BCSARA President - Chris Kelly; BCSARA Support - Kathy Stenton; CFV SAR - Christie Falk; CFV SAR - Jerry Haak; CFV SAR - Lee Holeczek ; CFVSAR - Lee Holeczek; Chilliwack SAR - Dave Casey; Chilliwack SAR - Doug Fraser; Chilliwack SAR - Equipment; Chilliwack SAR - Greg Unruh ; Chilliwack SAR - Josef Seywerd ; Chilliwack SAR - President; Coquitlam SAR - Managers ; Coquitlam SAR - President; EMBC SAR SP - Allan Mole; Hope SAR - Barry Gannon; Hope SAR - Noelle Hartt; Hope SAR - Ray Hartt; Hope SAR - Stacey Gauthier; Hope SAR - Steve Link; Hope SAR - Tanya MacNeish; KHSAR - Neil Brewer; Langley AIR - George Miller; Lions Bay SAR - Brent Calkin; Lions Bay SAR - Martin Collwell; Lions Bay SAR - Sandro Frei ; managers@sfsar.ca; Mission SAR; Mission SAR - Rodger Williams ; Mission SAR Training Officer; North Shore Rescue - Allan McMordie; North Shore Rescue - Don Jardine; North Shore Rescue - Greg Miller; North Shore Rescue - Jeff Yarnold; North Shore Rescue - Mike Danks; North Shore Rescue - Scott Merriman; North Shore Rescue - Simon Jackson; NorthShore Rescue - Scott Campbell; NSR- Dale Weidman ; Pemberton SAR - Martin Buchheim ; Pemberton SAR - Peter Schimek ; Pemberton SAR Managers; president@sfsar.ca; RCMP - Carla Der; RM SAR - Del Doornbosch ; RM SAR - Michael Day; RM SAR - SAR Managers ; South Fraser SAR - icp@sfsar.ca; Squamish SAR - Board of Directors; Squamish SAR - Managers; Squamish SAR - Operations Committee; Sunshine Coast SAR Managers; Surrey SAR - Don Burgess ; Whistler SAR - Brad Sills ; Whistler SAR - Daren Romano ; Whistler SAR - Daryl Kincaid; Whistler SAR - Rob Withey; Whistler SAR - Rob Withey ; IPREM - Shannon Peterson ; TEAMS - Aastha Sahdev ; TEAMS - Andrea Schmidt; TEAMS - Andrew Wallwork ; TEAMS - Carley Cocola ; TEAMS - Carrie Davis ; TEAMS - Cassandra Fuhrmann ; TEAMS - Christopher Lien ; TEAMS - Cindy Grantham ; TEAMS - Danielle Dzioba; TEAMS - Darlene Bozanic ; TEAMS - David Ramsay; TEAMS - Donna Ellis ; TEAMS - Doug Wolgram; TEAMS - Ellen Law ; TEAMS - Harold Dixon ; TEAMS - Harp Dhaliwal ; TEAMS - Heather Imrie ; TEAMS - Jim Jensen ; TEAMS - Jing Zhang; TEAMS - Joakim Zatkan ; TEAMS - Kathleen Murphy ; TEAMS - Katrina Estoque ; TEAMS - Kristin Vanderkuip ; TEAMS - Megan Coyle; TEAMS - Rachel Chapman ; TEAMS - Raymond Young; TEAMS - Rhiannon Doiny Pergentile ; TEAMS - Sanja Radic ; TEAMS - Scott Hill ; TEAMS - Stefani Thomson ; TEAMS - Stephanie Suski ; TEAMS - Suzanne Tarlier ; TEAMS - Tanvi Ahuja ; BC Hydro Bob Gammer; Bell - Carol McDonald; Duty Manager - Shaw Communications; E-Comm PECC Alerts; Hewson, David EMBC:EX; ISED - 24/7 Emergency Contact; ISED -

Kasun Somaratne; Pacific Northern Gas - Emily Ortis; Pembina Pipeline - Andy Fedechko; Pembina Pipeline - Cory Klapper; Pembina Pipeline - Joel Block; Pembina Pipeline - Natasha Nassyrova; Rogers - Jim Loree ; Rogers - Andy Chernoff ; Rogers - Tony D'Agostino; Rogers - Tony Smith; Shaw - Brad Stephenson; Shaw - Tracey Fischer ; TELUS - Parm Sandhu; TELUS - Scott Freeman; TELUS - Todd Worrell

**Subject:** SWE PREOC Situation Report #1 2021NOV15  
**Date:** November 15, 2021 02:42:00  
**Attachments:** [SWE PREOC Situation Report #1 2021NOV15.pdf](#)

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Please find attached the situation report for November 15, 2021.

Thanks,

Andrew Wallwork  
**Operations Chief**  
**Southwest Regional PREOC**  
**Emergency Management British Columbia**  
14292 Green Timbers Way  
Surrey, B.C. CANADA V3T 0J4

**Primary SWE PREOC contact**  
Phone 778-572-3962  
Email [preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)

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**From:** EMBC SWE PREOC Planning 1 EMBC:EX <[preoc2.pln1@gov.bc.ca](mailto:preoc2.pln1@gov.bc.ca)>  
**Sent:** November 15, 2021 2:17 AM  
**To:** EMBC SWE PREOC Operations 1 EMBC:EX <[preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)>  
**Subject:** SWE PREOC Situation Report #1 2021NOV15

## South West Provincial Regional Operations Centre (SWE PREOC)

### SITUATION REPORT # 1

#### Event:

**Date/Time Issued:** 2021-11-15; 0200hrs

**Task #:** 223862

**Operational Period:** 2021-11-14 2200hrs to 2021-11-15 0300hrs

**Primary PREOC Email:** [preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)

**Primary PREOC Phone:** 778-572-3962

**Primary PREOC Fax:** 604-586-4083

**Overall Regional Situation:** Static

Activated EMBC Staff: 5                      Activated TEAMS: 5

**The next Situation Report will be issued:** 2021-11-15 at 1530hrs

**\*\* New information**

## KEY PROVINCIAL INFORMATION

0. The Southwest PREOC is activated to support communities affected by flooding and landslides caused by the Atmospheric River
1. There is a rainfall warning in effect for Metro Vancouver, Fraser Valley, Howe Sound, Sea to Sky - Squamish to Whistler, Whistler, Sunshine Coast - Gibsons to Earls Cove
  0. Total rainfall up to 120 to 160 mm for Metro Vancouver, western Fraser Valley, Whistler, Howe Sound and parts of the Sunshine Coast; total rainfall up to 200 to 230 mm for central and eastern Fraser Valley by Monday afternoon. Warm temperatures will accompany the rain
2. The River Forecast Centre is upgrading to a Flood Warning for:
  0. Coquihalla River
3. The River Forecast Centre is maintaining a Flood Watch for:
  0. Fraser Valley including surrounding tributaries
    1. Fraser Canyon tributaries, including tributaries around Hope
    2. Chilliwack River
4. The next Coordination Call will be 2021NOV15 @ 0900hrs
5. **Total Active RCs: 1**
6. **Total Active Alerts: 5**
7. **Total Orders: 2**
8. **Total States of Local Emergency: 2**
9. **Total Band Council Resolutions: 0**

#### WEATHER FORECAST FOR – 2021-NOV-15

Abbotsford

Monday AM - Rain at times heavy ending early in the afternoon then cloudy with 60 percent chance of showers. Amount 15 to 25 mm. Wind south 40 km/h gusting to 60 becoming west 30 gusting to 50 near noon. Temperature falling to plus 5 in the afternoon

Monday PM - Mainly cloudy with 40 percent chance of showers in the evening and after midnight. Clearing before morning. Wind west 30 km/h gusting to 50 becoming light in the evening. Low plus 3.

#### FIRST NATIONS

##### Seabird Island

- **Incident:** Band office and gym have opened as warming station for travellers stranded by highway closures. Seabird Island Band – 2895 Chowat Rd, Agassiz

##### Lytton First Nation/Camp Hope

- **Incident:** Activated in support of evacuees located at Camp Hope. Additional accommodation maybe available at Camp Hope

#### LOCAL AUTHORITIES

Abbotsford:

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding
- **Alerts:** 5
- **Orders:**
- **State of Local Emergency:**
- **Homes Alerted:** unknown
- **Homes Evacuated:** 0
- **Reception Centre(s):** 1, Abbotsford Recreation Centre (ARC), 2499 McMillan Road
- **Individuals Registered with ESS:** unknown
- Evacuation Alerts have been issued for the following areas:
  - Clayburn Area: Clayburn Village and surrounding area
  - Eagle Mountain Areas: Cranberry Court, Briarwood Place, Doneagle Place
  - Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road
  - Sumas Prairie: Westside of Whatcom Road, East of Huntington Village, Southside of Vye Road
  - Straiton Areas: Dawson Road East of Sumas Mountain Road
- A Reception Centre has been set up located at the Abbotsford Recreation Centre (ARC) 2499 McMillan Road for any residents displaced due to the flooding and/or landslide events currently occurring
- Fire and Police are currently sandbagging and debris clearing
- Roads Closed Due to Flooding and/or Mudslides:
  - Wright Street between Clayburn & Bateman, Gladwin Street between Downes and Townshipline Road, Dawson East of Sumas Mountain Road , Whatcom between Westview and Sandringham, Cranberry Court, Briarwood Place, Lonzo Road at Vedder, Mckee Road at Clayburn Crescent East of Auguston, South Fraser Way at Fishtrap Creek, Bates and Ohland area, Majuba Hill across Railway

#### Chilliwack:

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding causing travellers to be stranded
- **Alerts:**
- **Orders:**
- **State of Local Emergency:**
- **Homes Alerted:** #
- **Homes Evacuated:** #
- **Reception Centre(s):** #
- **Individuals Registered with ESS:** #
- Due to the high stream flows, the following parking areas along the Vedder Greenway will be closed until further notice: Vedder Park, Peach Park, Lickman Parking lot, Keith Wilson Bridge, No. 3 Road, Browne Road, Giesbrecht Road
- The public are asked to stay away from the Vedder River (including adjacent trails) and other fast moving water

#### Fraser Valley Regional District:

- **Incident:** Heavy rainfall causing overland flooding and mudslides
- **Alerts:**



- **Orders: 2**
- **State of Local Emergency: 1**
- **Homes Alerted: #**
- **Homes Evacuated: 5**
- **Reception Centre(s): #**
- **Individuals Registered with ESS: #**
- A state of local emergency was declared 2021NOV14 at 2230 for all Electoral Areas of the FVRD to remain in force until 2021NOV21 at midnight
- An evacuation order was issued on 2021NOV15 at 0030hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 4 properties on Auchenway Road
- An evacuation order was issued on 2021NOV14 at 1130hrs for Bridal Falls Area, FVRD Electoral Area "D" for 1 property on Bridal Falls Road
- Multiple landslides have created road closures at Hwy 1
- 24 people or 5 various groups with pets require shelter, these are mostly stranded travellers

#### Hope:

- **Incident:** Multiple people stranded by highway closures
- **Alerts:**
- **Orders:**
- **State of Local Emergency:**
- **Homes Alerted: #**
- **Homes Evacuated: #**
- **Reception Centre(s): 1, 71731 Meadow Road, Fraser Valley B, BC**
- **Individuals Registered with ESS: unknown**
- Sunshine Valley Fire Chief indicated that Highway 3 is closed and many people are stranded. The fire hall is open all night and people can register for ESS
- Currently there is no power in District of Hope
- The EOC was relocated to the Hospital
- Evacuations are taking place on the Coquihalla River
- Preparing to open a Reception Centre

#### District of Kent:

- **Incident:** Landslide threatening people and property along Rockwell Drive
- **Alerts:**
- **Orders:**
- **State of Local Emergency: 1**
- **Homes Alerted: #**
- **Homes Evacuated: #**
- **Reception Centre(s): #**
- **Individuals Registered with ESS: #**
- State of Local Emergency declared on 2021NOV14 at 2200 to remain in effect until 2021NOV21 at midnight
- As a result of a landslide threatening people and property along Rockwell Drive, a State of Local Emergency has been declared

- Evacuation Notices have been verbally delivered to those residents residing in the 6500 block of Rockwell Drive. All other residents south of this location are on Evacuation Alert

- **Incident:** Hwy 7 landslide

- 2 debris flows on Hwy 7, 11km east of Agassiz caused approx 80 people to be trapped on the Hwy
- Multiple people have been rescued and transported to hospital
- Taskforce One has been deployed to assist with rescue of remaining stranded motorists
- BC Hydro is working on deactivating the powerlines in the area

#### Langley, Township of:

- **Incident:** Mudslide threatening people and property
- **Alerts:**
- **Orders:**
- **State of Local Emergency:**
- **Homes Alerted: #**
- **Homes Evacuated: 1**
- **Reception Centre(s): #**
- **Individuals Registered with ESS: 2**
- A mud slide has occurred at 7800 block of 264th Ave. in Langley. The Township is on scene assessing the damage
- 2 adults have been provided 1 night accommodation

#### Pitt Meadows, City of

- **Incident:** Heavy rainfall has resulted in multiple roads flooding
- **Alerts:**
- **Orders:**
- **State of Local Emergency:**
- **Homes Alerted:**
- **Homes Evacuated:**
- **Reception Centre(s):**
- **Individuals Registered with ESS:**
- Multiple roads flooded, Public Works is on scene
- A number of properties could be affected by flood. The city is monitoring the situation and will issue an evacuation order if necessary

#### HEALTH INFORMATION

No impacts reported

#### LIVE STOCK IMPACTED

No impacts reported

#### TRANSPORTATION IMPACTED

Drive BC

Highway 3 Both Directions - Highway 3, in both directions. Mudslide at Sunshine Valley (17 km east of Hope). Assessment in progress. Estimated time of opening not available. Next update time Mon Nov 15 at 9:00 AM

Highway 5 Both Directions - Highway 5, in both directions. Mudslide between Exit 202 and Exit 217: Zopkios Brake Check (8 km south of Great Bear Snowshed). Road closed. Assessment in progress. Estimated time of opening not available. Highway closed between Hope and Merritt, alternate route via Highway 3. Next update time Mon Nov 15 at 12:00 PM

Highway 7 Both Directions - Highway 7, in both directions. Mudslide between Johnson Slough Rest Area and Ruby Creek Rd (Kent). Road closed. Assessment in progress. Detour not available. Next update time Sun Nov 14 at 11:30 PM

Highway 1 Both Directions - Highway 1, in both directions. Mudslide between Annis Rd and K St for 38.4 km (Hope to 2 km east of Chilliwack). Road closed. Detour in effect. Assessment in progress. Estimated time of opening not available. Detour onto Bridal Falls Rd to Hwy 9. Next update time Sun Nov 14 at 11:30 PM

Highway 1 Both Directions - Highway 1, in both directions. Travel advisory in effect between Annis Rd and Exit 170 for 35.0 km (1 km east of Chilliwack to Hope). Heavy rain. Mudslide. Assessment in progress. Mudslide events and flooding east of Chilliwack, avoid unnecessary travel, expect closures and major delays. Next update time Mon Nov 15

Highway 7 Both Directions - Highway 7, in both directions. Flooding between Highlands Blvd and Bodnar Rd (Kent). Road closed. Assessment in progress. Estimated time of opening not available. Next update time Sun Nov 14 at 11:00

Highway 11 Both Directions - Highway 11, in both directions. Flooding between 1st Ave and Vye Rd for 1.5 km (Abbotsford). Assessment in progress. Estimated time of opening not available. Next update time Sun Nov 14 at 11:30 PM

Highway 7 Both Directions - Highway 7, in both directions. Flooding between 240 St and 272 St for 6.3 km (Maple Ridge). Road closed. Detour in effect. Next update time Sun Nov 14 at 11:30 PM PST. Last updated Sun Nov 14 at 9:48 PM

Other Roads Northbound - King George Blvd., northbound. Bridge closed at Nicomekl Bridge. Assessment in progress. Please use alternate route. Next update time Tue Nov 30 at 7:00 AM PST. Last updated Wed Nov 10 at 5:49 PM

## UTILITIES IMPACTED

### BC Hydro

- 2021NOV14 2145 update: A large outage caused by landslides is currently affecting customers in Hope, Spuzzum, Yale and surrounding communities. Where safe, crews have been patrolling the damaged lines to plan repairs. Due to deteriorating conditions and additional slides, crews have

been unable to restore the majority of customers still without power in Hope and they will remain without power overnight. Crews will continue to work throughout the night to repair damage where possible and safe to do so.

0. **For more information:** <https://www.bchydro.com/power-outages/app/outage-list.html>

#### USEFUL LINKS/RESOURCES

[River Forecast Centre](#)

[Drive BC](#)

[Environment Canada](#)

[Avalanche Canada Weather Forecast](#)

[BC Hydro](#)

#### APPROVED BY:

*Original signed by*

Jeff Owens

**PREOC Director**

**Note:** Information contained in this situation report is for operational purposes only. The contained information is not meant for public information. If you wish you use contained information for a media release, you must clear it with the PREOC Director.

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## South West Provincial Regional Operations Centre (SWE PREOC)

### SITUATION REPORT # 1

#### Event:

**Date/Time Issued:** 2021-11-15; 0200hrs

**Task #:** 223862

**Operational Period:** 2021-11-14; 2200hrs to 2021-11-15 0300hrs

**Primary PREOC Email:** [preoc2.ops1@gov.bc.ca](mailto:preoc2.ops1@gov.bc.ca)

**Primary PREOC Phone:** 778-572-3962

**Primary PREOC Fax:** 604-586-4083

**Overall Regional Situation:** Static

Activated EMBC Staff: 5      Activated TEAMS: 5

**The next Situation Report will be issued:** 2021-11-15 at 1530hrs

**\*\* New information**

### KEY PROVINCIAL INFORMATION

- The Southwest PREOC is activated to support communities affected by flooding and landslides caused by the Atmospheric River
- There is a rainfall warning in effect for Metro Vancouver, Fraser Valley, Howe Sound, Sea to Sky - Squamish to Whistler, Whistler, Sunshine Coast - Gibsons to Earls Cove
  - Total rainfall up to 120 to 160 mm for Metro Vancouver, western Fraser Valley, Whistler, Howe Sound and parts of the Sunshine Coast; total rainfall up to 200 to 230 mm for central and eastern Fraser Valley by Monday afternoon. Warm temperatures will accompany the rain
- The River Forecast Centre is upgrading to a Flood Warning for:
  - Coquihalla River
- The River Forecast Centre is maintaining a Flood Watch for:
  - Fraser Valley including surrounding tributaries
  - Fraser Canyon tributaries, including tributaries around Hope
  - Chilliwack River
- The next Coordination Call will be 2021NOV15 @ 0900hrs
- **Total Active RCs: 1**
- **Total Active Alerts: 5**
- **Total Orders: 2**
- **Total States of Local Emergency: 2**
- **Total Band Council Resolutions: 0**

### WEATHER FORECAST FOR – 2021-NOV-15

#### Abbotsford

Monday AM - Rain at times heavy ending early in the afternoon then cloudy with 60 percent chance of showers. Amount 15 to 25 mm. Wind south 40 km/h gusting to 60 becoming west 30 gusting to 50 near noon. Temperature falling to plus 5 in the afternoon

Monday PM - Mainly cloudy with 40 percent chance of showers in the evening and after midnight. Clearing before morning. Wind west 30 km/h gusting to 50 becoming light in the evening. Low plus 3.

### FIRST NATIONS

#### Seabird Island

- **Incident:** Band office and gym have opened as warming station for travellers stranded by highway closures. Seabird Island Band – 2895 Chowat Rd, Agassiz

#### Lytton First Nation/Camp Hope

- **Incident:** Activated in support of evacuees located at Camp Hope. Additional accommodation maybe available at Camp Hope

### LOCAL AUTHORITIES

#### Abbotsford:

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding
- **Alerts:** 5
- **Orders:**
- **State of Local Emergency:**
- **Homes Alerted:** unknown
- **Homes Evacuated:** 0
- **Reception Centre(s):** 1, Abbotsford Recreation Centre (ARC), 2499 McMillan Road
- **Individuals Registered with ESS:** unknown
- Evacuation Alerts have been issued for the following areas:
  - Clayburn Area: Clayburn Village and surrounding area
  - Eagle Mountain Areas: Cranberry Court, Briarwood Place, Doneagle Place
  - Ten Oaks: Mount Blanchard Court, Mount Blanchard Drive and Old Clayburn Road
  - Sumas Prairie: Westside of Whatcom Road, East of Huntington Village, Southside of Vye Road
  - Straiton Areas: Dawson Road East of Sumas Mountain Road
- A Reception Centre has been set up located at the Abbotsford Recreation Centre (ARC) 2499 McMillan Road for any residents displaced due to the flooding and/or landslide events currently occurring
- Fire and Police are currently sandbagging and debris clearing
- Roads Closed Due to Flooding and/or Mudslides:
  - Wright Street between Clayburn & Bateman, Gladwin Street between Downes and Townshipline Road, Dawson East of Sumas Mountain Road, Whatcom between Westview and Sandringham, Cranberry Court, Briarwood Place, Lonzo Road at Vedder, Mckee Road at Clayburn Crescent East of Auguston, South Fraser Way at Fishtrap Creek, Bates and Ohland area, Majuba Hill across Railway

#### Chilliwack:

- **Incident:** Heavy rainfall has resulted in several localized mudslides and flooding causing travellers to be stranded
- **Alerts:**
- **Orders:**
- **State of Local Emergency:**
- **Homes Alerted:** #
- **Homes Evacuated:** #
- **Reception Centre(s):** #
- **Individuals Registered with ESS:** #
- Due to the high stream flows, the following parking areas along the Vedder Greenway will be closed until further notice: Vedder Park, Peach Park, Lickman Parking lot, Keith Wilson Bridge, No. 3 Road, Browne Road, Giesbrecht Road
- The public are asked to stay away from the Vedder River (including adjacent trails) and other fast moving water

#### Fraser Valley Regional District:

- **Incident:** Heavy rainfall causing overland flooding and mudslides
- **Alerts:**
- **Orders:** 2
- **State of Local Emergency:** 1
- **Homes Alerted:** #
- **Homes Evacuated:** 5

- **Reception Centre(s):** #
- **Individuals Registered with ESS:** #
- A state of local emergency was declared 2021NOV14 at 2230 for all Electoral Areas of the FVRD to remain in force until 2021NOV21 at midnight
- An evacuation order was issued on 2021NOV15 at 0030hrs for Chilliwack River Valley, FVRD Electoral Area "E" for 4 properties on Auchenway Road
- An evacuation order was issued on 2021NOV14 at 1130hrs for Bridal Falls Area, FVRD Electoral Area "D" for 1 property on Bridal Falls Road
- Multiple landslides have created road closures at Hwy 1
- 24 people or 5 various groups with pets require shelter, these are mostly stranded travellers

#### Hope:

- **Incident:** Multiple people stranded by highway closures
- **Alerts:**
- **Orders:**
- **State of Local Emergency:**
- **Homes Alerted:** #
- **Homes Evacuated:** #
- **Reception Centre(s):** 1, 71731 Meadow Road, Fraser Valley B, BC
- **Individuals Registered with ESS:** unknown
- Sunshine Valley Fire Chief indicated that Highway 3 is closed and many people are stranded. The fire hall is open all night and people can register for ESS
- Currently there is no power in District of Hope
- The EOC was relocated to the Hospital
- Evacuations are taking place on the Coquihalla River
- Preparing to open a Reception Centre

#### District of Kent:

- **Incident:** Landslide threatening people and property along Rockwell Drive
- **Alerts:**
- **Orders:**
- **State of Local Emergency:** 1
- **Homes Alerted:** #
- **Homes Evacuated:** #
- **Reception Centre(s):** #
- **Individuals Registered with ESS:** #
- State of Local Emergency declared on 2021NOV14 at 2200 to remain in effect until 2021NOV21 at midnight
- As a result of a landslide threatening people and property along Rockwell Drive, a State of Local Emergency has been declared
- Evacuation Notices have been verbally delivered to those residents residing in the 6500 block of Rockwell Drive. All other residents south of this location are on Evacuation Alert
- **Incident:** Hwy 7 landslide
- 2 debris flows on Hwy 7, 11km east of Agassiz caused approx 80 people to be trapped on the Hwy
- Multiple people have been rescued and transported to hospital
- Taskforce One has been deployed to assist with rescue of remaining stranded motorists
- BC Hydro is working on deactivating the powerlines in the area

#### Langley, Township of:

- **Incident:** Mudslide threatening people and property
- **Alerts:**
- **Orders:**

- **State of Local Emergency:**
- **Homes Alerted: #**
- **Homes Evacuated: 1**
- **Reception Centre(s): #**
- **Individuals Registered with ESS: 2**
- A mud slide has occurred at 7800 block of 264th Ave. in Langley. The Township is on scene assessing the damage
- 2 adults have been provided 1 night accommodation

#### Pitt Meadows, City of

- **Incident:** Heavy rainfall has resulted in multiple roads flooding
- **Alerts:**
- **Orders:**
- **State of Local Emergency:**
- **Homes Alerted:**
- **Homes Evacuated:**
- **Reception Centre(s):**
- **Individuals Registered with ESS:**
- Multiple roads flooded, Public Works is on scene
- A number of properties could be affected by flood. The city is monitoring the situation and will issue an evacuation order if necessary

#### HEALTH INFORMATION

No impacts reported

#### LIVE STOCK IMPACTED

No impacts reported

#### TRANSPORTATION IMPACTED

##### Drive BC

Highway 3 Both Directions - Highway 3, in both directions. Mudslide at Sunshine Valley (17 km east of Hope). Assessment in progress. Estimated time of opening not available. Next update time Mon Nov 15 at 9:00 AM

Highway 5 Both Directions - Highway 5, in both directions. Mudslide between Exit 202 and Exit 217: Zopkios Brake Check (8 km south of Great Bear Snowshed). Road closed. Assessment in progress. Estimated time of opening not available. Highway closed between Hope and Merritt, alternate route via Highway 3. Next update time Mon Nov 15 at 12:00 PM

Highway 7 Both Directions - Highway 7, in both directions. Mudslide between Johnson Slough Rest Area and Ruby Creek Rd (Kent). Road closed. Assessment in progress. Detour not available. Next update time Sun Nov 14 at 11:30 PM

Highway 1 Both Directions - Highway 1, in both directions. Mudslide between Annis Rd and K St for 38.4 km (Hope to 2 km east of Chilliwack). Road closed. Detour in effect. Assessment in progress. Estimated time of opening not available. Detour onto Bridal Falls Rd to Hwy 9. Next update time Sun Nov 14 at 11:30 PM

Highway 1 Both Directions - Highway 1, in both directions. Travel advisory in effect between Annis Rd and Exit 170 for 35.0 km (1 km east of Chilliwack to Hope). Heavy rain. Mudslide. Assessment in progress. Mudslide events and flooding east of Chilliwack, avoid unnecessary travel, expect closures and major delays. Next update time Mon Nov 15

Highway 7 Both Directions - Highway 7, in both directions. Flooding between Highlands Blvd and Bodnar Rd (Kent). Road closed. Assessment in progress. Estimated time of opening not available. Next update time Sun Nov 14 at 11:00

Highway 11 Both Directions - Highway 11, in both directions. Flooding between 1st Ave and Vye Rd for 1.5 km (Abbotsford). Assessment in progress. Estimated time of opening not available. Next update time Sun Nov 14 at 11:30 PM



Highway 7 Both Directions - Highway 7, in both directions. Flooding between 240 St and 272 St for 6.3 km (Maple Ridge). Road closed. Detour in effect. Next update time Sun Nov 14 at 11:30 PM PST. Last updated Sun Nov 14 at 9:48 PM

Other Roads Northbound - King George Blvd., northbound. Bridge closed at Nicomekl Bridge. Assessment in progress. Please use alternate route. Next update time Tue Nov 30 at 7:00 AM PST. Last updated Wed Nov 10 at 5:49 PM

## UTILITIES IMPACTED

### BC Hydro

- 2021NOV14 2145 update: A large outage caused by landslides is currently affecting customers in Hope, Spuzzum, Yale and surrounding communities. Where safe, crews have been patrolling the damaged lines to plan repairs. Due to deteriorating conditions and additional slides, crews have been unable to restore the majority of customers still without power in Hope and they will remain without power overnight. Crews will continue to work throughout the night to repair damage where possible and safe to do so.
  - o **For more information:** <https://www.bchydro.com/power-outages/app/outage-list.html>

## USEFUL LINKS/RESOURCES

[River Forecast Centre](#)

[Drive BC](#)

[Environment Canada](#)

[Avalanche Canada Weather Forecast](#)

[BC Hydro](#)

### APPROVED BY:

*Original signed by*



Jeff Owens

**PREOC Director**

**Note:** Information contained in this situation report is for operational purposes only. The contained information is not meant for public information. If you wish you use contained information for a media release, you must clear it with the PREOC Director.

**From:** Owens, Jeff EMBC:EX

**Cc:** [Cunnings, Ian EMBC:EX](#); [Bland, Craig W EMBC:EX](#); [Meeks, Ken EMBC:EX](#); [Haley, Tyler EMBC:EX](#)

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Aitchelitz FN - Chief Angie Bailey; Boothroyd First Nation; Boothroyd FN - Cheryl Davidson; Boothroyd FN - George Campbell; Boothroyd FN - Lawrence Campbell; Boston Bar FN - Cathy Speth; Boston Bar FN - Dolores O'Donaghey; Boston Bar FN - Kelley Williams; Boston Bar FN - Pamela Robertson; Chawathil FN - Audrey George; Chawathil FN - Deanna John; Chawathil FN - Rhoda Peters; Chawathil FN - Rose Peters; Cheam FN - Eric Alex; Cheam FN - Rob Kovac; Cheam Indian Band - Deidra Aleck; Katzie First Nation - Maureen Eugene; Katzie FN - Ian Cowan; Katzie FN - Moira Adams; Katzie FN - Stacey Goulding; Kwantlen FN - Carol Gabriel; Kwantlen FN - Carrie Mitchell; Kwantlen FN - Christine Loewen; Kwantlen FN - Les Antone; Kwantlen FN - Marilyn Carpenter; Kwaw-Kwaw-Aplit - Randy Leon; Kwikwetlem FN - John Peters; Leq'a:mel FN - Barb Leggat; Leq'a:mel FN - Shawn Gabriel; Leq'a:mel FN - Stephen McGlenn; Mastqui FN - Alice McKay; Mastqui FN - Cindy Collins; Matsqui FN - Brenda Morgan; Peters Band - Mark Peters; Peters FN - Norma Webb; Peters FN - Victoria Peters; Seabird Island - Al Fraser; Seabird Island - Ashley Bobb; Seabird Island - Daniel Harry; Seabird Island - John Bobb; Seabird Island - Paula Woodruff; Seabird Island Band - Bonnie Nickel; Seabird Island FN - Daryl McNeil; Seabird Island FN - J Campbell; Shxwhay Village - Chief Robert Gladstone; Shxwhay Village (Skway FN) - Tyrell Kenworthy; Shxwowhamel EPC; Shxwowhamel FN - Angie Dick; Shxwowhamel FN - Bonnie Leggat; Shxwowhamel FN - Kaleen Pettis; Shxwowhamel FN - Raymond Louie; Shxwowhamel FN - Sally Hope; Shxwowhamel FN - Shane James; Skawahlook FN - Michael Suedfeld; Skawahlook FN - Sharron Young; Skawahlook FN - Susan McKamey; Skawahlook FN - Brian; Skowkale FN Mark Point; Skwah FN - Lory Oberst; Skwah FN - Robert Combes; Skwah FN - Ron Prest; Soowahlie FN - Dana St. Dennis; Soowahlie FN - Juliette; Soowahlie FN - Wade Nahanne; Spuzzum - Crystal Hatidimtriou; Spuzzum FN - Crystal-Anne Hatidimtriou; Spuzzum Nation Reception; Sq'ewlets FN - Katina Pennier; Squiala FN - Brittney Friesen; Squiala FN - Nikki Jackson; Sq'welets FN - Johnny Williams Jr.; Stó:lō FN - Dave Schaepe; Stó:lō FN - Karen Brady; Stó:lō FN - M Gool; Stó:lō FN - M McGinity; Stó:lō TC - Tyrone McNeil; Stolo FN - Sue Griffin; Stolo Nation Food Sovereignty; Sts'ailes FN - Boyd Peters; Sts'ailes FN - Ralph Leon; Sts'ailes FN - Tim Felix; Sumas FN - Jackie Bird; Sumas FN - Richard Hall; Tzeachten FN - Deanna Honeyman; Tzeachten FN - Derek Epp; Tzeachten FN - James Atebe; Tzeachten FN - Leah Efford; Union Bar - Jessica James; Union Bar - Joshua Currie; Union Bar - Tammy Shields; Yakweakwoose FN - Nicole LaRock; Yale FN - Dominic Hope; Yale FN - Elsie Kipp; Yale FN - Ken Hansen; Yale FN - Laureen Duerksen; Katzie - Grace Cunningham; Katzie - Rick; Katzie FN - Debbie Janus; Katzie FN - Denis Valliancourt; Kwikwetlem - Lance; Kwikwetlem FN - Ed Hall; Kwikwetlem FN - Erika Scholten; Kwikwetlem FN - George Chaffee; Kwikwetlem FN - Theresa Boyce; Matsqui FN - Alice McKay; Musqueam First Nation - Morgan Guerin; Musqueam FN - Coreen Mathison; Musqueam FN - Laurence Paul; Musqueam FN - Tracy Samra; Musqueam IB - Jim MacDonald; Naut'samawt TC - Erik Blaney; Peter (peter@katzie.ca); Semiahmoo FN - Joanne Charles; Semiahmoo FN - Joanne Charles; Semiahmoo FN - Leeann Wells; Semiahmoo FN - Paul Gadbois; Semiahmoo FN - Samantha Wells; Squamish FN - Austin Chandler; Squamish FN - Josie Harry; Tsawwassen FN - Jordi Nickolet; Tsleil-Waututh FN - Andrew Van Eden; Tsleil-Waututh FN - Ernie George; Tsleil-Waututh FN - Spencer Taft; Bob Sokol (Bob\_Sokol@squamish.net); Lil'wat - Dean Nelson; Lil'wat - Sylvia Dan; Lil'wat - Troy Bikadi; Lower Stl'at'imx TC - Sheldon Dowsell; N'Quatqua - Chantel Thevarg; Nxwisten - Gerald Michel; Samahquam FN - Clara Smith; Samahquam FN - Tammy Peters; Sechelt FN - Jesse Waldorf; Sekw'el'was - Michelle Edwards; Skatin First Nation; Squamish FN - David Harrison; Squamish FN - Doreen Maruska; Squamish FN - Glenda Gibbon; Squamish FN - Paul Wick; Titqet FN - Susan Napoleon; Titqet FN - Susan Napoleon; Tsal'alh FN - Crystal Branget; Ts'kw'aylaxw - Francis Alec; Ts'kw'aylaxw - Francis Alec (reception); Xaxli'p FN - Shonna Jacob; Xa'Xtsa FN - Amelia Paul; Xa'Xtsa FN - Chief Don Harris; Xa'Xtsa FN - Rosanna Peters; BC Association of Aboriginal Friendship Centres; FN EPS - Gillian Fuss; FN EPS - Maggie Mazurkewich; FN EPS - Vanessa Serroul; FNESS - Bob Mills; FNESS - Brent Langlois; FNESS - Esther Winder; FNESS - Xiomara O'Brien; FNHA - Amber Lee; FNHA - Brent Tom; FNHA - Casey Neathway; FNHA - Diane McEachern; FNHA - Gethsemane Luttrell; FNHA - Ildiko Herr; FNHA - James Whelan; FNHA - Linda Pillsworth; FNHA - Mark Turner; FNHA - Michelle DeGroot; INAC Duty Officer; ISC - Brent Baron; ISC - Duncan Stephen; ISC - Jaimi Gardner; ISC - Marie Urdiga; ISC - Tim McCann; ISC - Genevieve Lindsay; LABRC FN - Brittany Hall; LABRC FN - Denise Unger; LFFA (FN) - Dionne Bunsha; MARR CI EMB; MIRR Jennifer Walker; Terri Holoday

s.22 : EMBC - Alan Hurley; EMBC - Amrita Bhalla; EMBC - Craig Bland; EMBC - Ian Cummings; EMBC - Jeff Owens; EMBC - John Oakley; EMBC - Kathleen Fryer; EMBC - Lori Lolacher; EMBC - Nicole Aeichele; EMBC - Pavan Toor; EMBC - Richard Chang; EMBC - Richard Laing; EMBC - Shaun Glass; EMBC - Shelly Ewen; EMBC - Yannic Brugman; IPREM - Leanne Black; IPREM - Peter MacDonald; John Oakley

s.22 OFC - Brian Godlonton; OFC - Steve Wright; BCEHS - Randy Hansen; Bob Manson; CBS - Cynthia Calinisan; FNHA - Dan Ferguson; FNHA - Jodie Millward; FNHA - John Ford; Fraser Health - Terri-Lou Woods; Fraser Health security; Health PHSA - Jill Cathcart; HEMBC - Amy Romanas; HEMBC - Christine Turenko; HEMBC - Jennifer McGowan; HEMBC - Lower Mainland Acute and Residential; HEMBC - Maddy

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TEAMS - Rhiannon Dominy Pergentile; TEAMS - Sanja Radic; TEAMS - Scott Hill; TEAMS - Stefani Thornson; TEAMS - Stephanie Suski; TEAMS - Suzanne Tarlier; TEAMS - Tanvi Ahuja; BC Hydro Bob Gammer; Bell - Carol McDonald; Duty Manager - Shaw

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**Subject:** FW: UPDATE - Flood Watch – Englishman River (UPGRADED) - High Streamflow Advisory – South Coast and Vancouver Island (MAINTAINED) - ISSUED: 9:00AM November 14, 2021  
**Date:** November 14, 2021 09:05:41  
**Importance:** High

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Please see below the upgraded High Streamflow Advisory from the River Forecast Centre

Jeff Owens | Regional Manager

[Emergency Management BC](#)

14292 Green Timbers Way  
Surrey, B.C. CANADA V3T 0J4

Ph: 236-455-4137 Cell: 778-886-1938  
24 Hour Emergency Reporting: 1 800 663-3456

*Follow PreparedBC*



*Follow EmergencyInfoBC*



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**From:** Campbell, David FLNR:EX  
**Sent:** November 14, 2021 8:57:38 AM (UTC-08:00) Pacific Time (US & Canada)  
**To:** Campbell, David FLNR:EX  
**Subject:** UPDATE - Flood Watch – Englishman River (UPGRADED) - High Streamflow Advisory – South Coast and Vancouver Island (MAINTAINED) - ISSUED: 9:00AM November 14, 2021

## **Flood Watch – Englishman River (UPGRADED)**

### **High Streamflow Advisory – South Coast and Vancouver Island**

**UPDATED: 9:00AM November 14, 2021**

The River Forecast Centre is **upgrading** to a **Flood Watch**:

- **Englishman River**

The River Forecast Centre is **issuing or maintaining a High Streamflow Advisory** for:

- **Fraser Canyon tributaries, including tributaries around Hope (NEW)**
- **Central Vancouver Island including tributaries around Port Alberni (NEW)**
- **Howe Sound**
- **Sunshine Coast**
- **Sea-to-Sky**
- **North Shore Mountains**
- **Metro Vancouver**
- **Fraser Valley including the Chilliwack River and surrounding tributaries**
- **South Vancouver Island**
- **West Vancouver Island**
- **East Vancouver Island**

A significant atmospheric river has made landfall across southern coastal regions of British Columbia. Observed rainfall amounts since yesterday have been in the 50-75mm range through Howe Sound, North Shore Mountains, and Sunshine Coast; 30-50mm in the Fraser Valley – East, Fraser Canyon and areas around Hope and Harrison Lake; 40-115mm around Southern Vancouver Island; 20-40 mm around Eastern Vancouver Island; 80-130mm around Western Vancouver Island.

Environment and Climate Change Canada have continued rainfall warnings in effect across the region. Forecasted rainfall on Sunday through Monday is expected to be in the 50-75 mm range across East and South Vancouver Island; up to 100mm across Western and Inland Vancouver Island; up to 75mm around Metro Vancouver; up to 100mm across North Shore Mountains and western Fraser Valley around Abbotsford; up to 150mm across Howe Sound and eastern Fraser Valley around Chilliwack to Hope; and up to 80mm across areas of the Fraser Canyon.

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 expected to add additional runoff to rivers.

Rivers have risen rapidly from rainfall since yesterday. Additional rises are expected through Sunday in response to forecasted rainfall today, and ease on Monday as the heaviest rainfall passes. Current modelling is indicating the potential for flows in the 2-year to 5-year range. On the Englishman River, flows are already high and additional rainfall forecasted for today is indicating the potential for the river to reach or exceed flood stage (approximately 280 m<sup>3</sup>/s at the Water Survey of Canada gauge 08HB002 Englishman River near Parksville).

Details of the COFFEE and CLEVER Model forecasts can be found at:

[http://bcrfc.env.gov.bc.ca/fallfloods/map\\_coffee.html](http://bcrfc.env.gov.bc.ca/fallfloods/map_coffee.html), and

[http://bcrfc.env.gov.bc.ca/freshet/map\\_clever.html](http://bcrfc.env.gov.bc.ca/freshet/map_clever.html)

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.

**From:** Owens, Jeff EMBC:EX

**Cc:** Cunnings, Ian EMBC:EX; Bland, Craig W EMBC:EX; Meeks, Ken EMBC:EX; Haley, Tyler EMBC:EX

**Bcc:** Coast Guard - ICS Team; Denise Falconer; ECCC - Lisa Erven; Environment Canada - Armel Castellani; Environment Canada - Baljit Sekhon; Environment Canada - Carmen Hartt; Environment Canada - Doug Lundquist; Environment Canada - Pacific Storm Prediction Centre shift supervisor; Environment Canada Generic; Industry - Russ Hamilton; Industry Canada - Ken Pugente; Industry Canada - Kevin Hartley; Kimberly TREMBLAY - RCMP - D Div.; Nav Canada; Nav Canada - Lilia Budakh; NAVCanada - Darrin Linders; Public Safety Canada - Duty Officer Email; Public Safety Canada Liaison; RCMP - DEOC-admin DEOC EDIV; RCMP - Mark Lundie; RCMP - Martin Guay; RCMP DEOC - Nancy Hughes; Transport Canada - Deni Langis; Transport Canada - Pacific Email; 311 Operations; Abbotsford Police - Rob Hryhorczuk; AGRI - Dieter Geesing; AGRI - Mark Raymond; Agriculture - Interior; BC Ferries - Operations; BC Housing Security and Emergency Services; BC Hydro - Gregory Sykes; BC Hydro - Grey Ryley; BC Hydro - Jerry Muir; BC Hydro - Sabrina Locicero; BC Hydro - Tara Laycock; BC Hydro - Ted Olynyk; BC Hydro Corp Emergency Centre - ECC Manager; BC Hydro Duty Coordinator; BC Hydro PREOC Rep Email; BC Oil & Gas - Jennifer Liddicoat; BC Oil & Gas - Peter Dalton; BC Transit - Neil Gibbs; BC Transit - Nigel Couch; BC Transit - Stephen Anderson; BCAA - Matt Newman; BCIT - Glen Magel; BCIT - Sharon Lewis; BCRTC - CMBC - Derek Stewart; BCRTC - CMBC - Dorit Mason; BCRTC - CMBC - Matt Adams; BCRTC - Jon Arason; BCRTC - Translink - Brian Jensen; BCSARA - Brian Lamond; Bell - Cni-nic; BNSF - Hana Hunn; BNSF Rail - Operations; Canadian Red Cross Duty Officer; CMBC Emergency Manager; CN Rail - Doug Allen; CN Rail - John Nicoletti; CN Rail - Trevor Evans; CN Rail - Wade O'Brien; CP Rail - David Miller; CP Rail - Jeff Livesey; CP Rail - Mike LoVecchio; CP Rail - Robert North; CP Rail - Ron Kotylak; CRC - Kai Nestman; CSIS - Sabrina Marzari; DAVE HART(Port Metro); ECOMM; ECOMM911 - Tony Gilligan; FireInfo BC; FNHA - Jane Mather; Fortis - Jimmy Yip; Fortis - Maxine Hickli; FortisBC - Taras (T.M.) Sandulak; FortisBC Dispatch Gas Operations; Health - Mark Phillips; Health - Nicole Spence; Health Duty Officer; Health ECC Generic Email; Health PREOC; HECC Operations; HEMBC - Scott Blessin; HEMBC DPS Program; IBC - Greg Moy; Insurance Bureau of Canada - Aaron Sutherland; Jack Chen (Jack.Chen@technicalsaftybc.ca); James Ablitt (James.Ablitt@technicalsaftybc.ca); Jen Stoutenburg (jen.stoutenburg@technicalsaftybc.ca); JIBC - Bettina Williams; JIBC - Janine Aussem; JIBC - Jodie Marshall; Kinder Morgan - Bob Love; Kinder Morgan - Bruce Jamer; Kinder Morgan Jason Turner; KPU Richmond - Emergency Planning; KPU Richmond - Gino Pagliericci; Kussal, Ivan s.22 Lisa Modica-Amore (lisa.modica-amore@technicalsaftybc.ca); Mainroad LM - Bob Devaney; OGC 24/7 Duty Manager; OGC Security and Emergency Management Group (emp@bcogc.ca); PHAC - Generic Email; Port of Vancouver - Anastasia Ovodova; Port of Vancouver - Danielle Trudeau; Port of Vancouver - Port Operations Centre 24/7; Protrans BC - Shabnam Mirseraji; Rocky Mountaineer - Michelle Papas; Salvation Army - Ian Pollard; SFU - Laura Kerek; SFU - Laura Vajanto; SFU - Peter Anderson; SFU - Security; SFU - Steve Braham; Shaw Communication Vancouver Regional Operations Duty Manager; Shaw Regional Action Centre (RAC) 24/7; SPCA Emergency Response Directors (emergencyresponsedirectors@spca.bc.ca); St. John Ambulance - Ashten Black; St. John Ambulance - Jane Short; St. John Ambulance - Scott Perrault; Telus - Ramon Zulueta; TELUS - Sarah MacDonald; TELUS - Shawn Cowley; TELUS Business Continuity; TELUS GVRD - Kirk Panser; Trans Mountain - Kelly Malinoski; Translink - Canada Line - Ron Powell; Translink - Dorit Mason; Translink EOC; Translink - Pat Koch; Tzu Chi - Tony Lee; UBC - Daniel Smutylo; UBC - Hailey Maxwell; Vancouver Coastal Health - Rocio Andrews; Vancouver EOC Director / VOC Deputy Director EOC Director; Vancouver USAR - David Boone; VIA Rail - Peter Lambrinakos; VIA Rail - Thierry Plamondon-Tremblay; Vince Busto; YVR - Airport Operations; YVR - Carla Hanson; YVR - James Blake; YVR - Monty Rahman; YVR - Trevor Boudreau; Abbotsford - Darcy Ross; Bodo Wiedemann s.22 Burnaby - Patricia Kavanagh; David Sinclair s.22 Delta - Jason Rickerby; DERC BCIT Bob Holowenko; DERC Port Coquitlam Chris Carr s.22 DERC SURREY Ken Clark (kenjclarke@shaw.ca); DERC WHITE ROCK ERIC KEHLER s.22 ERC BC Hydro, Sol Lancashire Hydro (sol@lanca.ca); ERC CHILLIWACK John Jackaman s.22; ERC Coquitlam - Richard Wozianek; ERC Whistler Cameron Chu s.22 Hope - Walter Chernoff; Jim Forsyth ERC Vancouver s.22; Kent Harrison Agassiz - Mike Uzzard; Langley City - David Barber; Langley City - Glen Johnson; Langley Emergency Program; Langley Township - Al Peterson; Langley Township - Dave Easingwood; Maple Ridge - Nick Gaudioso; Maple Ridge - Ron Darcus; Mission - Mike Mayer; New West - Geoff Armstrong; New West - Jeremy Cohoe; New West - Kevin Wright; NSEM - Bob Piggott; Paul Bryan; PERCS - Leonard McCabe; RAC - Neil King; S.E.P.A.R. - Gordon Kirk; Surrey SAR - James Longley; UBC - Tom Carroll; Vancouver - Gary Webb; Vancouver Coast Health - Ernie Mix; White Rock MERC Ralph Webb; Abbotsford - Craig Leighton; Abbotsford - Darren Lee; Abbotsford - Pardeep Agnihotri; Abbotsford - RJ Adams; Abbotsford - Sarina MacDonell; Abbotsford EOC Director; Abbotsford EOC Planning Chief; Abbotsford Police - Desi Sansalone; Agassiz - Mike Van Laerhoven; Chilliwack - Ian Josephson; Chilliwack - Chris Wilson; Chilliwack - David Blain; Chilliwack - Frank Van Nynatten; Chilliwack - Mike Bourdon; Chilliwack - Tara L. 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Aitchelitz FN - Chief Angie Bailey; Boothroyd First Nation; Boothroyd FN - Cheryl Davidson; Boothroyd FN - George Campbell; Boothroyd FN - Lawrence Campbell; Boston Bar FN - Cathy Speth; Boston Bar FN - Dolores O'Donaghey; Boston Bar FN - Kelley Williams; Boston Bar FN - Pamela Robertson; Chawathil FN - Audrey George; Chawathil FN - Deanna John; Chawathil FN - Rhoda Peters; Chawathil FN - Rose Peters; Cheam FN - Eric Alex; Cheam FN - Rob Kovac; Cheam Indian Band - Deidra Aleck; Katzie First Nation - Maureen Eugene; Katzie FN - Ian Cowan; Katzie FN - Moira Adams; Katzie FN - Stacey Goulding; Kwantlen FN - Carol Gabriel; Kwantlen FN - Carrie Mitchell; Kwantlen FN - Christine Loewen; Kwantlen FN - Les Antone; Kwantlen FN - Marilyn Carpenter; Kwaw-Kwaw-Aplit - Randy Leon; Kwikwetlem FN - John Peters; Leq'a:mel FN - Barb Leggat; Leq'a:mel FN - Shawn Gabriel; Leq'a:mel FN - Stephen McGlenn; Mastqui FN - Alice McKay; Mastqui FN - Cindy Collins; Matsqui FN - Brenda Morgan; Peters Band - Mark Peters; Peters FN - Norma Webb; Peters FN - Victoria Peters; Seabird Island - Al Fraser; Seabird Island - Ashley Bobb; Seabird Island - Daniel Harry; Seabird Island - John Bobb; Seabird Island - Paula Woodruff; Seabird Island Band - Bonnie Nickel; Seabird Island FN - Daryl McNeil; Seabird Island FN - J Campbell; Shxwhay Village - Chief Robert Gladstone; Shxwhay Village (Skway FN) - Tyrell Kenworthy; Shxwowhamel EPC; Shxwowhamel FN - Angie Dick; Shxwowhamel FN - Bonnie Leggat; Shxwowhamel FN - Kaleen Pettis; Shxwowhamel FN - Raymond Louie; Shxwowhamel FN - Sally Hope; Shxwowhamel FN - Shane James; Skawahlook FN - Michael Suedfeld; Skawahlook FN - Sharron Young; Skawahlook FN - Susan McKamey; Skawahlook FN - Brian; Skowkale FN Mark Point; Skwah FN - Lory Oberst; Skwah FN - Robert Combes; Skwah FN - Ron Prest; Soowahlie FN - Dana St. Dennis; Soowahlie FN - Juliette; Soowahlie FN - Wade Nahanne; Spuzzum - Crystal Hatidimtriou; Spuzzum FN - Crystal-Anne Hatidimtriou; Spuzzum Nation Reception; Sq'ewlets FN - Katina Pennier; Squiala FN - Brittney Friesen; Squiala FN - Nikki Jackson; Sq'welets FN - Johnny Williams Jr.; Stó:lō FN - Dave Schaepe; Stó:lō FN - Karen Brady; Stó:lō FN - M Gool; Stó:lō FN - M McGinity; Stó:lō TC - Tyrone McNeil; Stolo FN - Sue Griffin; Stolo Nation Food Sovereignty; Sts'ailes FN - Boyd Peters; Sts'ailes FN - Ralph Leon; Sts'ailes FN - Tim Felix; Sumas FN - Jackie Bird; Sumas FN - Richard Hall; Tzeachten FN - Deanna Honeyman; Tzeachten FN - Derek Epp; Tzeachten FN - James Atebe; Tzeachten FN - Leah Efford; Union Bar - Jessica James; Union Bar - Joshua Currie; Union Bar - Tammy Shields; Yakweakwoose FN - Nicole LaRock; Yale FN - Dominic Hope; Yale FN - Elsie Kipp; Yale FN - Ken Hansen; Yale FN - Laureen Duerksen; Katzie - Grace Cunningham; Katzie - Rick; Katzie FN - Debbie Janus; Katzie FN - Denis Valliancourt; Kwikwetlem - Lance; Kwikwetlem FN - Ed Hall; Kwikwetlem FN - Erika Scholten; Kwikwetlem FN - George Chaffee; Kwikwetlem FN - Theresa Boyce; Matsqui FN - Alice McKay; Musqueam First Nation - Morgan Guerin; Musqueam FN - Coreen Mathison; Musqueam FN - Laurence Paul; Musqueam FN - Tracy Samra; Musqueam IB - Jim MacDonald; Naut'samawt TC - Erik Blaney; Peter (peter@katzie.ca); Semiahmoo FN - Joanne Charles; Semiahmoo FN - Joanne Charles; Semiahmoo FN - Leeann Wells; Semiahmoo FN - Paul Gadbois; Semiahmoo FN - Samantha Wells; Squamish FN - Austin Chandler; Squamish FN - Josie Harry; Tsawwassen FN - Jordi Nickolet; Tsleil-Waututh FN - Andrew Van Eden; Tsleil-Waututh FN - Ernie George; Tsleil-Waututh FN - Spencer Taft; Bob Sokol (Bob\_Sokol@squamish.net); Lil'wat - Dean Nelson; Lil'wat - Sylvia Dan; Lil'wat - Troy Bikadi; Lower Stl'at'imx TC - Sheldon Dowsell; N'Quatqua - Chantel Thevarge; Nxwisten - Gerald Michel; Samahquam FN - Clara Smith; Samahquam FN - Tammy Peters; Sechelt FN - Jesse Waldorf; Sekw'el'was - Michelle Edwards; Skatin First Nation; Squamish FN - David Harrison; Squamish FN - Doreen Maruska; Squamish FN - Glenda Gibbon; Squamish FN - Paul Wick; Titqet FN - Susan Napoleon; Titqet FN - Susan Napoleon; Tsal'alh FN - Crystal Branget; Ts'kw'aylaxw - Francis Alec; Ts'kw'aylaxw - Francis Alec (reception); Xaxli'p FN - Shonna Jacob; Xa'Xtsa FN - Amelia Paul; Xa'Xtsa FN - Chief Don Harris; Xa'Xtsa FN - Rosanna Peters; BC Association of Aboriginal Friendship Centres; FN EPS - Gillian Fuss; FN EPS - Maggie Mazurkewich; FN EPS - Vanessa Serroul; FNESS - Bob Mills; FNESS - Brent Langlois; FNESS - Esther Winder; FNESS - Xiomara O'Brien; FNHA - Amber Lee; FNHA - Brent Tom; FNHA - Casey Neathway; FNHA - Diane McEachern; FNHA - Gethsemane Luttrell; FNHA - Ildiko Herr; FNHA - James Whelan; FNHA - Linda Pillsworth; FNHA - Mark Turner; FNHA - Michelle DeGroot; INAC Duty Officer; ISC - Brent Baron; ISC - Duncan Stephen; ISC - Jaimi Gardner; ISC - Marie Urdiga; ISC - Tim McCann; ISC - Genevieve Lindsay; LABRC FN - Brittany Hall; LABRC FN - Denise Unger; LFFA (FN) - Dionne Bunsha; MARR CI EMB; MIRR Jennifer Walker; Terri Holoday

**s.22** EMB - Alan Hurley; EMB - Amrita Bhalla; EMB - Craig Bland; EMB - Ian Cummings; EMB - Jeff Owens; EMB - John Oakley; EMB - Kathleen Fryer; EMB - Lori Lolacher; EMB - Nicole Aichele; EMB - Pavan Toor; EMB - Richard Chang; EMB - Richard Laing; EMB - Shaun Glass; EMB - Shelly Ewen; EMB - Yannic Brugman; IPREM - Leanne Black; IPREM - Peter MacDonald; John Oakley

**s.22** OFC - Brian Godlonton; OFC - Steve Wright; BCEHS - Randy Hansen; Bob Manson; CBS - Cynthia Calinisan; FNHA - Dan Ferguson; FNHA - Jodie Millward; FNHA - John Ford; Fraser Health - Terri-Lou Woods; Fraser Health security; Health PHSA - Jill Cathcart; HEMBC - Amy Romanas; HEMBC - Christine Turenko; HEMBC - Jennifer McGowan; HEMBC - Lower Mainland Acute and Residential; HEMBC - Maddy

Laberge; HEMBC - Mark Phillips ; HEMBC - Michael Scott; HEMBC - Penelope Mador; HEMBC Generic; Ita Hyland; PHSA - John Lavery ; PHSA - Robin Gardner ; JTFP - Brendon LeBlanc; JTFP Asst SRLO - Benny Pong; JTFP Asst SRLO - Benny Pong (Mai); JTFP OP - Robert Alliston; JTFP RLO - Barry Plaxton (Capt); JTFP RLO - Brad Fairall; JTFP RLO - Brad Fairall (MWO); JTFP RLO - Brendon LeBlanc; JTFP RLO - Charles Middleton (CWO); JTFP RLO - Chris Scott; JTFP RLO - Justin Tegart; JTFP RLO - Justin Tegart; JTFP RLO - Leah Wilson; JTFP RLO - Paul Lavallee; JTFP RLO - Rod Tulett (CPO 2); EMBC SWE PREOC Advanced Planning Unit 1, EMBC EMBC:EX; EMBC SWE PREOC Advanced Planning Unit 2, EMBC EMBC:EX; EMBC SWE PREOC Advanced Planning Unit 3, EMBC EMBC:EX; EMBC SWE PREOC Advanced Planning Unit 4, EMBC EMBC:EX; EMBC SWE PREOC Advanced Planning Unit 5, EMBC EMBC:EX; EMBC SWE PREOC Communications Unit 1 EMBC:EX; EMBC SWE PREOC Communications Unit 2 EMBC:EX; EMBC SWE PREOC Communications Unit 3 EMBC:EX; EMBC SWE PREOC Communications Unit 4 EMBC:EX; EMBC SWE PREOC Communications Unit 5 EMBC:EX; EMBC SWE PREOC First Nations 1 EMBC:EX; EMBC SWE PREOC First Nations 2 EMBC:EX; EMBC SWE PREOC Planning 6 EMBC:EX; EMBC SWE PREOC Planning 7 EMBC:EX; EMBC SWE PREOC Recovery Unit 1, EMBC EMBC:EX; EMBC SWE PREOC Recovery Unit 2, EMBC EMBC:EX; EMBC SWE PREOC Recovery Unit 3, EMBC EMBC:EX; EMBC SWE PREOC Recovery Unit 4, EMBC EMBC:EX; EMBC SWE PREOC Recovery Unit 5, EMBC EMBC:EX; SWE PREOC Deputy Director; SWE PREOC Director; SWE PREOC ESS 1; SWE PREOC ESS 2; SWE PREOC Finance & Admin; SWE PREOC Fire Branch 1; SWE PREOC Fire Branch 2; SWE PREOC Liaison; SWE PREOC Logistics 2; SWE PREOC Logistics 3; SWE PREOC Logistics 4; SWE PREOC Logistics Chief; SWE PREOC Operations 2; SWE PREOC Operations 3; SWE PREOC Operations 4; SWE PREOC Operations 5; SWE PREOC Operations 6; SWE PREOC Operations Chief; SWE PREOC Planning 2, Situation Unit; SWE PREOC Planning 3, Documentation; SWE PREOC Planning 4, CI; SWE PREOC Planning 5; SWE PREOC Planning Chief; SWE PREOC Public Info Officer; AGRI - Brent Barclay; AGRI - Georgina Hodson; AGRI - Graham Knox; AGRI - James Street; AGRI - Lindsay Bisschop; AGRI Emergency Management PECC; Agriculture - Emergencies; BC Parks - Elyse Guzek; BC Parks Peace Arch - Elyse Curley; BCAS Dispatch; BCEHS - Andrew Billing; BCEHS - Christine Grist; BCEHS - Daniel Zawyrucha; BCEHS - William (B.) Chute; BCLDB - Erin McEwan; BCLDB - Layla Giuca; BCWS - Fraser Zone; BCWS - Pemberton Zone; BCWS - RWCO Coastal Fire Centre; BCWS - Sunshine Coast Zone; CITZ - John Carrelli; Corrections - Michael Fernquist; Faganello, Tara MUNI:EX; FLNR - Allan Johnsrude; FLNR - Ashlee Jollymore; FLNR - Brian Epps; FLNR - Bryan Robinson; FLNR - Charles Luo; FLNR - Cher King-Scobie; FLNR - Dave Southam; FLNR - David Campbell; FLNR - Derek Leffer; FLNR - Giles Fournier; FLNR - Gurdeep Singh; FLNR - Hardy Bartle; FLNR - Jonathan Boyd; FLNR - Junying Qu; FLNR - Kevin Haberl; FLNR - Malcolm Schulz; FLNR - Mike Peters; FLNR - Mitchell Hahn; FLNR - Queenie Yip; FLNR - Randall Dayton; FLNR - Ron Nilsson; FLNR - Scott Morgan; FLNR - Scott Shaw-MacLaren; FLNR - Trevor Bohay; FLNR - Tyler Andersen; FLNR WX - Matt MacDonald; FLNRORD - Godson Umeokwochi; FLNRORD - Tim Turner; FLNRORD - Megan Fong; GCPE - Jordan Turner; Horel, Bridget FLNR:EX; Koh, Wendy FLNR:EX; Liggins, Lavona AFF:EX; Macmillan, Donald I PSSG:EX; MAH - Nicola Marotz; MCF EMU; MCFD - Louise Bouchard; MECC - Tony Litke; Ministry of Housing and Social Development; MIRR - Cam Filmer; MIRR - Janice Franklin; MOE - Avtar Sundher; MOE - Chris Doyle; MOE - Rhonda Brett; MOTI - Ashok Bhatti; MOTI - Chris Lee; MOTI - Don Legault; MOTI - Elena Farmer; MOTI - Frank Roussel; MOTI - Grant Smith; MOTI - Henry Lew; MOTI - Janelle Staite; MOTI - Ken Nash; MOTI - Michael Braun; MOTI - Patricia Wong; MOTI - Pete Prendergast; MOTI - Ron McCormack; MOTI - Van Phu Bui; MOTI Generic PREOC Email; OCIO IT Operations Centre; PSSG - Myrna Luknowsky; PSSG - Tony Porter; Qu, Junying FLNR:EX; RFC - George Roman; RTMC - Provincial Highways Conditions Centre; TMCBC TRAN:EX; Xia, Cenling FLNR:EX; Bo Wiedemann; s.22 : Mark Spencer; Steve Kern; Agassiz - Gerald Basten; Agassiz - John Vantol; Agassiz - Wayne Dyer; Chilliwack Valley VFD - Colby Johnson; Chilliwack Valley VFD - Mike Danyluk; Columbia Valley VFD - Larry Parcher; Columbia Valley VFD - Michael Soth; Columbia Valley VFD - Nathan Steegstra; Halfmoon Bay VFD - Greg Phelps; Hope SAR - Barry Gannon; Hope SAR (Tanya MacNenesh); Lions Bay - Andrew Oliver; Mission - Dale Unrau; Mission Fire Duty Chiefs; North Fraer VFD (Steve Howell); North Fraser VFD - Curtis Stevens; Pemberton Fire - Cameron Adams; Pender Harbour Fire - Don Murray; Popkum VFD - Walter Roos; SCRd - Sechelt Fire Duty Officer; SCRd Bob Stevens; SCRd Gibsons Fire Chief; Sean Hatanaka - Roberts Creek Volunteer Fire Dept (sean.hatanaka@scrd.ca); Squamish Fire - Russ Inouye; Sunshine Valley VFD - Chris Terry; Sunshine Valley VFD - Gary Vath; Whistler Fire; Abbotsford PD - Colin Wiebe; BCSARA - Trent Blair; BCSARA Director Sea to Sky Rep - John Howe; BCSARA Fraser Valley Director - Frank Van Nynatten; BCSARA President - Chris Kelly; BCSARA Support - Kathy Stenton; CFV SAR - Christie Falk; CFV SAR - Jerry Haak; CFV SAR - Lee Holeczek; CFVSAR - Lee Holeczek; Chilliwack SAR - Dave Casey; Chilliwack SAR - Doug Fraser; Chilliwack SAR - Equipment; Chilliwack SAR - Greg Unruh; Chilliwack SAR - Josef Seywerd; Chilliwack SAR - President; Coquitlam SAR - Managers; Coquitlam SAR - President; EMBC SAR SP - Allan Mole; Hope SAR - Barry Gannon; Hope SAR - Noelle Hartt; Hope SAR - Ray Hartt; Hope SAR - Stacey Gauthier; Hope SAR - Steve Link; Hope SAR - Tanya MacNeish; KHSAR - Neil Brewer; Langley AIR - George Miller; Lions Bay SAR - Brent Calkin; Lions Bay SAR - Martin Collwell; Lions Bay SAR - Sandro Frei; managers@sfsar.ca; Mission SAR; Mission SAR - Rodger Williams; Mission SAR Training Officer; North Shore Rescue - Allan McMordie; North Shore Rescue - Don Jardine; North Shore Rescue - Greg Miller; North Shore Rescue - Jeff Yarnold; North Shore Rescue - Mike Danks; North Shore Rescue - Scott Merriman; North Shore Rescue - Simon Jackson; NorthShore Rescue - Scott Campbell; NSR - Dale Weidman; Pemberton SAR - Martin Buchheim; Pemberton SAR - Peter Schimek; Pemberton SAR Managers; president@sfsar.ca; RCMP - Carla Der; RM SAR - Del Doornbosch; RM SAR - Michael Day; RM SAR - SAR Managers; South Fraser SAR - icp@sfsar.ca; Squamish SAR - Board of Directors; Squamish SAR - Managers; Squamish SAR - Operations Committee; Sunshine Coast SAR Managers; Surrey SAR - Don Burgess; Whistler SAR - Brad Sills; Whistler SAR - Daren Romano; Whistler SAR - Daryl Kincaid; Whistler SAR - Rob Withey; Whistler SAR - Rob Withey; IPREM - Shannon Peterson; TEAMS - Aastha Sahdev; TEAMS - Andrea Schmidt; TEAMS - Andrew Wallwork; TEAMS - Carley Cocola; TEAMS - Carrie Davis; TEAMS - Cassandra Fuhrmann; TEAMS - Christopher Lien; TEAMS - Cindy Grantham; TEAMS - Danielle Dzioba; TEAMS - Darlene Bozanic; TEAMS - David Ramsay; TEAMS - Donna Ellis; TEAMS - Doug Wolgram; TEAMS - Ellen Law; TEAMS - Harold Dixon; TEAMS - Harp Dhaliwal; TEAMS - Heather Imrie; TEAMS - Jim Jensen; TEAMS - Jing Zhang; TEAMS - Joakim Zatko; TEAMS - Kathleen Murphy; TEAMS - Katrina Estoque; TEAMS - Kristin Vanderkuip; TEAMS - Megan Coyle; TEAMS - Rachel Chapman; TEAMS - Raymond Young; TEAMS - Rhiannon Dominy Pergentile; TEAMS - Sanja Radic; TEAMS - Scott Hill; TEAMS - Stefani Thornson; TEAMS - Stephanie Suski; TEAMS - Suzanne Tarlier; TEAMS - Tanvi Ahuja; BC Hydro Bob Gammer; Bell - Carol McDonald; Duty Manager - Shaw

Communications; E-Comm PECC Alerts; Hewson, David EMBC:EX; ISED - 24/7 Emergency Contact; ISED - Kasun Somaratne; Pacific Northern Gas - Emily Ortis; Pembina Pipeline - Andy Fedechko; Pembina Pipeline - Cory Klapper; Pembina Pipeline - Joel Block; Pembina Pipeline - Natasha Nassyrova; Rogers - Jim Loree; Rogers - Andy Chernoff; Rogers - Tony D'Agostino; Rogers - Tony Smith; Shaw - Brad Stephenson; Shaw - Tracey Fischer; TELUS - Parm Sandhu; TELUS - Scott Freeman; TELUS - Todd Worrell; Aitchelitz FN - Leona Sam; Kwaw-Kwaw-a-pilt FN - Sandra Joe; Kwikwetlem FN - Gail Sidhu; Leq'a:mel FN - Ellen Torng; Seabird Island FN; Seabird Island FN; Skawahlook FN - Debra Schneider; Skwahlook FN - Sharon Young; White Rock - Rob Atkinson; Sechelt Indian Govt Dist - Peter Jmaeff; CC REMP EPC - Jessica Miller; CCRD CAO - Courtney Kirk; EMBC - Debbie Alexander; Heiltsuk Nation - Denise Carpenter; Heiltsuk Nation ED - Ian Bruisehead; mandrews@nsem.ca; Metro Vancouver EOC; Metro Vancouver EOC Liaison; NEA Ops 1; Nuxlak FN ED - Wilma Mack; Pemberton - Emily White; Pemberton - Jill Brooksbank; Richmond - Chris Pattullo; Richmond EOC Liaison; Squamish EOC; Squamish EOC Liaison; Vancouver EOC Liaison; Vancouver - Carly Benson; Vancouver EOC; Vancouver EOC Risk; Weber, Susanne A EMBC:EX; Whistler EOC; Wuikinuxv Nation - Chief Frank Johnson; Wuikinuxv Nation - Lena Collins; Burnaby - EOC Liaison; Burnaby EOC; Burnaby EOC Director; Coquitlam EOC; Delta - Paul Scholfeld; Delta EOC; FVRD EOC; Kwikwetlem - David Hall; Metro Vancouver - Duty Manager; Metro Vancouver EOC Director; New Westminster - Curtis Bremner; Port Moody EOC; Port Moody EOC Sit Unit; Surrey EOC APU 1; Surrey EOC APU 2

**Subject:** FW: UPDATE - Flood Watch – Chilliwack River (UPGRADED), Englishman River - High Streamflow Advisory – South Coast and Vancouver Island ISSUED: 11:45AM November 14, 2021  
**Date:** November 14, 2021 12:16:55  
**Importance:** High

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Please see the updated Flood Watch from the River Forecast Centre below including the Chilliwack River

Jeff Owens | Regional Manager

[Emergency Management BC](#)

14292 Green Timbers Way  
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24 Hour Emergency Reporting: 1 800 663-3456

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**From:** Campbell, David FLNR:EX  
**Sent:** November 14, 2021 11:42:05 AM (UTC-08:00) Pacific Time (US & Canada)  
**To:** Campbell, David FLNR:EX  
**Subject:** UPDATE - Flood Watch – Chilliwack River (UPGRADED), Englishman River - High Streamflow Advisory – South Coast and Vancouver Island ISSUED: 11:45AM November 14, 2021

## **Flood Watch – Chilliwack River (UPGRADED), Englishman River High Streamflow Advisory – South Coast and Vancouver Island UPDATE: 11:45AM November 14, 2021**

The River Forecast Centre is **upgrading or maintaining** a **Flood Watch**:

### **Chilliwack River (NEW)**

- **Englishman River**

The River Forecast Centre is **issuing or maintaining** a **High Streamflow Advisory** for:

- **Fraser Canyon tributaries, including tributaries around Hope**
- **Central Vancouver Island including tributaries around Port Alberni**
- **Howe Sound**
- **Sunshine Coast**
- **Sea-to-Sky**
- **North Shore Mountains**
- **Metro Vancouver**
- **Fraser Valley including the Chilliwack River and surrounding tributaries**
- **South Vancouver Island**
- **West Vancouver Island**
- **East Vancouver Island**

A significant atmospheric river has made landfall across southern coastal regions of British Columbia. Observed rainfall amounts since yesterday have been in the 50-75mm range through Howe Sound, North Shore Mountains, and Sunshine Coast; 30-50mm in the Fraser Valley – East, Fraser Canyon and areas around Hope and Harrison Lake; 40-115mm around Southern Vancouver Island; 20-40 mm around Eastern Vancouver Island; 80-130mm around Western Vancouver Island.

Environment and Climate Change Canada have continued rainfall warnings in effect across the region. Forecasted rainfall on Sunday through Monday is expected to be in the 50-75 mm range across East and South Vancouver Island; up to 100mm across Western and Inland Vancouver Island; up to 75mm around Metro Vancouver; up to 100mm across North Shore Mountains and western Fraser Valley around Abbotsford; up to 150mm across Howe Sound and eastern Fraser Valley around Chilliwack to Hope; and up to 80mm across areas of the Fraser Canyon.

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 expected to add additional runoff to rivers.

Rivers have risen rapidly from rainfall since yesterday. Additional rises are expected through Sunday in response to forecasted rainfall today, and ease on Monday as the heaviest rainfall passes. Current modelling is indicating the potential for flows in the 2-year to 5-year range. On the Englishman River, flows are already high and additional rainfall forecasted for today is indicating the potential for the river to reach or exceed flood stage (approximately 280 m<sup>3</sup>/s at the Water Survey of Canada gauge 08HB002 Englishman River near Parksville). Flows on the Chilliwack River above Slesse Creek (08MH103) have reached 260 m<sup>3</sup>/s (5-year flow) and are expected to continue to rise throughout Sunday.

Details of the COFFEE and CLEVER Model forecasts can be found at:

[http://bcrfc.env.gov.bc.ca/fallfloods/map\\_coffee.html](http://bcrfc.env.gov.bc.ca/fallfloods/map_coffee.html), and

[http://bcrfc.env.gov.bc.ca/freshet/map\\_clever.html](http://bcrfc.env.gov.bc.ca/freshet/map_clever.html)

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.

**From:** [Owens, Jeff EMBC:EX](#)  
**To:** [Chilliwack - Chris Wilson](#)  
**Subject:** Chilliwack River Flood Watch  
**Date:** November 14, 2021 12:20:41

---

Good afternoon Chris, wanted to touch base to make sure you received the updated River Forecast which has added the Chilliwack River to the watch.

Let me know (through the ECC) if you need anything

Jeff

Jeff Owens | Regional Manager  
[Emergency Management BC](#)  
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**From:** Owens, Jeff EMBC:EX  
**To:** FVRD - Tarina Colledge  
**Subject:** Chilliwack River Flood Watch  
**Date:** November 14, 2021 12:22:34

---

Good afternoon Tarina, wanted to touch base to make sure you received the updated River Forecast which has added the Chilliwack River to the watch.

Let me know (through the ECC) if you need anything

Jeff

Jeff Owens | Regional Manager  
[Emergency Management BC](#)  
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Surrey, B.C. CANADA V3T 0J4

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**From:** Owens, Jeff EMBC:EX  
**To:** "Francis Mussell "  
**Subject:** Chilliwack River Flood Watch  
**Date:** November 14, 2021 12:41:26

---

Good afternoon Francis, wanted to touch base to make sure you received the updated River Forecast which has added the Chilliwack River to the watch.

Let me know (through the ECC 1-800-663-3456) if you need anything

Jeff

Jeff Owens | Regional Manager  
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**From:** [Owens, Jeff EMBC:EX](#)  
**To:** [FVRD - Tarina Colledge](#)  
**Subject:** Shxw'owhamel FN  
**Date:** November 14, 2021 14:35:14

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Hi Tarina, hope you are staying dry. I just spoke with Elaine Shorty, the new Band Administrator from Shxw'owhamel FN. She was reaching out in response to my River Forecast email looking to see if there was anything they needed to do. She will continue to monitor her area. If by any chance your team notices anything of significance in the Shxw'owhamel area could you give her a call.

Thanks Tarina, hopefully this is on its way out and we can have a restful Sunday night.

Elaine Shorty

s.22

Jeff

Jeff Owens | Regional Manager

[Emergency Management BC](#)

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**From:** Owens, Jeff EMBC:EX

**Cc:** [Cunnings, Ian EMBC:EX](#); [Bland, Craig W EMBC:EX](#); [Meeks, Ken EMBC:EX](#); [Haley, Tyler EMBC:EX](#)

**Bcc:** [Coast Guard - ICS Team](#); [Denise Falconer](#); [ECCC - Lisa Erven](#); [Environment Canada - Arnel Castellan](#); [Environment Canada - Baljit Sekhon](#); [Environment Canada - Carmen Hartt](#); [Environment Canada - Doug Lundquist](#); [Environment Canada - Pacific Storm Prediction Centre shift supervisor](#); [Environment Canada Generic](#); [Industry - Russ Hamilton](#); [Industry Canada - Ken Pugente](#); [Industry Canada - Kevin Hartley](#); [Kimberly TREMBLAY - RCMP - D Div.](#); [Nav Canada](#); [Nav Canada - Lilia Budakh](#); [NAVCanada - Darrin Linders](#); [Public Safety Canada - Duty Officer Email](#); [Public Safety Canada Liaison](#); [RCMP - DEOC-admin DEOC EDIV](#); [RCMP - Mark Lundie](#); [RCMP - Martin Guay](#); [RCMP DEOC - Nancy Hughes](#); [Transport Canada - Deni Langis](#); [Transport Canada - Pacific Email](#); [311 Operations](#); [Abbotsford Police - Rob Hryhorczuk](#); [AGRI - Dieter Geesing](#); [AGRI - Mark Raymond](#); [Agriculture - Interior](#); 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Aitchelitz FN - Chief Angie Bailey; Boothroyd First Nation; Boothroyd FN - Cheryl Davidson; Boothroyd FN - George Campbell; Boothroyd FN - Lawrence Campbell; Boston Bar FN - Cathy Speth; Boston Bar FN - Dolores O'Donaghey; Boston Bar FN - Kelley Williams; Boston Bar FN - Pamela Robertson; Chawathil FN - Audrey George; Chawathil FN - Deanna John; Chawathil FN - Rhoda Peters; Chawathil FN - Rose Peters; Cheam FN - Eric Alex; Cheam FN - Rob Kovac; Cheam Indian Band - Deidra Aleck; Katzie First Nation - Maureen Eugene; Katzie FN - Ian Cowan; Katzie FN - Moira Adams; Katzie FN - Stacey Goulding; Kwantlen FN - Carol Gabriel; Kwantlen FN - Carrie Mitchell; Kwantlen FN - Christine Loewen; Kwantlen FN - Les Antone; Kwantlen FN - Marilyn Carpenter; Kwaw-Kwaw-Aplit - Randy Leon; Kwikwetlem FN - John Peters; Leq'a:mel FN - Barb Leggat; Leq'a:mel FN - Shawn Gabriel; Leq'a:mel FN - Stephen McGlenn; Mastqui FN - Alice McKay; Mastqui FN - Cindy Collins; Matsqui FN - Brenda Morgan; Peters Band - Mark Peters; Peters FN - Norma Webb; Peters FN - Victoria Peters; Seabird Island - Al Fraser; Seabird Island - Ashley Bobb; Seabird Island - Daniel Harry; Seabird Island - John Bobb; Seabird Island - Paula Woodruff; Seabird Island Band - Bonnie Nickel; Seabird Island FN - Daryl McNeil; Seabird Island FN - J Campbell; Shxwhay Village - Chief Robert Gladstone; Shxwhay Village (Skway FN) - Tyrell Kenworthy; Shxwowhamel EPC; Shxw'owhamel FN - Angie Dick; Shxwowhamel FN - Bonnie Leggat; Shxw'owhamel FN - Kaleen Pettis; Shxw'owhamel FN - Raymond Louie; Shxwowhamel FN - Sally Hope; Shxw'owhamel FN - Shane James; Skawahlook FN - Michael Suedfeld; Skawahlook FN - Sharron Young; Skawahlook FN - Susan McKamey; Skawahlook FN - Brian; Skowkale FN Mark Point; Skwah FN - Lory Oberst; Skwah FN - Robert Combes; Skwah FN - Ron Prest; Soowahlie FN - Dana St. Dennis; Soowahlie FN - Juliette; Soowahlie FN - Wade Nahanne; Spuzzum - Crystal Hatidimtriou; Spuzzum FN - Crystal-Anne Hatidimtriou; Spuzzum Nation Reception; Sq'ewlets FN - Katina Pennier; Squiala FN - Brittney Friesen; Squiala FN - Nikki Jackson; Sq'welets FN - Johnny Williams Jr.; Stó:lō FN - Dave Schaepe; Stó:lō FN - Karen Brady; Stó:lō FN - M Gool; Stó:lō FN - M McGinity; Stó:lō TC - Tyrone McNeil; Stolo FN - Sue Griffin; Stolo Nation Food Sovereignty; Sts'ailes FN - Boyd Peters; Sts'ailes FN - Ralph Leon; Sts'ailes FN - Tim Felix; Sumas FN; Sumas FN - Jackie Bird; Sumas FN - Richard Hall; Tzeachten FN - Deanna Honeyman; Tzeachten FN - Derek Epp; Tzeachten FN - James Atebe; Tzeachten FN - Leah Efford; Union Bar - Jessica James; Union Bar - Joshua Currie; Union Bar - Tammy Shields; Yakweakwoose FN - Nicole LaRock; Yale FN - Dominic Hope; Yale FN - Elsie Kipp; Yale FN - Ken Hansen; Yale FN - Laureen Duerksen; Katzie - Grace Cunningham; Katzie - Rick; Katzie FN - Debbie Janus; Katzie FN - Denis Valliancourt; Kwikwetlem - Lance; Kwikwetlem FN - Ed Hall; Kwikwetlem FN - Erika Scholten; Kwikwetlem FN - George Chaffee; Kwikwetlem FN - Theresa Boyce; Matsqui FN - Alice McKay; 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Titqet FN - Susan Napoleon; Titqet FN - Susan Napoleon; Tsal'alh FN - Crystal Branget; Ts'kw'aylaxw - Francis Alec; Ts'kw'aylaxw - Francis Alec (reception); Xaxli'p FN - Shonna Jacob; Xa'Xtsa FN - Amelia Paul; Xa'Xtsa FN - Chief Don Harris; Xa'Xtsa FN - Rosanna Peters; BC Association of Aboriginal Friendship Centres; FN EPS - Gillian Fuss; FN EPS - Maggie Mazurkewich; FN EPS - Vanessa Serroul; FNESS - Bob Mills; FNESS - Brent Langlois; FNESS - Esther Winder; FNESS - Xiomara O'Brien; FNHA - Amber Lee; FNHA - Brent Tom; FNHA - Casey Neathway; FNHA - Diane McEachern; FNHA - Gethsemane Luttrell; FNHA - Ildiko Herr; FNHA - James Whelan; FNHA - Linda Pillsworth; FNHA - Mark Turner; FNHA - Michelle DeGroot; INAC Duty Officer; ISC - Brent Baron; ISC - Duncan Stephen; ISC - Jaimi Gardner; ISC - Marie Urdiga; ISC - Tim McCann; ISC - Genevieve Lindsay; LABRC FN - Brittany Hall; LABRC FN - Denise Unger; LFFA (FN) - Dionne Bunsha; MARR CI EMB; MIRR Jennifer Walker; Terri Holoday

s.22 EMB - Alan Hurley; EMB - Amrita Bhalla; EMB - Craig Bland; EMB - Ian Cummings; EMB - Jeff Owens; EMB - John Oakley; EMB - Kathleen Fryer; EMB - Lori Lolacher; EMB - Nicole Aichele; EMB - Pavan Toor; EMB - Richard Chang; EMB - Richard Laing; EMB - Shaun Glass; EMB - Shelly Ewen; EMB - Yannic Brugman; IPREM - Leanne Black; IPREM - Peter MacDonald; John Oakley

s.22 : OFC - Brian Godlonton; OFC - Steve Wright; BCEHS - Randy Hansen; Bob Manson; CBS - Cynthia Calinisan; FNHA - Dan Ferguson; FNHA - Jodie Millward; FNHA - John Ford; Fraser Health - Terri-Lou Woods; Fraser Health security; Health PHSA - Jill Cathcart; HEMBC - Amy Romanas; HEMBC - Christine Turenko; HEMBC - Jennifer McGowan; HEMBC - Lower Mainland Acute and Residential; HEMBC - Maddy

Laberge; HEMBC - Mark Phillips ; HEMBC - Michael Scott; HEMBC - Penelope Mador; HEMBC Generic; Ita Hyland; PHSA - John Lavery ; PHSA - Robin Gardner ; JTFP - Brendon LeBlanc; JTFP Asst SRLO - Benny Pong; JTFP Asst SRLO - Benny Pong (Mai); JTFP OP - Robert Alliston; JTFP RLO - Barry Plaxton (Capt); JTFP RLO - Brad Fairall; JTFP RLO - Brad Fairall (MWO); JTFP RLO - Brendon LeBlanc; JTFP RLO - Charles Middleton (CWO); JTFP RLO - Chris Scott; JTFP RLO - Justin Tegart; JTFP RLO - Justin Tegart; JTFP RLO - Leah Wilson; JTFP RLO - Paul Lavallee; JTFP RLO - Rod Tulett (CPO 2); EMBC SWE PREOC Advanced Planning Unit 1, EMBC EMBC:EX; EMBC SWE PREOC Advanced Planning Unit 2, EMBC EMBC:EX; EMBC SWE PREOC Advanced Planning Unit 3, EMBC EMBC:EX; EMBC SWE PREOC Advanced Planning Unit 4, EMBC EMBC:EX; EMBC SWE PREOC Advanced Planning Unit 5, EMBC EMBC:EX; EMBC SWE PREOC Communications Unit 1 EMBC:EX; EMBC SWE PREOC Communications Unit 2 EMBC:EX; EMBC SWE PREOC Communications Unit 3 EMBC:EX; EMBC SWE PREOC Communications Unit 4 EMBC:EX; EMBC SWE PREOC Communications Unit 5 EMBC:EX; EMBC SWE PREOC First Nations 1 EMBC:EX; EMBC SWE PREOC First Nations 2 EMBC:EX; EMBC SWE PREOC Planning 6 EMBC:EX; EMBC SWE PREOC Planning 7 EMBC:EX; EMBC SWE PREOC Recovery Unit 1, EMBC EMBC:EX; EMBC SWE PREOC Recovery Unit 2, EMBC EMBC:EX; EMBC SWE PREOC Recovery Unit 3, EMBC EMBC:EX; EMBC SWE PREOC Recovery Unit 4, EMBC EMBC:EX; EMBC SWE PREOC Recovery Unit 5, EMBC EMBC:EX; SWE PREOC Deputy Director; SWE PREOC Director; SWE PREOC ESS 1; SWE PREOC ESS 2; SWE PREOC Finance & Admin; SWE PREOC Fire Branch 1; SWE PREOC Fire Branch 2; SWE PREOC Liaison; SWE PREOC Logistics 2; SWE PREOC Logistics 3; SWE PREOC Logistics 4; SWE PREOC Logistics Chief; SWE PREOC Operations 2; SWE PREOC Operations 3; SWE PREOC Operations 4; SWE PREOC Operations 5; SWE PREOC Operations 6; SWE PREOC Operations Chief; SWE PREOC Planning 2, Situation Unit; SWE PREOC Planning 3, Documentation; SWE PREOC Planning 4, CI; SWE PREOC Planning 5; SWE PREOC Planning Chief; SWE PREOC Public Info Officer; AGRI - Brent Barclay; AGRI - Georgina Hodson; AGRI - Graham Knox; AGRI - James Street; AGRI - Lindsay Bisschop; AGRI Emergency Management PECC; Agriculture - Emergencies; BC Parks - Elyse Guzek; BC Parks Peace Arch - Elyse Curley; BCAS Dispatch; BCEHS - Andrew Billing; BCEHS - Christine Grist; BCEHS - Daniel Zawyrucha; BCEHS - William (B.) 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MAH - Nicola Marotz; MCF EMU; MCFD - Louise Bouchard; MECC - Tony Litke; Ministry of Housing and Social Development; MIRR - Cam Filmer; MIRR - Janice Franklin; MOE - Avtar Sundher; MOE - Chris Doyle; MOE - Rhonda Brett; MOTI - Ashok Bhatti; MOTI - Chris Lee; MOTI - Don Legault; MOTI - Elena Farmer; MOTI - Frank Roussel; MOTI - Grant Smith; MOTI - Henry Lew; MOTI - Janelle Staite; MOTI - Ken Nash; MOTI - Michael Braun; MOTI - Patricia Wong; MOTI - Pete Prendergast; MOTI - Ron McCormack; MOTI - Van Phu Bui; MOTI Generic PREOC Email; OCIO IT Operations Centre; PSSG - Myrna Luknowsky; PSSG - Tony Porter; Qu, Junying FLNR:EX; RFC - George Roman; RTMC - Provincial Highways Conditions Centre; TMCBC TRAN:EX; Xia, Cenling FLNR:EX; Bo Wiedemann; s. 22 Mark Spencer; Steve Kern; Agassiz - Gerald Basten; Agassiz - John Vantol; Agassiz - Wayne Dyer; Chilliwack Valley VFD - Colby Johnson; Chilliwack Valley VFD - Mike Danyluk; Columbia Valley VFD - Larry Parcher; Columbia Valley VFD - Michael Soth; Columbia Valley VFD - Nathan Steegstra; 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TEAMS - Scott Hill; TEAMS - Stefani Thornson; TEAMS - Stephanie Suski; TEAMS - Suzanne Tarlier; TEAMS - Tanvi Ahuja; BC Hydro Bob Gammer; Bell - Carol McDonald; Duty Manager - Shaw

Communications; E-Comm PECC Alerts; Hewson, David EMBC:EX; ISED - 24/7 Emergency Contact; ISED - Kasun Somaratne; Pacific Northern Gas - Emily Ortis; Pembina Pipeline - Andy Fedechko; Pembina Pipeline - Cory Klapper; Pembina Pipeline - Joel Block; Pembina Pipeline - Natasha Nassyrova; Rogers - Jim Loree; Rogers - Andy Chernoff; Rogers - Tony D'Agostino; Rogers - Tony Smith; Shaw - Brad Stephenson; Shaw - Tracey Fischer; TELUS - Parm Sandhu; TELUS - Scott Freeman; TELUS - Todd Worrell; Aitchelitz FN - Leona Sam; Kwaw-Kwaw-a-pilt FN - Sandra Joe; Kwikwetlem FN - Gail Sidhu; Leq'a:mel FN - Ellen Torng; Seabird Island FN; Seabird Island FN; Skawahlook FN - Debra Schneider; Skwahlook FN - Sharon Young; White Rock - Rob Atkinson; Sechelt Indian Govt Dist - Peter Jmaeff; CC REMP EPC - Jessica Miller; CCRD CAO - Courtney Kirk; EMBC - Debbie Alexander; Heiltsuk Nation - Denise Carpenter; Heiltsuk Nation ED - Ian Bruisehead; mandrews@nsem.ca; Metro Vancouver EOC; Metro Vancouver EOC Liaison; NEA Ops 1; Nuxlak FN ED - Wilma Mack; Pemberton - Emily White; Pemberton - Jill Brooksbank; Richmond - Chris Pattullo; Richmond EOC Liaison; Squamish EOC; Squamish EOC Liaison; Vancouver EOC Liaison; Vancouver - Carly Benson; Vancouver EOC; Vancouver EOC Risk; Weber, Susanne A EMBC:EX; Whistler EOC; Wuikinuxv Nation - Chief Frank Johnson; Wuikinuxv Nation - Lena Collins; Burnaby - EOC Liaison; Burnaby EOC; Burnaby EOC Director; Coquitlam EOC; Delta - Paul Scholfield; Delta EOC; FVRD EOC; Kwikwetlem - David Hall; Metro Vancouver - Duty Manager; Metro Vancouver EOC Director; New Westminster - Curtis Bremner; Port Moody EOC; Port Moody EOC Sit Unit; Surrey EOC APU 1; Surrey EOC APU 2

**Subject:** FW: UPDATE - Flood Watch – Fraser Valley (NEW), Fraser Canyon (NEW), Chilliwack River, Englishman River; High Streamflow Advisory – South Coast and Vancouver Island ISSUED: 3:00PM November 14, 2021  
**Date:** November 14, 2021 15:07:12  
**Importance:** High

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Please see the update Flood Watch from the River Forecast Centre below

Jeff Owens | Regional Manager

[Emergency Management BC](#)

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Ph: 236-455-4137 Cell: 778-886-1938  
24 Hour Emergency Reporting: 1 800 663-3456

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**From:** Campbell, David FLNR:EX  
**Sent:** November 14, 2021 2:56:17 PM (UTC-08:00) Pacific Time (US & Canada)  
**To:** Campbell, David FLNR:EX  
**Subject:** UPDATE - Flood Watch – Fraser Valley (NEW), Fraser Canyon (NEW), Chilliwack River, Englishman River; High Streamflow Advisory – South Coast and Vancouver Island ISSUED: 3:00PM November 14, 2021

**Flood Watch – Fraser Valley (NEW), Fraser Canyon (NEW), Chilliwack River, Englishman River**  
**High Streamflow Advisory – South Coast and Vancouver Island**  
**UPDATE: 3:00PM November 14, 2021**

The River Forecast Centre is **upgrading or maintaining** a **Flood Watch**:

- **Fraser Valley including surrounding tributaries (NEW)**
- **Fraser Canyon tributaries, including tributaries around Hope (NEW)**
- **Chilliwack River**
- **Englishman River**

The River Forecast Centre is **maintaining a High Streamflow Advisory** for:

- **Central Vancouver Island including tributaries around Port Alberni**
- **Howe Sound**
- **Sunshine Coast**
- **Sea-to-Sky**
- **North Shore Mountains**
- **Metro Vancouver**
- **South Vancouver Island**
- **West Vancouver Island**
- **East Vancouver Island**

A significant atmospheric river has made landfall across southern coastal regions of British Columbia. Observed rainfall amounts since yesterday have been in the 50-100mm range through Howe Sound, North Shore Mountains, and Sunshine Coast; 45-85mm in the Fraser Valley – East, Fraser Canyon and areas around Hope and Harrison Lake; 60-140mm around Southern Vancouver Island; 30-60 mm around Eastern Vancouver Island; 100-145mm around Western Vancouver Island.

Environment and Climate Change Canada have continued rainfall warnings in effect across the region. Forecasted rainfall on Sunday through Monday is expected to be in the 50-75 mm range across East and South Vancouver Island; up to 100mm across Western and Inland Vancouver Island; up to 75mm around Metro Vancouver; up to 100mm across North Shore Mountains and western Fraser Valley around Abbotsford; up to 150mm across Howe Sound and eastern Fraser Valley around Chilliwack to Hope; and up to 80mm across areas of the Fraser Canyon.

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 expected to add additional runoff to rivers.

Rivers have risen rapidly from rainfall since yesterday. Additional rises are expected through Sunday in response to forecasted rainfall today, and ease on Monday as the heaviest rainfall passes. Current modelling is indicating the potential for flows in the 2-year to 5-year range. On the Englishman River, flows are already high and additional rainfall forecasted for today is indicating the potential for the river to reach or exceed flood stage (approximately 280 m<sup>3</sup>/s at the Water Survey of Canada gauge 08HB002 Englishman River near Parksville). Flows on the Chilliwack River above Slesse Creek (08MH103) have reached 260 m<sup>3</sup>/s (5-year flow) and are expected to continue to rise overnight Sunday.

Details of the COFFEE and CLEVER Model forecasts can be found at:

[http://bcrfc.env.gov.bc.ca/fallfloods/map\\_coffee.html](http://bcrfc.env.gov.bc.ca/fallfloods/map_coffee.html), and

[http://bcrfc.env.gov.bc.ca/freshet/map\\_clever.html](http://bcrfc.env.gov.bc.ca/freshet/map_clever.html)

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.