

Notes

- For important limitations, please see *Hydraulic Modelling and Mapping in BC's Lower Mainland – Final Report* prepared for Fraser Basin Council by Northwest Hydraulic Consultants Ltd. (2019).
- This map is intended to illustrate the implications of one or more dike breach failures, including the extent and propagation of flooding on the land side of the dike. It is for information only and intended for flood scenario comparison and flood mitigation planning. The map may also be informative for emergency planning. It is not to be used for designating floodplains, establishing flood construction levels, designing dikes or other structures.
- *Base Run used for reference is Freshet 1894 Event. See digital PDF map to display this reference layer. Refer to *Base Flood Scenario Map – Freshet 1894 Event* for Base Run details.
- The map illustrates inundation extents and depths from selected single and multiple dike breaches. Dikes may breach in any number of locations in addition to those shown. Assumed breach characteristics and breach parameters may vary.
- In addition to areas flooded by a dike breach, unprotected areas or areas where dikes are overtopped but assumed to remain intact, are also shown as inundated.
- The Digital Elevation Model was based on 2016 Lidar acquired by EMBC and 2017 bathymetric survey data acquired by FBC for this project.
- Flood depths do not include a freeboard allowance.
- NHC's **Disclaimer**, see *Hydraulic Modelling and Mapping in BC's Lower Mainland – Final Report* (2019), also applies to this map.

1. Upstream Chilliwack	
Dike:	East Dike Rosedale to Young Road, GPS No. 19-1, City of Chilliwack
Location:	1.7 km downstream from upstream end of dike
Expected Failure Mode:	Seepage and piping failure
Breach Formation Time:	2 hours
Breach Trigger WSE:	18.48 m (Max. WSE at breach location)
Breach Max. Width:	200 m
Area Flooded from Breach:	98 km ²
2. Vedder Canal Right Bank	
Dike:	West Dike GPS No. 15 City of Chilliwack
Location:	Just downstream of the Keith Wilson Road Bridge
Expected Failure Mode:	Seepage and piping failure
Breach Formation Time:	2 hours
Breach Trigger:	8 hours after Upstream Chilliwack breach
Breach Max. Width:	200 m
Area Flooded from Breach:	10 km ²
3. Vedder Canal Left Bank	
Dike:	Vedder, GPS No. 2-2, City of Abbotsford
Location:	0.5 km upstream of Hwy 1 bridge crossing on the west side of the Vedder Canal
Expected Failure Mode:	Seepage and piping failure
Breach Formation Time:	2 hours
Breach Trigger:	8 hours after Vedder Canal Right Bank breach
Breach Max. Width:	200 m
Area Flooded from Breach:	107 km ²

