

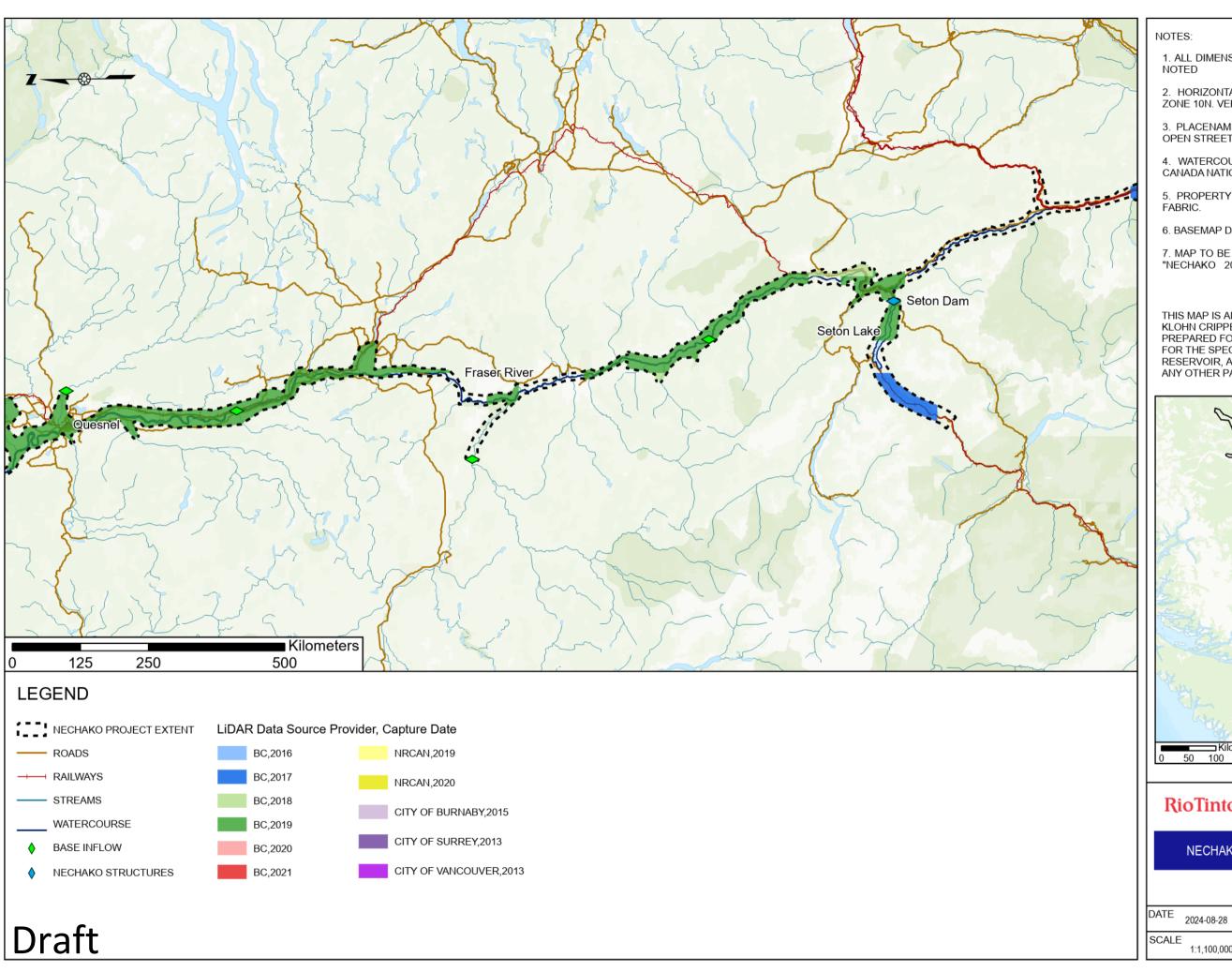
- 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE
- 2. HORIZONTAL PROJECTION AND DATUM: NAD83 UTM ZONE 10N. VERTICAL DATUM: CGVD2013.
- 3. PLACENAME, WATERCOURSE, AND ROAD DATA FROM OPEN STREET MAPS. DOWNLOADED AUGUST 27, 2024.
- 4. WATERCOURSE DATA FROM NATIONAL RESOURCES CANADA NATIONAL HYDROGRAPHIC NETWORK.
- 5. PROPERTY DATA FROM BC INTEGRATED CADASTRAL
- 7. MAP TO BE READ IN CONJUNCTION WITH KCB REPORT "NECHAKO 2024 DAM BREACH ASSESSMENT"

THIS MAP IS AN INSTRUMENT OF SERVICE OF KLOHN CRIPPEN BERGER (KCB). THE MAP HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF RIO TINTO (RTA) FOR THE SPECIFIC APPLICATION TO THE NECHAKO RESERVOIR. AND IT MAY NOT BE RELIED UPON BY ANY OTHER PARTY WITHOUT KCB'S WRITTEN CONSENT.









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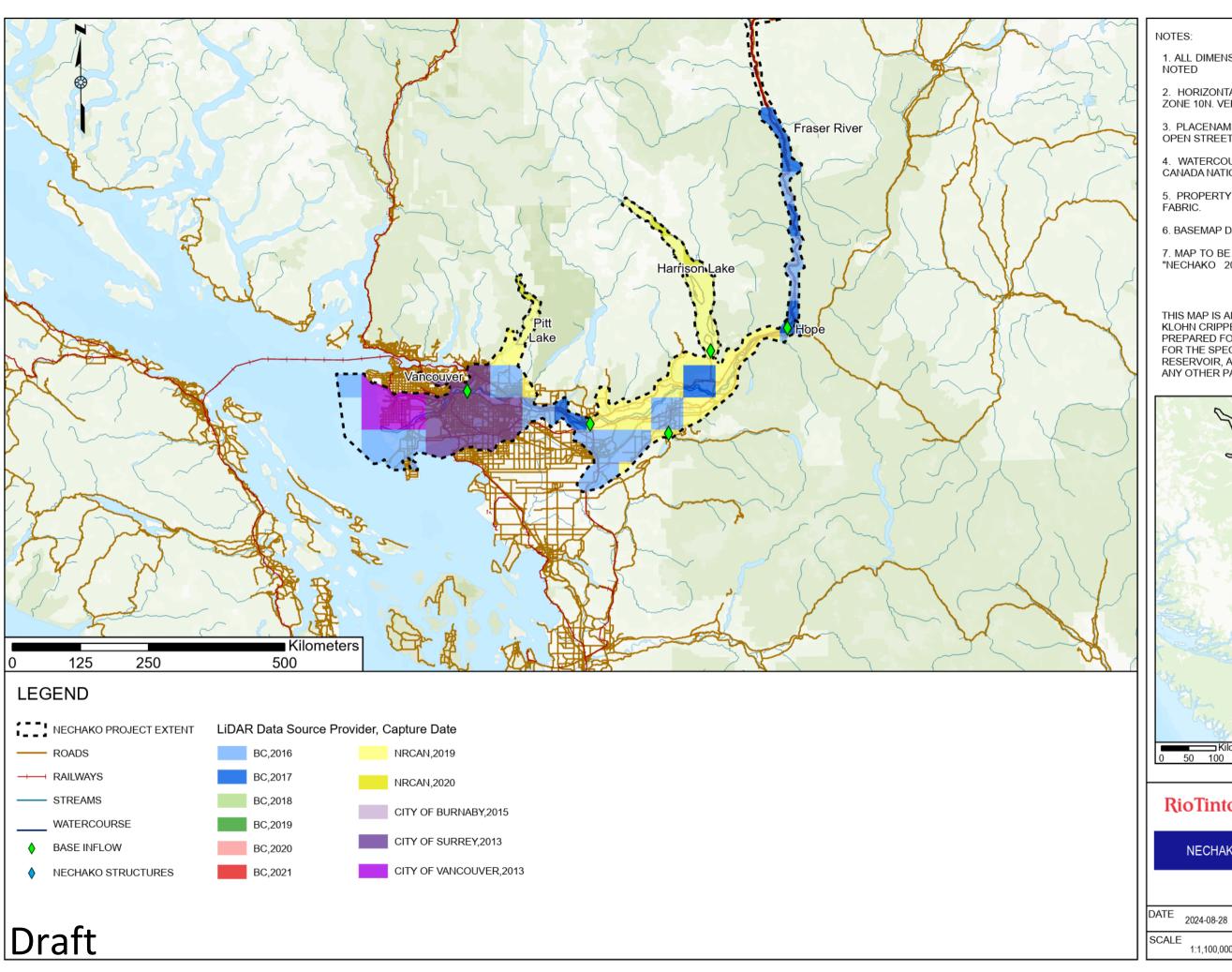


NECHAKO 2024 DAM BREACH ASSESSMENT

SITE OVERVIEW

PROJECT No. 1:1,100,000

01-2 P10436A04



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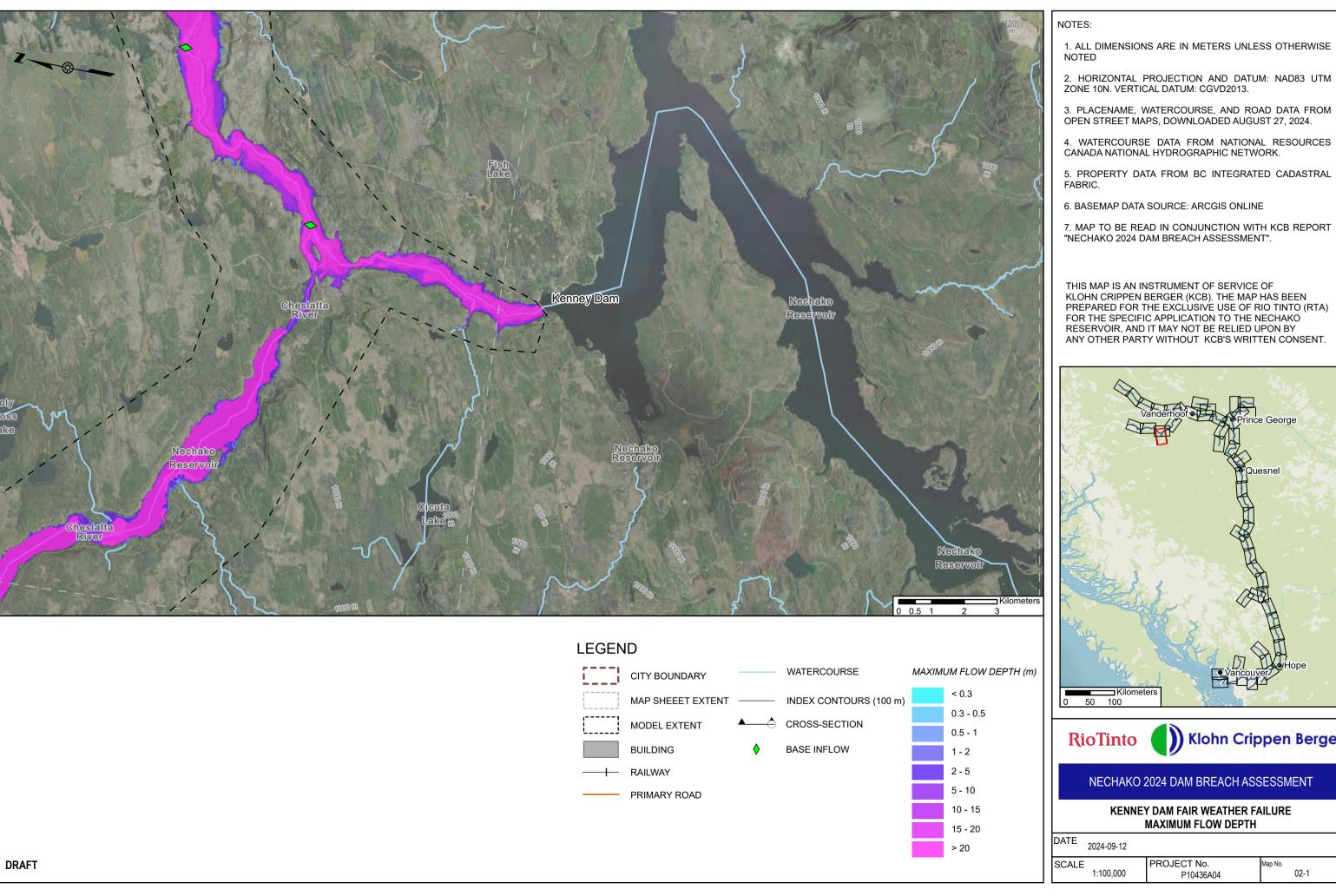




NECHAKO 2024 DAM BREACH ASSESSMENT

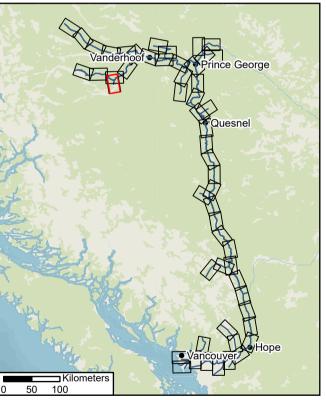
SITE OVERVIEW

PROJECT No. 1:1,100,000 P10436A04



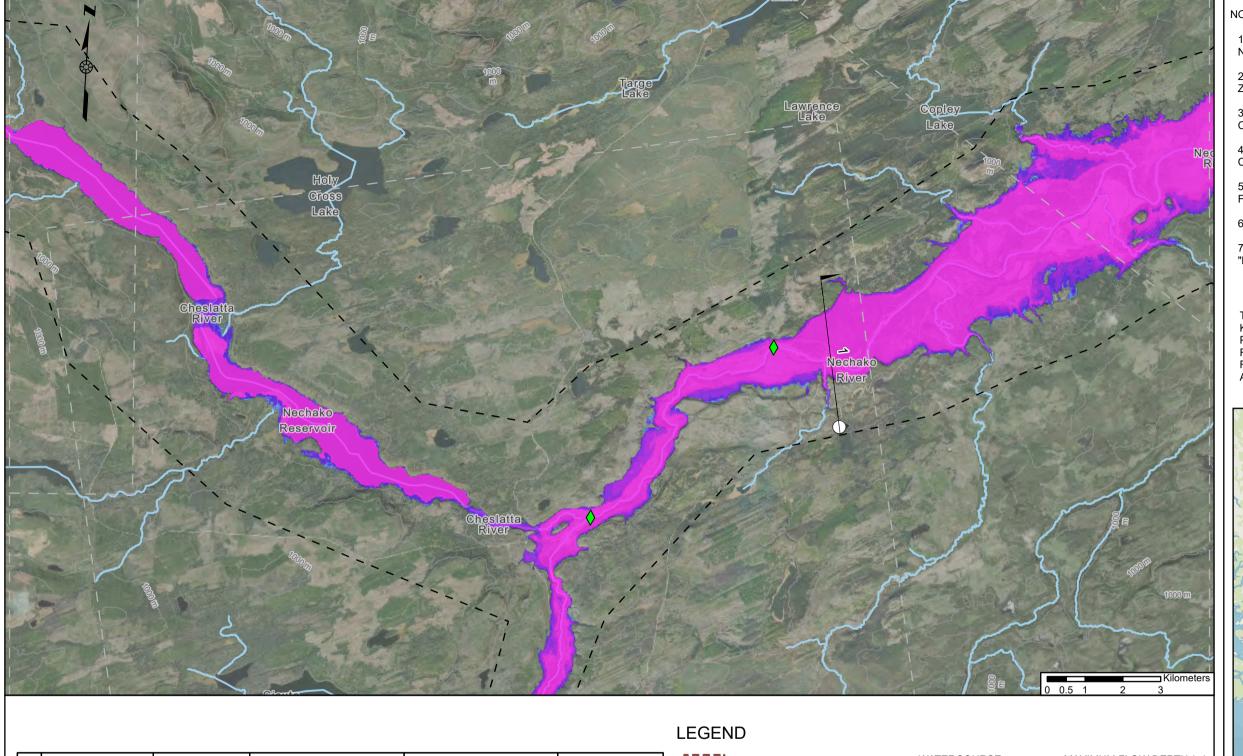
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KENNEY DAM FAIR WEATHER FAILURE **MAXIMUM FLOW DEPTH**



ID	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)		CITY BOUNDARY		WATERCOURSE	MAXIMU	JM FLOW DEPTH (m)
1	758.4	117120	0d 01:10	0d 03:00	4	,i					< 0.3
						<u> </u>	MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		0.3 - 0.5
							MODEL EXTENT	lack	CROSS-SECTION		0.5 - 1
							DI III DINC	A	BASE INFLOW		
							BUILDING	•	BASE INFLOW		1 - 2
						—	RAILWAY				2 - 5
							PRIMARY ROAD				5 - 10
											10 - 15
											15 - 20
											> 20
DRA	FT										

NOTES:

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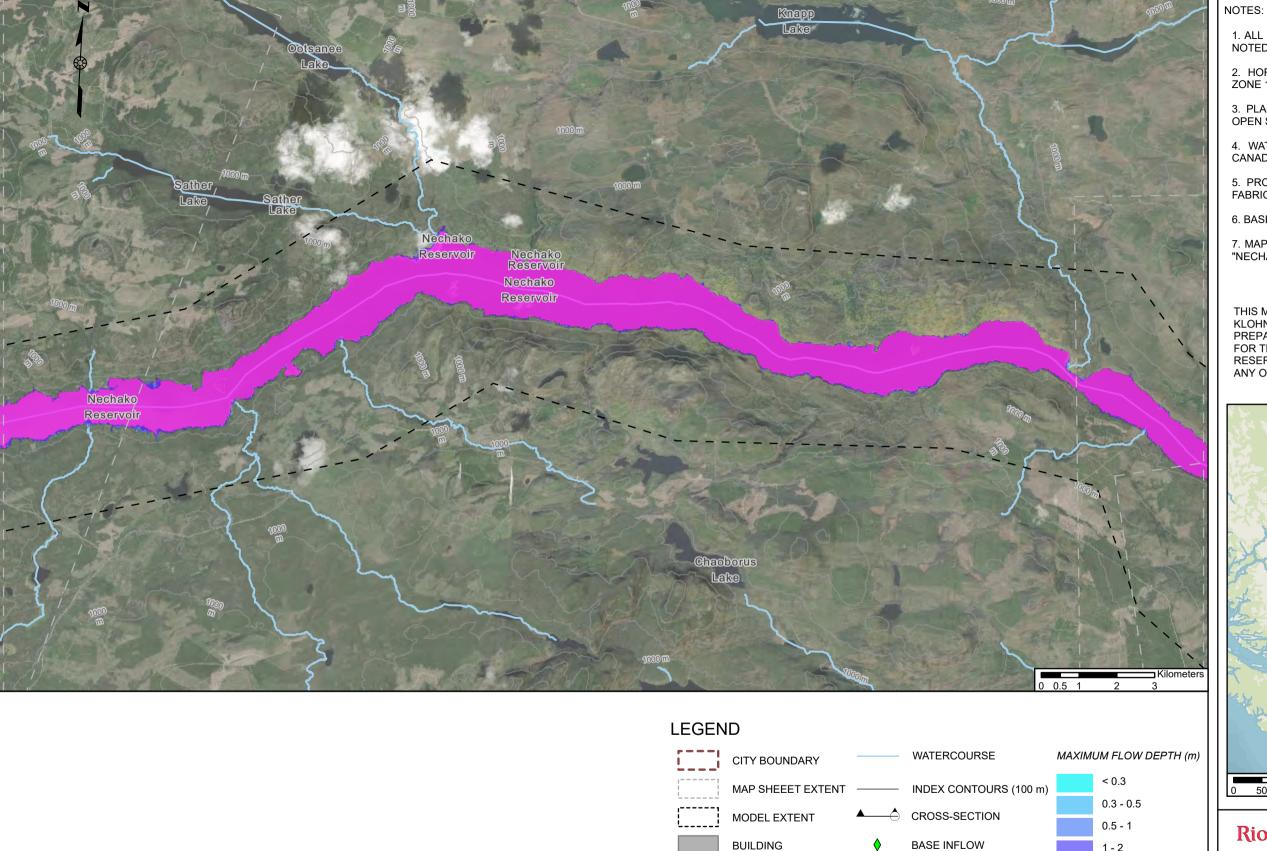




NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

SCALE PROJECT No. Map No. 02-2

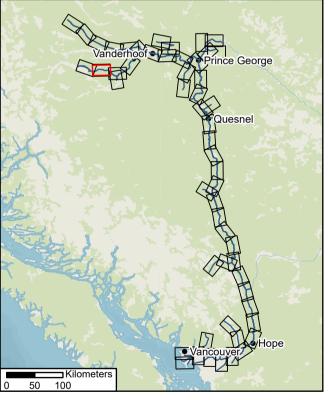


RAILWAY

PRIMARY ROAD

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NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE **MAXIMUM FLOW DEPTH**

02-3

DATE 2024-09-12

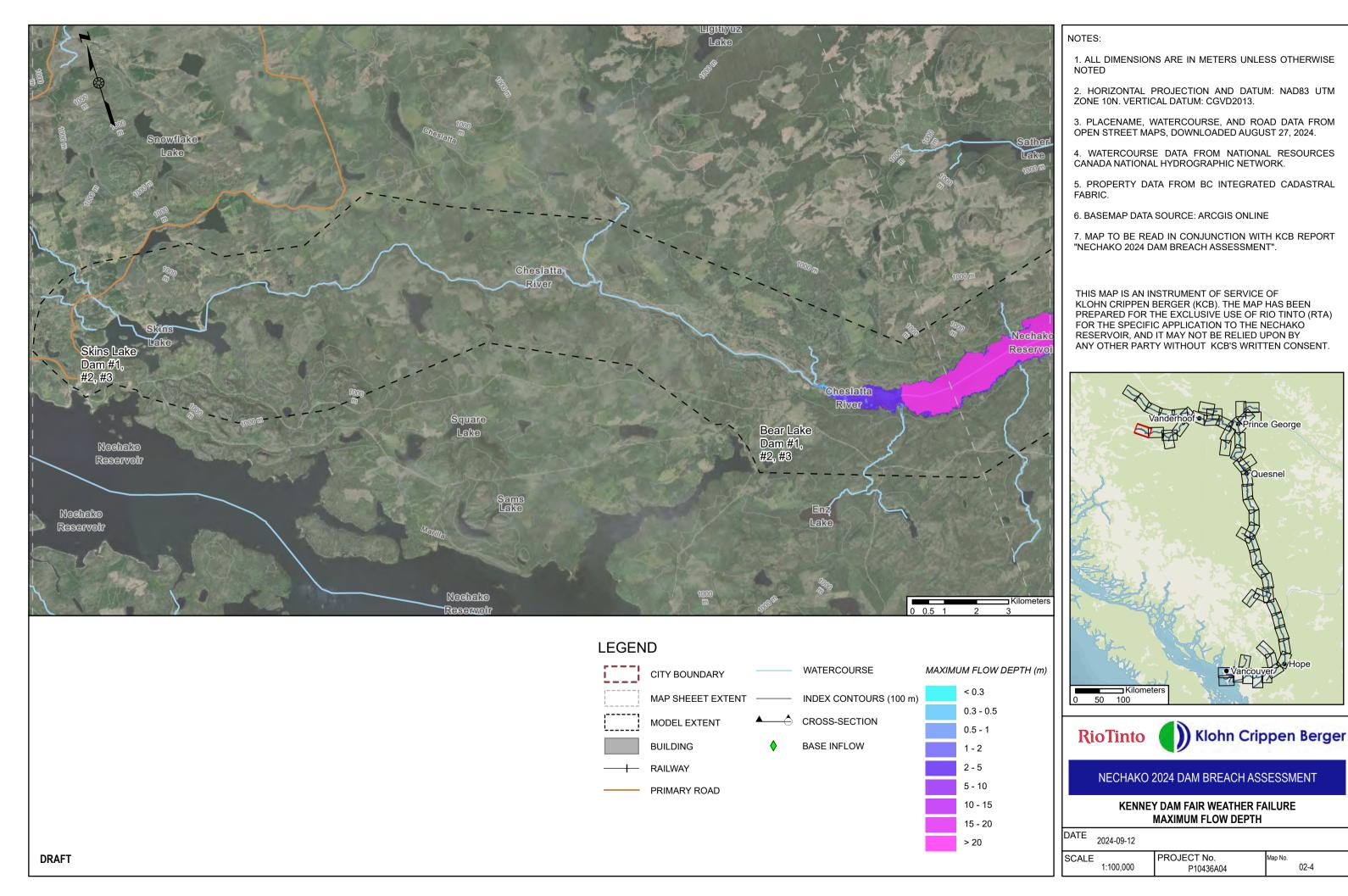
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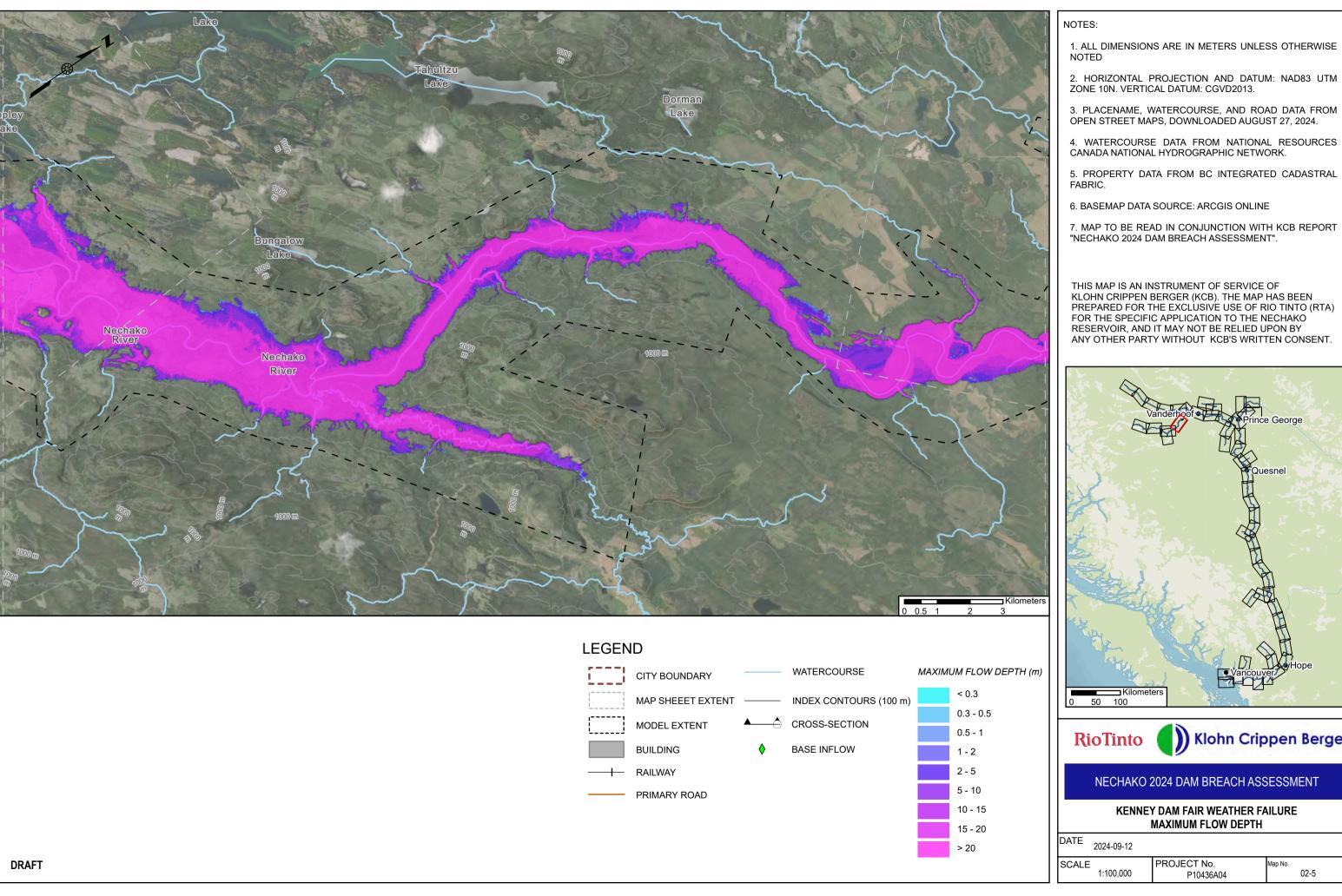
10 - 15

15 - 20

> 20

SCALE PROJECT No. 1:100,000 P10436A04



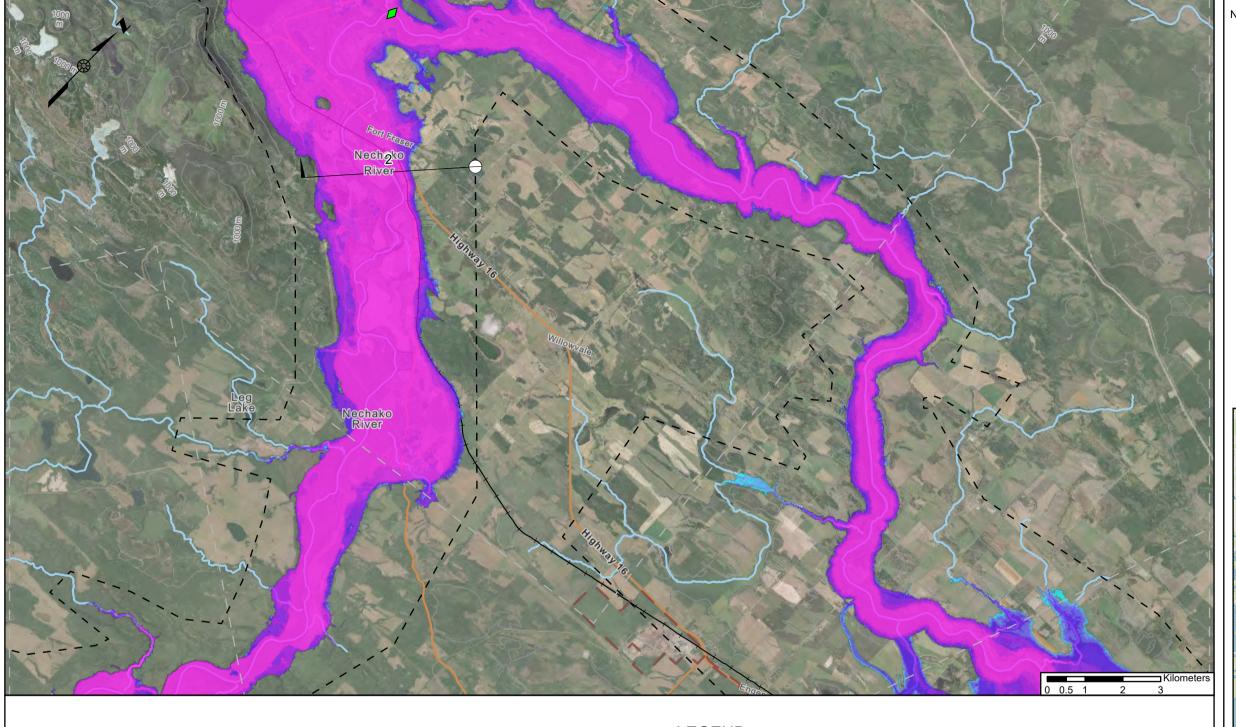


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- 5. PROPERTY DATA FROM BC INTEGRATED CADASTRAL

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ID	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)	CITY BOUNDARY		WATERCOURSE	MAXIML	JM FLOW DEPTH (m)
2	712.1	92200	0d 6:30	0d 15:50	13	 				< 0.3
						 MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		0.3 - 0.5
						MODEL EXTENT	lack	CROSS-SECTION		
						DI III DING	A	BASE INFLOW		0.5 - 1
						BUILDING	•	DASE INFLOW		1 - 2
						 RAILWAY				2 - 5
						 PRIMARY ROAD				5 - 10
										10 - 15
										15 - 20
										> 20
DRA	FT									

NOTES:

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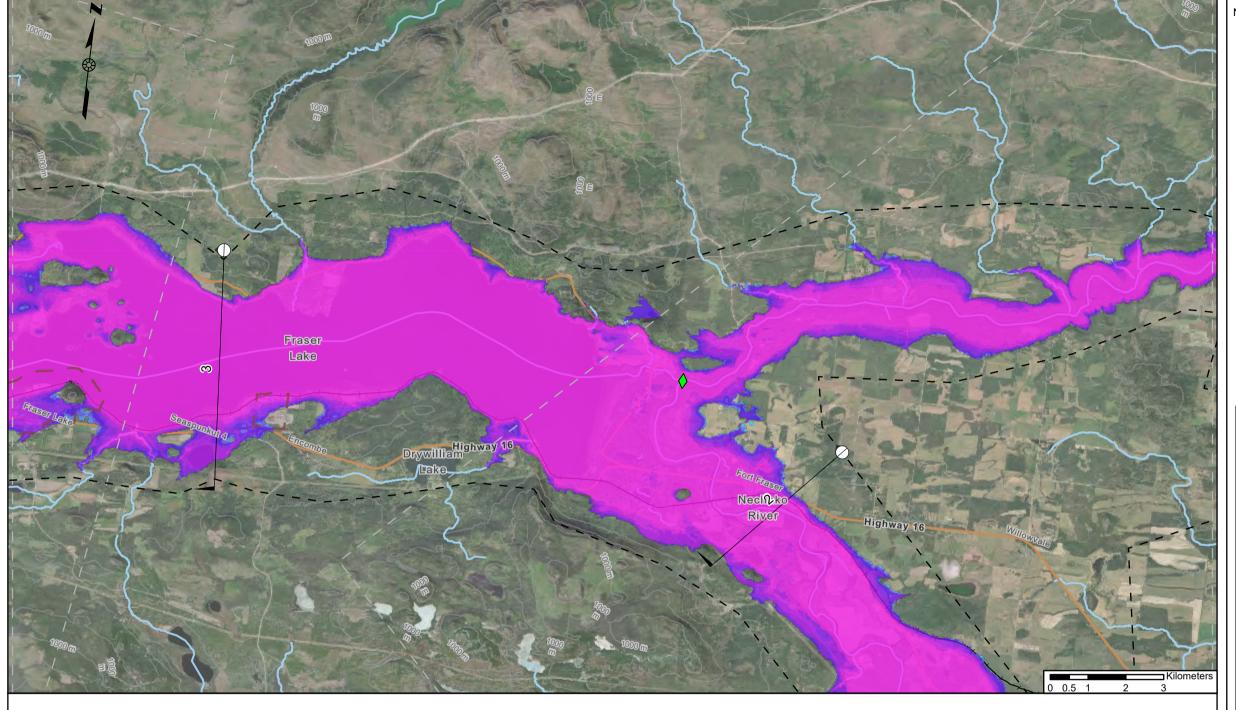




NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

SCALE 1:100,000 PROJECT No. P10436A04 Map No. 02-6



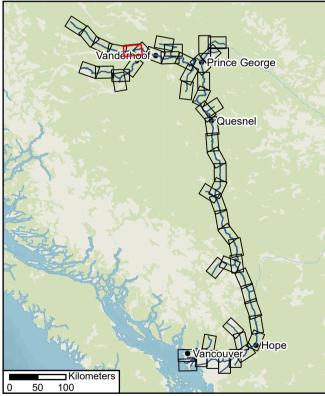
ID	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)		CITY BOUNDARY		WATERCOURSE	MAXIM	IUM FLOW DEPTH (m)
2	712.1	92200	0d 6:30	0d 15:50	13						< 0.3
3	711.9	40050	0d 7:50	1d 21:30	15		MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		
							MODEL EXTENT	▲	CROSS-SECTION		0.3 - 0.5 0.5 - 1
							BUILDING	♦	BASE INFLOW		1 - 2
						<u> </u>	RAILWAY				2 - 5
							PRIMARY ROAD				5 - 10
											10 - 15
											15 - 20
											> 20

DRAFT

NOTES:

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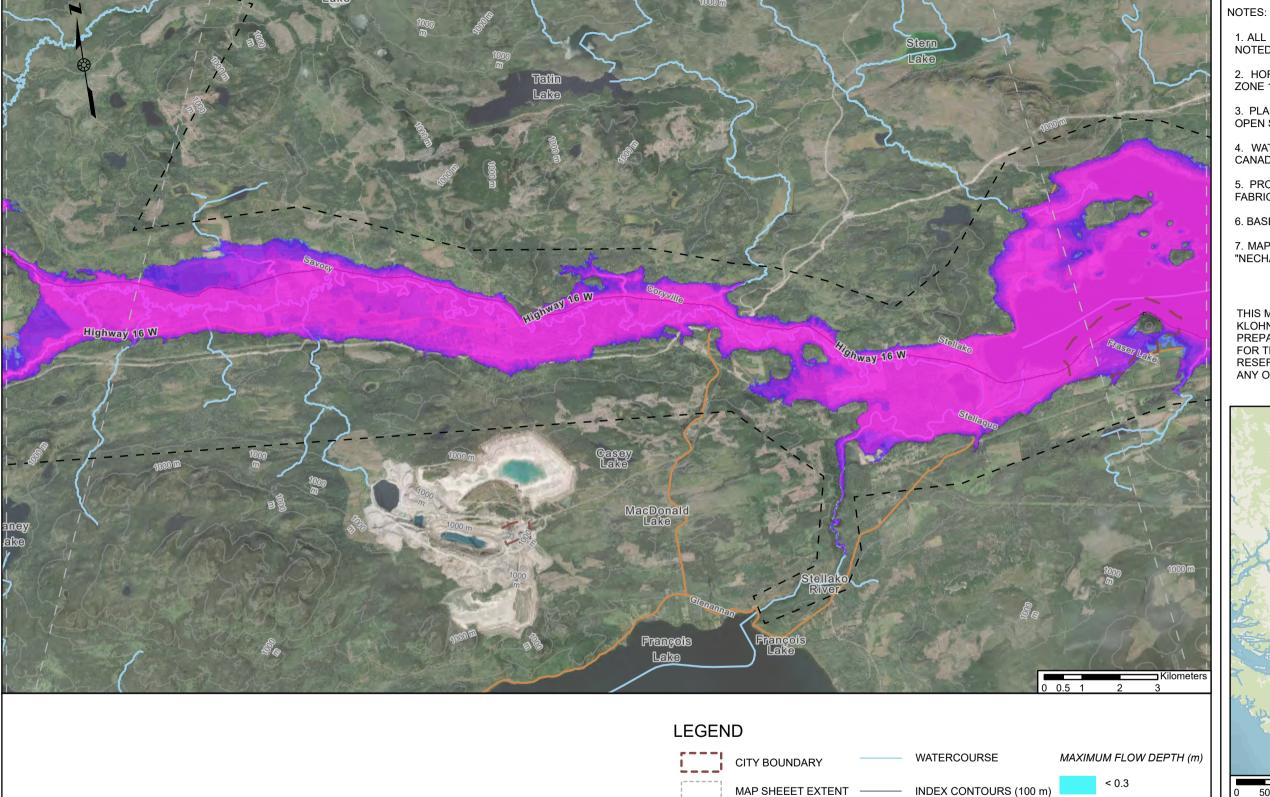


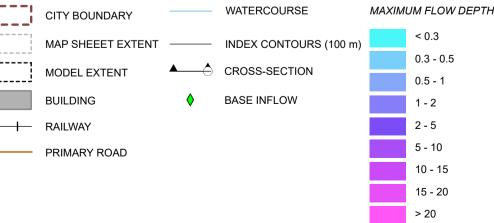
NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

DATE	2024-09-12

SCALE 1:100,000 PROJECT No. P10436A04 Map No. 02-7





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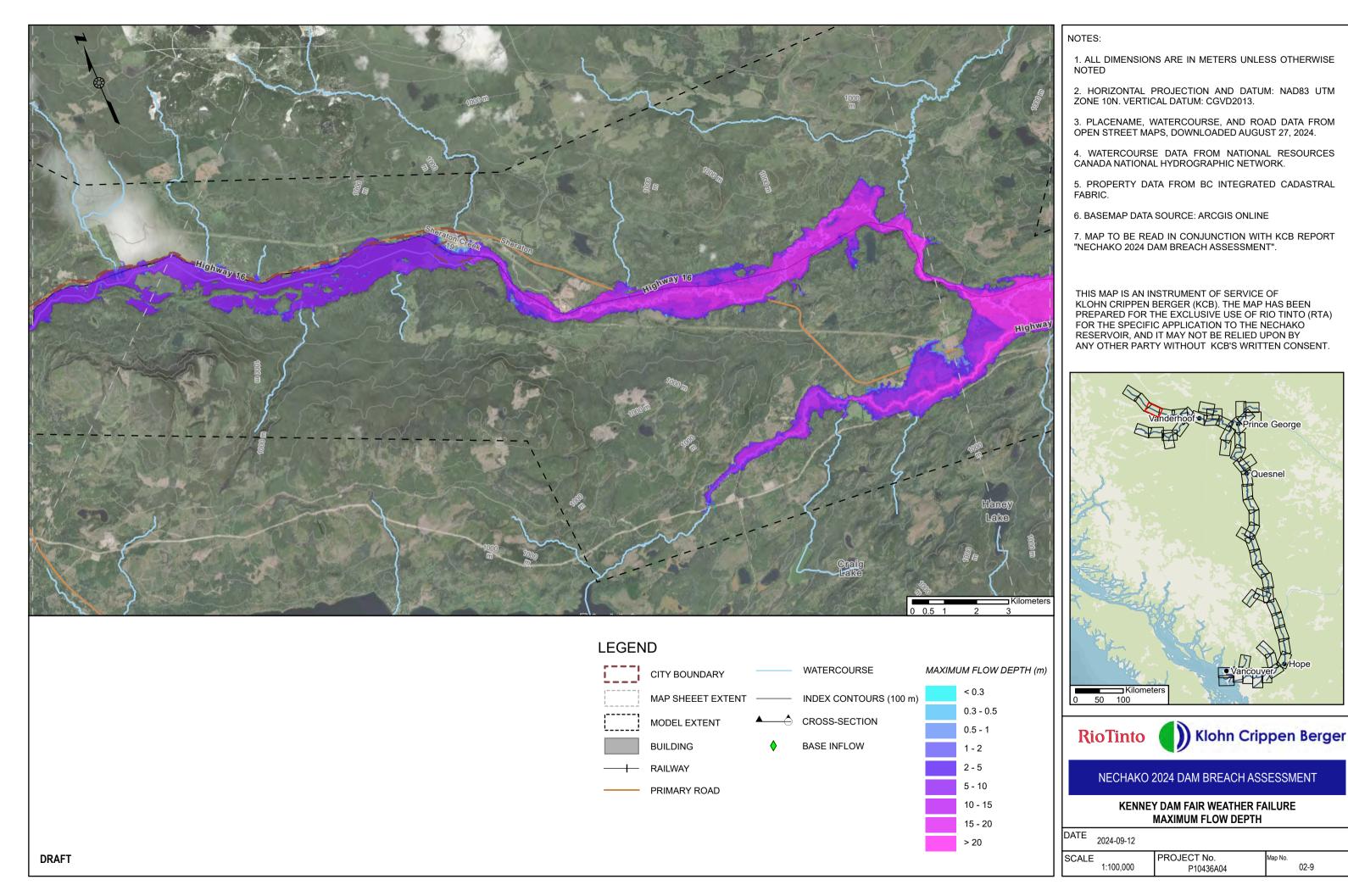


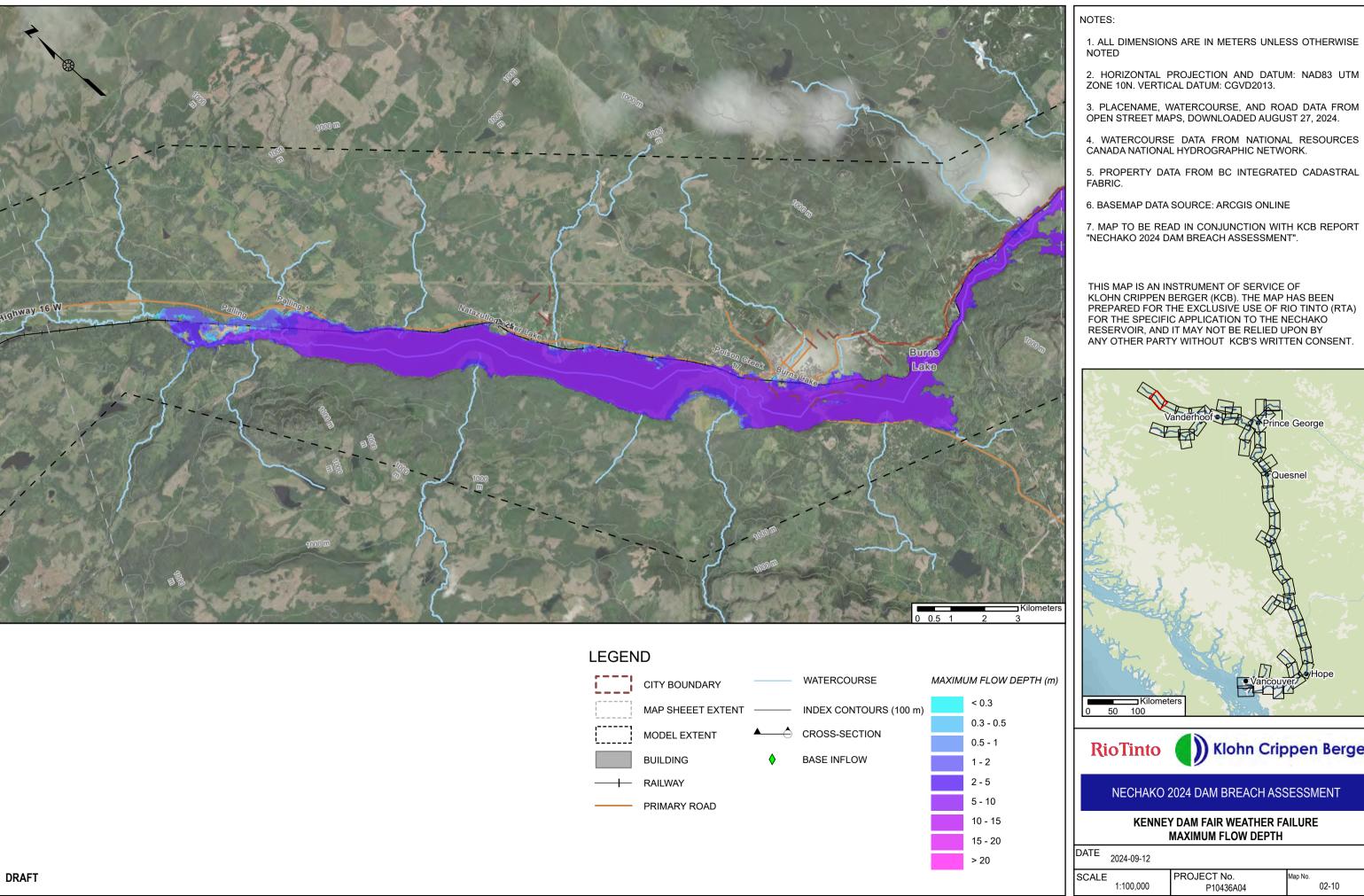
NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE **MAXIMUM FLOW DEPTH**

DATE 2024-09-12

SCALE PROJECT No. 02-8 1:100,000 P10436A04





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- 5. PROPERTY DATA FROM BC INTEGRATED CADASTRAL
- "NECHAKO 2024 DAM BREACH ASSESSMENT".

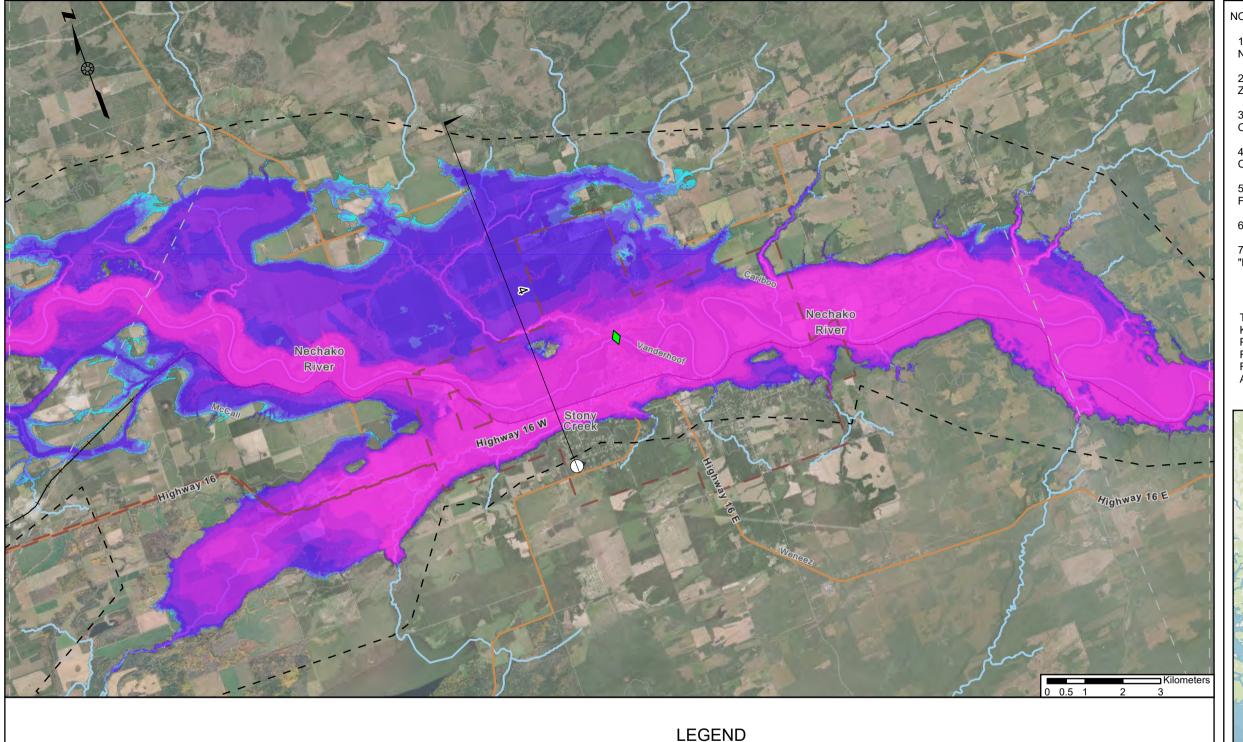
KLOHN CRIPPEN BERGER (KCB). THE MAP HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF RIO TINTO (RTA)
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NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE **MAXIMUM FLOW DEPTH**



ID	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)		CITY BOUNDARY		WATERCOURSE	MAXIM	UM FLOW DEPTH (m)
4	682.9	60810	0d 12:40	2d 08:00	>15						< 0.3
					,		MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		
						1	MODEL EXTENT	\triangle	CROSS-SECTION		0.3 - 0.5
						<u></u>	MODEL EXTERT				0.5 - 1
							BUILDING	♦	BASE INFLOW		1 - 2
							RAILWAY				2 - 5
						•	10 (1217) (1				
							PRIMARY ROAD				5 - 10
											10 - 15
											15 - 20
											> 20
DR/	\FT										

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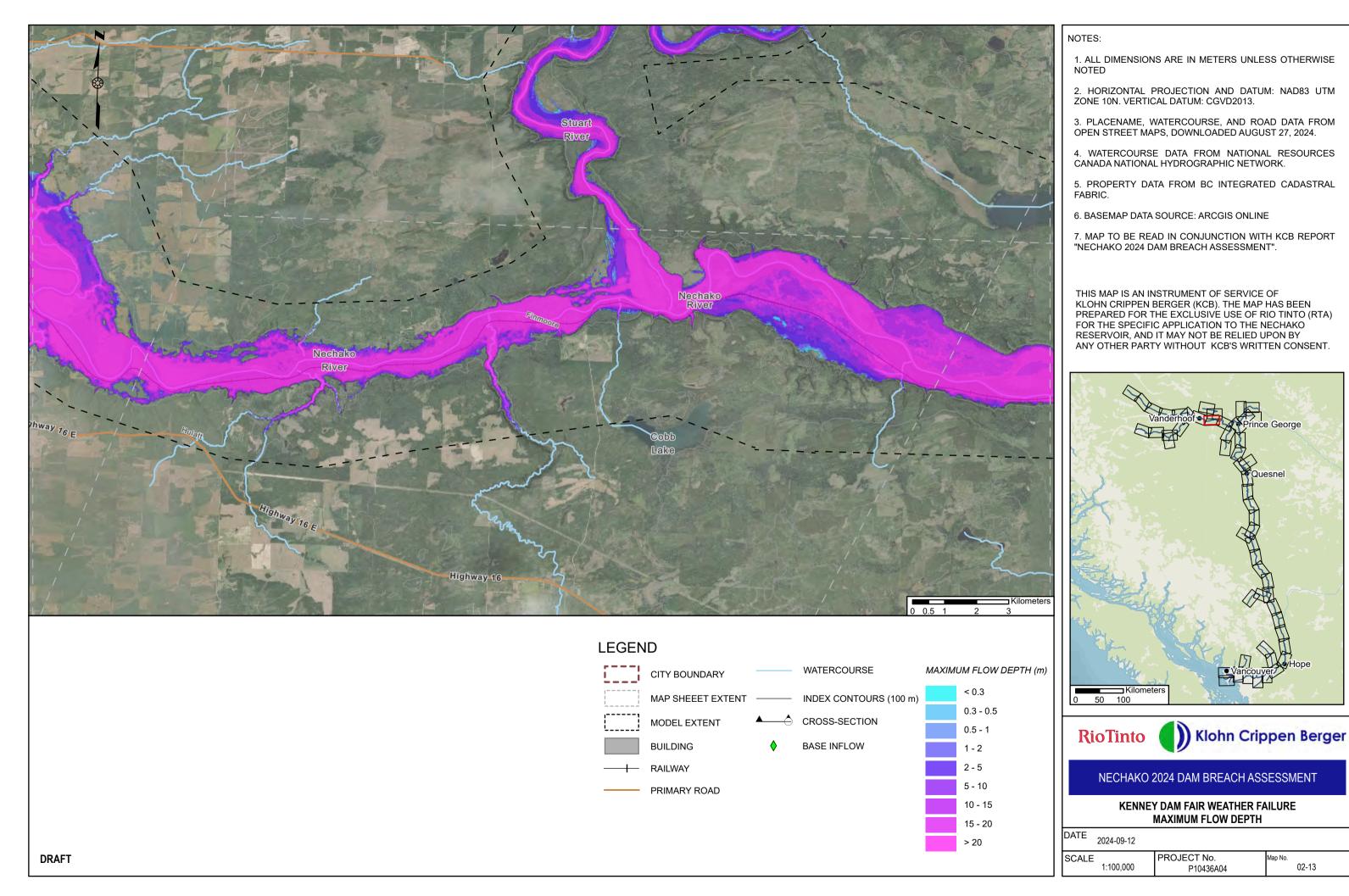


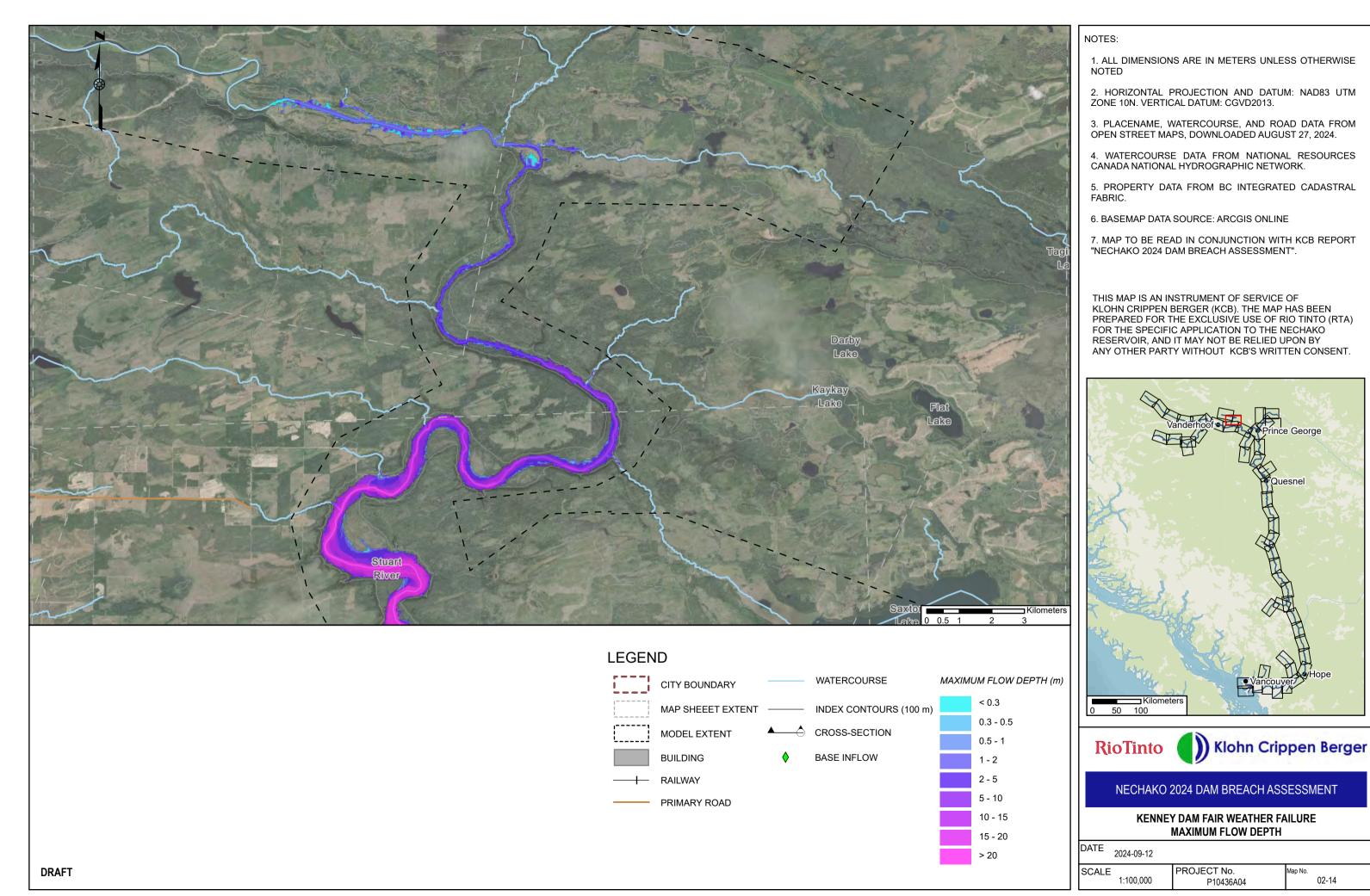
NECHAKO 2024 DAM BREACH ASSESSMENT

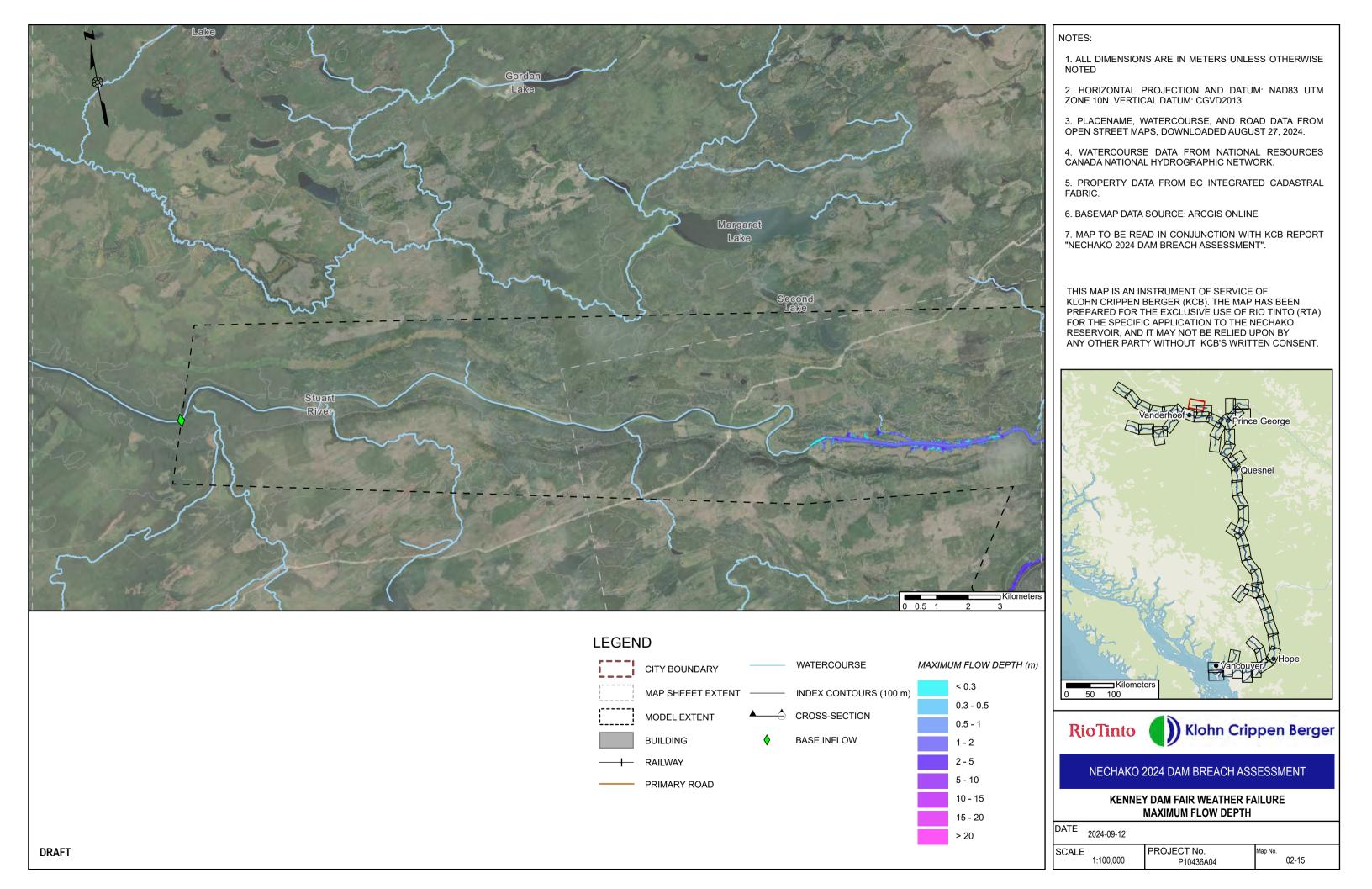
KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

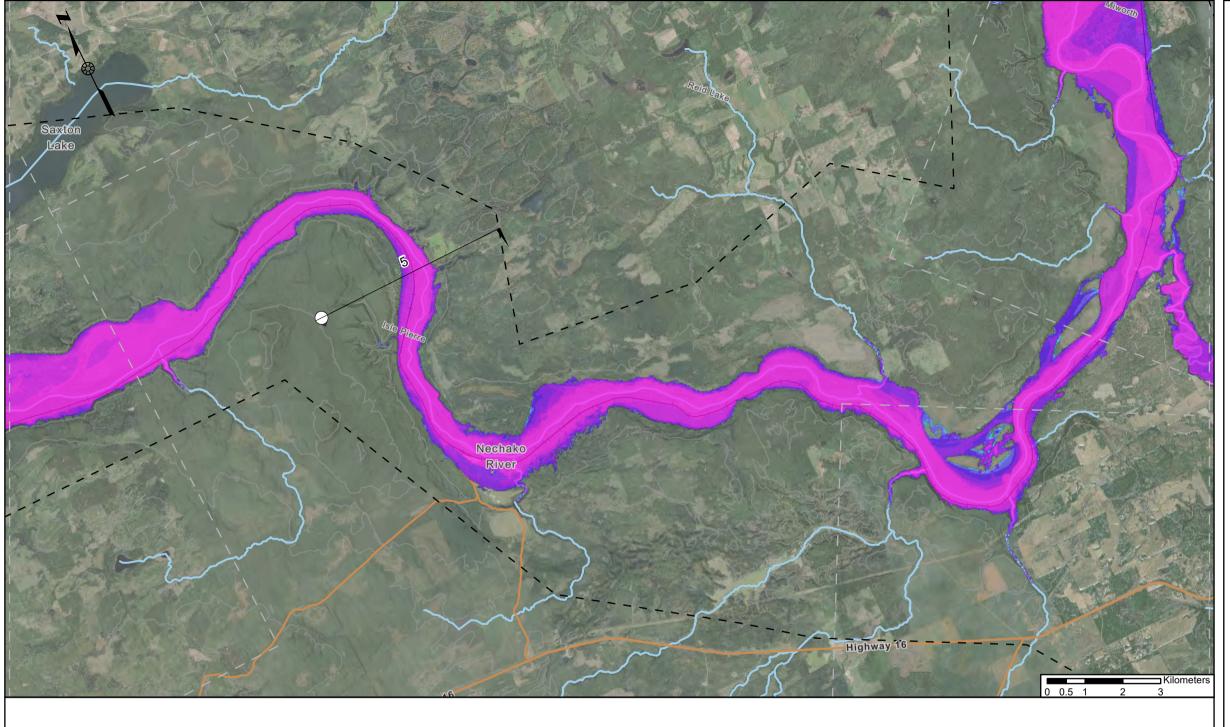
JAIL	2024-09-12

SCALE PROJECT No. P10436A04









ID	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)		CITY BOUNDARY		WATERCOURSE	MAXIM	UM FLOW DEPTH (m)
5	660.9	59080	1d 0:30	2d 22:00	>15						< 0.3
,							MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		
						:;	MODEL EXTENT	^	CROSS-SECTION		0.3 - 0.5
						<u> </u>	WODELEXTENT	0	OROGO GEOTION		0.5 - 1
							BUILDING	♦	BASE INFLOW		1 - 2
						\longrightarrow	RAILWAY				2 - 5
							PRIMARY ROAD				5 - 10
											10 - 15
											15 - 20
											> 20
DRA	AFT										

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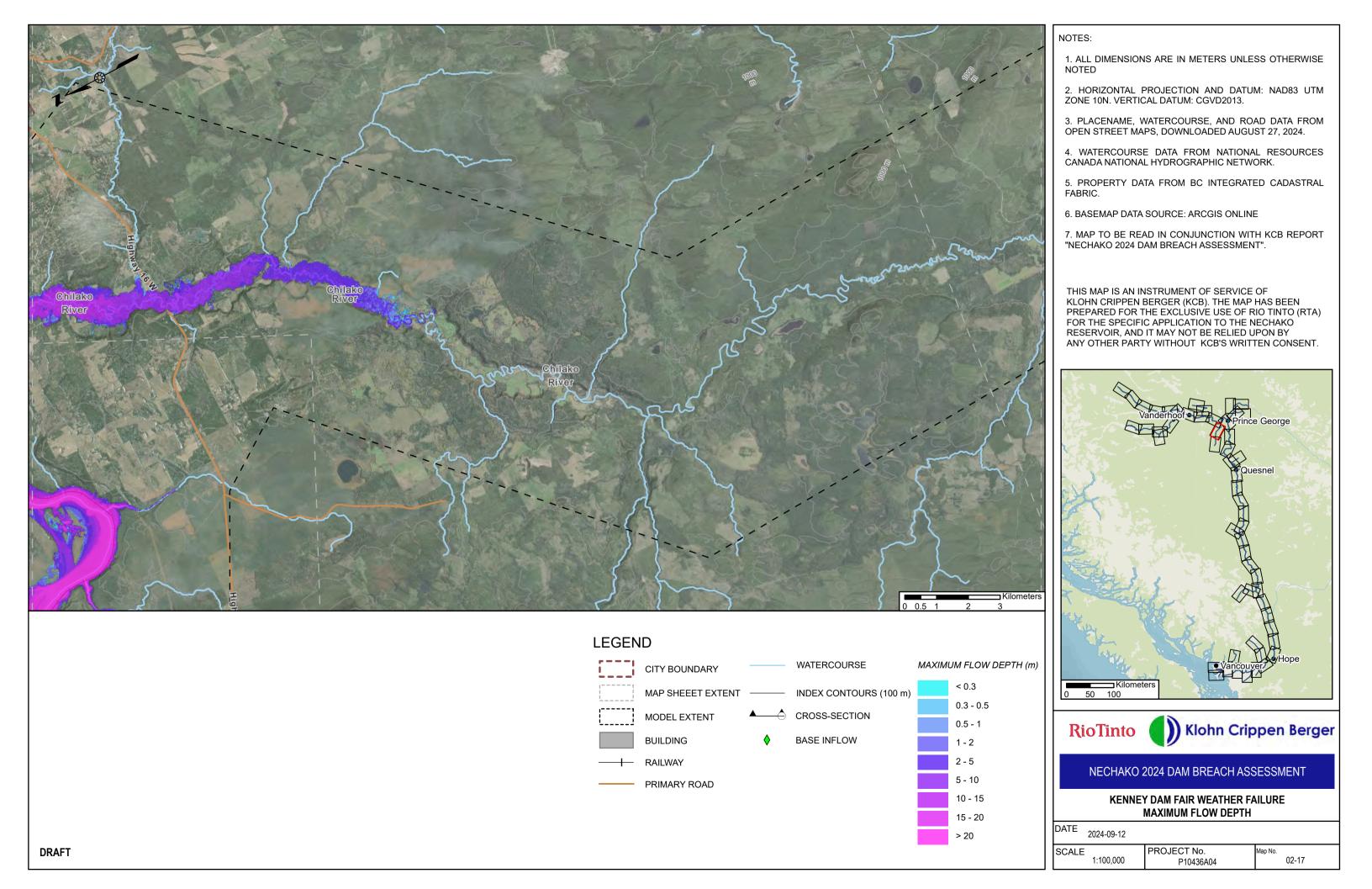
NECHAKO 2024 DAM BREACH ASSESSMENT

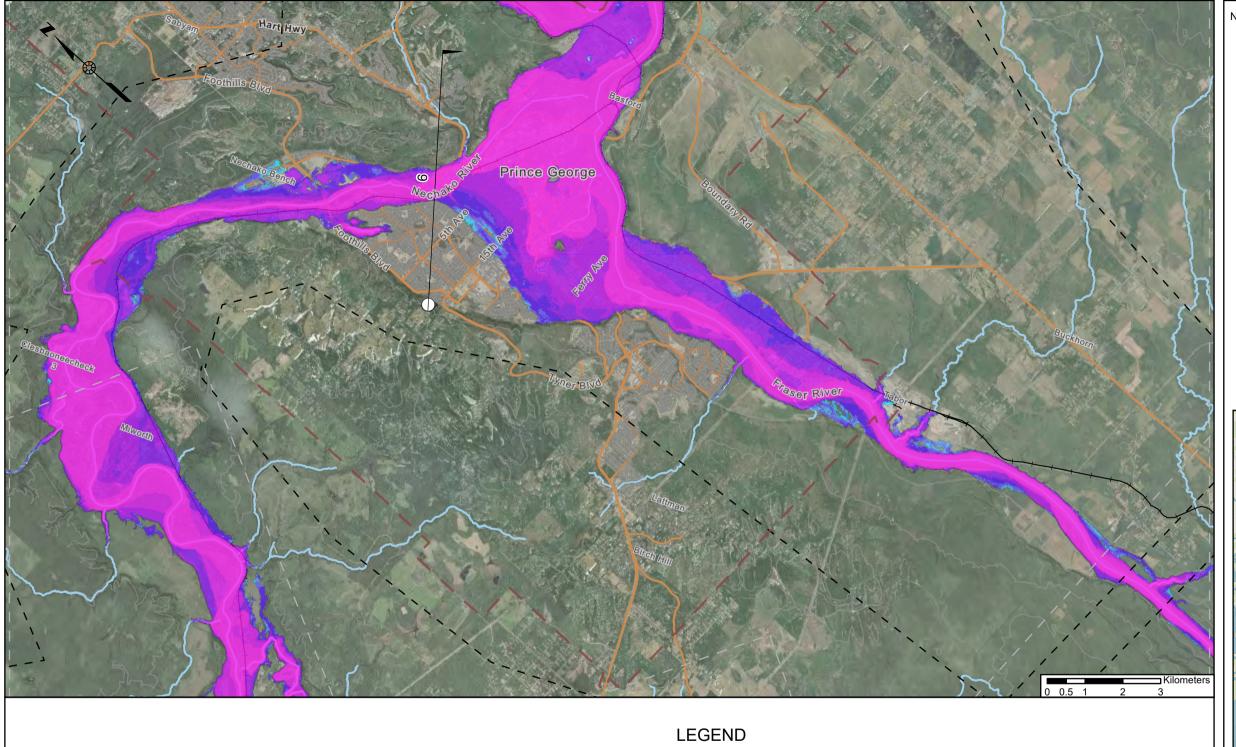
KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

DATE	2024-09-12	

SCALE PROJECT No. P10436A04

Map No. 02-16



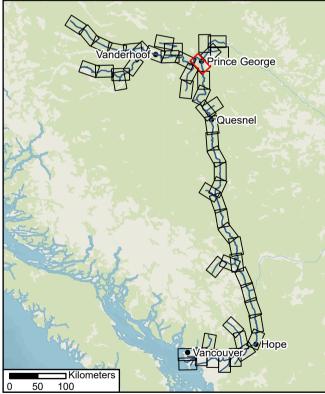


ID	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)		CITY BOUNDARY		WATERCOURSE	MAXIMU	JM FLOW DEPTH (m)
6	601.7	58660	1d 9:20	3d 03:50	>15						< 0.3
							MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		0.3 - 0.5
							MODEL EXTENT	▲	CROSS-SECTION		0.5 - 1
							BUILDING	A	BASE INFLOW		1
							BUILDING	•	DAGE INFLOW		1 - 2
						——	RAILWAY				2 - 5
							PRIMARY ROAD				5 - 10
											10 - 15
											15 - 20
											> 20
DR	AFT										

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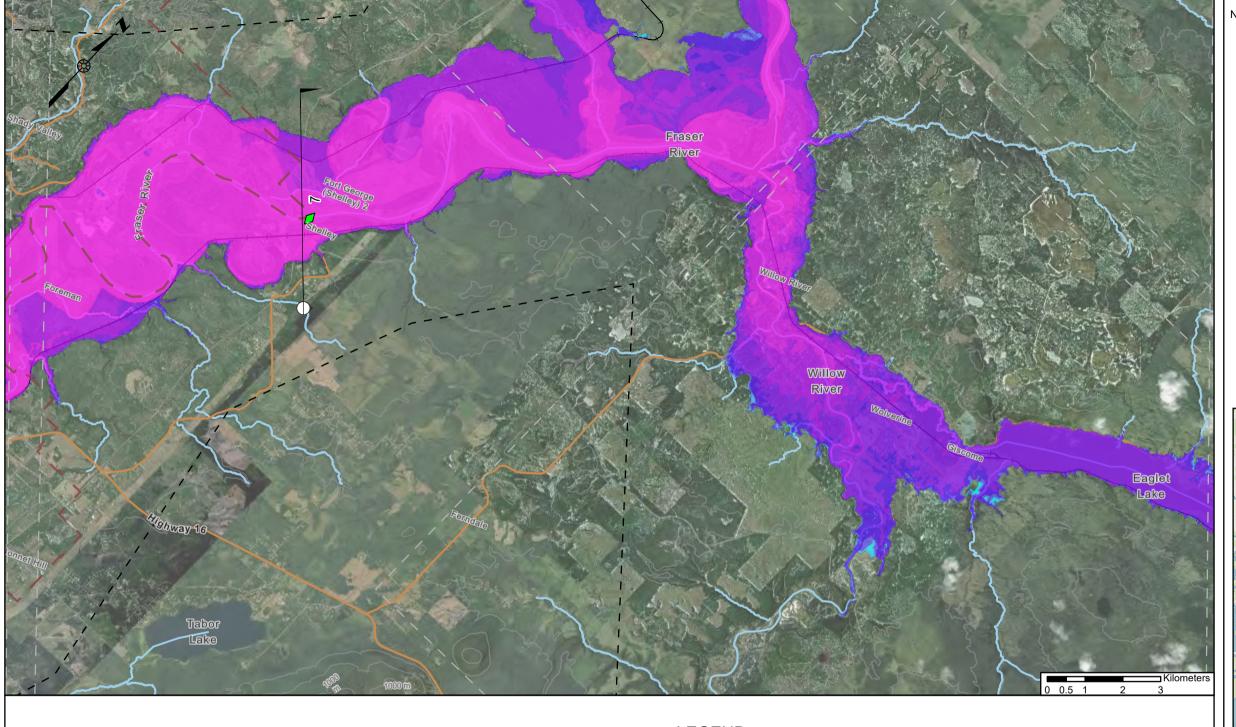


NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

DATE	2024-09-12

CALE	PROJECT No.	Map No.
1:100,000	P10436A04	02-19



ID	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)	[]	CITY BOUNDARY		WATERCOURSE	MAXIM	UM FLOW DEPTH (m)
7	601.3	11390	1d 18:10	2d 15:20	>15						< 0.3
							MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		
							MODEL EXTENT	A	CROSS-SECTION		0.3 - 0.5
						<u> </u>	MODELEXIENT				0.5 - 1
							BUILDING	♦	BASE INFLOW		1 - 2
							RAILWAY				2 - 5
						•					
							PRIMARY ROAD				5 - 10
											10 - 15
											15 - 20
											> 20
DR	NFT										

NOTES:

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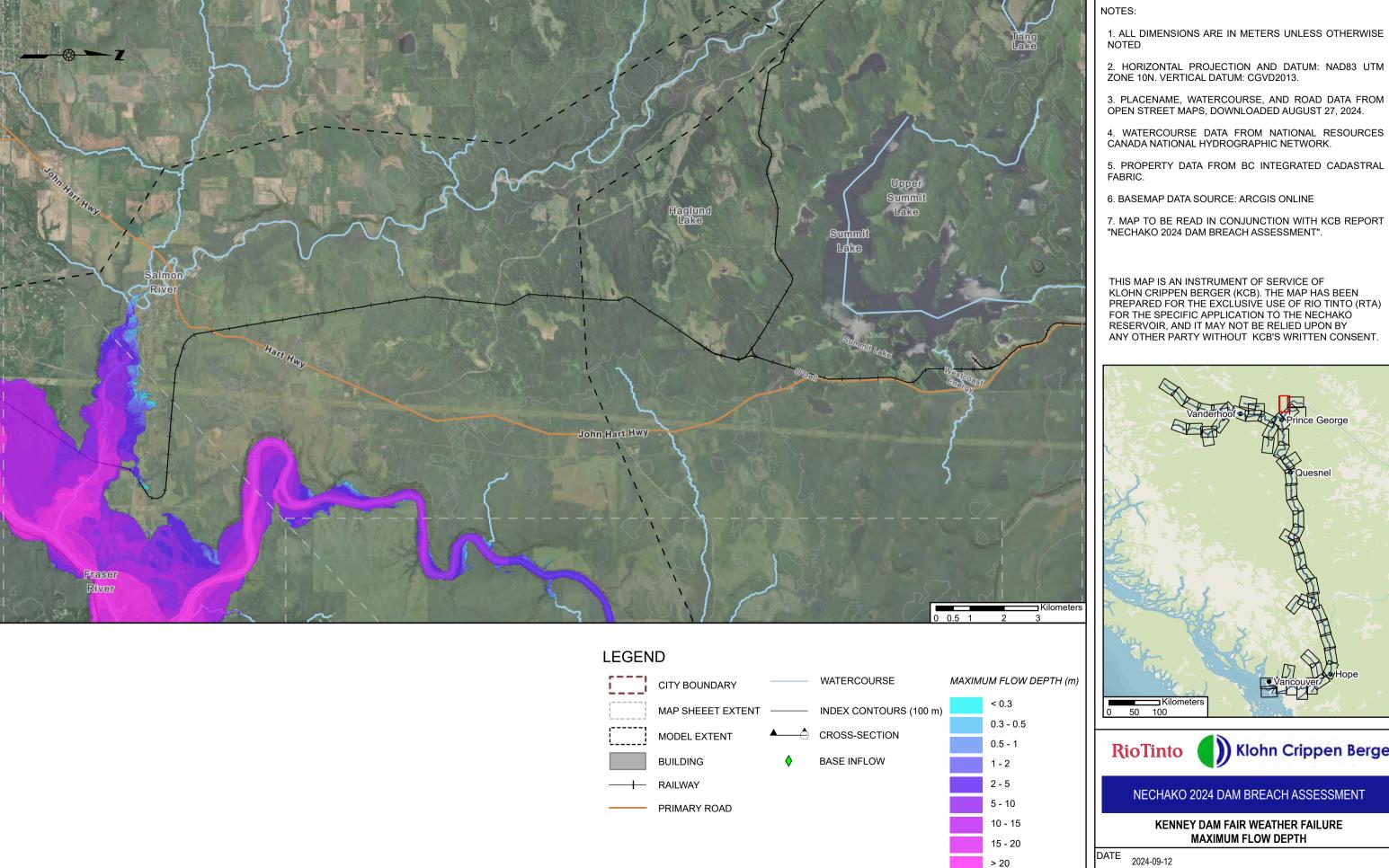
NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

DATE	2024-09-12
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SCALE

PROJECT No. Map No. P10436A04 02-20



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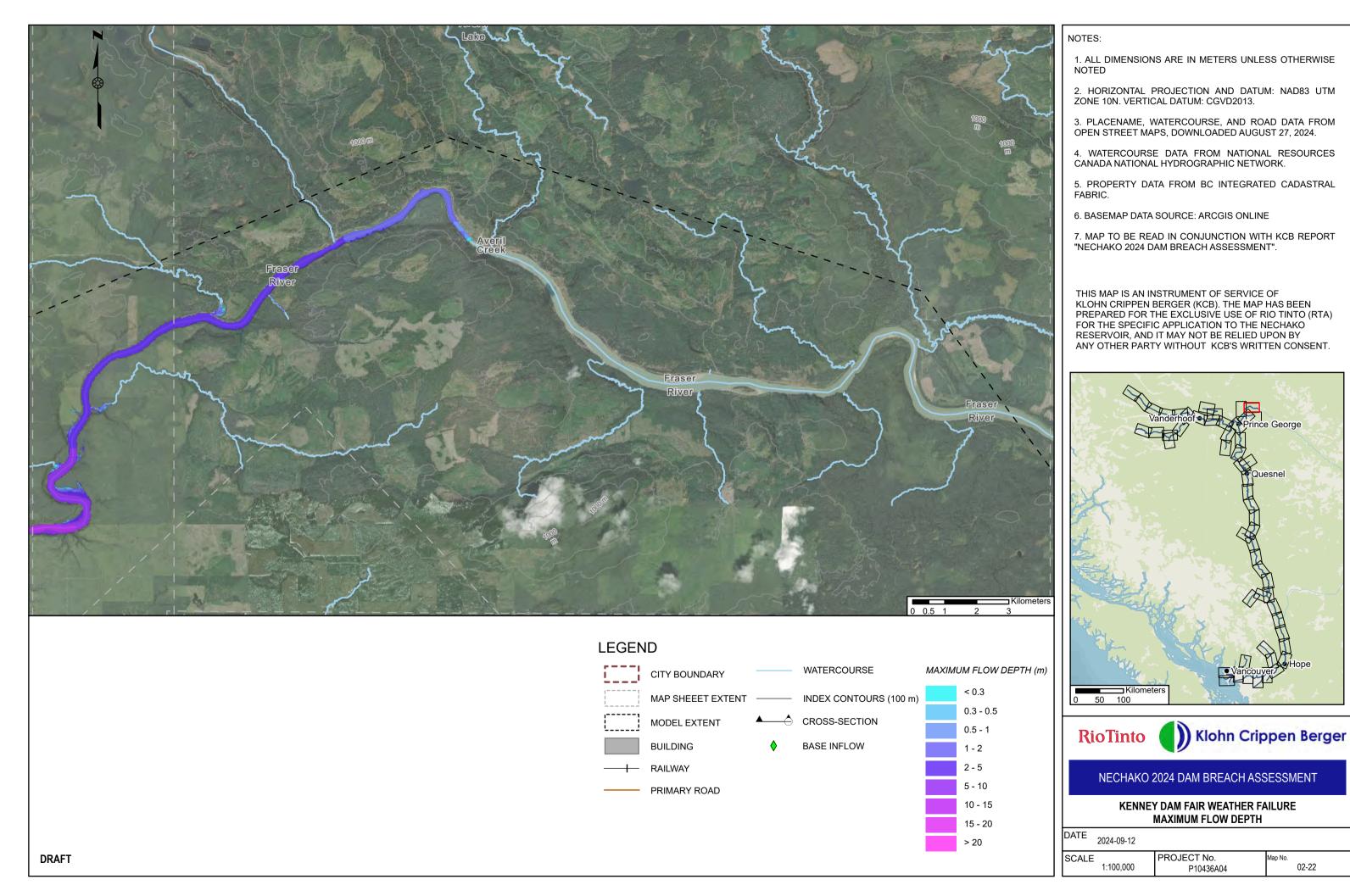
NECHAKO 2024 DAM BREACH ASSESSMENT

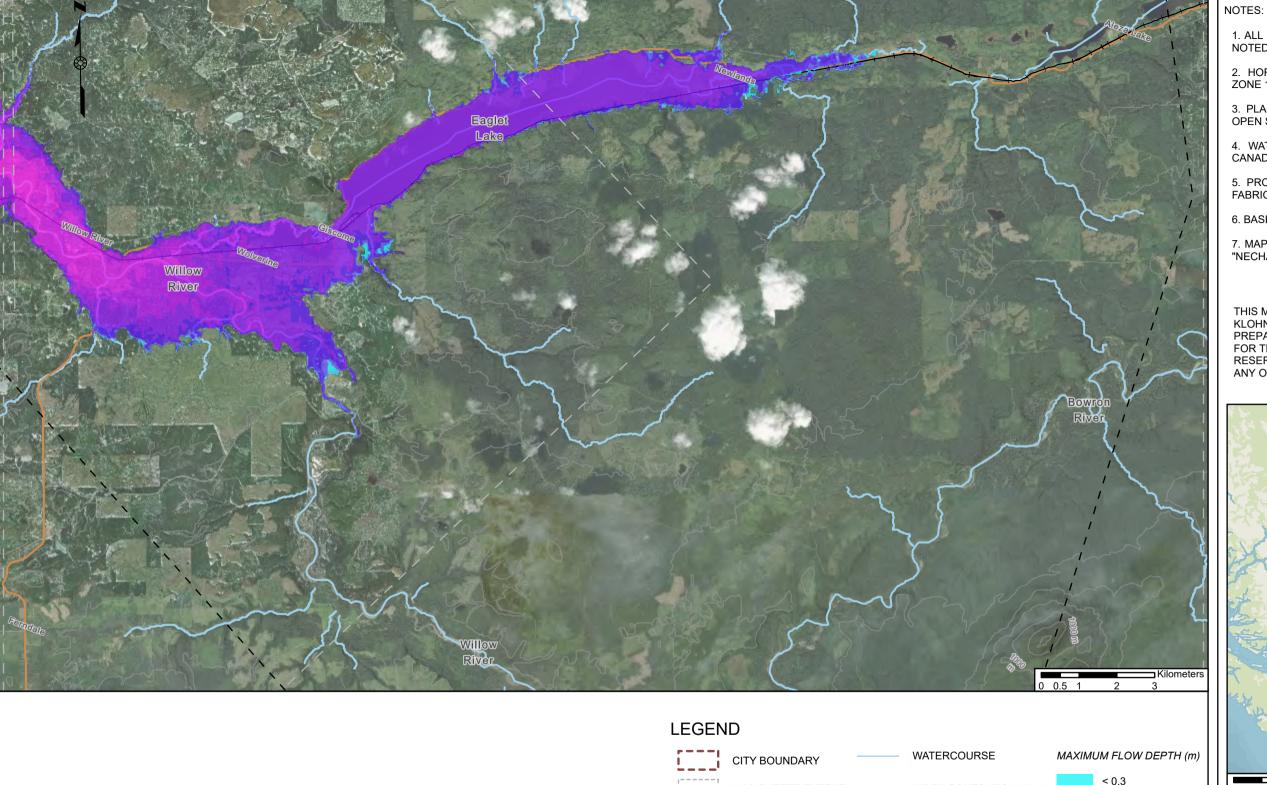
KENNEY DAM FAIR WEATHER FAILURE **MAXIMUM FLOW DEPTH**

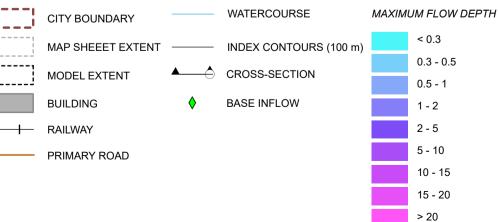
02-21

2024-09-12

SCALE PROJECT No. 1:100,000 P10436A04

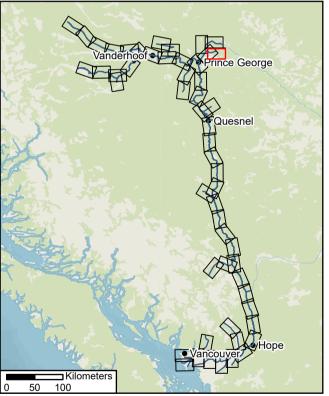






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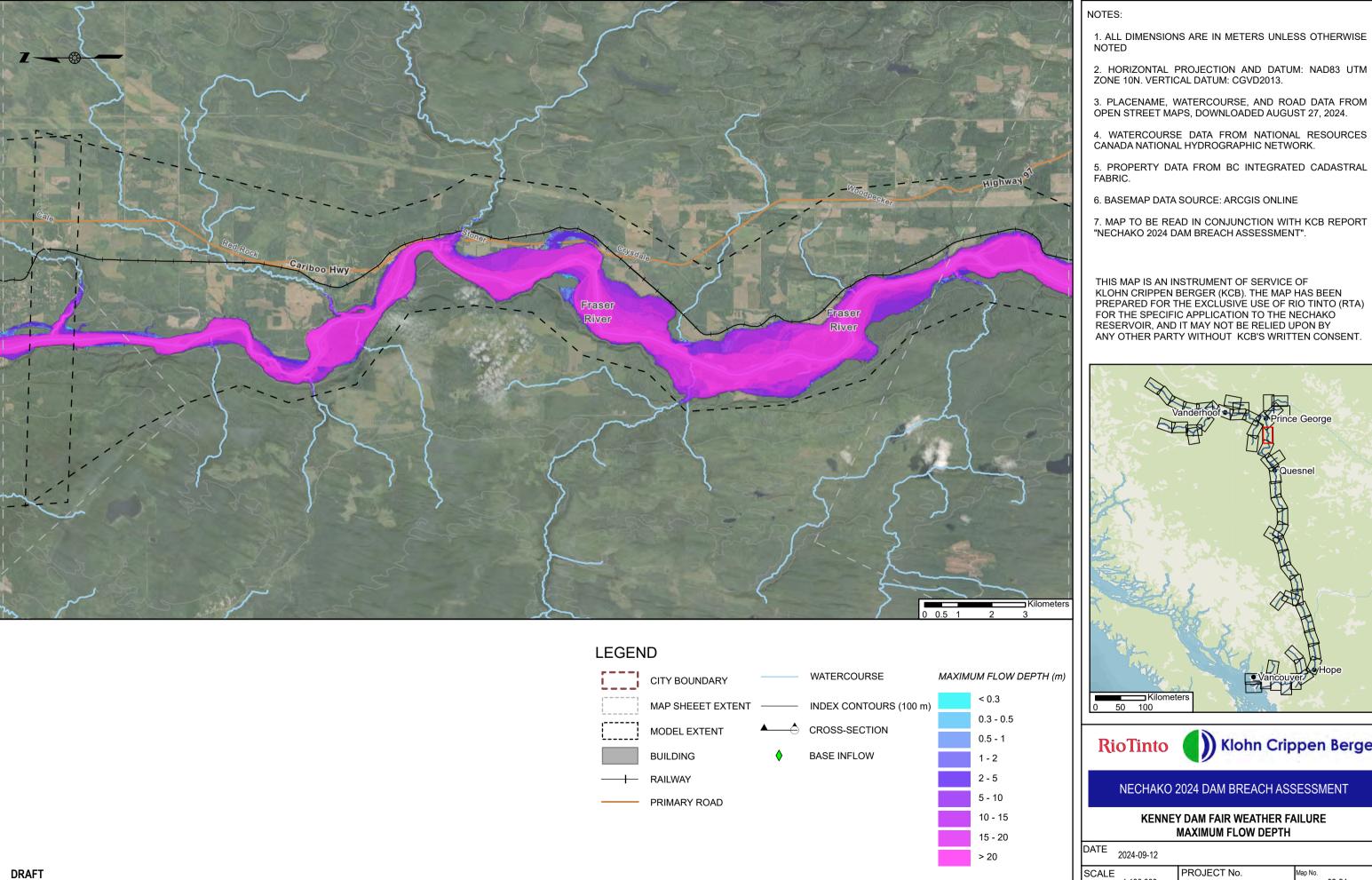
NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE **MAXIMUM FLOW DEPTH**

DATE 2024-09-12 SCALE

1:100,000

PROJECT No. P10436A04



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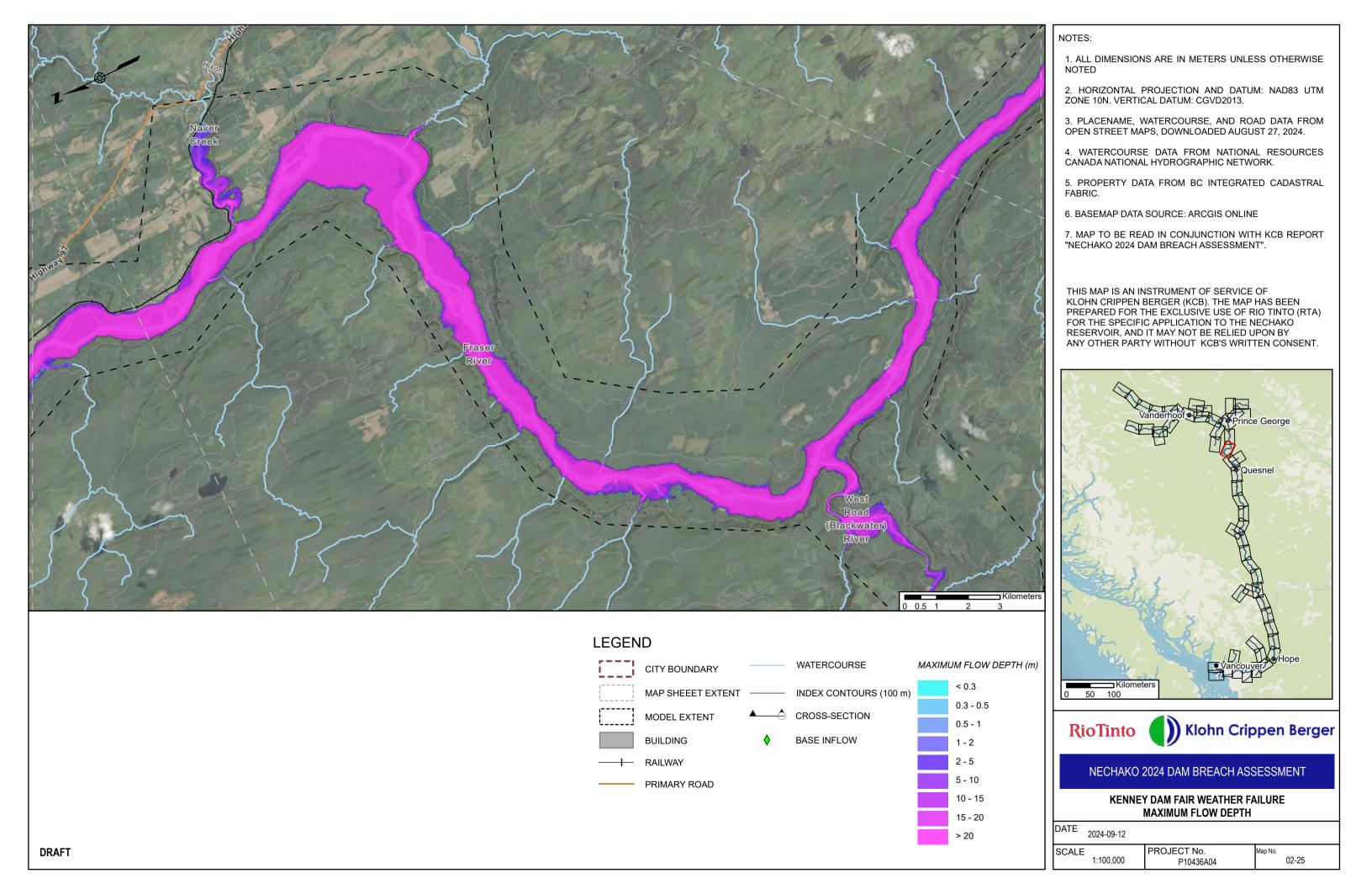


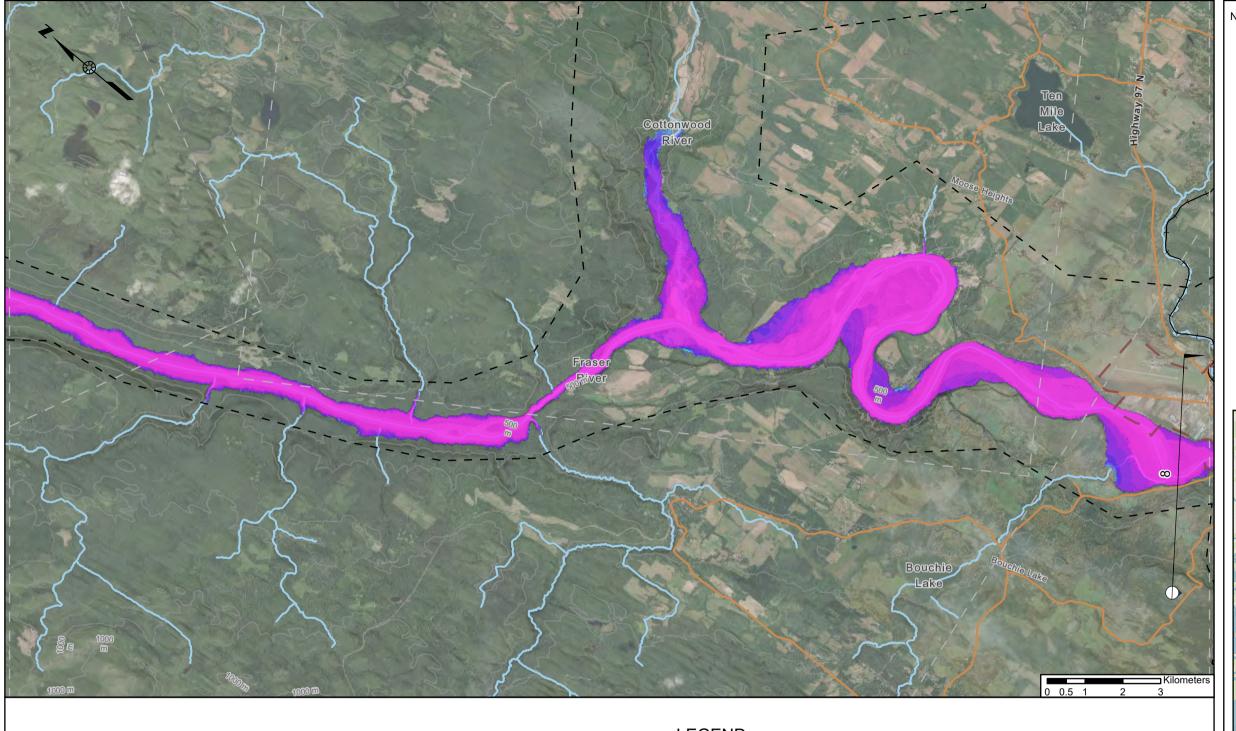


NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE **MAXIMUM FLOW DEPTH**

1:100,000 02-24 P10436A04





П	D	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)	[]	CITY BOUNDARY		WATERCOURSE	MAXIMU	JM FLOW DEPTH (m)
8		500.6	51560	2d 10:20	4d 14:40	>15	ļi					< 0.3
							<u> </u>	MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		0.3 - 0.5
								MODEL EXTENT	▲	CROSS-SECTION		
									A			0.5 - 1
								BUILDING	\Q	BASE INFLOW		1 - 2
							-	RAILWAY				2 - 5
								PRIMARY ROAD				5 - 10
								T TOOLS				10 - 15
												15 - 20
_		_										> 20
DI	RAF	1										

NOTES:

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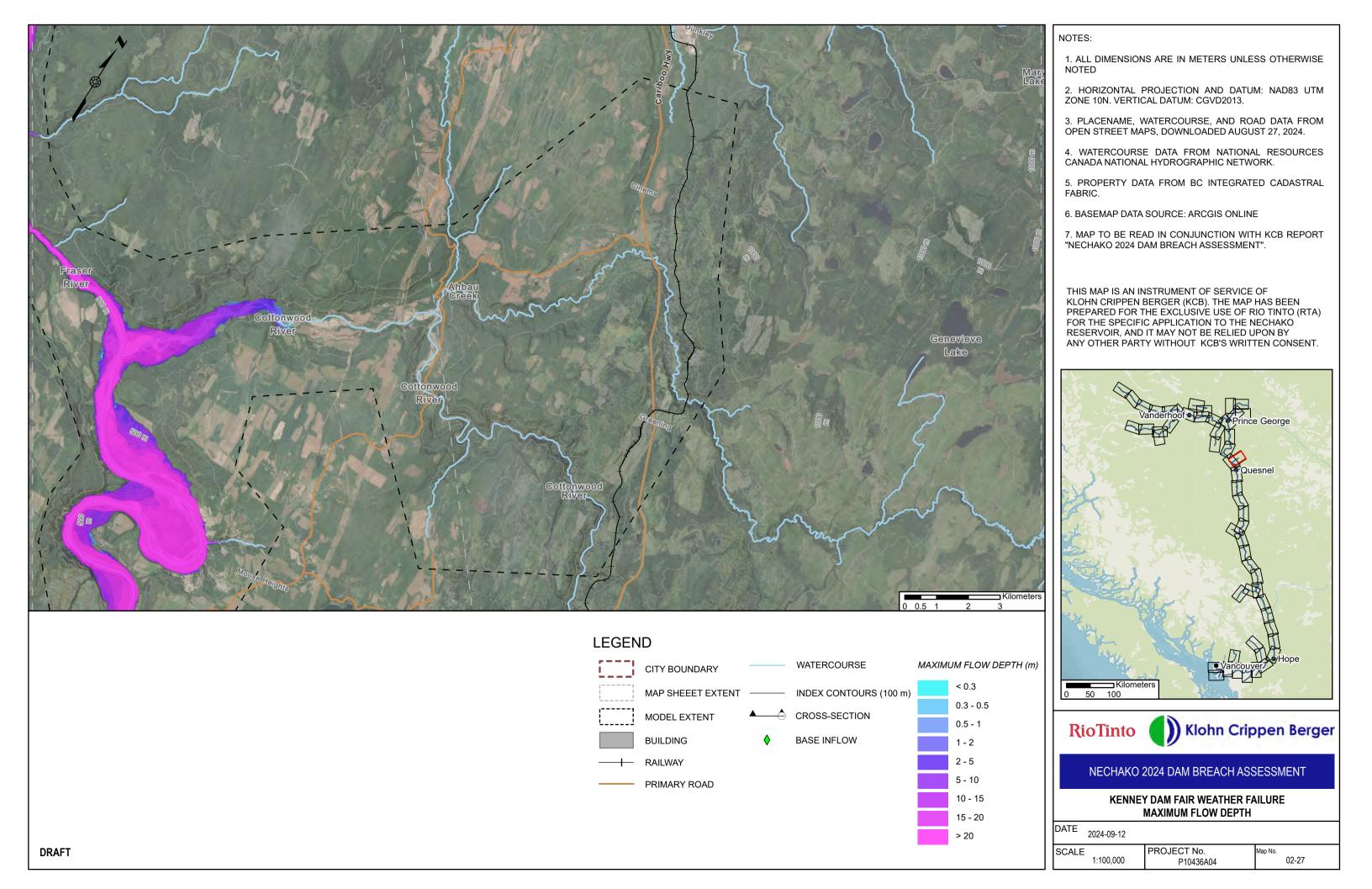
NECHAKO 2024 DAM BREACH ASSESSMENT

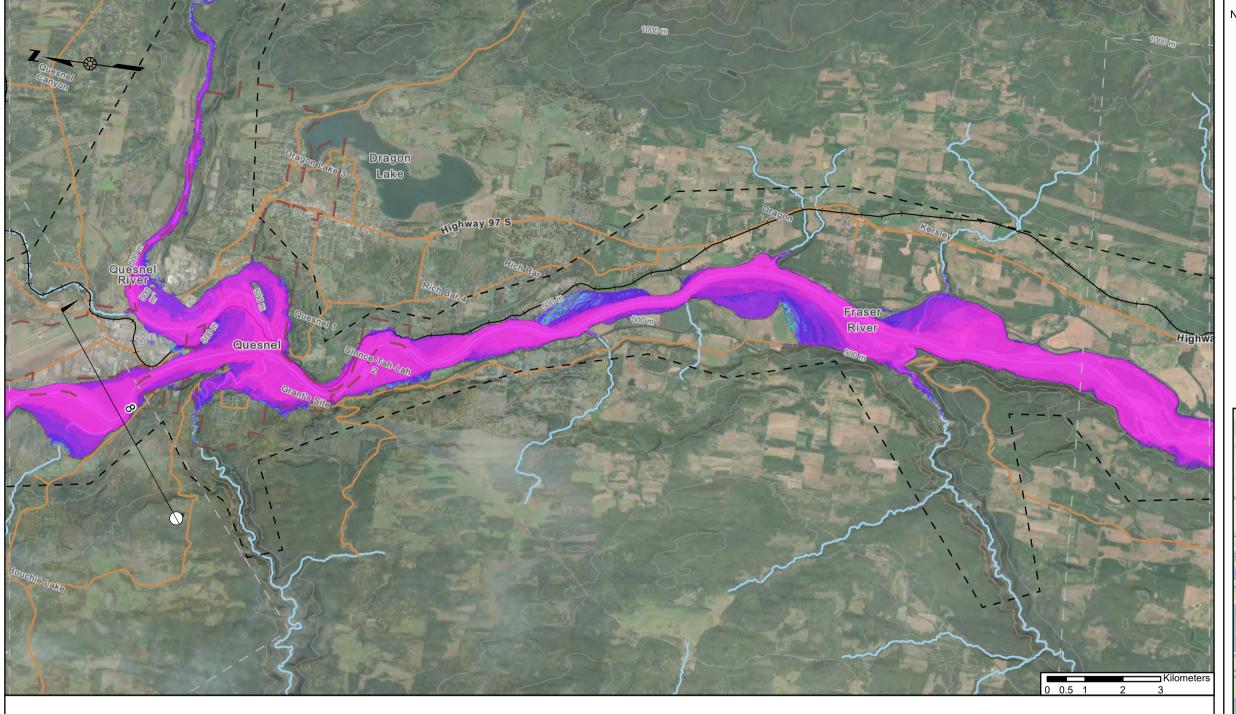
KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

DATE	2024-09-12	

SCALE PROJECT No. P10436A04

Map No. 02-26





П	D	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)	[]	CITY BOUNDARY		WATERCOURSE	MAXIMU	JM FLOW DEPTH (m)
8		500.6	51560	2d 10:20	4d 14:40	>15	ļi					< 0.3
							<u> </u>	MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		0.3 - 0.5
								MODEL EXTENT	▲	CROSS-SECTION		
									A			0.5 - 1
								BUILDING	\Q	BASE INFLOW		1 - 2
							-	RAILWAY				2 - 5
								PRIMARY ROAD				5 - 10
								T TOOLS				10 - 15
												15 - 20
_		_										> 20
DI	RAF	1										

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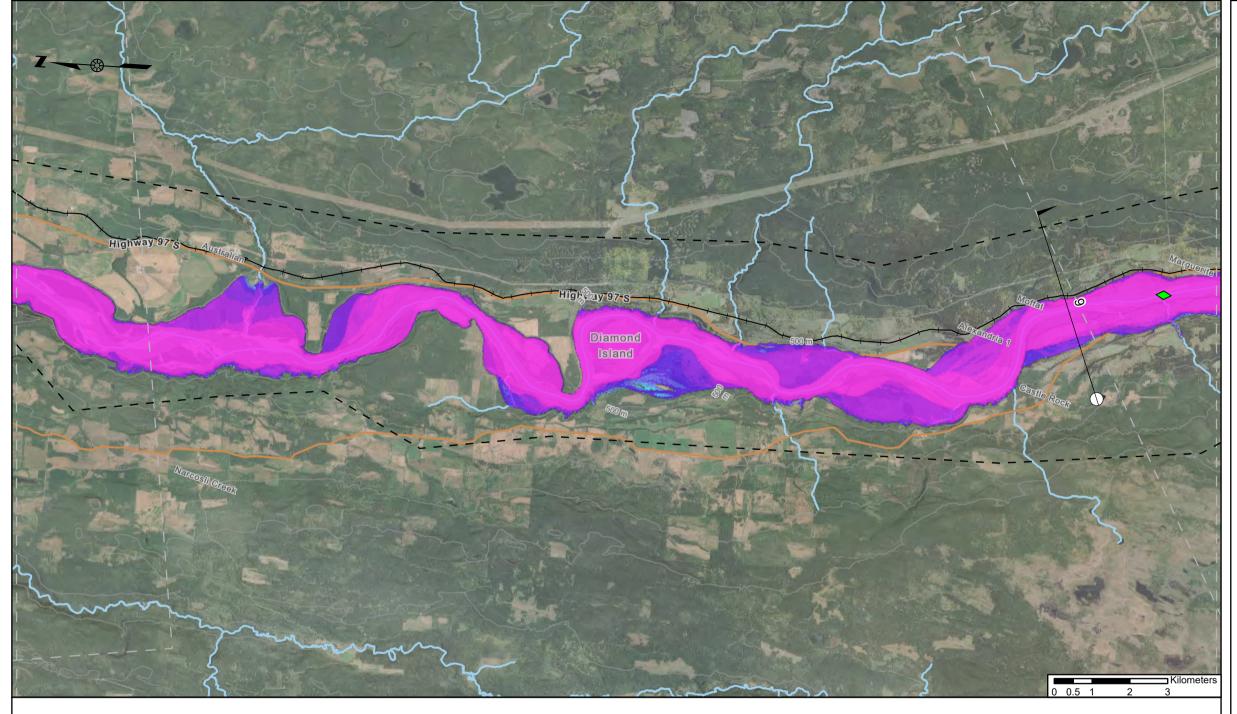
NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

DATE 2024-	09-12
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SCALE

PROJECT No. Map No. P10436A04



I	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)	[]	CITY BOUNDARY		WATERCOURSE	MAXIMU	JM FLOW DEPTH (m)
9	472.2	50200	2d 20:00	5d 00:20	>15	!!	MAD OUTERT EVENT		INIDEN CONTOURS (400)		< 0.3
						<u></u>	MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		0.3 - 0.5
							MODEL EXTENT	▲	CROSS-SECTION		0.5 - 1
							BUILDING	♦	BASE INFLOW		1 - 2
							DAILMAY				2 - 5
							RAILWAY				
							PRIMARY ROAD				5 - 10
											10 - 15
											15 - 20
											> 20
DF	AFT										

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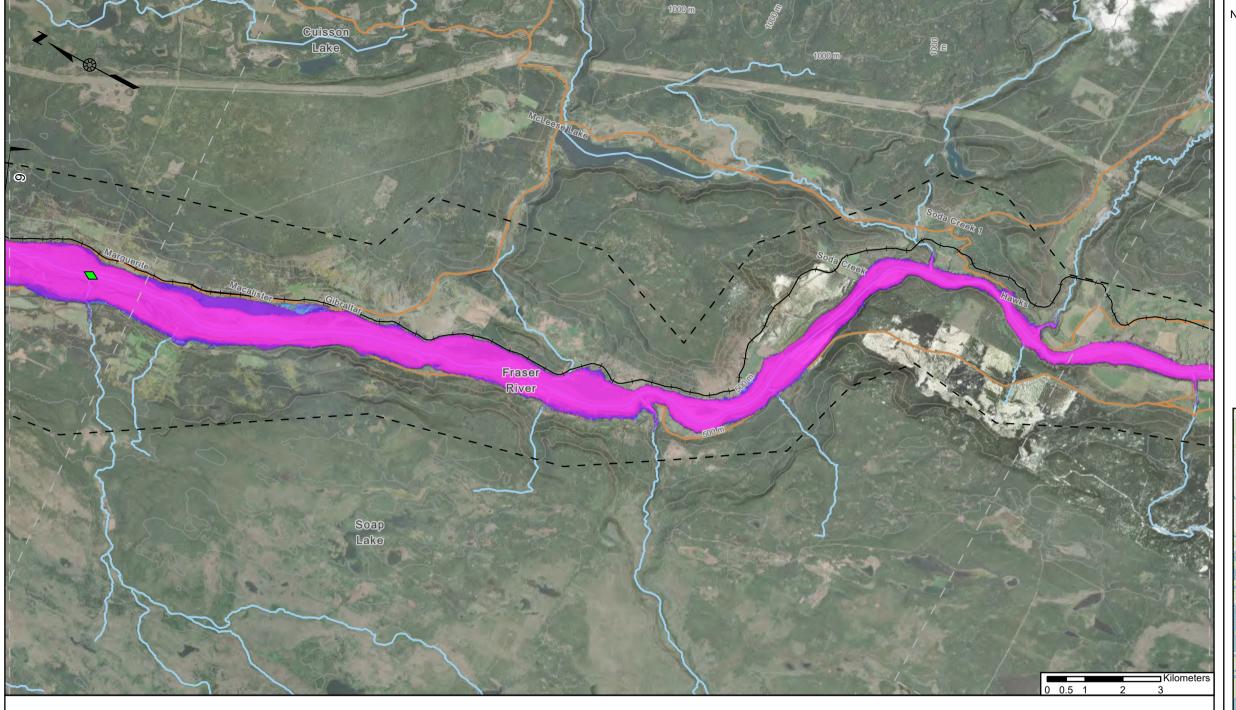
NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

AIE	2024-09-12
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SCALE	PROJECT No.
1:100,000	P10436A04

Map No. 02-29

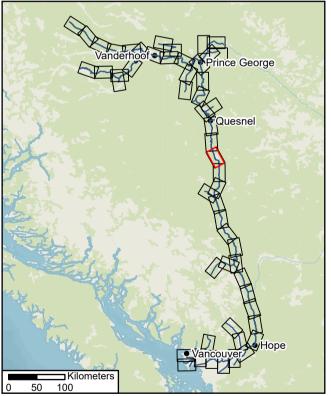


ID	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)	[]	CITY BOUNDARY		WATERCOURSE	MAXIM	UM FLOW DEPTH (m)
9	472.2	50200	2d 20:00	5d 00:20	>15						< 0.3
						<u> </u>	MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		
							MODEL EXTENT	▲	CROSS-SECTION		0.3 - 0.5
						·					0.5 - 1
							BUILDING	♦	BASE INFLOW		1 - 2
							RAILWAY				2 - 5
							DDWAADY DOAD				5 - 10
							PRIMARY ROAD				
											10 - 15
											15 - 20
											> 20
DR/	NFT										

NOTES:

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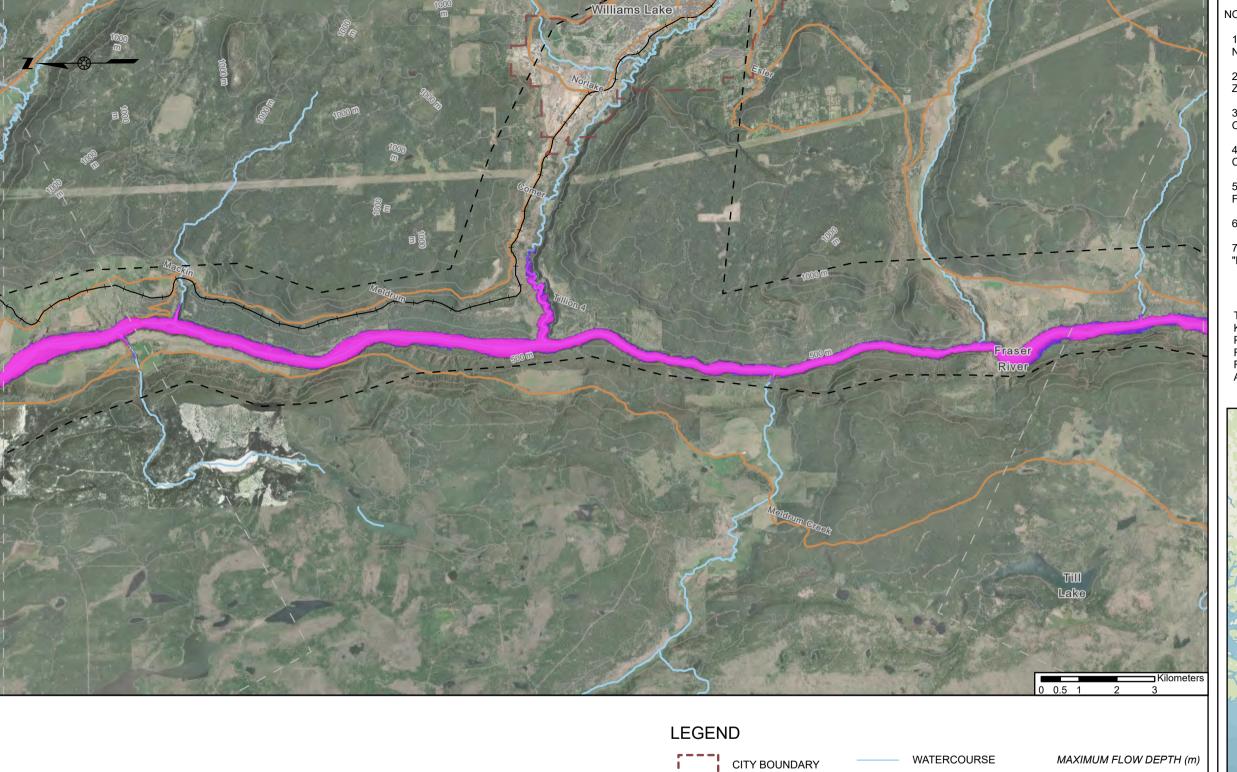


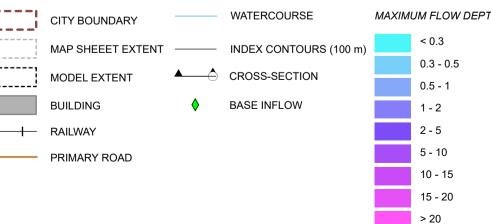
NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

DATE 2024-09-1	9-12
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SCALE	PROJECT No.
1:100,000	P10436A04

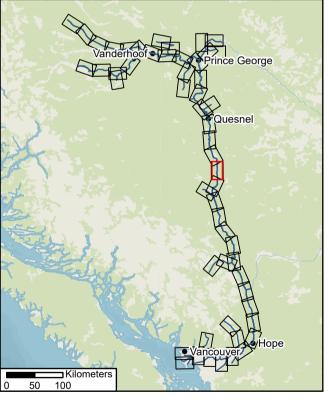




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NECHAKO 2024 DAM BREACH ASSESSMENT

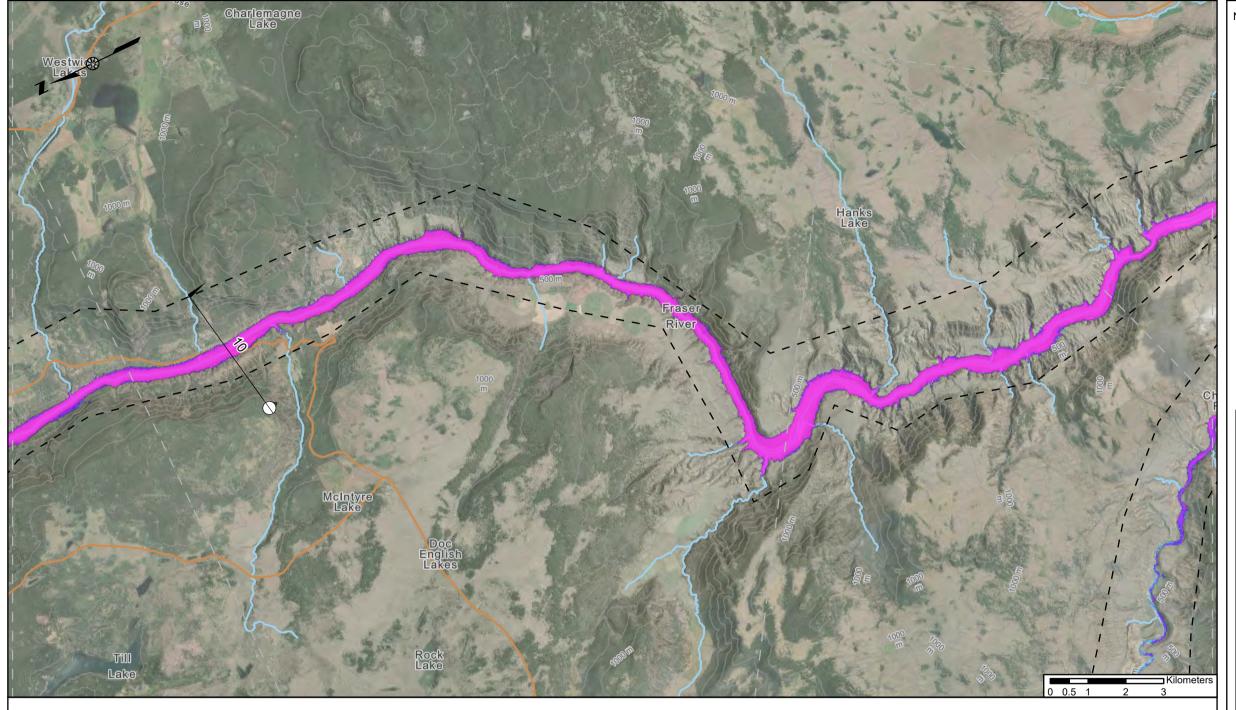
KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

DATE 2024-09-12

SCALE

1:100,000

PROJECT No. Maj P10436A04



ID	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)		CITY BOUNDARY		WATERCOURSE	MAXIM	UM FLOW DEPTH (m)
10	437.2	49640	3d 4:20	5d 08:20	>15	,i					< 0.3
						<u> </u>	MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		
						[]	MODEL EXTENT	^	CROSS-SECTION		0.3 - 0.5
						<u> </u>					0.5 - 1
							BUILDING	♦	BASE INFLOW		1 - 2
							RAILWAY				2 - 5
							DDIMADY DOAD				5 - 10
							PRIMARY ROAD				
											10 - 15
											15 - 20
											> 20
DRA	FT										

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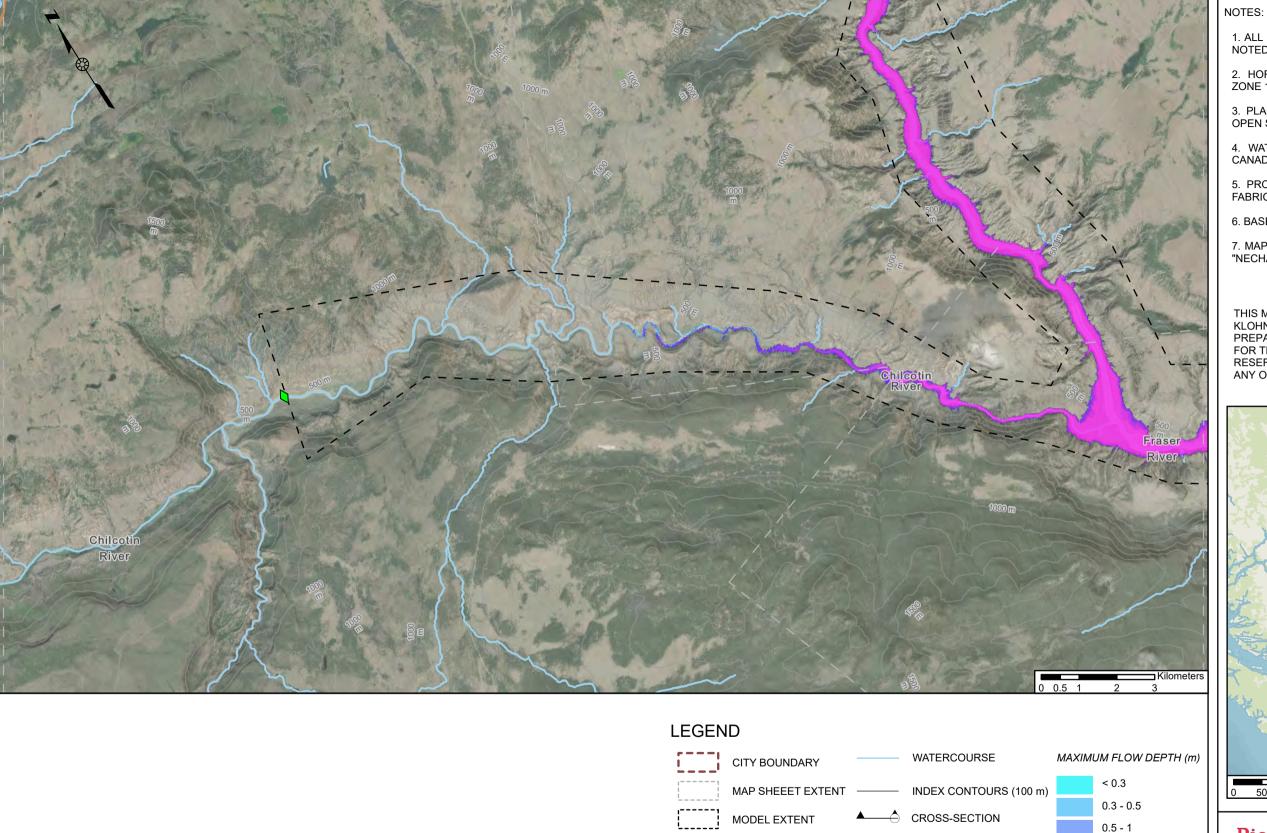
NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

232 T 00 12	DATE 2024-	09-12
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SCALE	PROJECT No.
1:100,000	P10436A04

Map No. 02-32



BUILDING

RAILWAY

PRIMARY ROAD

BASE INFLOW

5 - 10

10 - 15

15 - 20

> 20

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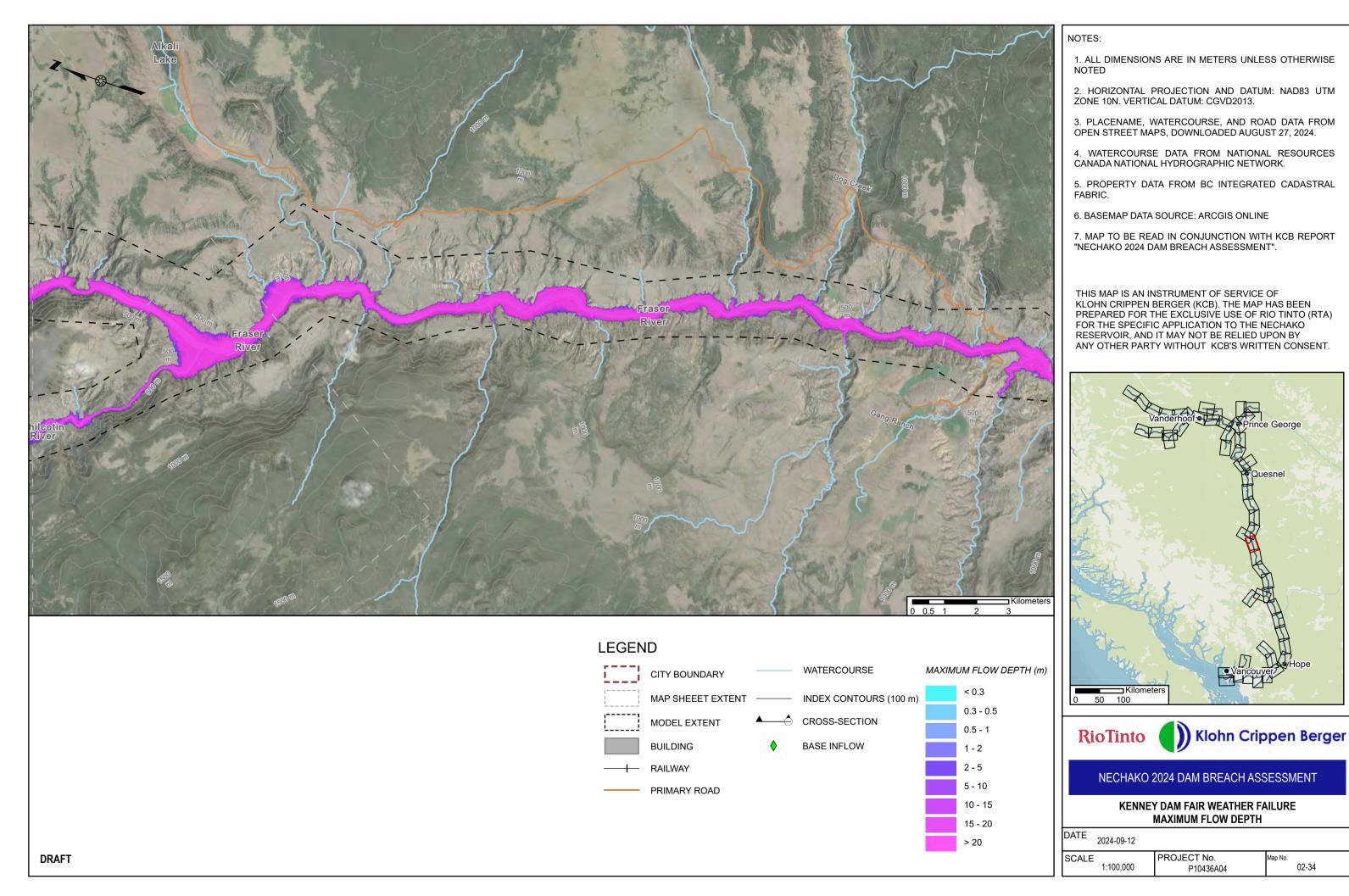
NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE **MAXIMUM FLOW DEPTH**

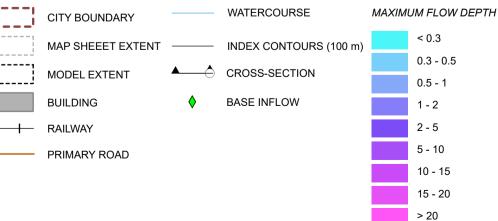
02-33

DATE 2024-09-12

SCALE PROJECT No. 1:100,000 P10436A04







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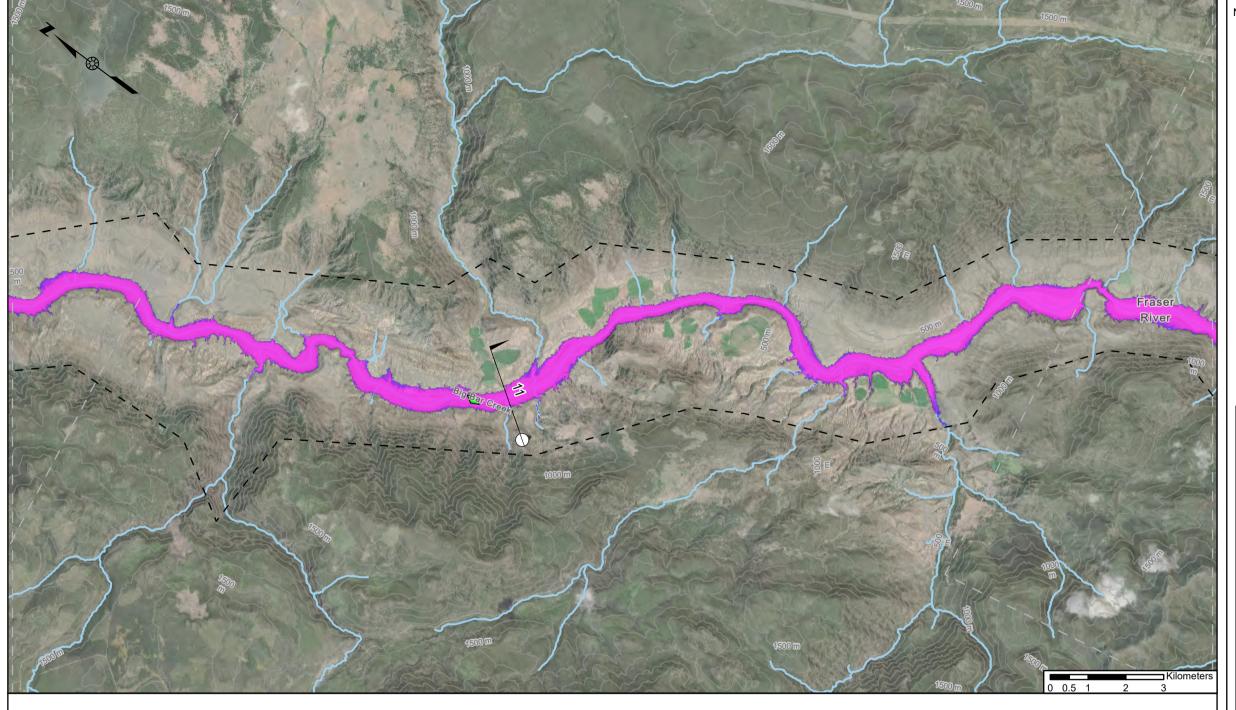


NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE **MAXIMUM FLOW DEPTH**

DATE 2024-09-12

SCALE PROJECT No. 1:100,000 P10436A04



ID	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)	[]	CITY BOUNDARY		WATERCOURSE	MAXIM	UM FLOW DEPTH (m)
11	345.7	49340	3d 15:10	5d 17:40	>15	,i					< 0.3
						<u> </u>	MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		0.3 - 0.5
							MODEL EXTENT		CROSS-SECTION		
							DI III DING	<u> </u>	DACE INCLOW		0.5 - 1
							BUILDING	•	BASE INFLOW		1 - 2
						—	RAILWAY				2 - 5
							PRIMARY ROAD				5 - 10
											10 - 15
											15 - 20
											> 20
DR	AFT										

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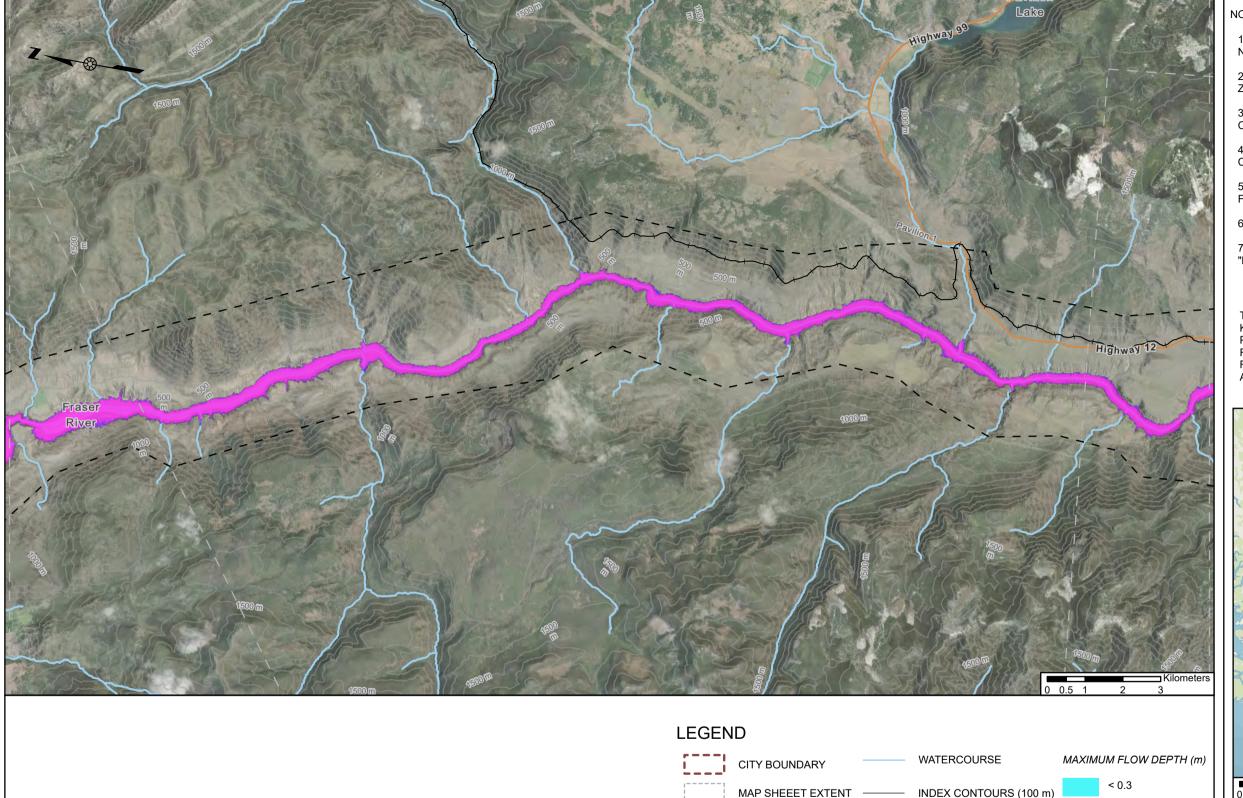


NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

DATE	2024-09-12	

SCALE		PROJECT No.
	1:100,000	P10436A04



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NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

DATE 2024-09-12

0.3 - 0.5

0.5 - 1

5 - 10

10 - 15

15 - 20

> 20

CROSS-SECTION

BASE INFLOW

MODEL EXTENT

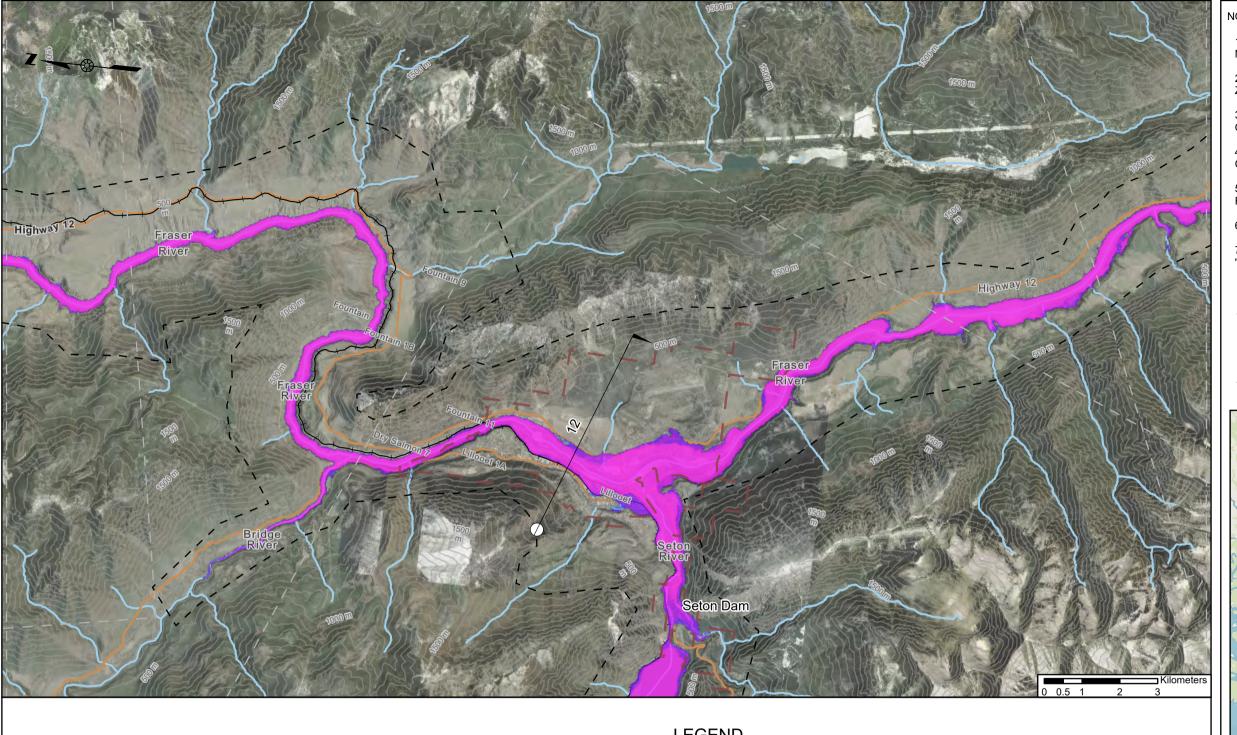
PRIMARY ROAD

BUILDING

RAILWAY

SCALE PROJECT No. P10436A04

Мар No. 02-37



ID	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)	[]	CITY BOUNDARY		WATERCOURSE	MAXIMU	JM FLOW DEPTH (m)
12	248.0	49190	3d 21:40	5d 22:40	>15	,i					< 0.3
							MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		
							MODEL EXTENT	^	CROSS-SECTION		0.3 - 0.5
						<u> </u>					0.5 - 1
							BUILDING	♦	BASE INFLOW		1 - 2
						-+	RAILWAY				2 - 5
											5 - 10
							PRIMARY ROAD				
											10 - 15
											15 - 20
											> 20
DRA	FT										

NOTES:

- 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE
- 2. HORIZONTAL PROJECTION AND DATUM: NAD83 UTM ZONE 10N. VERTICAL DATUM: CGVD2013.
- 3. PLACENAME, WATERCOURSE, AND ROAD DATA FROM OPEN STREET MAPS, DOWNLOADED AUGUST 27, 2024.
- 4. WATERCOURSE DATA FROM NATIONAL RESOURCES CANADA NATIONAL HYDROGRAPHIC NETWORK.
- 5. PROPERTY DATA FROM BC INTEGRATED CADASTRAL FABRIC.
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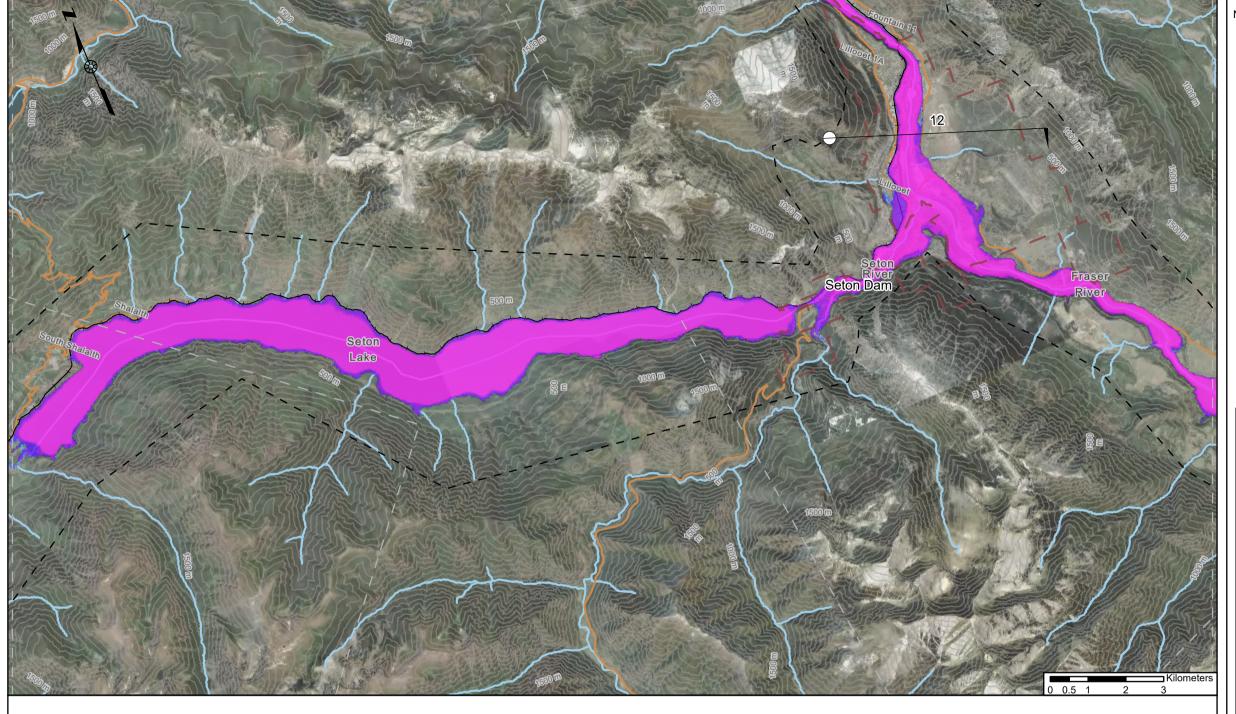
NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE MAXIMUM FLOW DEPTH

02-38

DATE	2024-09-12	

SCALE PROJECT No. 1:100,000 P10436A04



ID	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)	[]	CITY BOUNDARY		WATERCOURSE	MAXIM	UM FLOW DEPTH (m)
12	248.0	49190	3d 21:40	5d 22:40	>15						< 0.3
							MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		0.3 - 0.5
							MODEL EXTENT	lack	CROSS-SECTION		0.5 - 1
							BUILDING	۵	BASE INFLOW		
							DOILDING	•	BAGE INI LOW		1 - 2
						-	RAILWAY				2 - 5
							PRIMARY ROAD				5 - 10
											10 - 15
											15 - 20
											> 20

NOTES:

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- 3. PLACENAME, WATERCOURSE, AND ROAD DATA FROM OPEN STREET MAPS, DOWNLOADED AUGUST 27, 2024.
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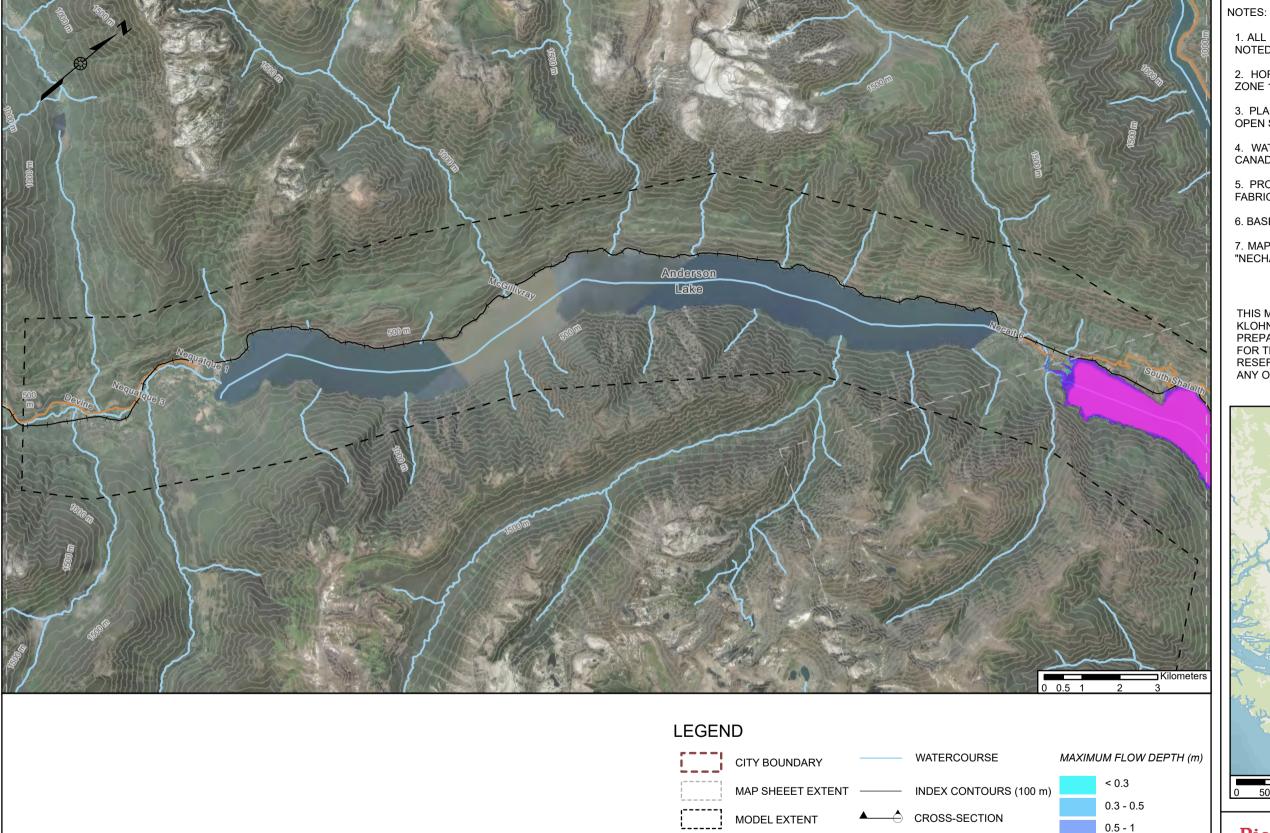
NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

02-39

2024-09-12	DATE	2024-09-12
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SCALE	PROJECT No.
1:100,000	P10436A04



BUILDING

RAILWAY

PRIMARY ROAD

BASE INFLOW

5 - 10

10 - 15

15 - 20

> 20

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NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

DATE 2024-09-12

SCALE PROJECT No. P10436A04



NOTES:

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NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE **MAXIMUM FLOW DEPTH**

DATE 2024-09-12

CROSS-SECTION

BASE INFLOW

0.5 - 1

5 - 10

10 - 15

15 - 20

> 20

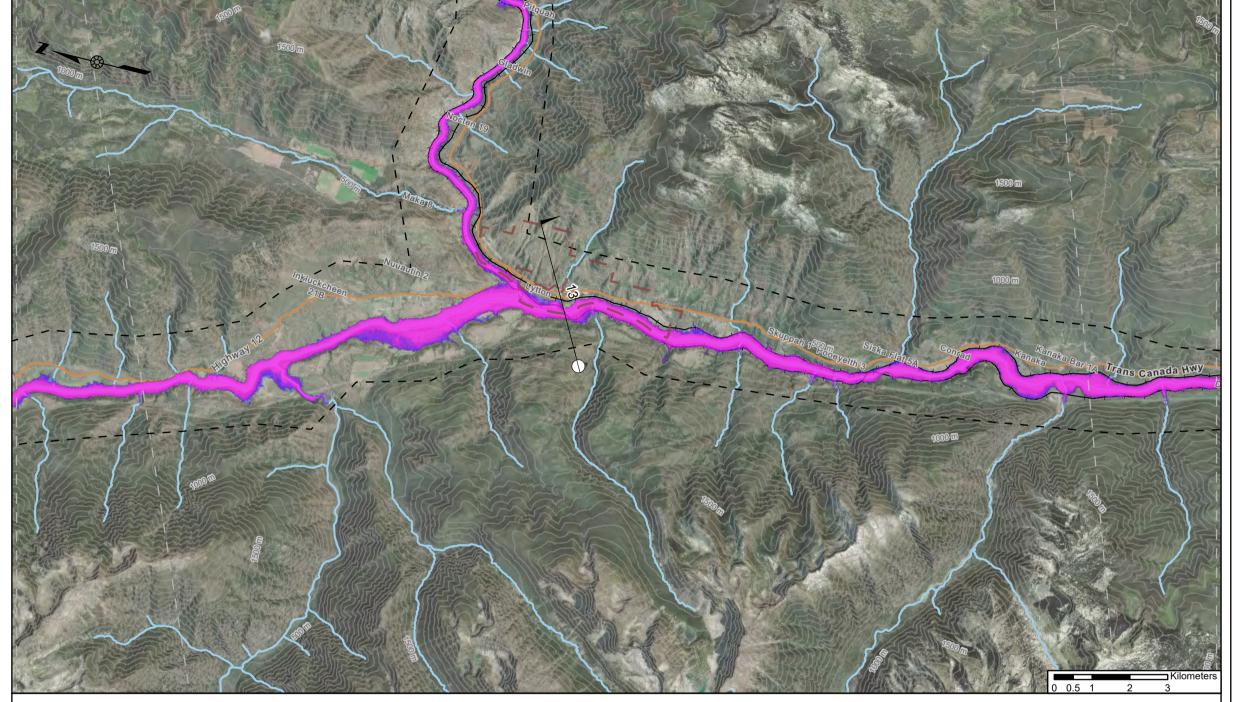
MODEL EXTENT

PRIMARY ROAD

BUILDING

RAILWAY

SCALE PROJECT No. 1:100,000 P10436A04



ID	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)	[CITY BOUNDARY		WATERCOURSE	MAXIM	UM FLOW DEPTH (m)
13	195.3	48340	4d 4:00	6d 14:20	>15						< 0.3
							MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		
							MODEL EXTENT	\triangle	CROSS-SECTION		0.3 - 0.5
						<u> </u>	MODEL EXTENT		0.1000 02011011		0.5 - 1
							BUILDING	♦	BASE INFLOW		1 - 2
							RAILWAY				2 - 5
							DDIMADY DOAD				5 - 10
							PRIMARY ROAD				
											10 - 15
											15 - 20
											> 20

NOTES:

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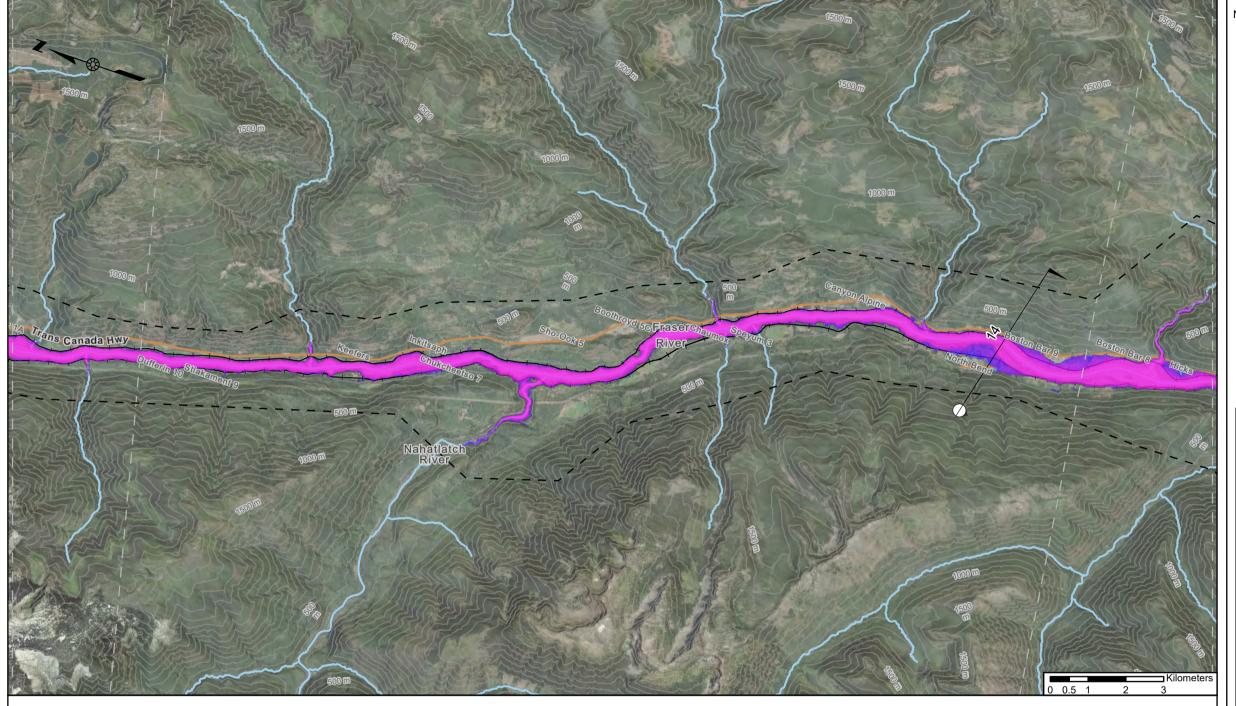
NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

02-42

DATE 2	2024-09-12

SCALE	PROJECT No.
1:100,000	P10436A04



ID	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)	[]	CITY BOUNDARY		WATERCOURSE	MAXIM	UM FLOW DEPTH (m)
14	157.0	48270	4d 7:50	6d 17:30	>15	,i					< 0.3
						<u> </u>	MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		0.3 - 0.5
							MODEL EXTENT	▲	CROSS-SECTION		
							DI III DINIO	A	DAGE INELOW		0.5 - 1
							BUILDING	•	BASE INFLOW		1 - 2
							RAILWAY				2 - 5
							PRIMARY ROAD				5 - 10
											10 - 15
											15 - 20
											> 20
DRA	FT										

NOTES:

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- 2. HORIZONTAL PROJECTION AND DATUM: NAD83 UTM ZONE 10N. VERTICAL DATUM: CGVD2013.
- 3. PLACENAME, WATERCOURSE, AND ROAD DATA FROM OPEN STREET MAPS, DOWNLOADED AUGUST 27, 2024.
- 4. WATERCOURSE DATA FROM NATIONAL RESOURCES CANADA NATIONAL HYDROGRAPHIC NETWORK.
- 5. PROPERTY DATA FROM BC INTEGRATED CADASTRAL FABRIC.
- 6. BASEMAP DATA SOURCE: ARCGIS ONLINE
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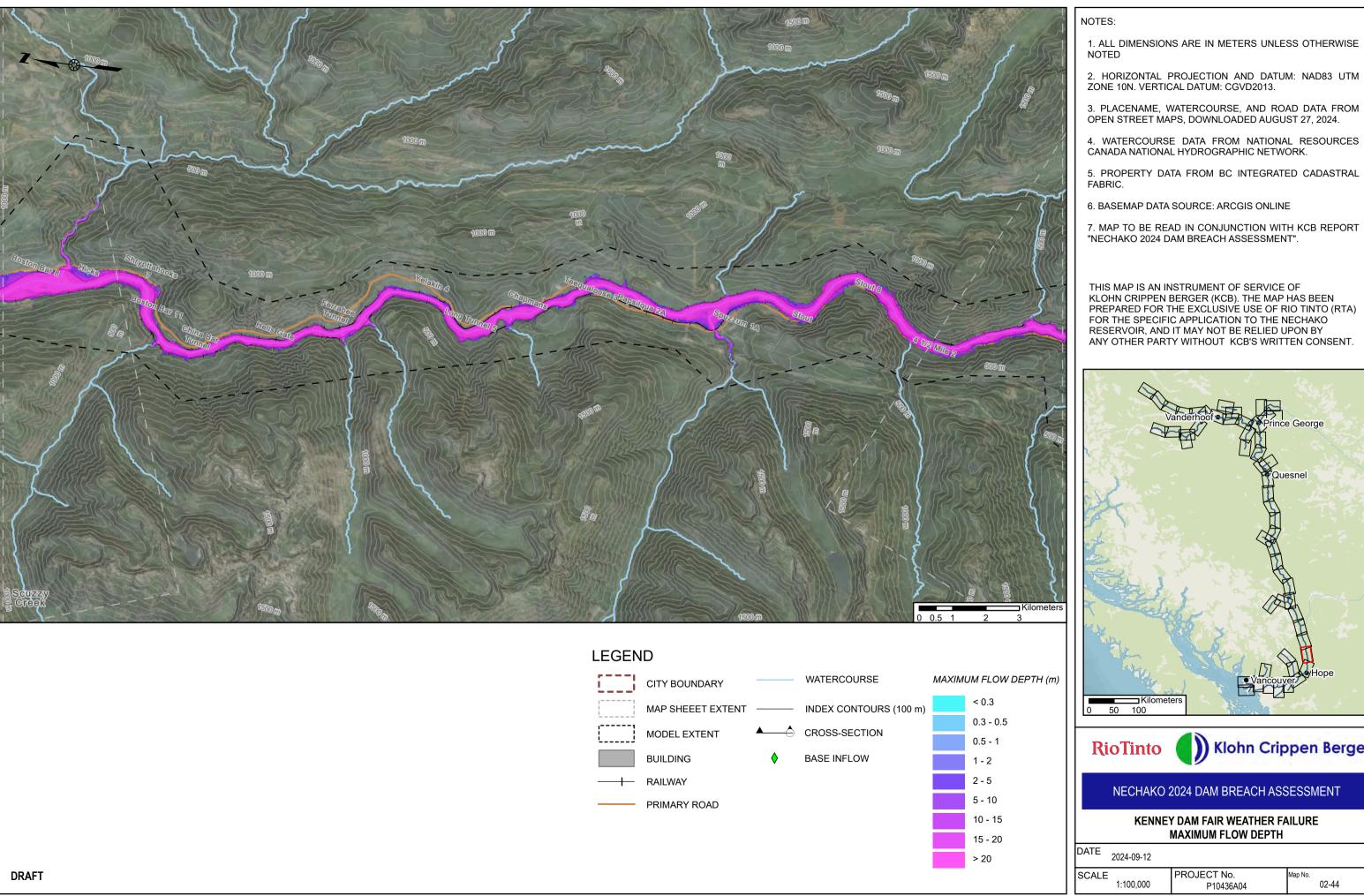


NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE **MAXIMUM FLOW DEPTH**

DATE 2024-09-12

SCALE PROJECT No. 1:100,000 P10436A04

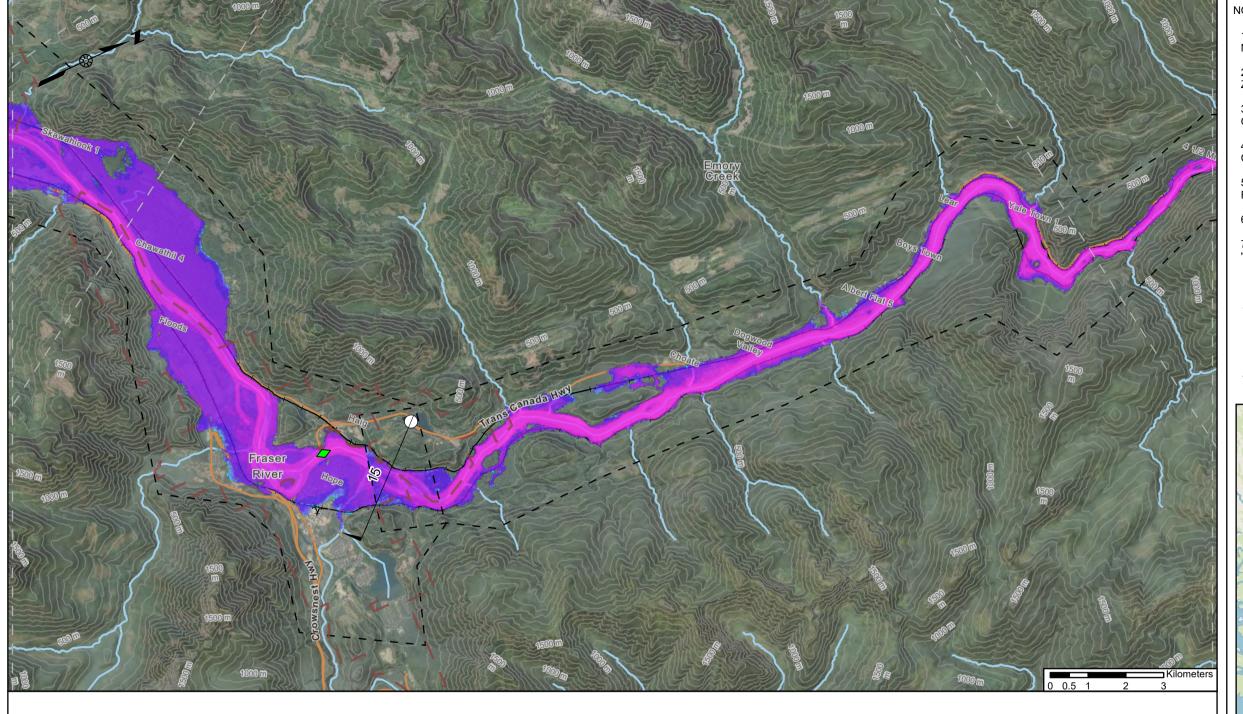


- 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE
- 2. HORIZONTAL PROJECTION AND DATUM: NAD83 UTM ZONE 10N. VERTICAL DATUM: CGVD2013.
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ID	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)	[]	CITY BOUNDARY		WATERCOURSE	MAXIMU	JM FLOW DEPTH (m)
15	49.8	48230	4d 13:50	6d 21:30	>15						< 0.3
							MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		0.3 - 0.5
							MODEL EXTENT	lack	CROSS-SECTION		0.5 - 1
							DI III DINIC	A	BASE INFLOW		
							BUILDING	V	DASE INFLOW		1 - 2
						——	RAILWAY				2 - 5
							PRIMARY ROAD				5 - 10
											10 - 15
											15 - 20
											> 20

DRAFT

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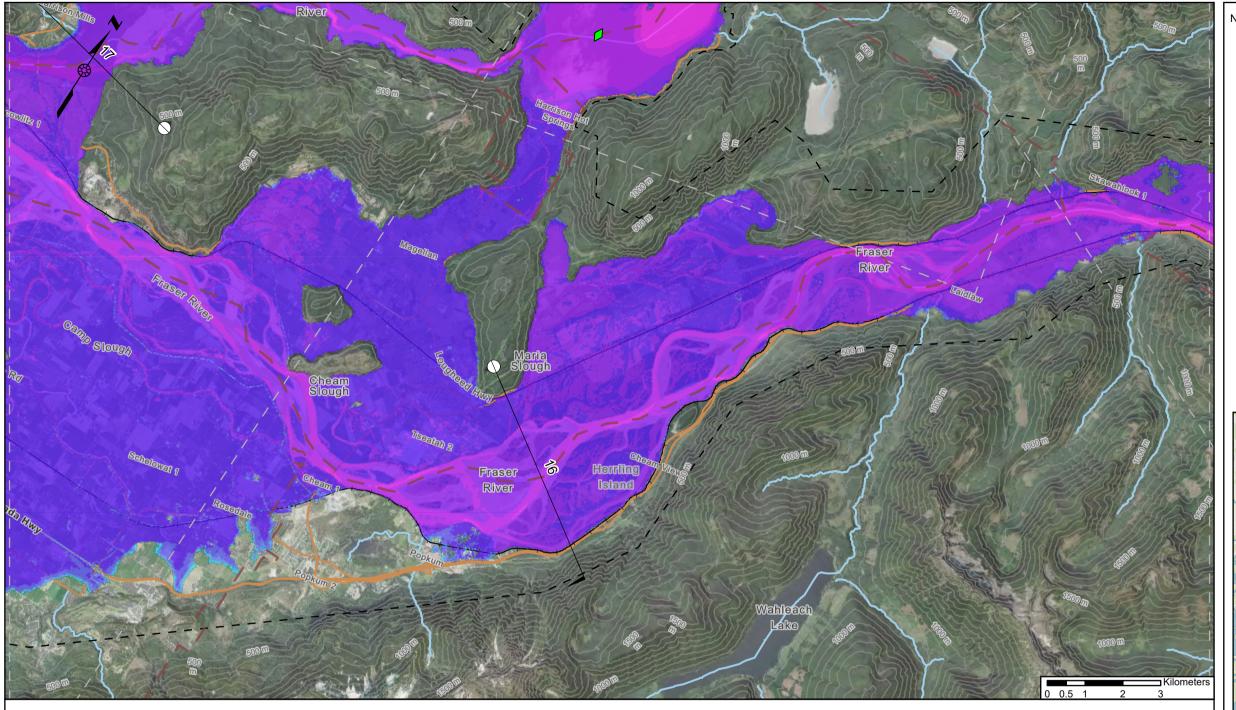
NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE MAXIMUM FLOW DEPTH

DATE	2024-09-12
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SCALE PROJECT No. 1:100,000

02-45 P10436A04



l [IE	Max Water L	evel (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)	[]	CITY BOUNDARY		WATERCOURSE	MAXIM	UM FLOW DEPTH (m)
16	24.3		48370	4d 15:30	7d 00:00	>15						< 0.3
17	16.4		4780	4d 18:00	6d 03:30	>15		MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		
								MODEL EXTENT	^	CROSS-SECTION		0.3 - 0.5 0.5 - 1
								BUILDING	♦	BASE INFLOW		1 - 2
							-	RAILWAY				2 - 5
								PRIMARY ROAD				5 - 10
												10 - 15
												15 - 20
												> 20
DR	AFT											

NOTES:

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- 2. HORIZONTAL PROJECTION AND DATUM: NAD83 UTM ZONE 10N. VERTICAL DATUM: CGVD2013.
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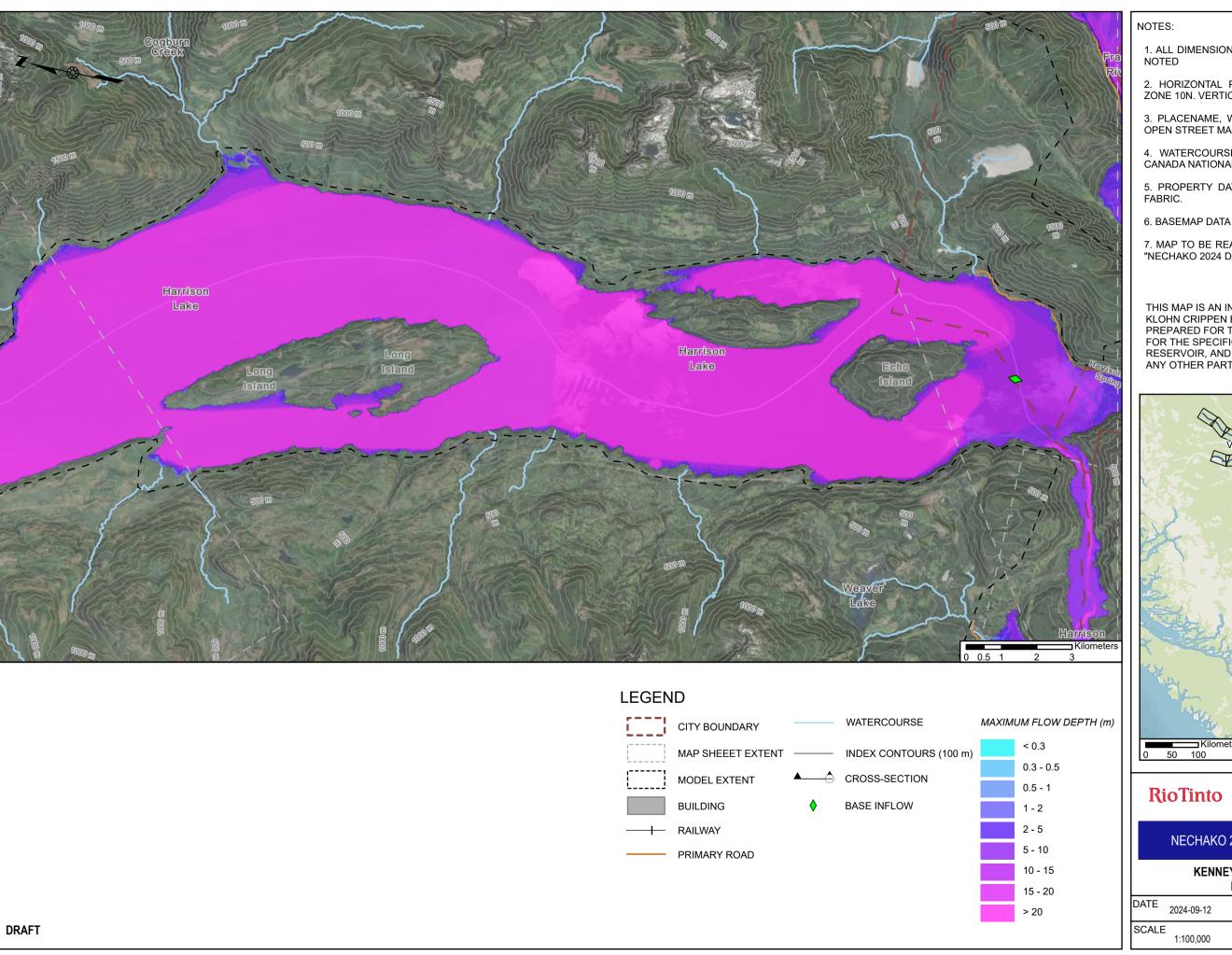


NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

DATE	2024-09-12

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SCALE		PROJECT No.	Ν
	1:100,000	P10436A04	Т



- 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED
- 2. HORIZONTAL PROJECTION AND DATUM: NAD83 UTM ZONE 10N. VERTICAL DATUM: CGVD2013.
- 3. PLACENAME, WATERCOURSE, AND ROAD DATA FROM OPEN STREET MAPS, DOWNLOADED AUGUST 27, 2024.
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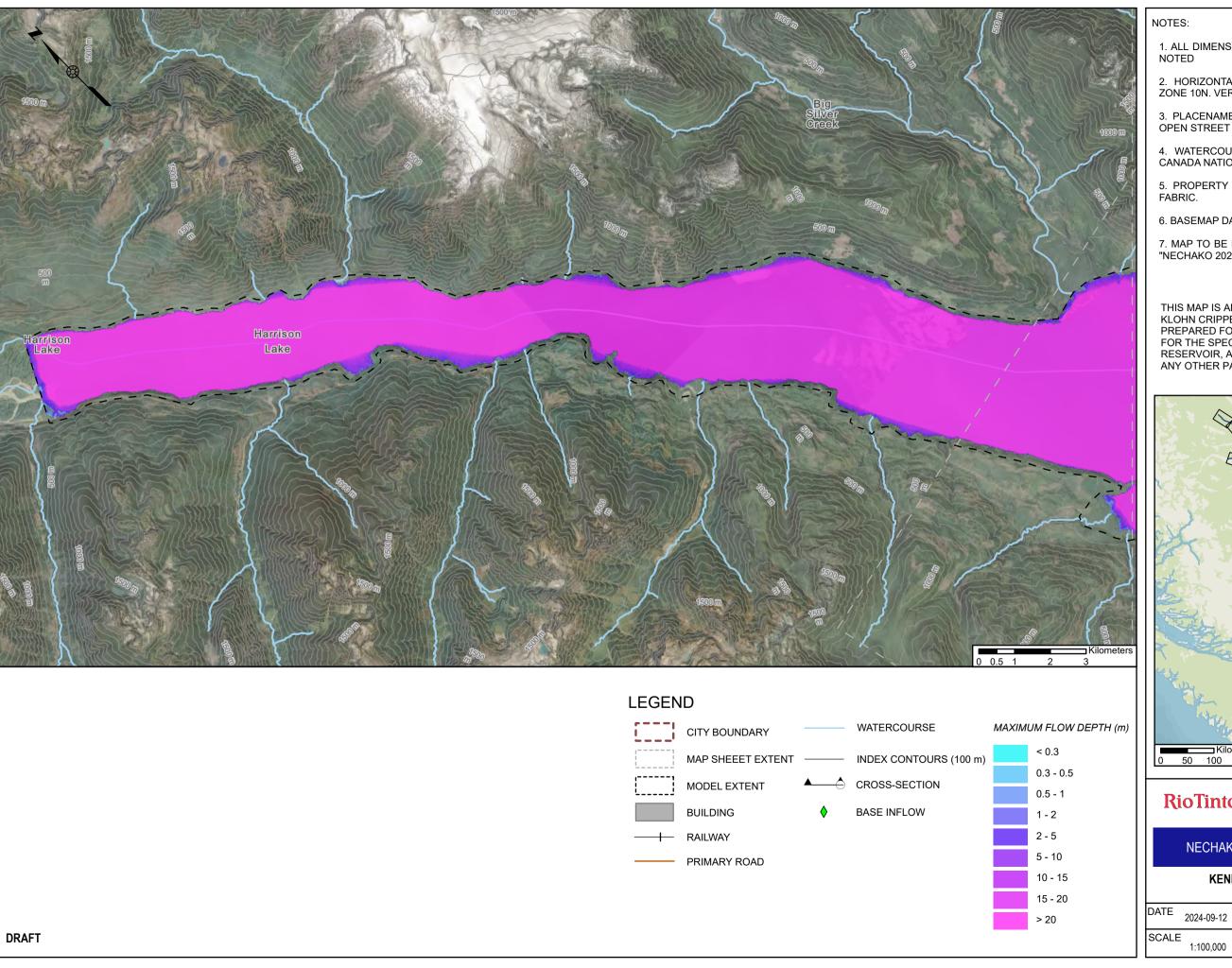


NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

PROJECT No. 0,000 P10436A04

Map No. 02-47



- 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE
- 2. HORIZONTAL PROJECTION AND DATUM: NAD83 UTM ZONE 10N. VERTICAL DATUM: CGVD2013.
- 3. PLACENAME, WATERCOURSE, AND ROAD DATA FROM OPEN STREET MAPS, DOWNLOADED AUGUST 27, 2024.
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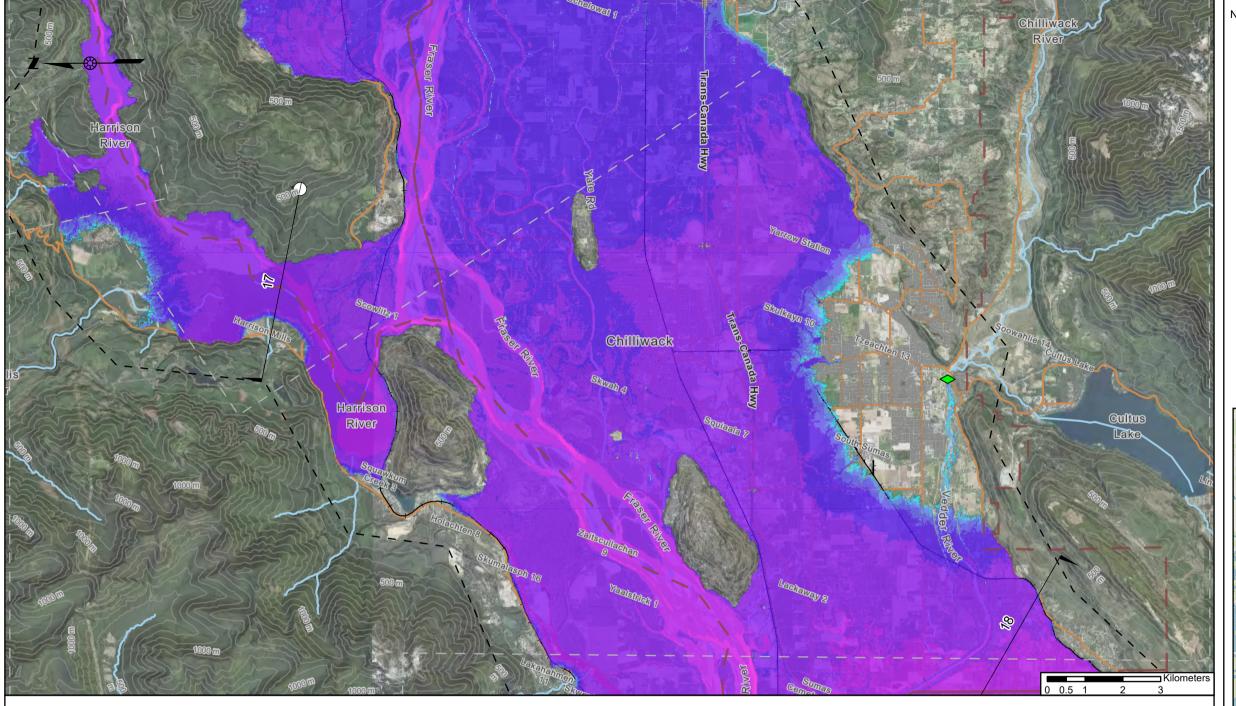




NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE **MAXIMUM FLOW DEPTH**

PROJECT No. P10436A04



ID	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)	[]	CITY BOUNDARY		WATERCOURSE	MAXIM	UM FLOW DEPTH (m)
17	16.4	4780	4d 18:00	6d 03:30	>15						< 0.3
18	15.0	10490	5d 23:50	6d 23:40	>15		MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		
						[]	MODEL EXTENT	_	CROSS-SECTION		0.3 - 0.5
											0.5 - 1
							BUILDING	♦	BASE INFLOW		1 - 2
							RAILWAY				2 - 5
							PRIMARY ROAD				5 - 10
											10 - 15
											15 - 20

NOTES:

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- 2. HORIZONTAL PROJECTION AND DATUM: NAD83 UTM ZONE 10N. VERTICAL DATUM: CGVD2013.
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NECHAKO 2024 DAM BREACH ASSESSMENT

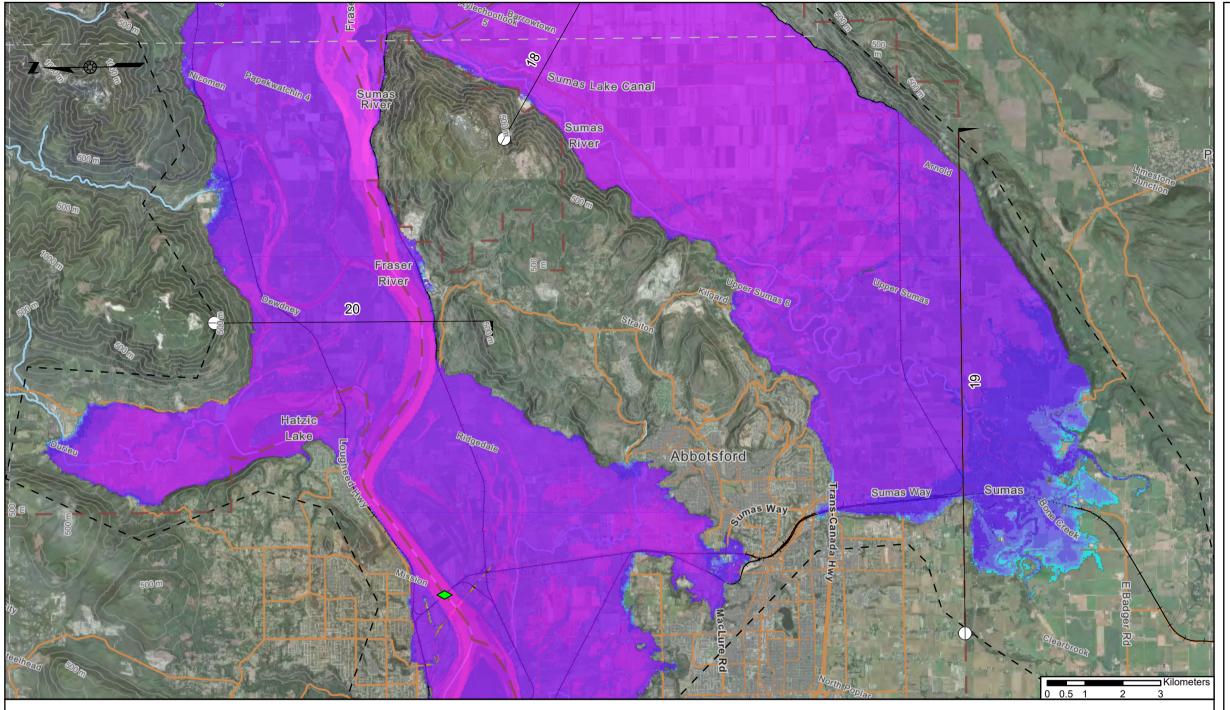
KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

02-49

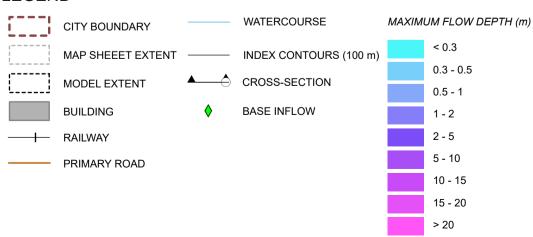
DATE	2024-09-12
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> 20

SCALE	PROJECT No.
1:100,000	P10436A04



ID	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)
18	15.0	10490	5d 23:50	6d 23:40	>15
19	15.0	1340	6d 15:10	7d 01:50	>15
20	14.5	37830	4d 20:10	8d 05:10	>15



NOTES:

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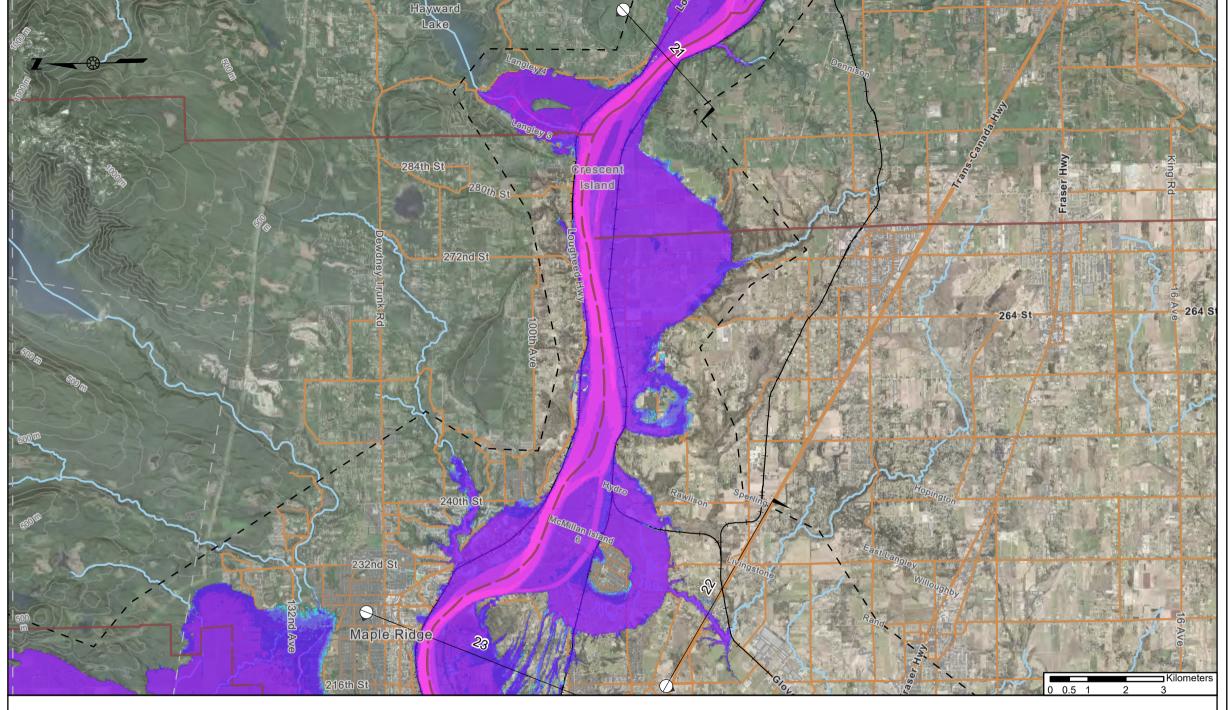
NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

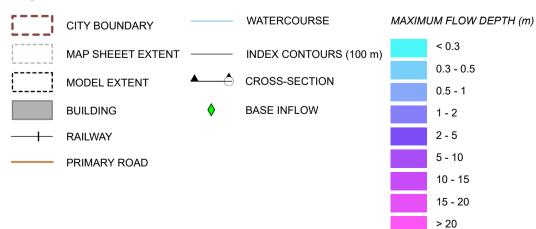
02-50

DATE 2	2024-09-12

SCALE	PROJECT No.
1:100,000	P10436A04



Ш	D	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)
2	21	12.6	37150	4d 21:10	8d 11:50	>15
2	22	11.2	100	6d 15:10	8d 04:10	>15
2	23	10.0	36740	4d 21:20	8d 14:20	>15



NOTES:

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- 3. PLACENAME, WATERCOURSE, AND ROAD DATA FROM OPEN STREET MAPS, DOWNLOADED AUGUST 27, 2024.
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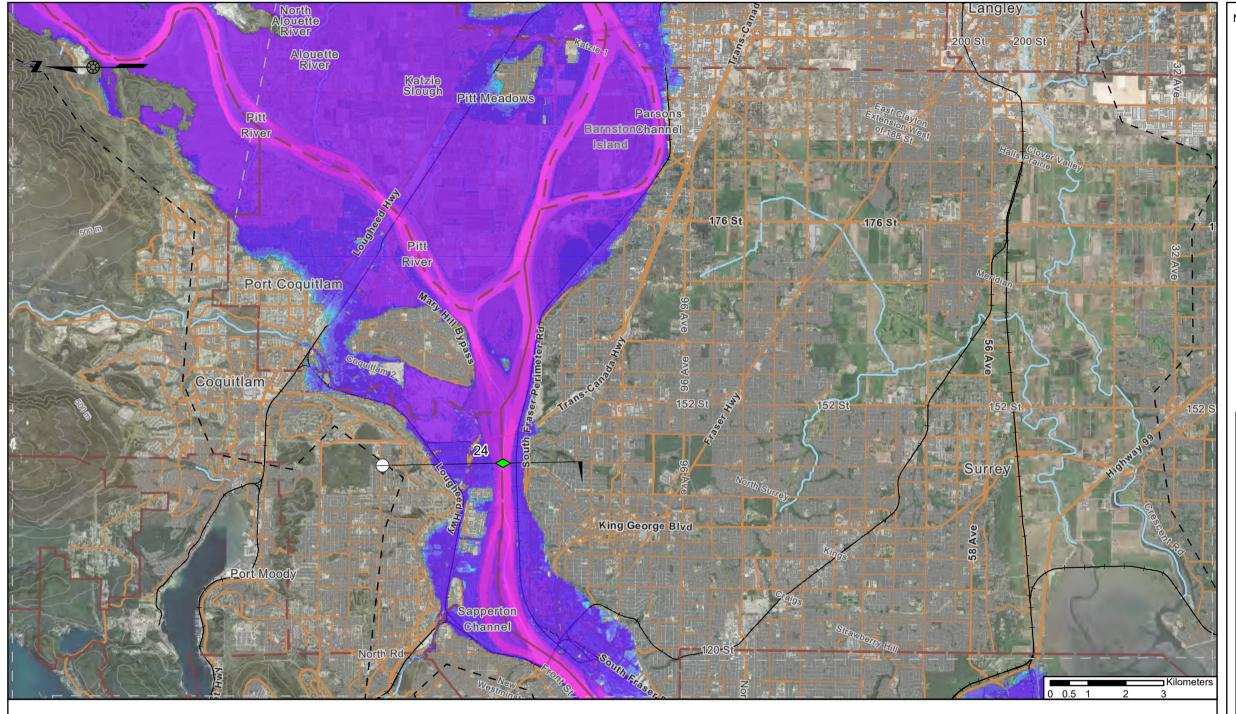
NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

02-51

2024-09-12

	PROJECT No.
1:100,000	P10436A04



ID	Max Water Level (m)	Peak Flow (m3/s)	Front Arrival Time (dd hh:mm)	Peak Arrival Time (dd hh:mm)	Flood Duration (dd)	[]	CITY BOUNDARY		WATERCOURSE	MAXIMU	JM FLOW DEPTH (m)
24	7.5	35540	4d 21:20	9d 08:20	>15		MAP SHEEET EXTENT		INDEX CONTOURS (100 m)		< 0.3
							MODEL EXTENT	A	CROSS-SECTION		0.3 - 0.5
							BUILDING	♦	BASE INFLOW		0.5 - 1 1 - 2
						$\overline{}$	RAILWAY				2 - 5
							PRIMARY ROAD				5 - 10
											10 - 15
											15 - 20
											> 20
DRA	FT										

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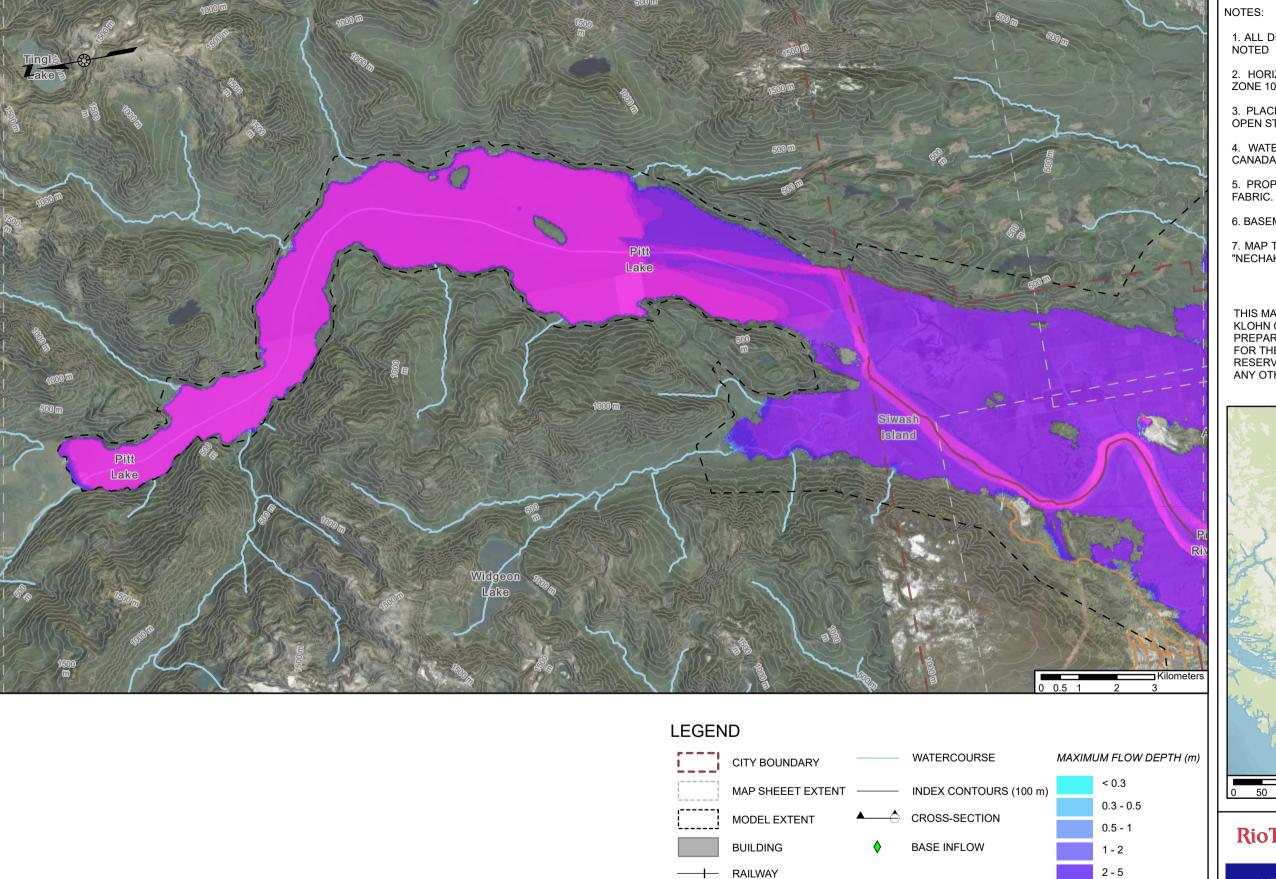


NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

SCALE

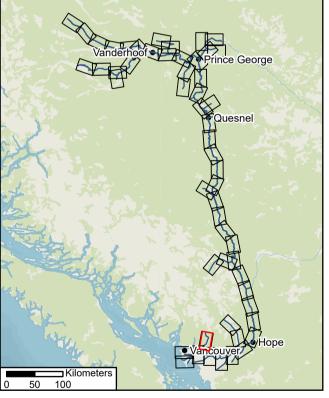
PROJECT No. Map No. P10436A04



PRIMARY ROAD

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NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

DATE 2024-09-12

5 - 10

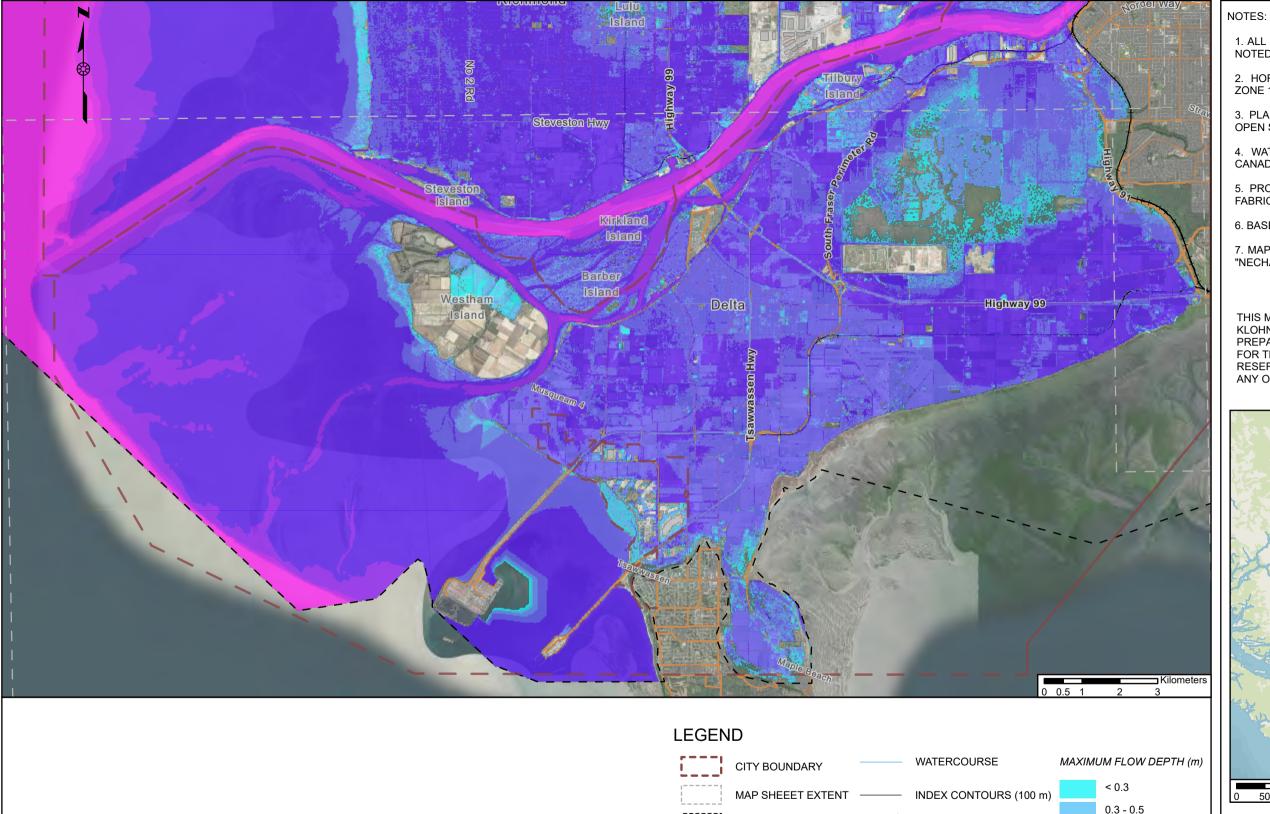
10 - 15

15 - 20

> 20

SCALE PROJECT No. P10436A04

Map No. 02-53



- 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE
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NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE **MAXIMUM FLOW DEPTH**

02-54

DATE 2024-09-12

CROSS-SECTION

BASE INFLOW

0.5 - 1

5 - 10

10 - 15

15 - 20

> 20

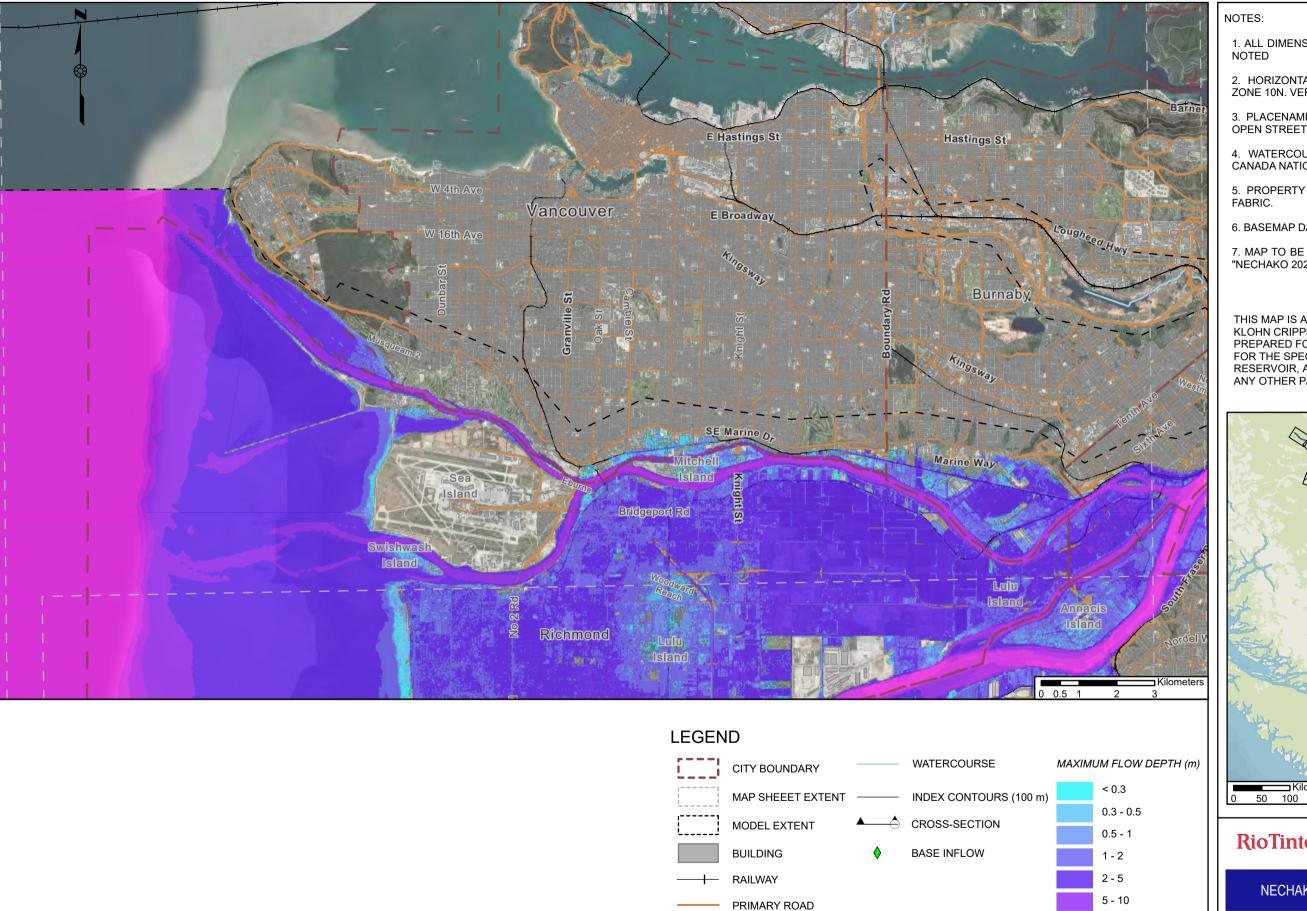
MODEL EXTENT

PRIMARY ROAD

BUILDING

RAILWAY

SCALE PROJECT No. 1:100,000 P10436A04



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NECHAKO 2024 DAM BREACH ASSESSMENT

KENNEY DAM FAIR WEATHER FAILURE
MAXIMUM FLOW DEPTH

02-55

DATE	2024-09-12
SCALE	

10 - 15

15 - 20

> 20

1:100,000 PROJECT No. Map No. P10436A04