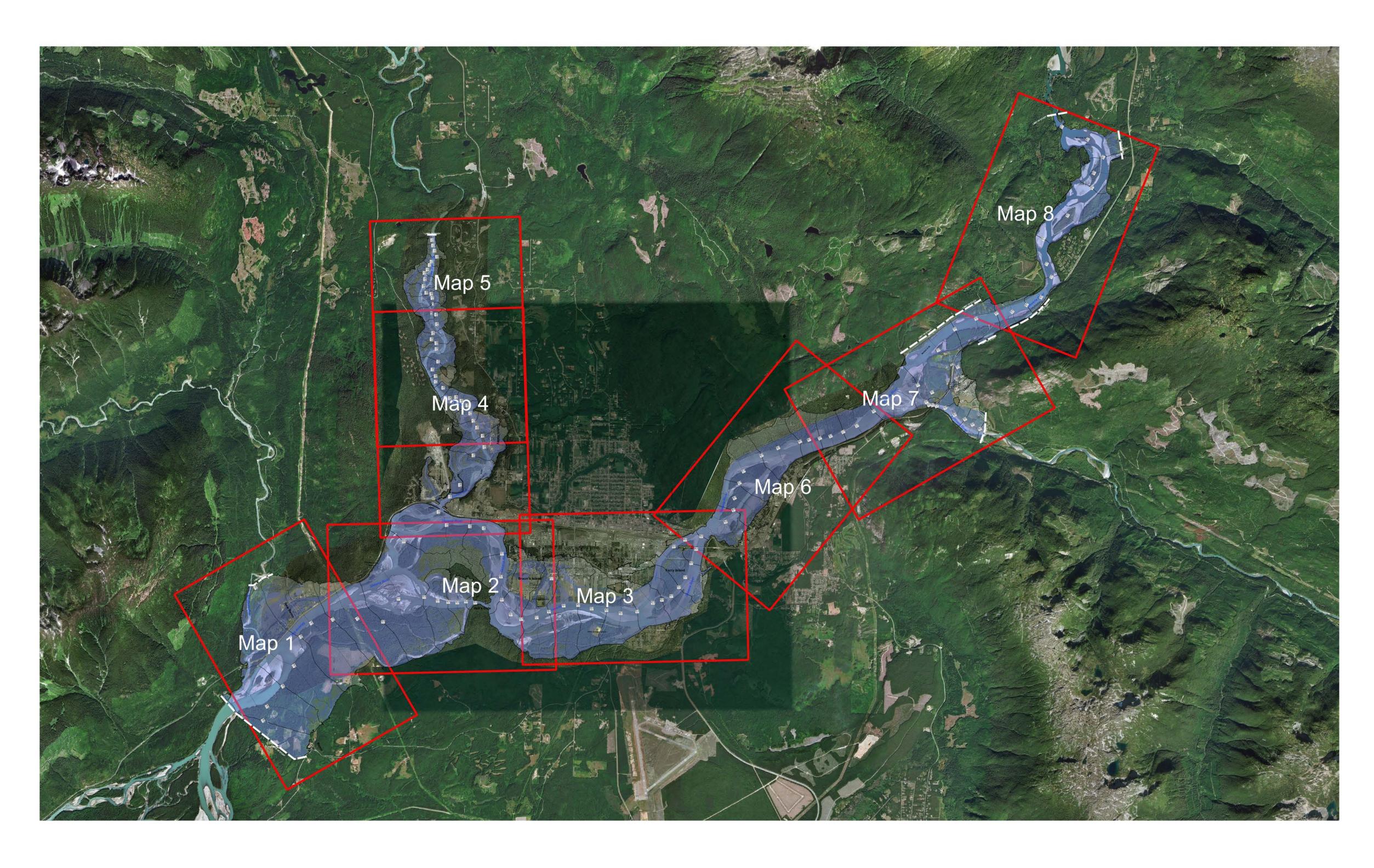
Skeena - Kitsumkalum Flood Mapping



Map 1 - Remo

Map 2 - Hell's Gate

Map 3 - Terrace

Map 4 - Kitsumkalum

Map 5 - Kitsumkalum/Deep Creek

Map 6 - Thornhill

Map 7 - Zymoetz River

Map 8 - Kitselas

Use and Limitations of Flood Mapping:

- 1: All flood hazard maps must be read in conjunction with the Use and Limitations described herein.
- 2: Under the provisions of the Flood Hazard Statutes Amendment Act, 2003 (Bill 56), local governments have the role and responsibility for making decisions about local floodplain development practices, including decisions about floodplain bylaws within their communities. Information on floodplain management guidelines can be found in the BC Flood Hazard Area Land Use Management Guidelines.
- 3: Users must note the dates of base mapping, aerial photography, ground or bathymetric surveys and issue of mapping relevant to dates of development in the map area. Subsequent developments or changes within the floodplain or channel will affect flood levels and render site-specific map information obsolete.
- 4: The accuracy of the location of a flood harard boundaries as shown on this map are limited by the base topography.
- 5: The floodplain limits are not established on the ground by legal survey. A site survey is required to reconcile property location, ground elevations and designated flood level information. Building and floodproofing elevations should be based on field survey and established benchmarks.
- 6: Flooding may still occur outside the defined floodplain boundary and the local government does not assume any liability by reason of the failure to delineate flood areas on this map.
- 7: The required or recommended setback of buildings from the natural boundaries of watercourses to allow for the passage of floodwaters and possible bank erosion is not shown. This information is available from the local government. In addition, site-specific setbacks from the floodplain limit must be considered.

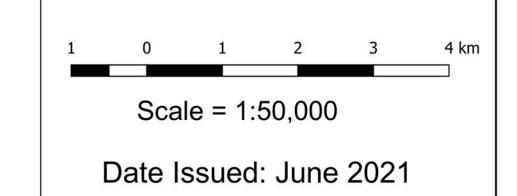


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with assistance from the Government of Canada and the Federation of Canadian Municipalities.

Notwithstanding this support, views expressed are the personal views of the authors, and the Federation of

Municipalities and the Government of Canada accept no responsibility for them.

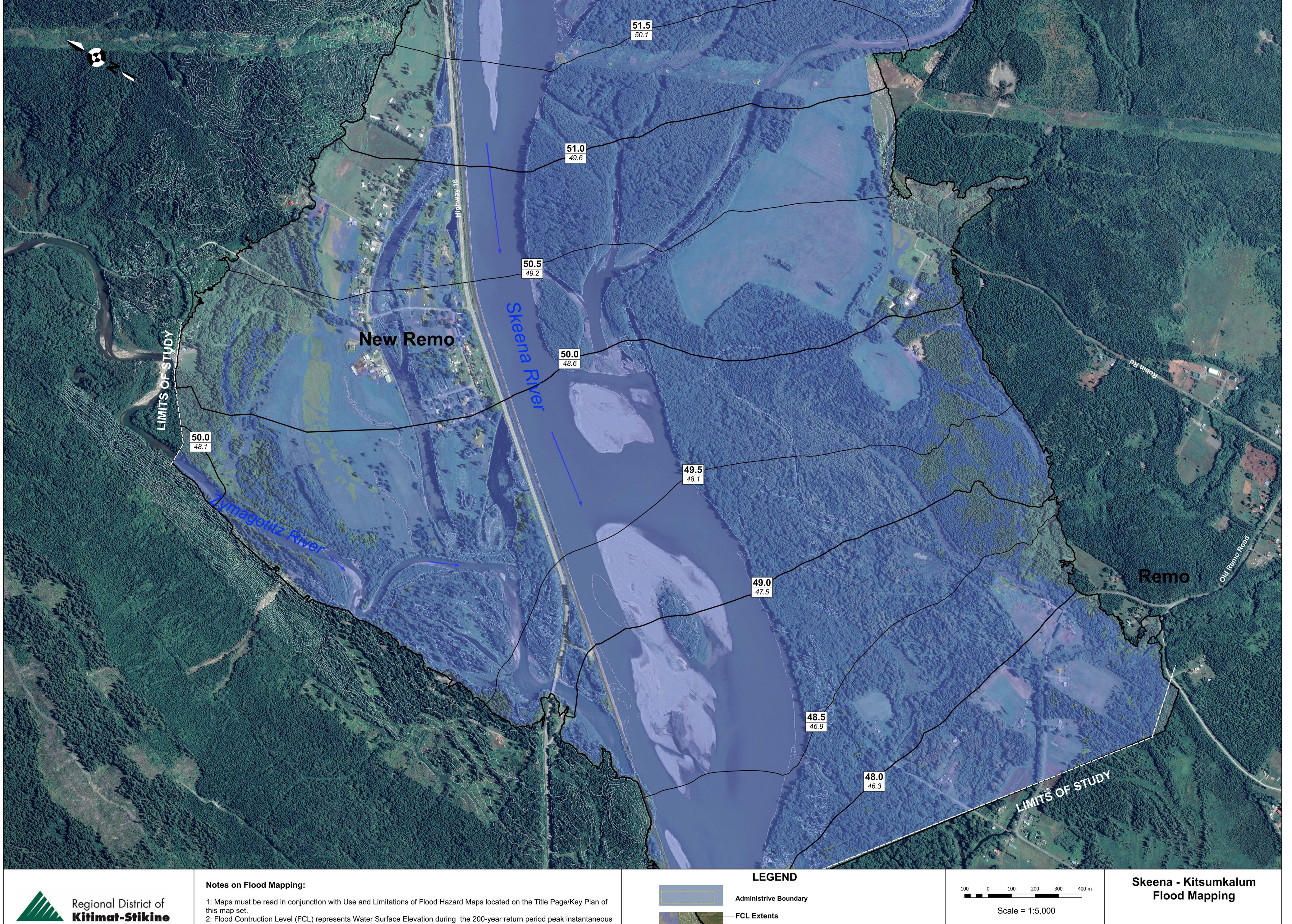


Projection: UTM Zone 9N

Datum: NAD83

Skeena - Kitsumkalum Flood Mapping

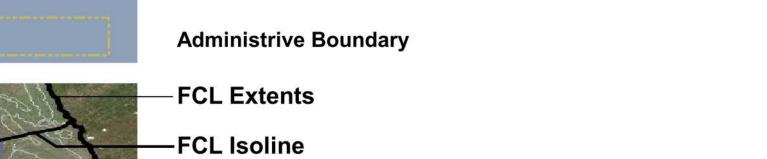
Key Plan





- this map set. 2: Flood Contruction Level (FCL) represents Water Surface Elevation during the 200-year return period peak instantaneous flow with 10% added to account for the effects of Climate Change to the year 2080. The FCL includes a 0.3 m freeboard allowance.

- 5 m contours derived from LiDAR data collected by McElhanney in July 2018.
 Foreground Imagery is from July 2018 LiDAR survey. Background imagery is from Bing Maps, Septmeber 2019.
 Digital elevation model used for hydrualic modeling based on July 2018 LiDAR and December 2018 bathymetric survey.

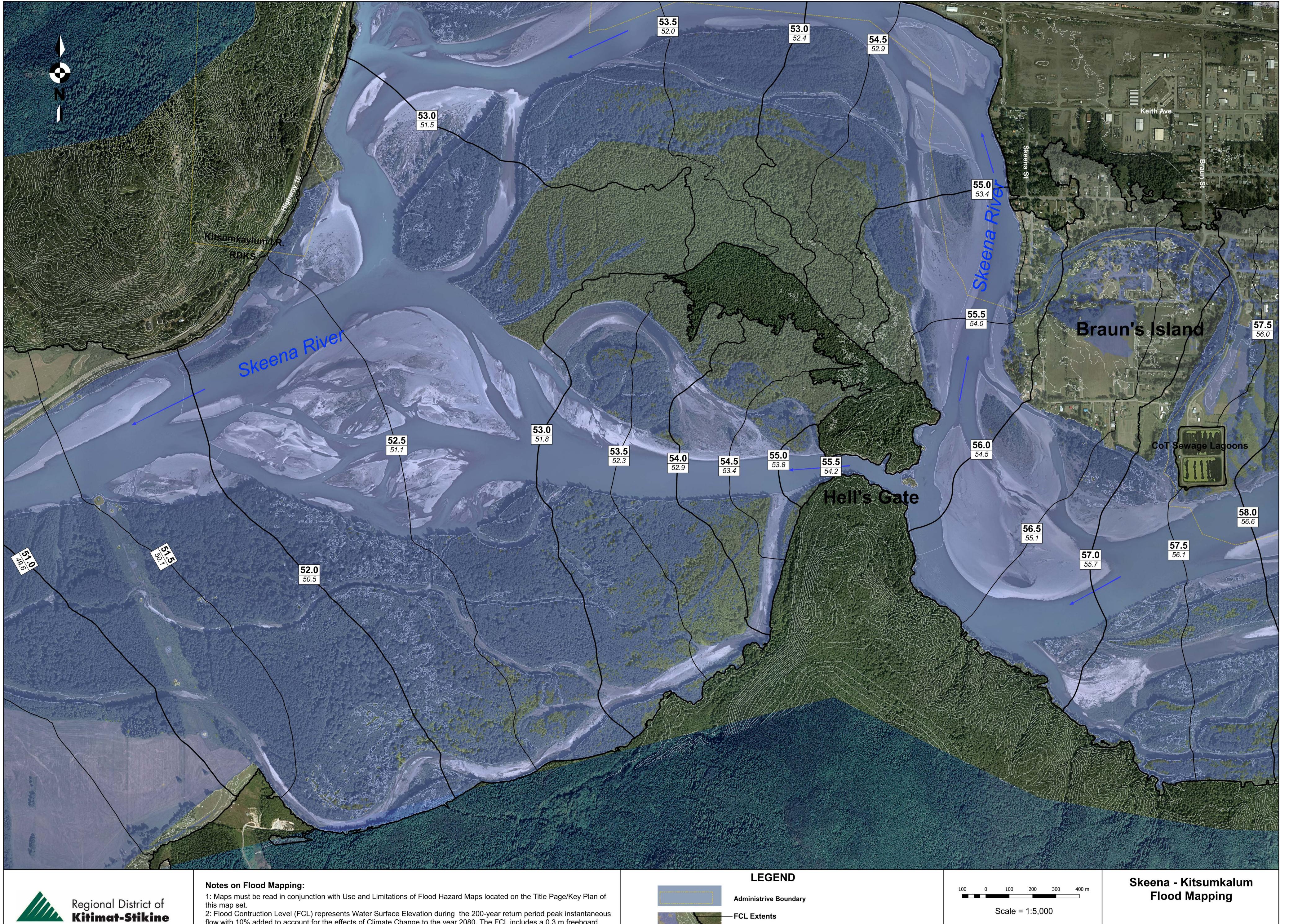


—FCL Isoline —20-yr Flood Extents (Blue Shading)

20-yr Retrun Period Water Surface Elevation

Date Issued: June 2021 FCL Isoline
Flood Construction Level (FCL) - (See Note 2) Projection: UTM Zone 9N Datum: NAD83

Map - Remo



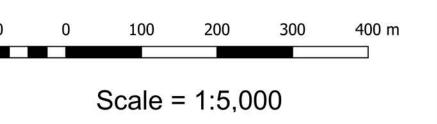


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 Digital elevation model used for hydrualic modeling based on July 2018 LiDAR and December 2018 bathymetric survey.



—FCL Isoline —20-yr Flood Extents (Blue Shading)

FCL Isoline
Flood Construction Level (FCL) - (See Note 2) 20-yr Retrun Period Water Surface Elevation

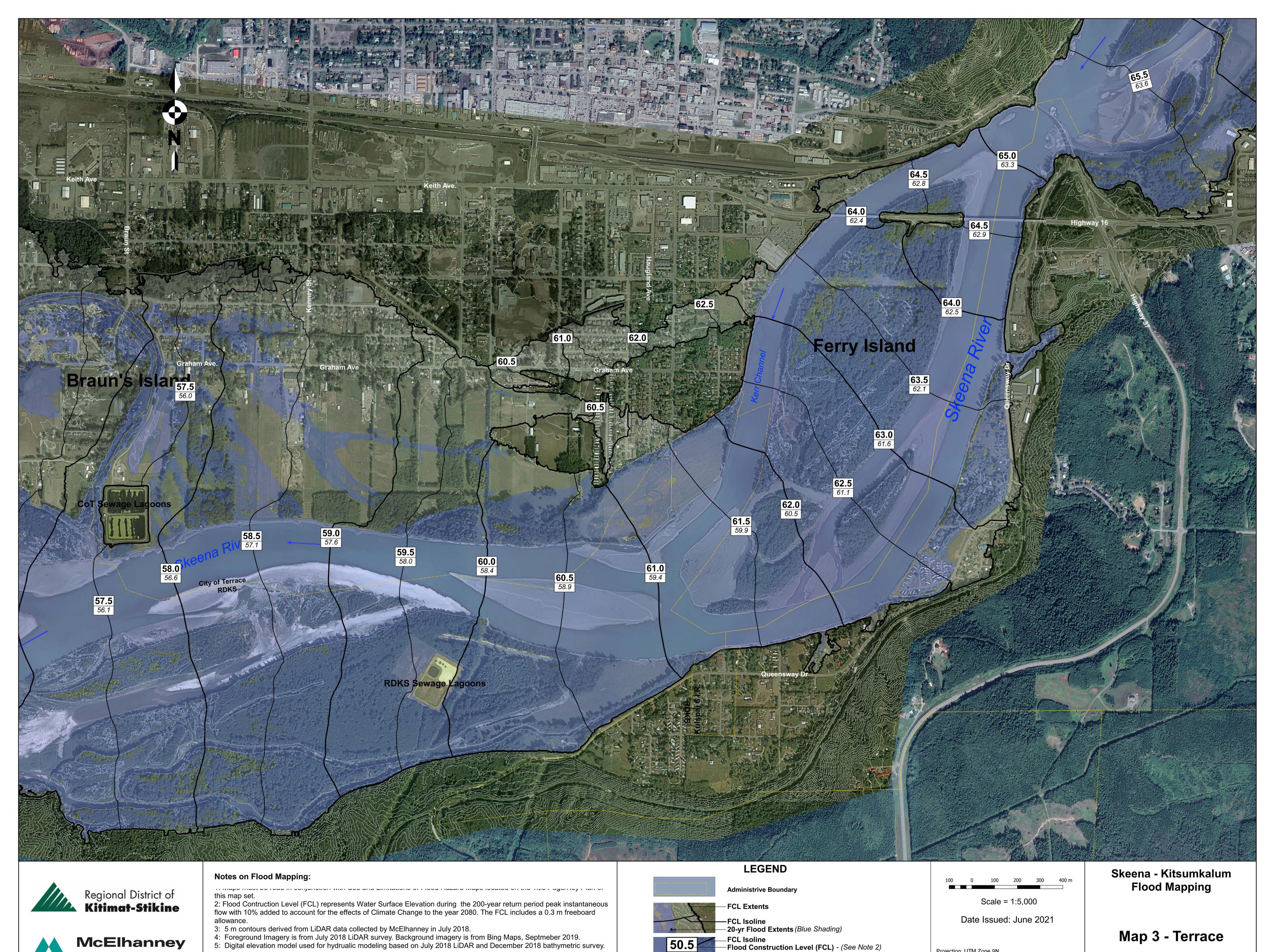


Date Issued: June 2021

Projection: UTM Zone 9N Datum: NAD83

Flood Mapping

Map 2 - Hell's Gate



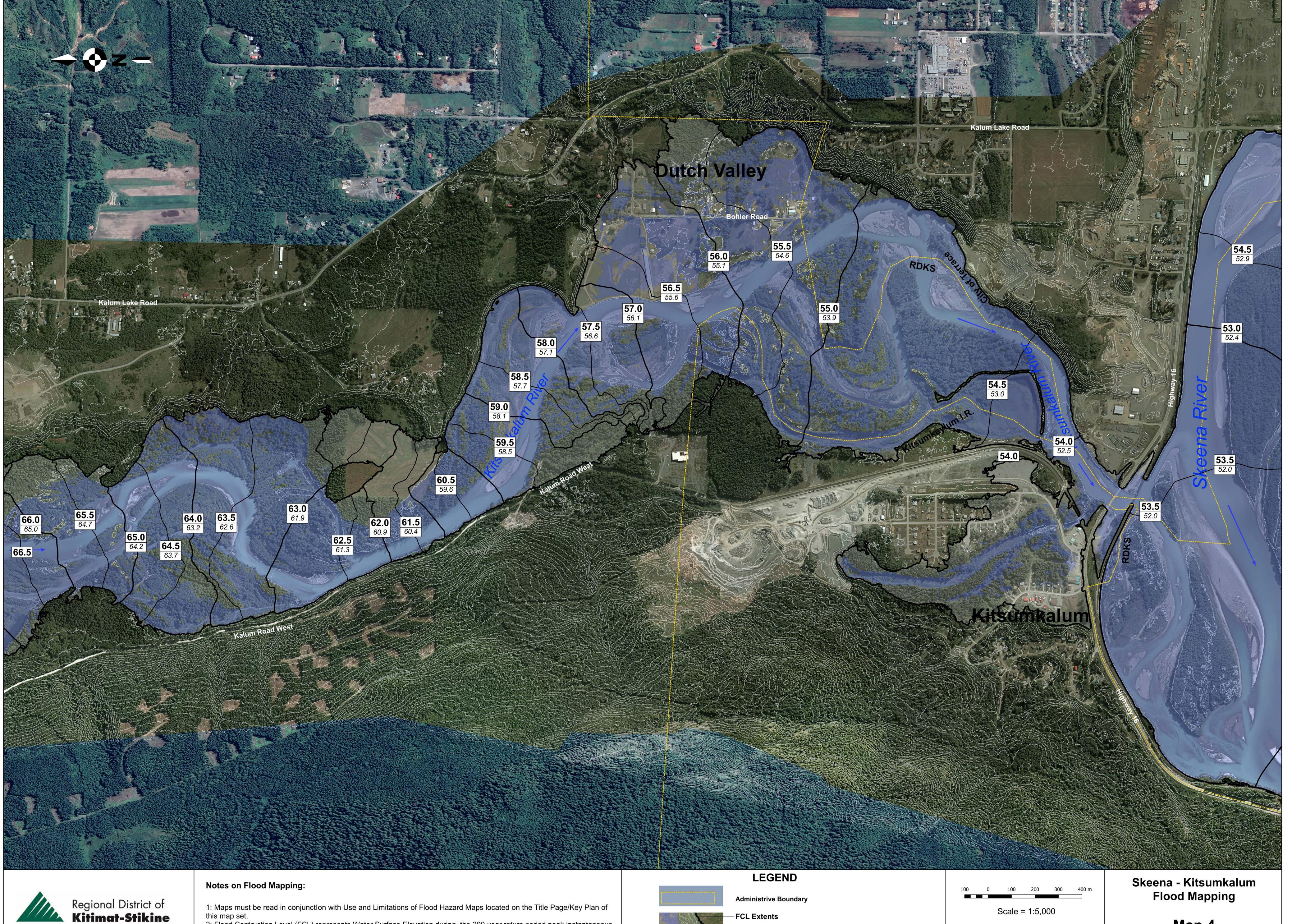
_FCL Isoline -Flood Construction Level (FCL) - (See Note 2)

20-yr Retrun Period Water Surface Elevation

Projection: UTM Zone 9N Datum: NAD83

Map 3 - Terrace







- 1: Maps must be read in conjunction with Use and Limitations of Flood Hazard Maps located on the Title Page/Key Plan of this map set.
- 2: Flood Contruction Level (FCL) represents Water Surface Elevation during the 200-year return period peak instantaneous flow with 10% added to account for the effects of Climate Change to the year 2080. The FCL includes a 0.3 m freeboard
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 Digital elevation model used for hydrualic modeling based on July 2018 LiDAR and December 2018 bathymetric survey.

Administrive Boundary -FCL Extents —FCL Isoline —20-yr Flood Extents (Blue Shading) FCL Isoline
─Flood Construction Level (FCL) - (See Note 2)

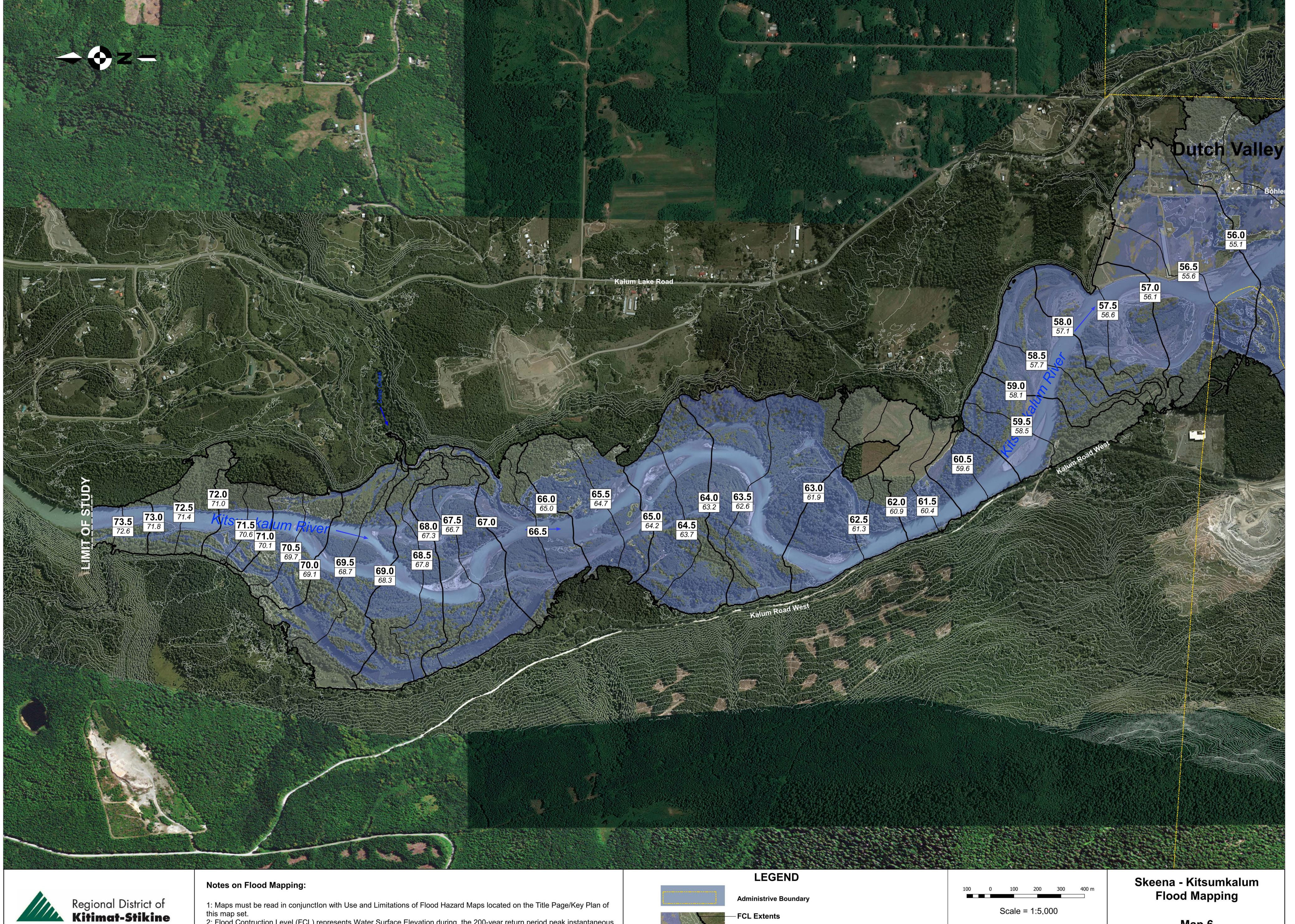
20-yr Retrun Period Water Surface Elevation

Scale = 1:5,000 Date Issued: June 2021

Projection: UTM Zone 9N Datum: NAD83

Map 4

Kitsumkalum





- 1: Maps must be read in conjunction with Use and Limitations of Flood Hazard Maps located on the Title Page/Key Plan of this map set.
- 2: Flood Contruction Level (FCL) represents Water Surface Elevation during the 200-year return period peak instantaneous flow with 10% added to account for the effects of Climate Change to the year 2080. The FCL includes a 0.3 m freeboard allowance.

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—FCL Isoline —20-yr Flood Extents (Blue Shading)

FCL Isoline
Flood Construction Level (FCL) - (See Note 2) 20-yr Retrun Period Water Surface Elevation

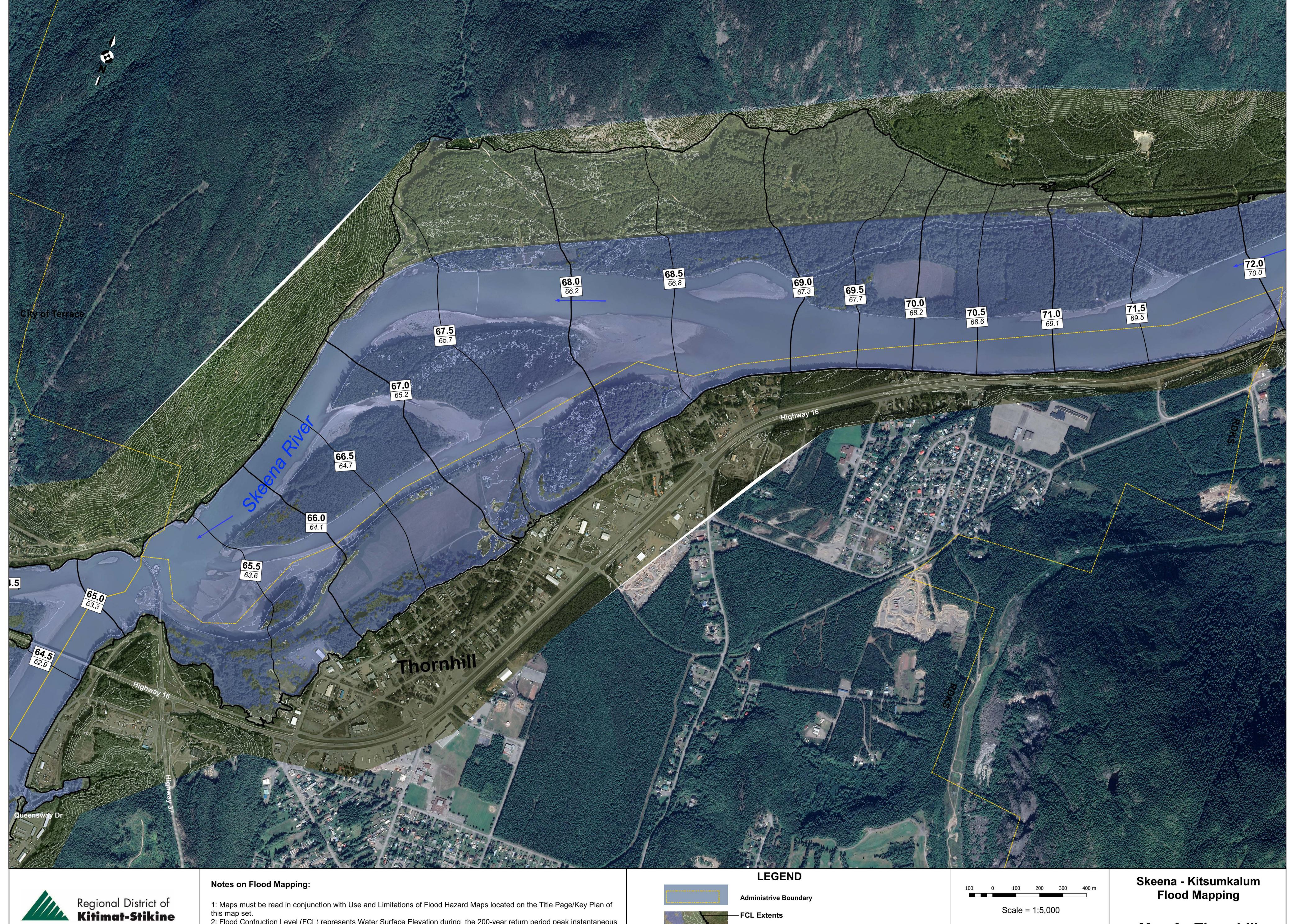
Scale = 1:5,000

Date Issued: June 2021

Projection: UTM Zone 9N Datum: NAD83

Map 6

Kitsumkalum/Deep Creek





- 1: Maps must be read in conjunction with Use and Limitations of Flood Hazard Maps located on the Title Page/Key Plan of
- this map set.
 2: Flood Contruction Level (FCL) represents Water Surface Elevation during the 200-year return period peak instantaneous flow with 10% added to account for the effects of Climate Change to the year 2080. The FCL includes a 0.3 m freeboard allowance.
- 3: 5 m contours derived from LiDAR data collected by McElhanney in July 2018.
- 4: Foreground Imagery is from July 2018 LiDAR survey. Background imagery is from Bing Maps, Septmeber 2019.5: Digital elevation model used for hydrualic modeling based on July 2018 LiDAR and December 2018 bathymetric survey.

—FCL Isoline —20-yr Flood Extents (Blue Shading)

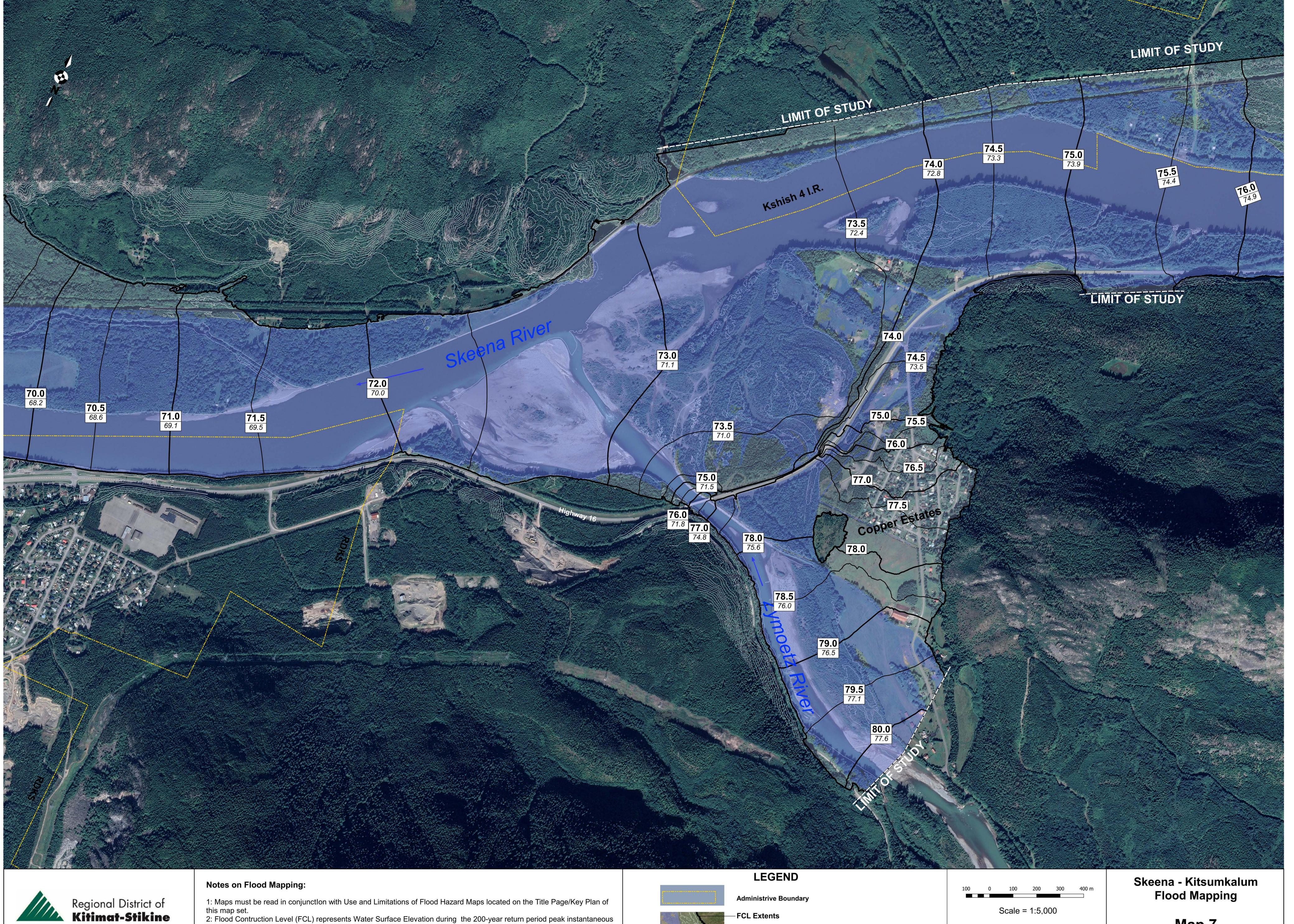
FCL Isoline
Flood Construction Level (FCL) - (See Note 2) 20-yr Retrun Period Water Surface Elevation

Scale = 1:5,000

Date Issued: June 2021

Projection: UTM Zone 9N Datum: NAD83

Map 6 - Thornhill



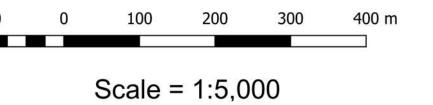


- 1: Maps must be read in conjunction with Use and Limitations of Flood Hazard Maps located on the Title Page/Key Plan of this map set.
- 2: Flood Contruction Level (FCL) represents Water Surface Elevation during the 200-year return period peak instantaneous flow with 10% added to account for the effects of Climate Change to the year 2080. The FCL includes a 0.3 m freeboard allowance.

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—FCL Isoline —20-yr Flood Extents (Blue Shading)

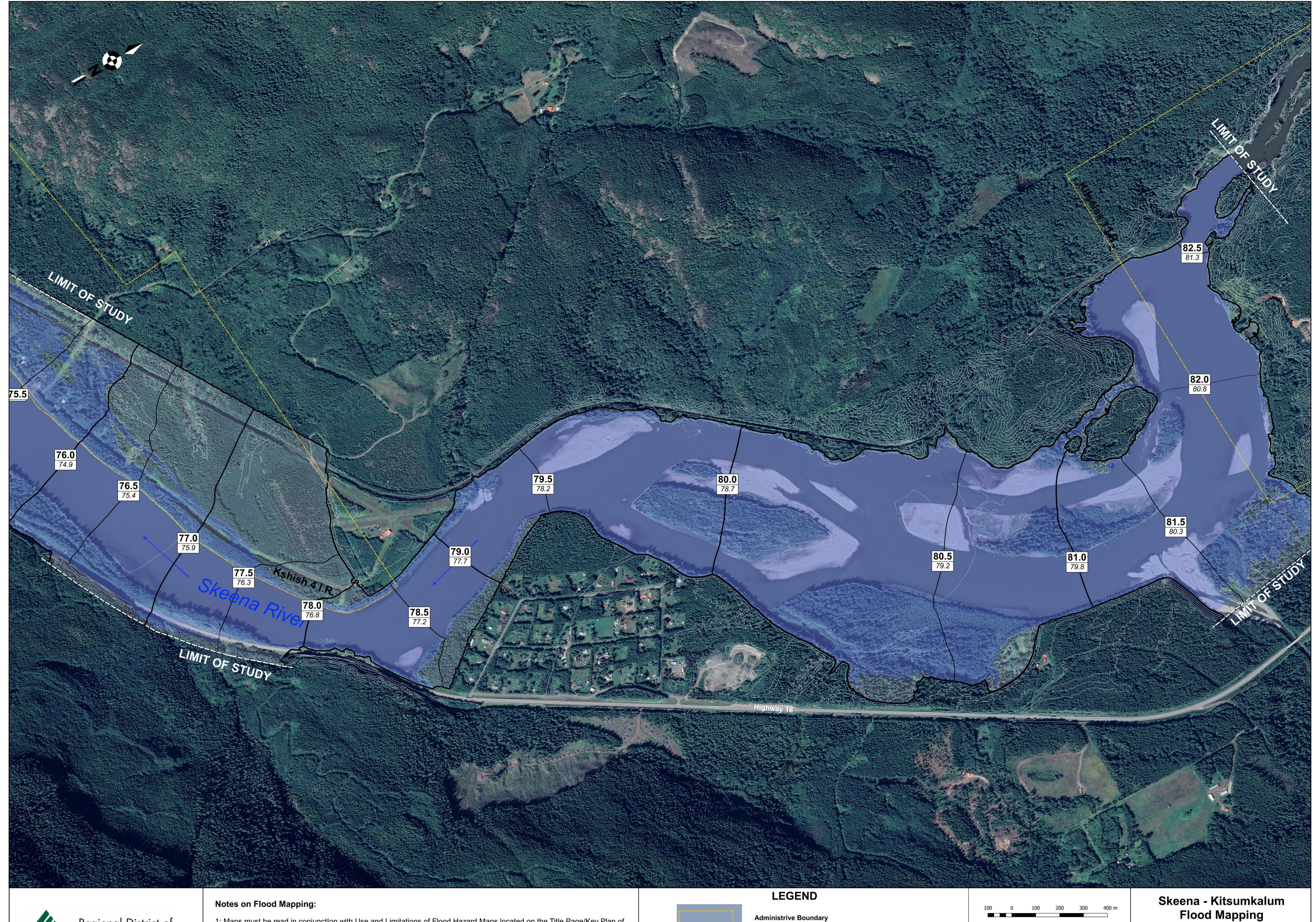
FCL Isoline
Flood Construction Level (FCL) - (See Note 2) 20-yr Retrun Period Water Surface Elevation



Projection: UTM Zone 9N Datum: NAD83

Date Issued: June 2021

Map 7 **Zymoetz River**





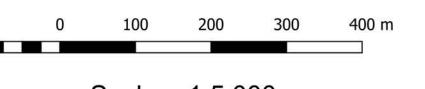


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—FCL Isoline —20-yr Flood Extents (Blue Shading)

FCL Isoline
Flood Construction Level (FCL) - (See Note 2) 20-yr Retrun Period Water Surface Elevation



Scale = 1:5,000

Date Issued: June 2021

Projection: UTM Zone 9N Datum: NAD83

Flood Mapping

Map 8

Kitselas