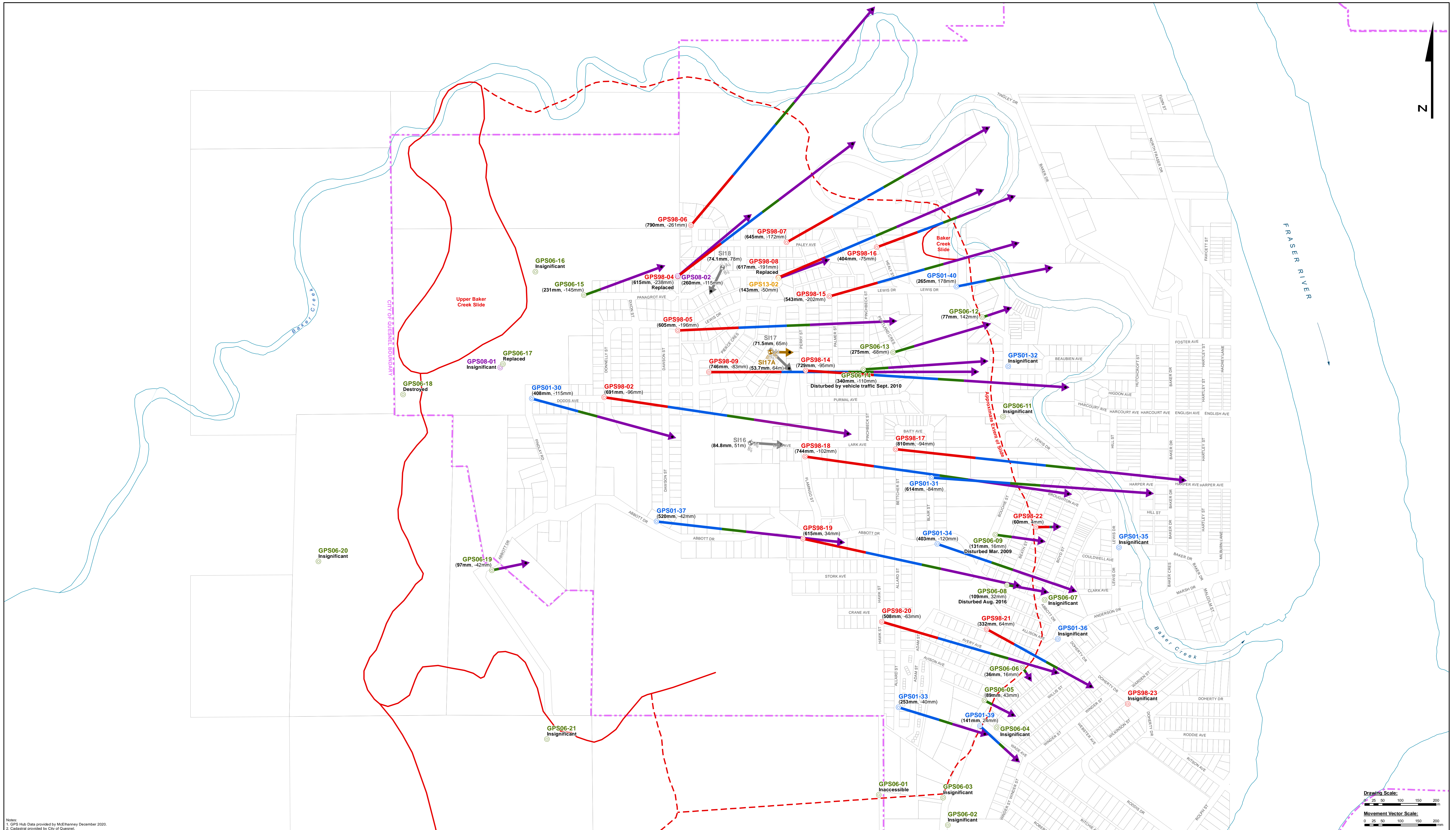


List of Figures

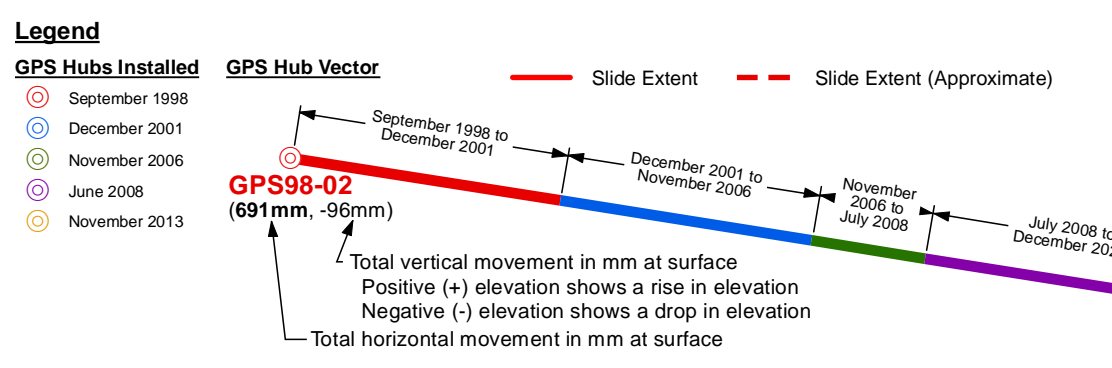
Figure 1	Summary Plan of Ground Movement (GPS Hubs and Slope Inclinerometers)
Figure 2	Total Horizontal Movement, September 1998 to December 2019
Figure 3	Total Horizontal Movement, December 2001 to December 2019
Figure 4	Total Horizontal Movement, November 2006 to December 2019
Figure 5	Total Vertical Movement, November 2006 to December 2019
Figure 6	Total 3D Movement, November 2006 to December 2019
Figure 7	Annual Horizontal Movement – 2007
Figure 8	Annual 3D Movement – 2007
Figure 9	Annual Horizontal Movement – 2008
Figure 10	Annual 3D Movement – 2008
Figure 11	Annual Horizontal Movement – 2009
Figure 12	Annual 3D Movement – 2009
Figure 13	Annual Horizontal Movement – 2010
Figure 14	Annual 3D Movement – 2010
Figure 15	Annual Horizontal Movement – 2011
Figure 16	Annual 3D Movement – 2011
Figure 17	Annual Horizontal Movement – 2012
Figure 18	Annual 3D Movement – 2012
Figure 19	Annual Horizontal Movement – 2013
Figure 20	Annual 3D Movement – 2013
Figure 21	Annual Horizontal Movement – 2014
Figure 22	Annual 3D Movement – 2014
Figure 23	Annual Horizontal Movement – 2015
Figure 24	Annual 3D Movement – 2015
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Figure 29	Annual Horizontal Movement – 2018
Figure 30	Annual 3D Movement – 2018
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Figure 35	Overall Instrumentation Site Plan
Figure 36	Cumulative Groundwater Drawdown to End of December 2020
Figure 37	2020 Pumping Well & Horizontal Drain Productivity



Notes:
 1. GPS Hub Data provided by McElhammy December 2020.
 2. Cadastre provided by City of Quesnel.

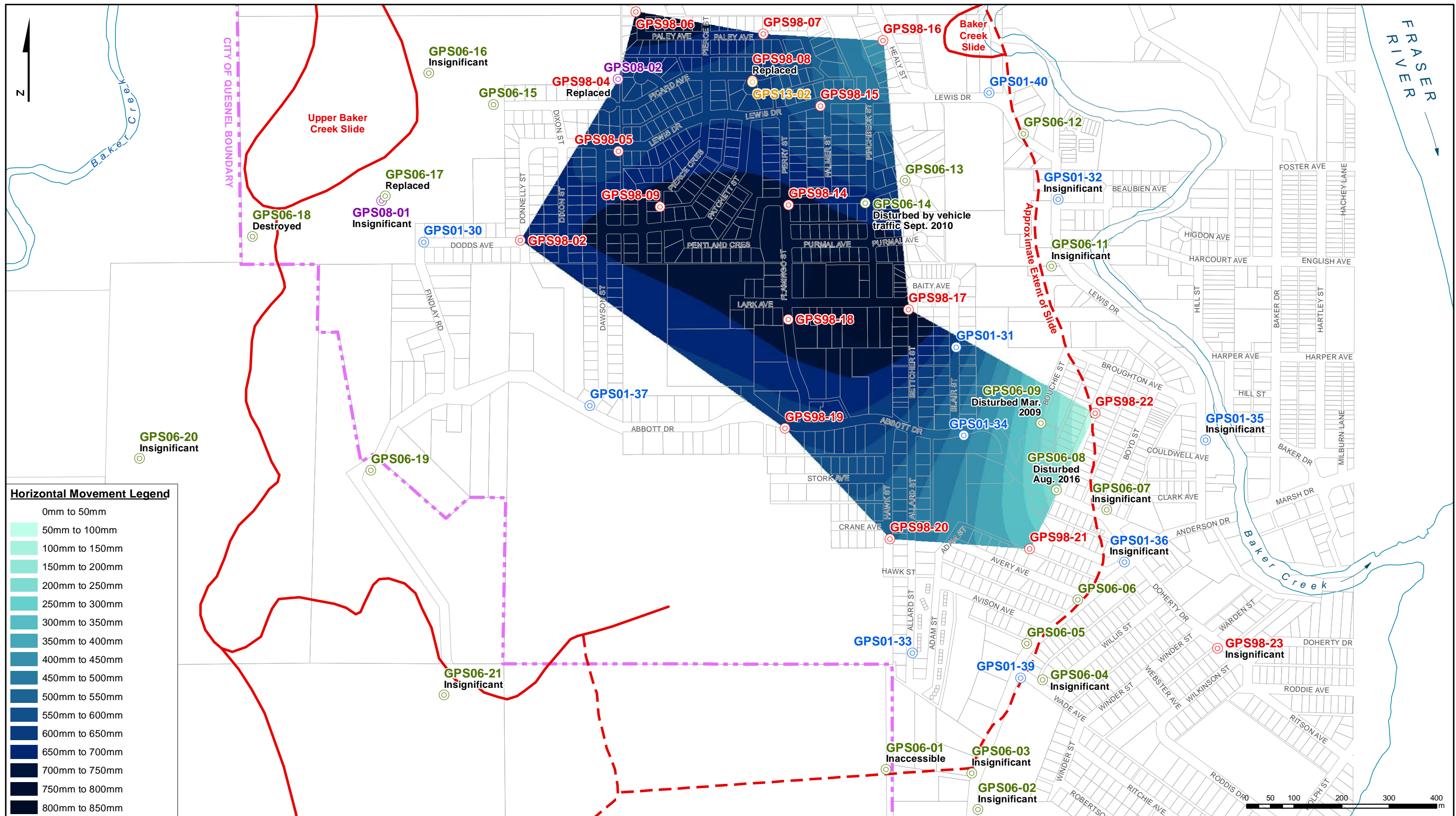
GPS Monitoring Dates

#1 December 1998	#17 December 2007	#33 November 2011	#49 December 2015
#1 December 1999	#18 March 2008	#34 April 2012	#50 April 2016
#3 December 1999	#19 June 2008	#35 July 2012	#51 July 2016
#4 February 2000	#20 August 2008	#36 September 2012	#52 October 2016
#5 May 2000	#21 November 2008	#37 December 2012	#53 December 2016
#6 December 2000	#22 March 2009	#38 April 2013	#54 April 2017
#7 May 2001	#23 June 2009	#39 July 2013	#55 August 2017
#8 December 2001	#24 September 2009	#40 October 2013	#56 October 2017
#9 May 2002	#25 November 2009	#41 November 2013	#57 December 2017
#10 October 2002	#26 March 2010	#42 April 2014	#58 June 2018
#11 November 2003	#27 July 2010	#43 July 2014	#59 December 2018
#12 January 2005	#28 September 2010	#44 October 2014	#60 June 2019
#13 March 2006	#29 November 2010	#45 November 2014	#61 December 2019
#14 November 2006	#30 April 2011	#46 April 2015	#62 June 2020
#15 April 2007	#31 June 2011	#47 July 2015	#63 December 2020
#16 August 2007	#32 October 2011	#48 October 2015	

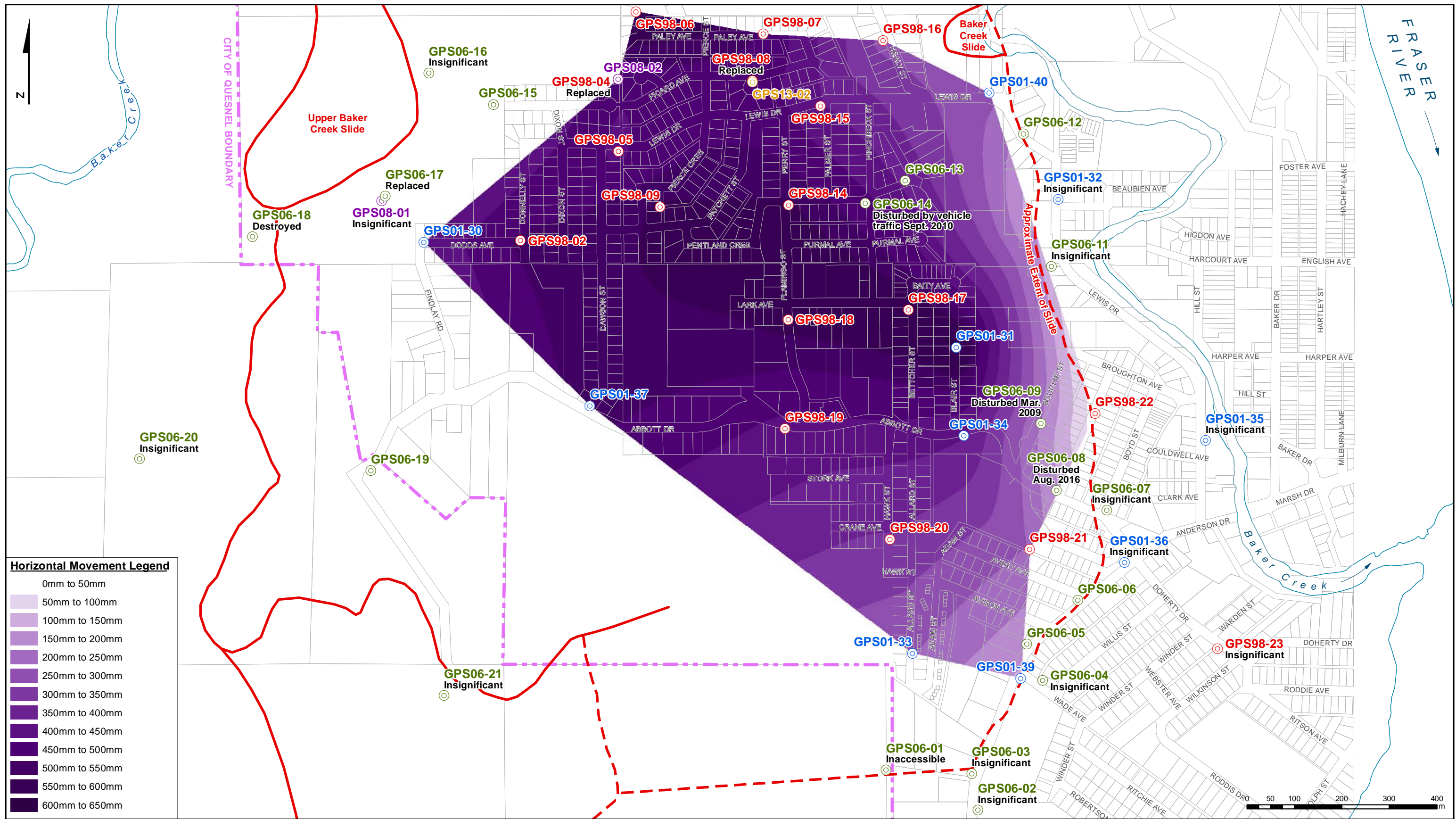


Sensor	Initialization Date	Total Movement Date	Comments
SI16-D	20-Sep-12	14-Jul-2020	Failed 8-Nov-2020
SI17-B	16-Oct-12	31-Aug-2018	Decommissioned
SI17-A	26-Nov-19	31-Dec-2020	Active
SI18-A	1-Jun-16	31-Dec-2020	Under Review

	CLIENT:	CITY OF QUESNEL	DWN BY:	BB	TITLE:	SUMMARY PLAN OF GROUND MOVEMENT (GPS HUBS AND SLOPE INCLINOMETERS)	DATE:	JANUARY 2021
		Environment & Infrastructure Solutions 3456 Opie Crescent Prince George, BC, CANADA V2N 2P9	CHK'D BY:	DO	PROJECT:	WEST QUESNEL LAND STABILITY PROGRAM QUESNEL, BC	PROJECT NO.:	KX0439755
			DATUM:	NAD 83			REV NO.:	A
			PROJECTION:	UTM Zone 10				FIGURE 1
			SCALE:	1:5,000				



	CLIENT:	CITY OF QUESNEL	DWN BY:	BB	TITLE:	TOTAL HORIZONTAL MOVEMENT SEPTEMBER 1998 TO DECEMBER 2020 FOR THE 1998 GPS HUBS	DATE:	JANUARY 2021
	Wood Environment & Infrastructure Solutions a Division of Wood Canada Limited (Wood) 3456 Opie Crescent Prince George, BC, CANADA V2N 2P9 Tel. (250) 564-3243 Fax (250) 562-7045	CHK'D BY:	DO	DATUM:	NAD 83	PROJECT:	WEST QUESNEL LAND STABILITY PROGRAM QUESNEL, BC	PROJECT NO.:
			PROJECTION:	UTM Zone 10			REV NO.:	A
			SCALE:	1:7,500				FIGURE 2



Legend

- Slide Extent
- Slide Extent (Approximate)

CITY OF Quesnel

wood.

CLIENT:
CITY OF QUESNEL

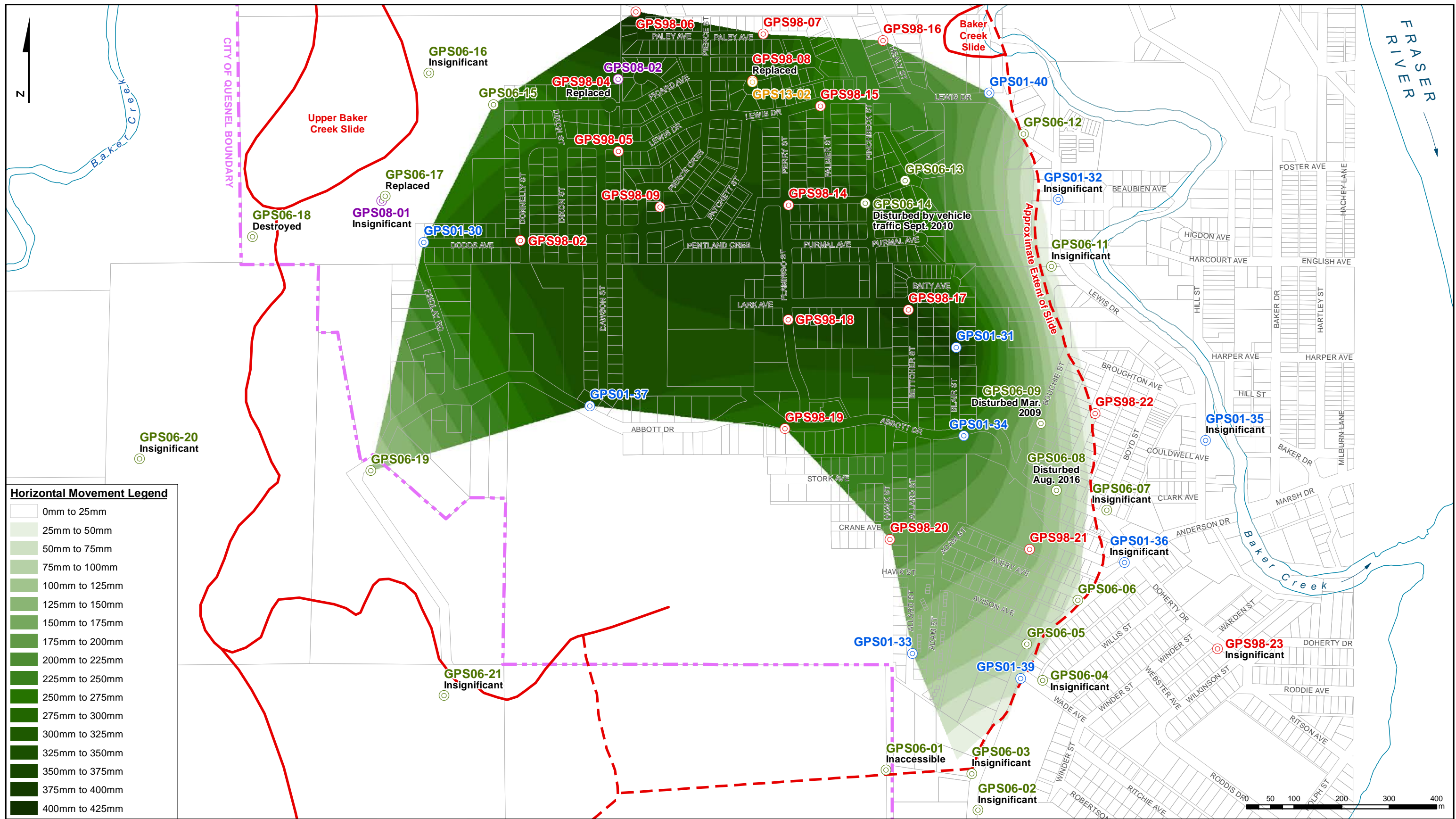
Wood Environment & Infrastructure Solutions
a Division of Wood Canada Limited (Wood)
3456 Opie Crescent
Prince George, BC, CANADA V2N 2P9
Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB
CHK'D BY: DO
DATUM: NAD 83
PROJECTION: UTM Zone 10
SCALE: 1:7,500

TITLE: TOTAL HORIZONTAL MOVEMENT
DECEMBER 2001 TO DECEMBER 2020
FOR THE 1998 AND 2001 GPS HUBS

PROJECT: WEST QUESNEL LAND STABILITY PROGRAM
QUESNEL, BC

DATE: JANUARY 2021
PROJECT NO.: KX0439755
REV NO.: A
FIGURE 3



Legend

- Slide Extent
- Slide Extent (Approximate)

CITY OF Quesnel

wood.

CLIENT:

CITY OF QUESNEL

Wood Environment & Infrastructure Solutions
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3456 Opie Crescent
Prince George, BC, CANADA V2N 2P9
Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB

CHK'D BY: DO

DATUM: NAD 83

PROJECTION: UTM Zone 10

SCALE: 1:7,500

TITLE: **TOTAL HORIZONTAL MOVEMENT
NOVEMBER 2006 TO DECEMBER 2020
FOR THE 1998, 2001 AND 2006 GPS HUBS**

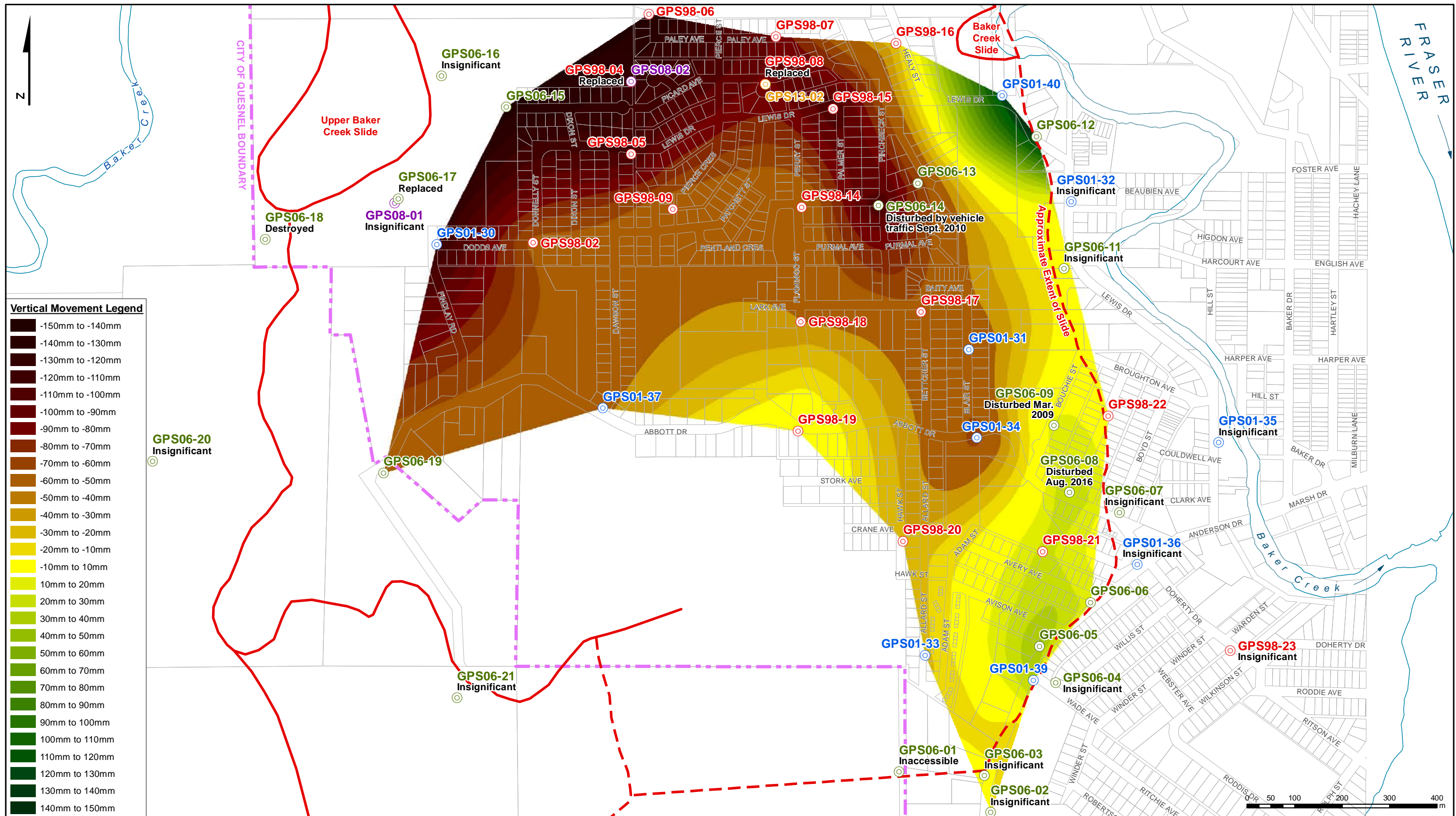
PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM
QUESNEL, BC**

DATE: JANUARY 2021

PROJECT NO.: KX0439755

REV NO.: A

FIGURE 4



Legend

- Slide Extent
- Slide Extent (Approximate)

CITY OF Quesnel

wood.

CLIENT: CITY OF QUESNEL

Wood Environment & Infrastructure Solutions
a Division of Wood Canada Limited (Wood)
3456 Opie Crescent
Prince George, BC, CANADA V2N 2P9
Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB

CHK'D BY: DO

DATUM: NAD 83

PROJECTION: UTM Zone 10

SCALE: 1:7,500

TITLE: TOTAL VERTICAL MOVEMENT
NOVEMBER 2006 TO DECEMBER 2020
FOR THE 1998, 2001 AND 2006 GPS HUBS

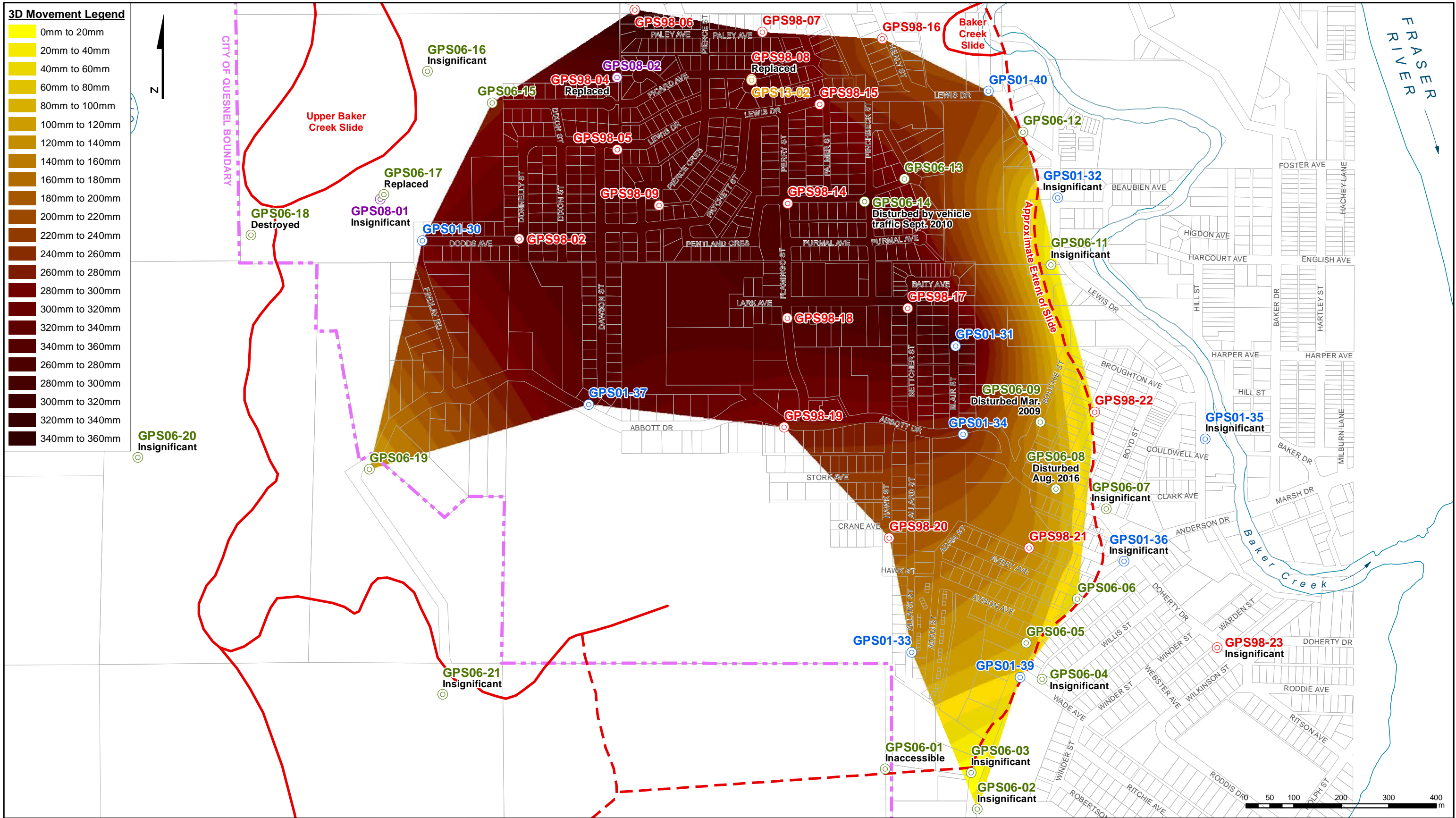
PROJECT: WEST QUESNEL LAND STABILITY PROGRAM
QUESNEL, BC

DATE: JANUARY 2021

PROJECT NO.: KX0439755

REV NO.: A

FIGURE 5



Legend

- Slide Extent
- Slide Extent (Approximate)

CITY OF Quesnel

wood.

CLIENT:

CITY OF QUESNEL

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 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB

CHK'D BY: DO

DATUM: NAD 83

PROJECTION: UTM Zone 10

SCALE: 1:7,500

TITLE:

**TOTAL 3D MOVEMENT
 NOVEMBER 2006 TO DECEMBER 2020
 FOR THE 1998, 2001 AND 2006 GPS HUBS**

PROJECT:

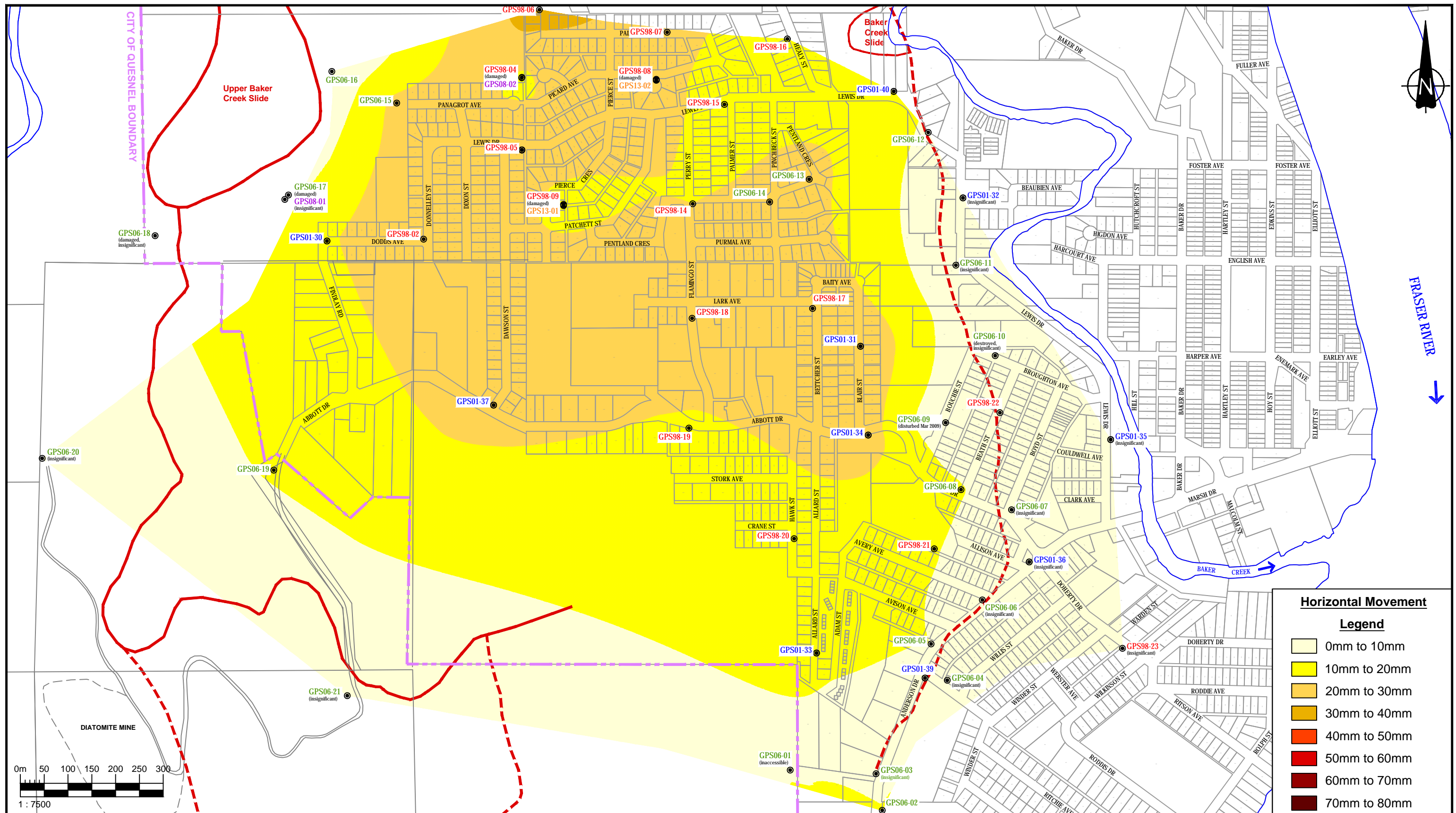
**WEST QUESNEL LAND STABILITY PROGRAM
 QUESNEL, BC**

DATE: JANUARY 2021

PROJECT NO.: KX0439755

REV NO.: A

FIGURE 6



Legend

- Slide Extent
- Slide Extent (Approximate)

CITY OF Quesnel

wood.

CLIENT:

CITY OF QUESNEL

Wood Environment & Infrastructure Solutions
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 Prince George, BC, CANADA V2N 2P9
 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: SR/BB

CHK'D BY: DO

DATUM: NAD83

PROJECTION: UTM Zone 10

SCALE: 1:7 500

TITLE: **ANNUAL HORIZONTAL MOVEMENT - 2007
 NOVEMBER 2006 TO DECEMBER 2007
 FOR THE 1998, 2001 AND 2006 GPS HUBS**

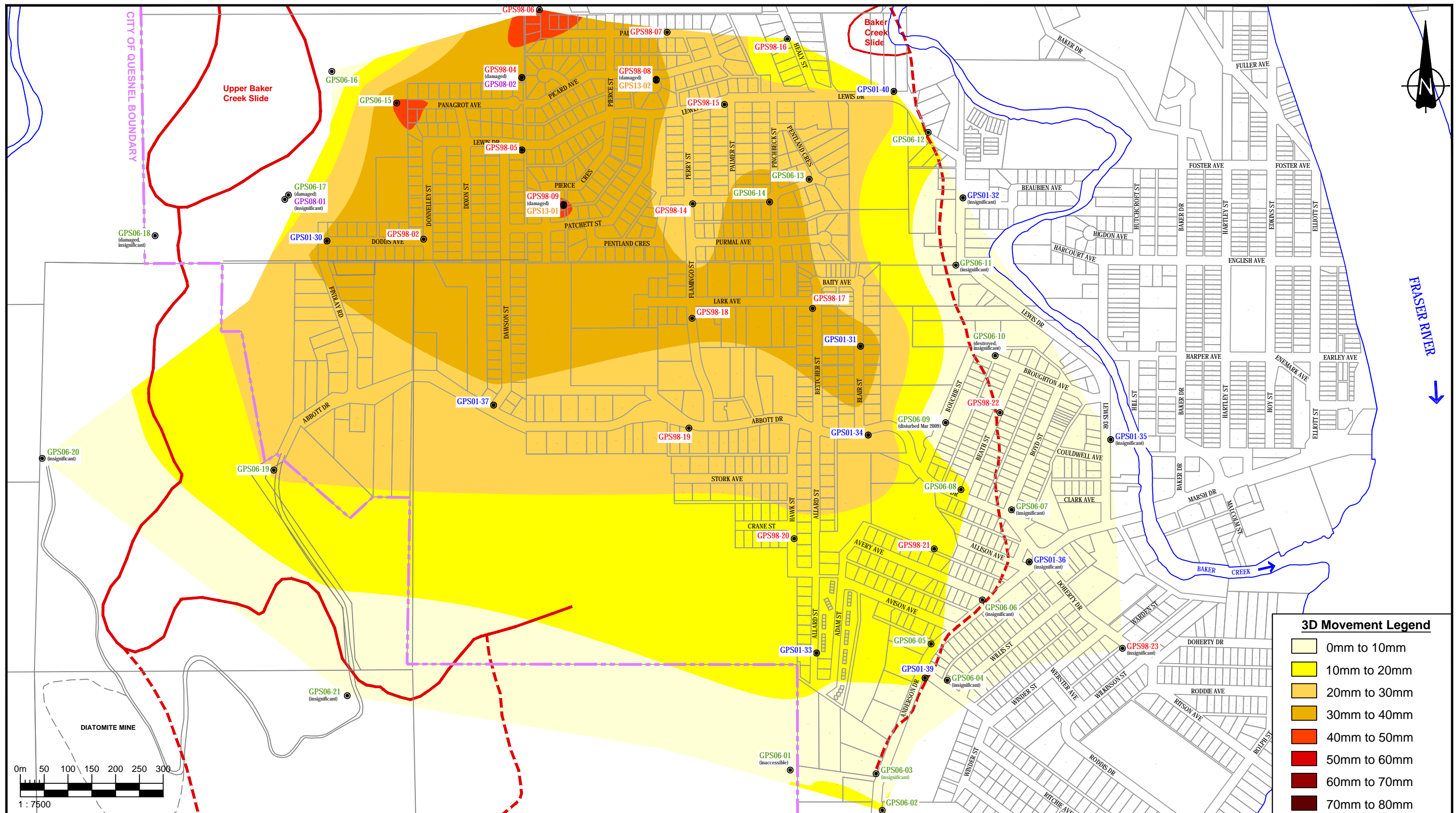
PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM
 QUESNEL, BC**

DATE: JANUARY 2021

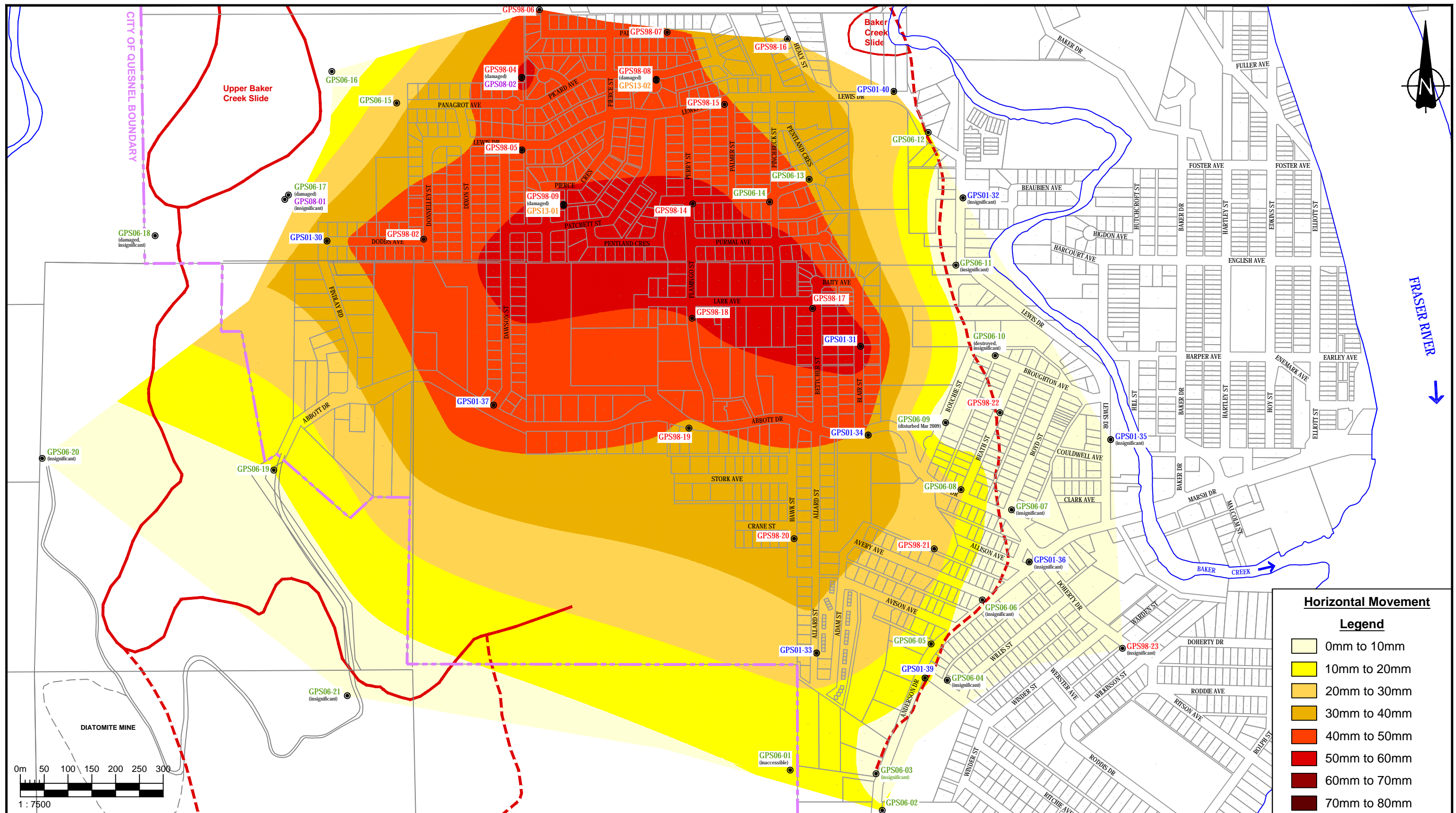
PROJECT NO.: KX0439755

REV. NO.: A

FIGURE 7



Legend Slide Extent Slide Extent (Approximate)		CLIENT: CITY OF QUESNEL	DWN BY: SR/BB CHK'D BY: DO DATUM: NAD83 PROJECTION: UTM Zone 10 SCALE: 1:7 500	TITLE: ANNUAL 3D MOVEMENT - 2007 NOVEMBER 2006 TO DECEMBER 2007 FOR THE 1998, 2001 AND 2006 GPS HUBS	DATE: JANUARY 2021 PROJECT NO.: KX0439755 REV. NO.: A
		Wood Environment & Infrastructure Solutions a Division of Wood Canada Limited (Wood) 3456 Opie Crescent Prince George, BC, CANADA V2N 2P9 Tel. (250) 564-3243 Fax (250) 562-7045	PROJECT: WEST QUESNEL LAND STABILITY PROGRAM QUESNEL, BC	FIGURE 8	



Legend	
	Slide Extent
	Slide Extent (Approximate)

CITY OF Quesnel

wood.

CLIENT:

CITY OF QUESNEL

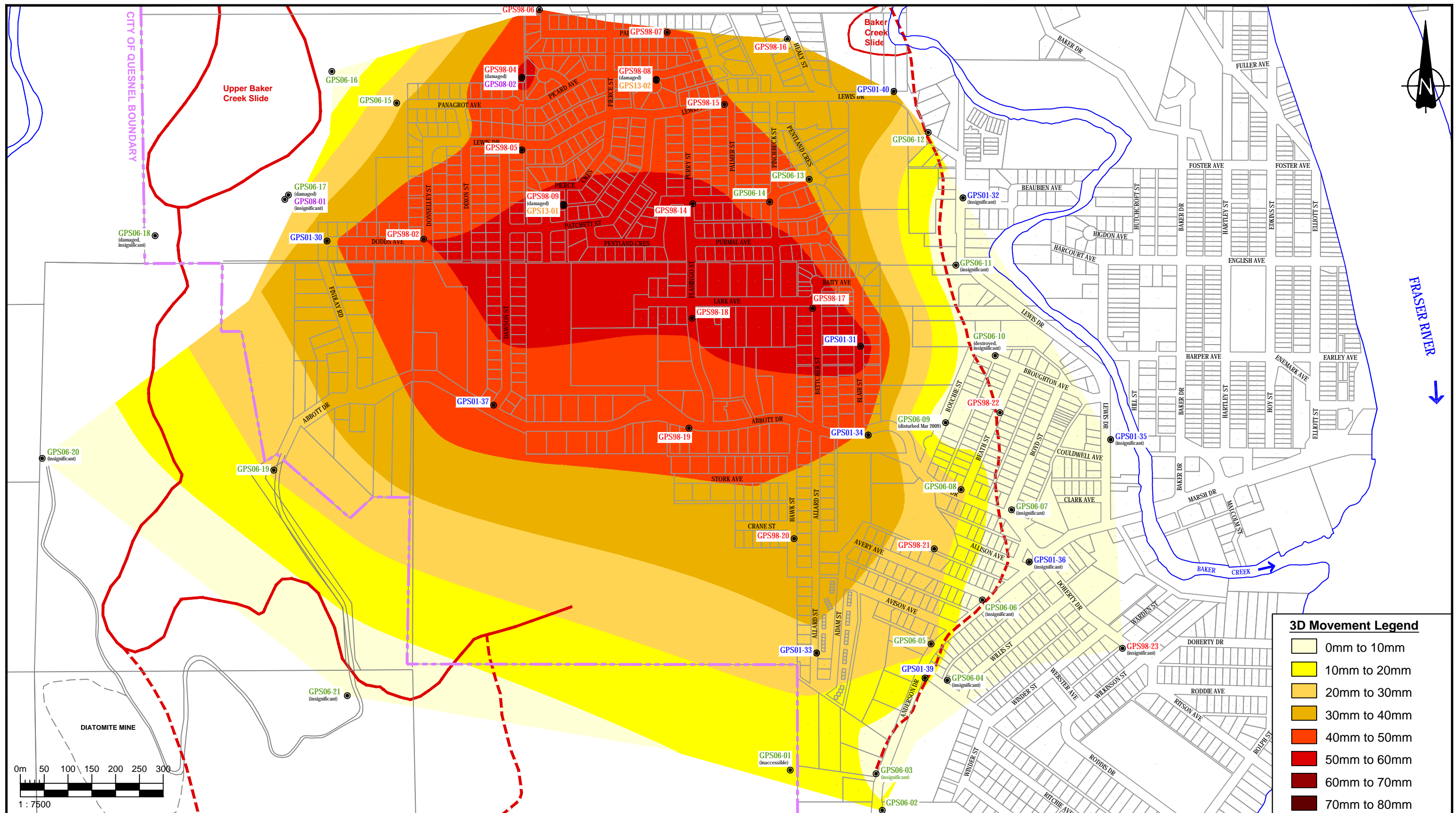
Wood Environment & Infrastructure Solutions
 a Division of Wood Canada Limited (Wood)
 3456 Opie Crescent
 Prince George, BC, CANADA V2N 2P9
 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY:	SR/BB
CHK'D BY:	DO
DATUM:	NAD83
PROJECTION:	UTM Zone 10
SCALE:	1:7 500

TITLE: **ANNUAL HORIZONTAL MOVEMENT - 2008
 DECEMBER 2007 TO NOVEMBER 2008
 FOR THE 1998, 2001 AND 2006 GPS HUBS**

PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM
 QUESNEL, BC**

DATE:	JANUARY 2021
PROJECT NO.:	KX0439755
REV. NO.:	A
FIGURE 9	



3D Movement Legend

0mm to 10mm
10mm to 20mm
20mm to 30mm
30mm to 40mm
40mm to 50mm
50mm to 60mm
60mm to 70mm
70mm to 80mm

Legend

- Slide Extent
- Slide Extent (Approximate)



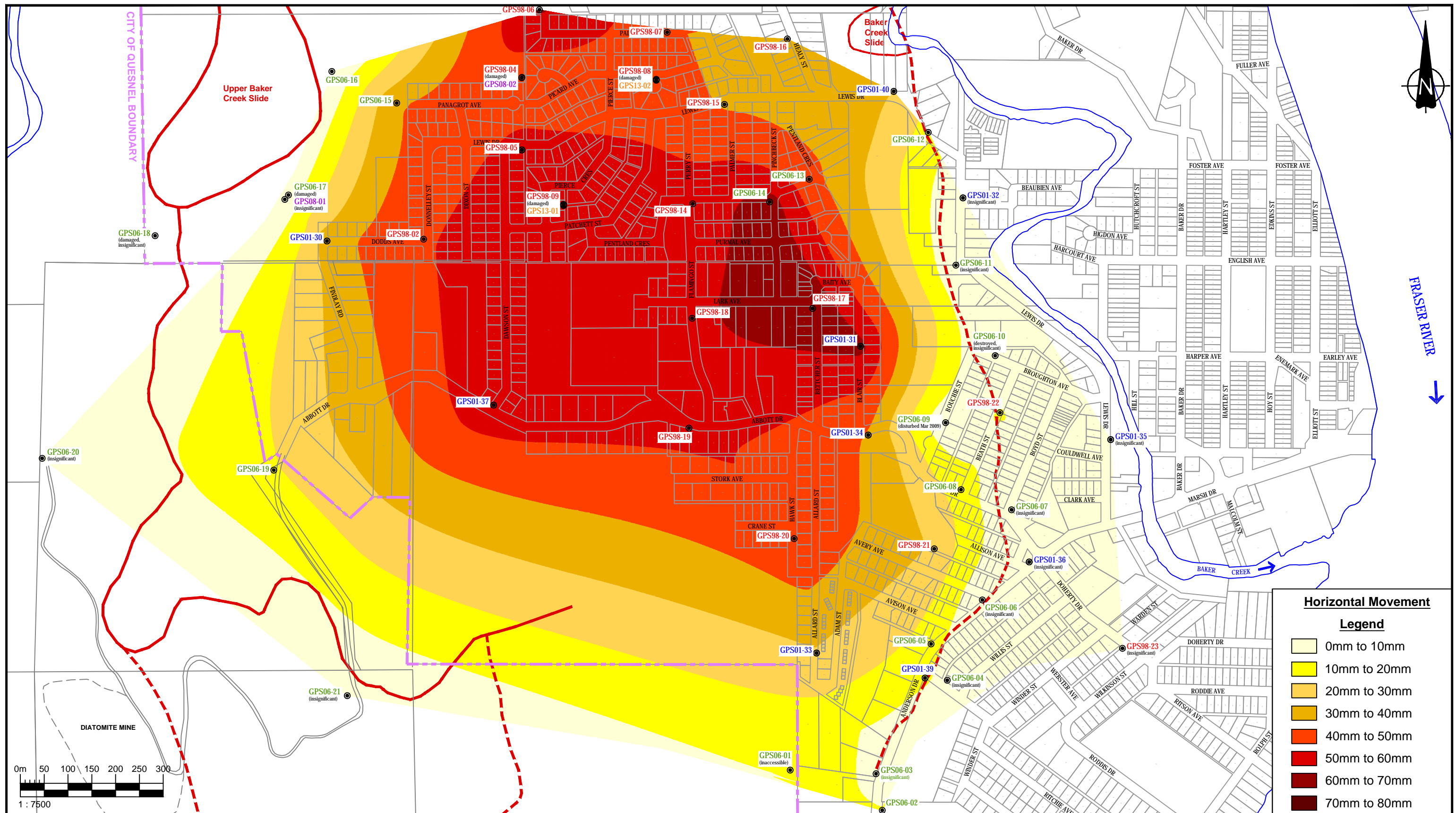
CLIENT:
CITY OF QUESNEL
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 a Division of Wood Canada Limited (Wood)
 3456 Opie Crescent
 Prince George, BC, CANADA V2N 2P9
 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: SR/BB
 CHK'D BY: DO
 DATUM: NAD83
 PROJECTION: UTM Zone 10
 SCALE: 1:7 500

TITLE: **ANNUAL 3D MOVEMENT - 2008
 DECEMBER 2007 TO NOVEMBER 2008
 FOR THE 1998, 2001 AND 2006 GPS HUBS**

PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM
 QUESNEL, BC**

DATE: JANUARY 2021
 PROJECT NO.: KX0439755
 REV. NO.: A
FIGURE 10



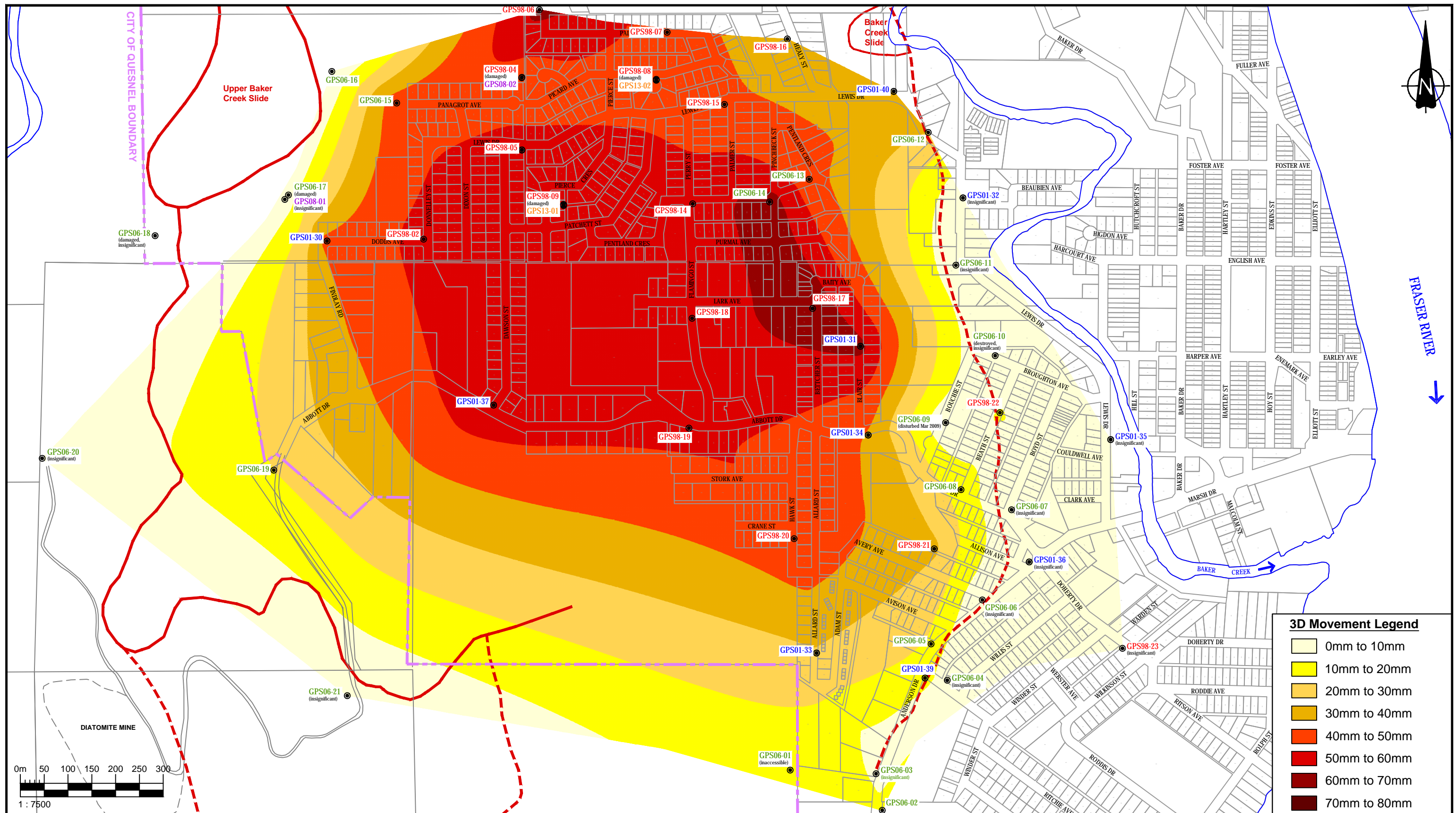
Legend	
	Slide Extent
	Slide Extent (Approximate)

CLIENT:
CITY OF QUESNEL
Wood Environment & Infrastructure Solutions
 a Division of Wood Canada Limited (Wood)
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 Prince George, BC, CANADA V2N 2P9
 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: SR/BB
 CHK'D BY: DO
 DATUM: NAD83
 PROJECTION: UTM Zone 10
 SCALE: 1:7 500

TITLE: **ANNUAL HORIZONTAL MOVEMENT - 2009**
NOVEMBER 2008 TO NOVEMBER 2009
FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS
 PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM**
QUESNEL, BC

DATE: JANUARY 2021
 PROJECT NO.: KX0439755
 REV. NO.: A
FIGURE 11



Legend

- Slide Extent
- Slide Extent (Approximate)

CITY OF Quesnel

wood.

CLIENT:

CITY OF QUESNEL

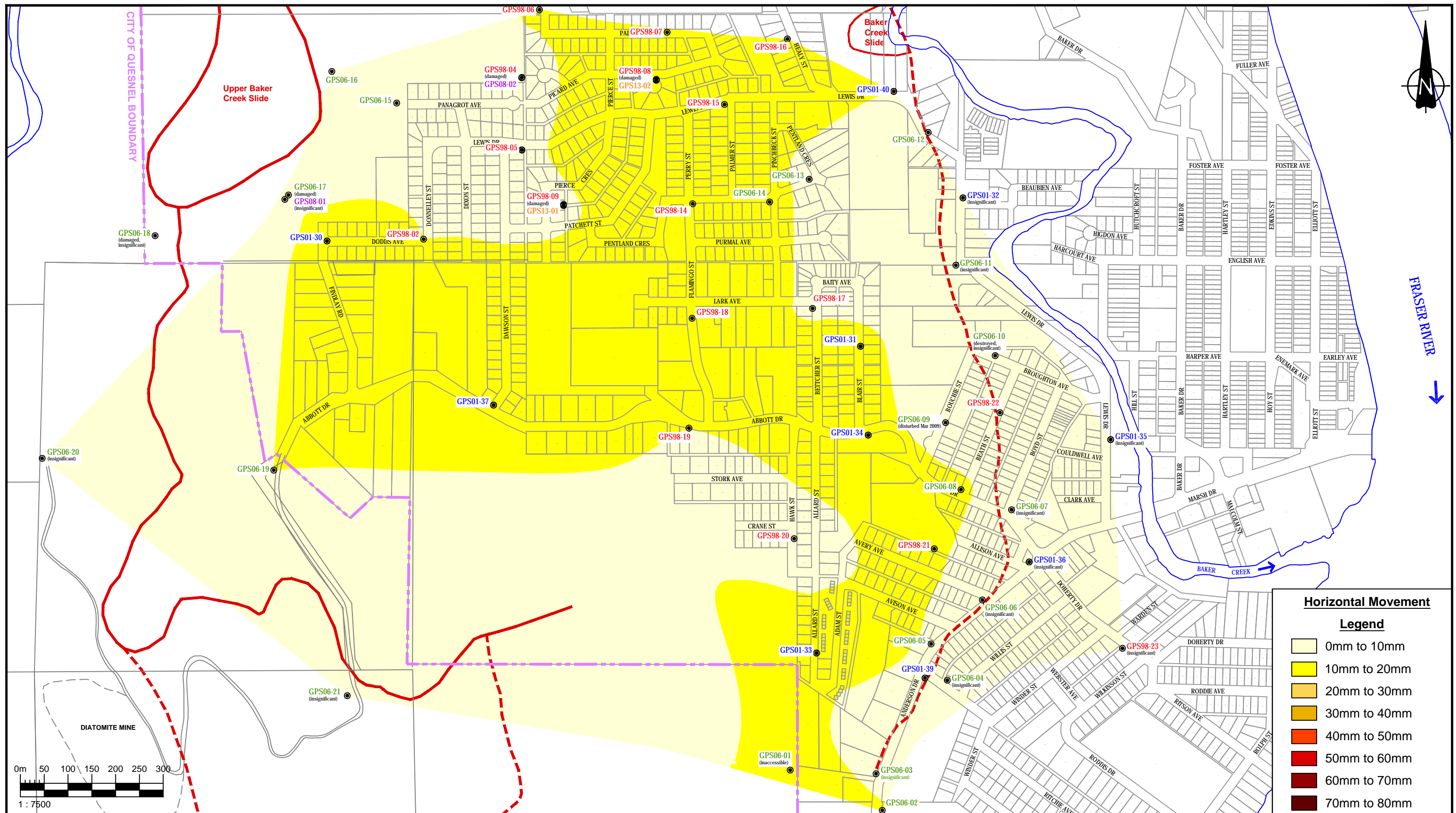
Wood Environment & Infrastructure Solutions
 a Division of Wood Canada Limited (Wood)
 3456 Opie Crescent
 Prince George, BC, CANADA V2N 2P9
 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: SR/BB
 CHK'D BY: DO
 DATUM: NAD83
 PROJECTION: UTM Zone 10
 SCALE: 1:7 500

TITLE: **ANNUAL 3D MOVEMENT - 2009**
NOVEMBER 2008 TO NOVEMBER 2009
FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS

PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM**
QUESNEL, BC

DATE: JANUARY 2021
 PROJECT NO.: KX0439755
 REV. NO.: A
FIGURE 12



Legend

- Slide Extent
- Slide Extent (Approximate)

CITY OF Quesnel

wood.

CLIENT:

CITY OF QUESNEL

Wood Environment & Infrastructure Solutions

a Division of Wood Canada Limited (Wood)

3456 Opie Crescent

Prince George, BC, CANADA V2N 2P9

Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: SR/BB

CHK'D BY: DO

DATUM: NAD83

PROJECTION: UTM Zone 10

SCALE: 1:7 500

TITLE: **ANNUAL HORIZONTAL MOVEMENT - 2010**

NOVEMBER 2009 TO NOVEMBER 2010

FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS

PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM**

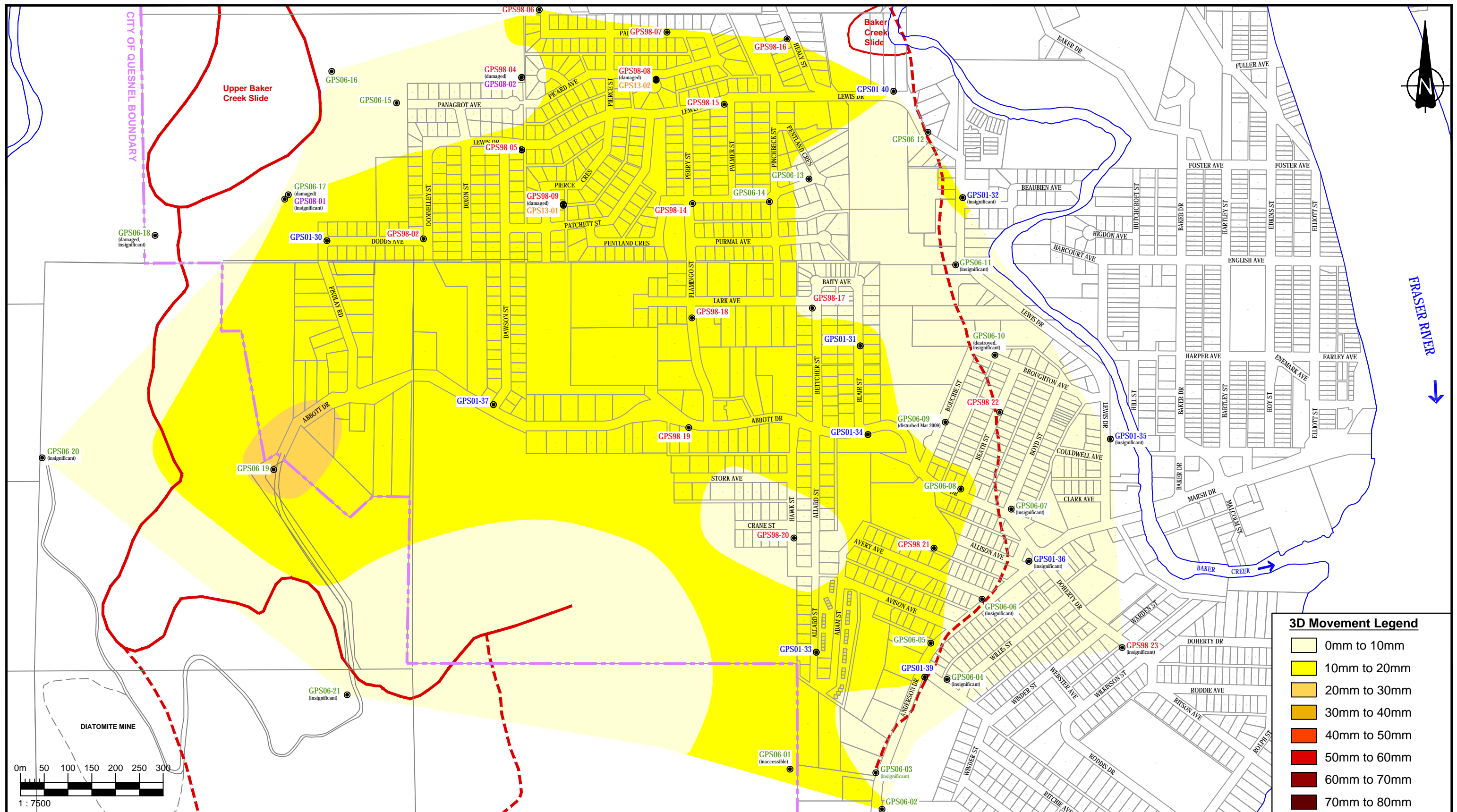
QUESNEL, BC

DATE: JANUARY 2021

PROJECT NO.: KX0439755

REV. NO.: A

FIGURE 13



Legend
Slide Extent
Slide Extent (Approximate)

CITY OF Quesnel

wood.

CLIENT:

CITY OF QUESNEL

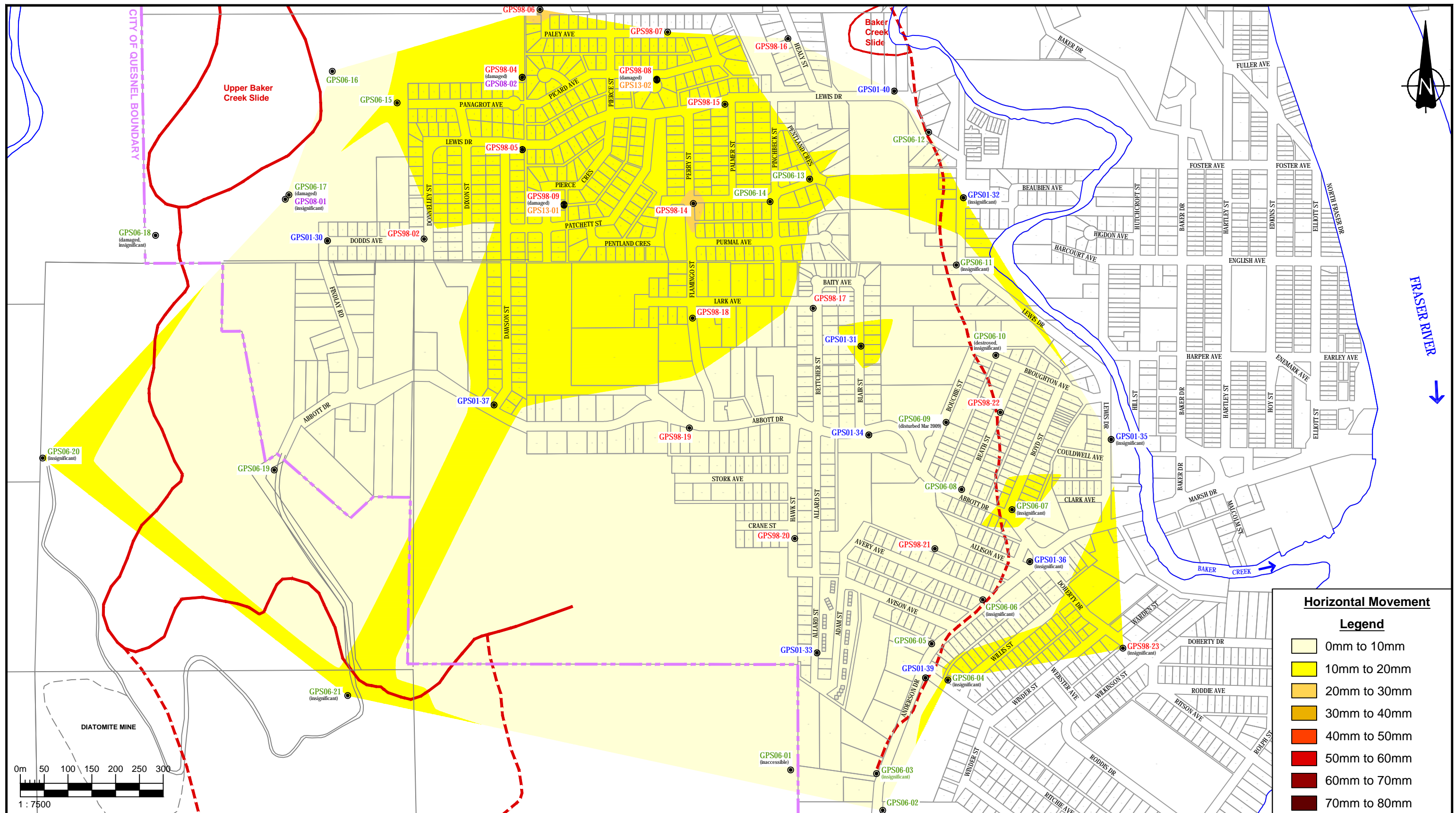
Wood Environment & Infrastructure Solutions
 a Division of Wood Canada Limited (Wood)
 3456 Opie Crescent
 Prince George, BC, CANADA V2N 2P9
 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY:	SR/BB
CHK'D BY:	DO
DATUM:	NAD83
PROJECTION:	UTM Zone 10
SCALE:	1:7 500

TITLE: **ANNUAL 3D MOVEMENT - 2010**
NOVEMBER 2009 TO NOVEMBER 2010
FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS

PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM**
QUESNEL, BC

DATE:	JANUARY 2021
PROJECT NO.:	KX0439755
REV. NO.:	A
FIGURE 14	



Legend	
	Slide Extent
	Slide Extent (Approximate)

CITY OF Quesnel

wood.

CLIENT:

CITY OF QUESNEL

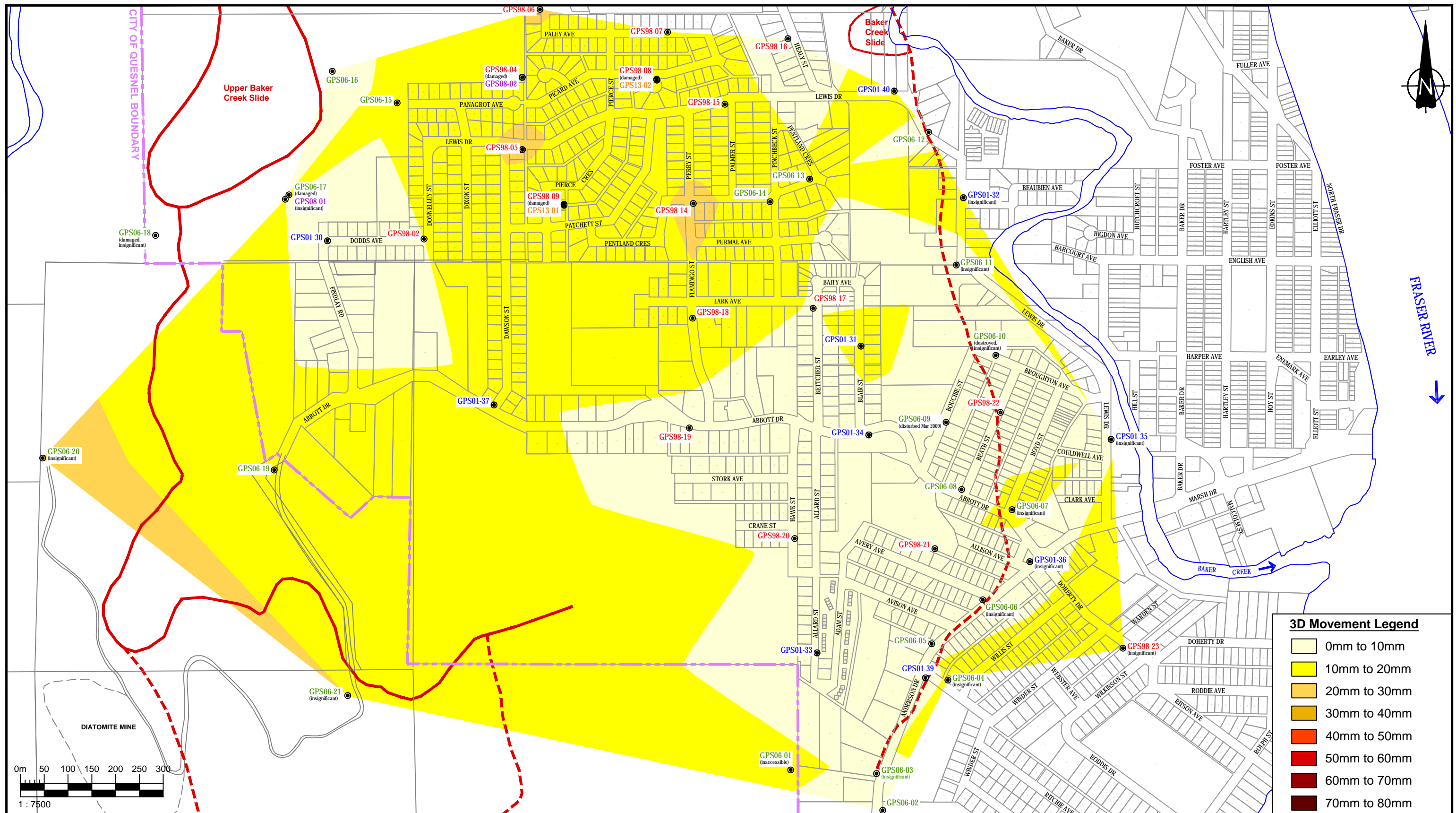
Wood Environment & Infrastructure Solutions
 a Division of Wood Canada Limited (Wood)
 3456 Opie Crescent
 Prince George, BC, CANADA V2N 2P9
 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB
 CHK'D BY: DO
 DATUM: NAD83
 PROJECTION: UTM Zone 10
 SCALE: 1:7 500

TITLE: **ANNUAL HORIZONTAL MOVEMENT - 2011
 NOVEMBER 2010 TO NOVEMBER 2011
 FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS**

PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM
 QUESNEL, BC**

DATE: JANUARY 2021
 PROJECT NO.: KX0439755
 REV. NO.: A
FIGURE 15



Legend

- Slide Extent
- Slide Extent (Approximate)

CITY OF Quesnel

wood.

CLIENT:

CITY OF QUESNEL

Wood Environment & Infrastructure Solutions
 a Division of Wood Canada Limited (Wood)
 3456 Opie Crescent
 Prince George, BC, CANADA V2N 2P9
 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB

CHK'D BY: DO

DATUM: NAD83

PROJECTION: UTM Zone 10

SCALE: 1:7 500

TITLE: **ANNUAL 3D MOVEMENT - 2011**
NOVEMBER 2010 TO NOVEMBER 2011
FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS

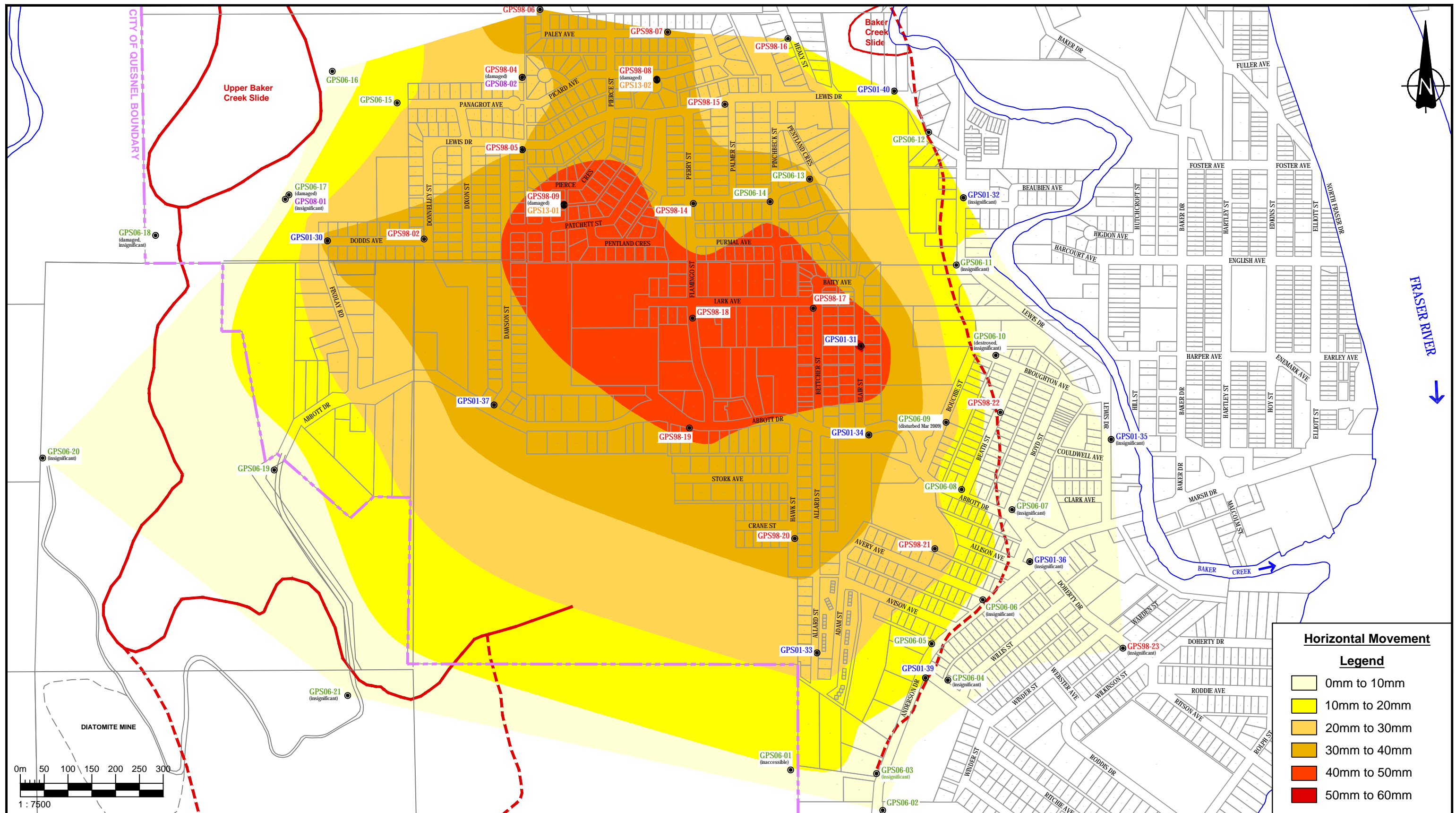
PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM**
QUESNEL, BC

DATE: JANUARY 2021

PROJECT NO.: KX0439755

REV. NO.: A

FIGURE 16



Horizontal Movement Legend

- 0mm to 10mm
- 10mm to 20mm
- 20mm to 30mm
- 30mm to 40mm
- 40mm to 50mm
- 50mm to 60mm

Legend

- Slide Extent
- Slide Extent (Approximate)

CITY OF Quesnel

wood.

CLIENT:

CITY OF QUESNEL

Wood Environment & Infrastructure Solutions
 a Division of Wood Canada Limited (Wood)
 3456 Opie Crescent
 Prince George, BC, CANADA V2N 2P9
 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB

CHK'D BY: DO

DATUM: NAD83

PROJECTION: UTM Zone 10

SCALE: 1:7 500

TITLE: **ANNUAL HORIZONTAL MOVEMENT - 2012**
NOVEMBER 2011 TO DECEMBER 2012
FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS

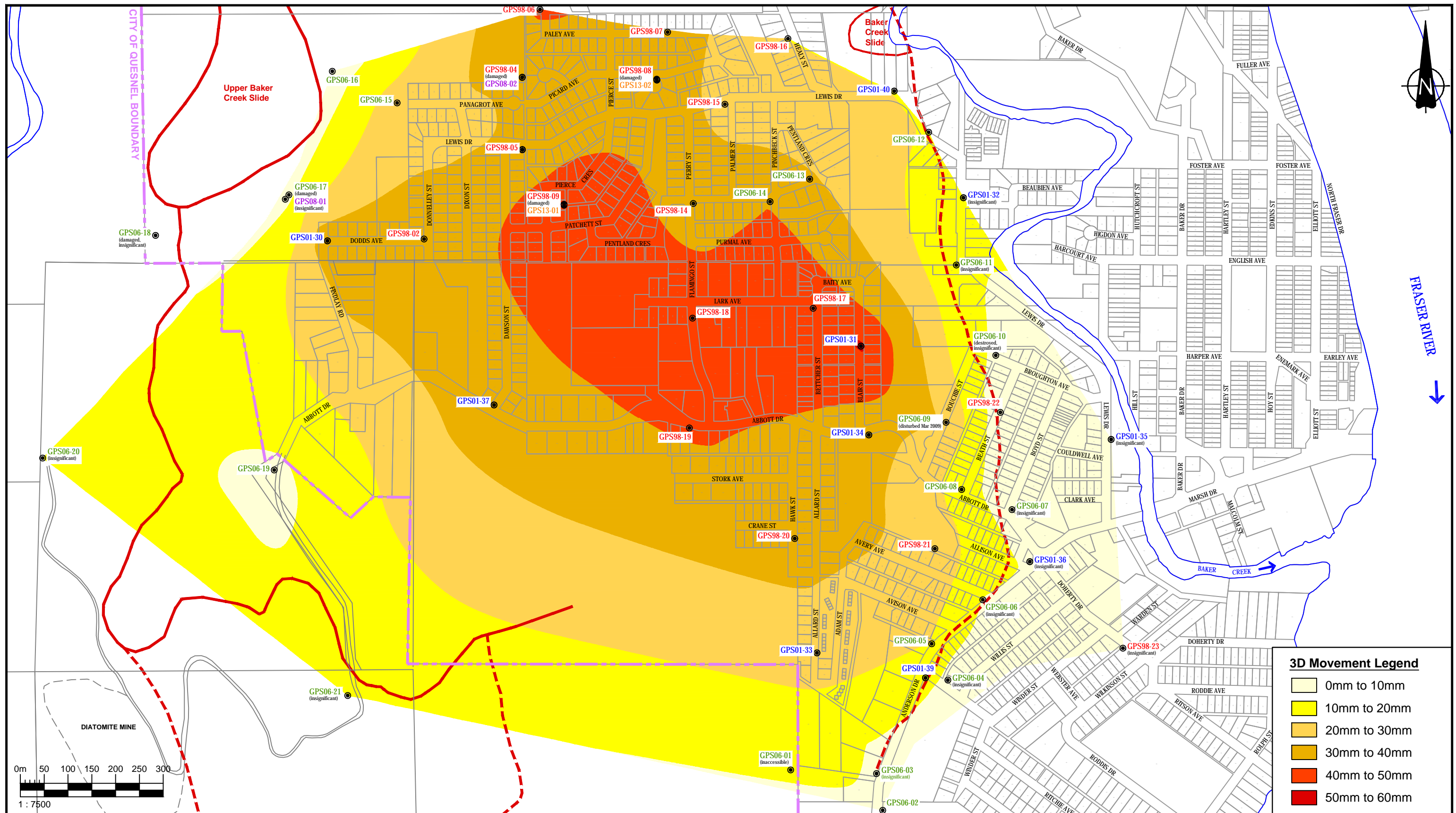
PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM**
QUESNEL, BC

DATE: JANUARY 2021

PROJECT NO.: KX0439755

REV. NO.: A

FIGURE 17



3D Movement Legend

Lightest Yellow	0mm to 10mm
Yellow	10mm to 20mm
Light Orange	20mm to 30mm
Orange	30mm to 40mm
Dark Orange	40mm to 50mm
Red	50mm to 60mm

Legend

- Slide Extent
- Slide Extent (Approximate)

CITY OF Quesnel

wood.

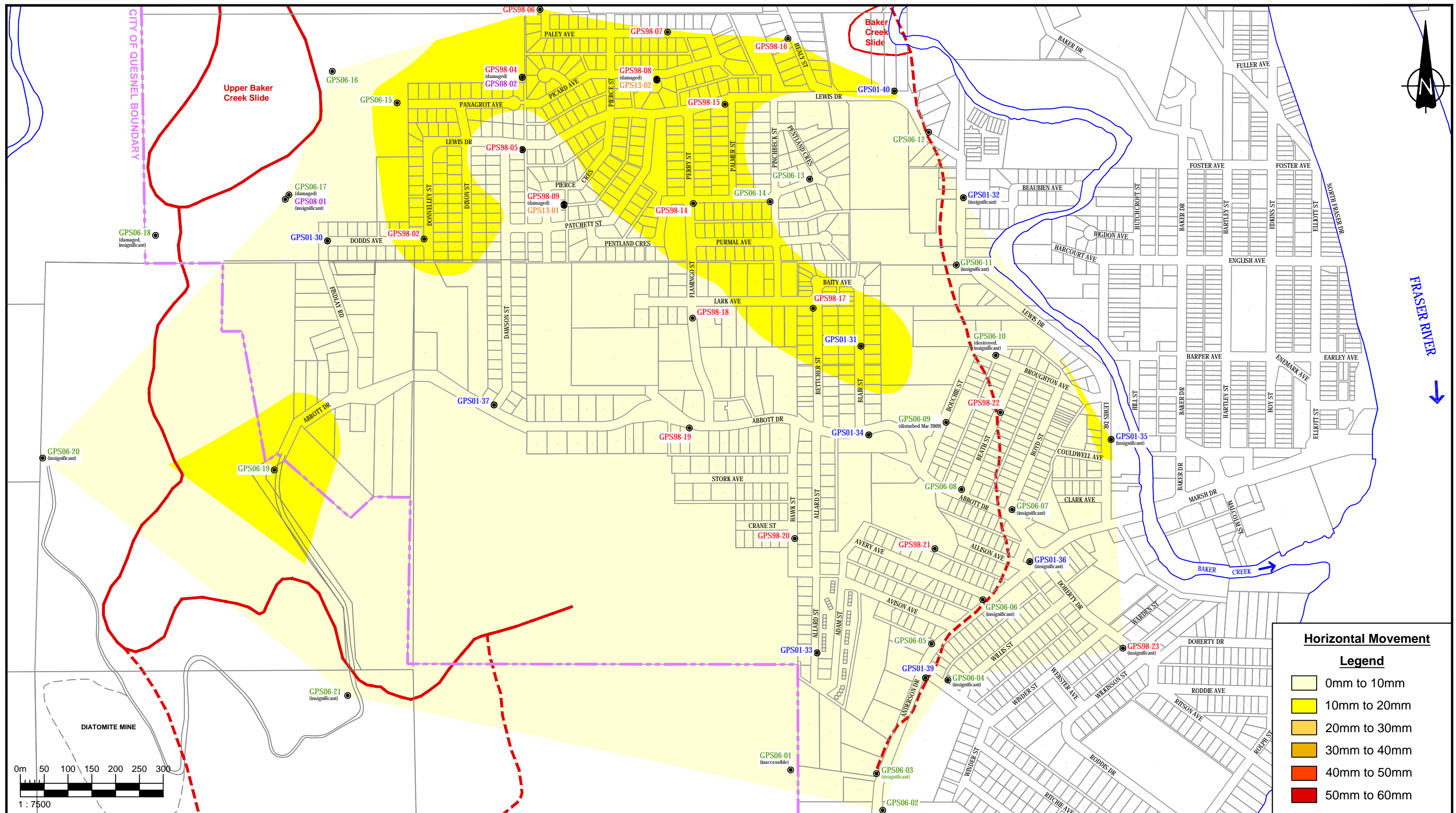
CLIENT:
CITY OF QUESNEL
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 a Division of Wood Canada Limited (Wood)
 3456 Opie Crescent
 Prince George, BC, CANADA V2N 2P9
 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB
 CHK'D BY: DO
 DATUM: NAD83
 PROJECTION: UTM Zone 10
 SCALE: 1:7 500

TITLE: **ANNUAL 3D MOVEMENT - 2012**
NOVEMBER 2011 TO DECEMBER 2012
FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS

PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM**
QUESNEL, BC

DATE: JANUARY 2021
 PROJECT NO.: KX0439755
 REV. NO.: A
FIGURE 18



Horizontal Movement Legend

- 0mm to 10mm
- 10mm to 20mm
- 20mm to 30mm
- 30mm to 40mm
- 40mm to 50mm
- 50mm to 60mm

Legend

- Slide Extent
- Slide Extent (Approximate)

CITY OF Quesnel

wood.

CLIENT:

CITY OF QUESNEL

Wood Environment & Infrastructure Solutions
 a Division of Wood Canada Limited (Wood)
 3456 Opie Crescent
 Prince George, BC, CANADA V2N 2P9
 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB

CHK'D BY: DO

DATUM: NAD83

PROJECTION: UTM Zone 10

SCALE: 1:7 500

TITLE: **ANNUAL HORIZONTAL MOVEMENT - 2013**
NOVEMBER 2012 TO NOVEMBER 2013
FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS

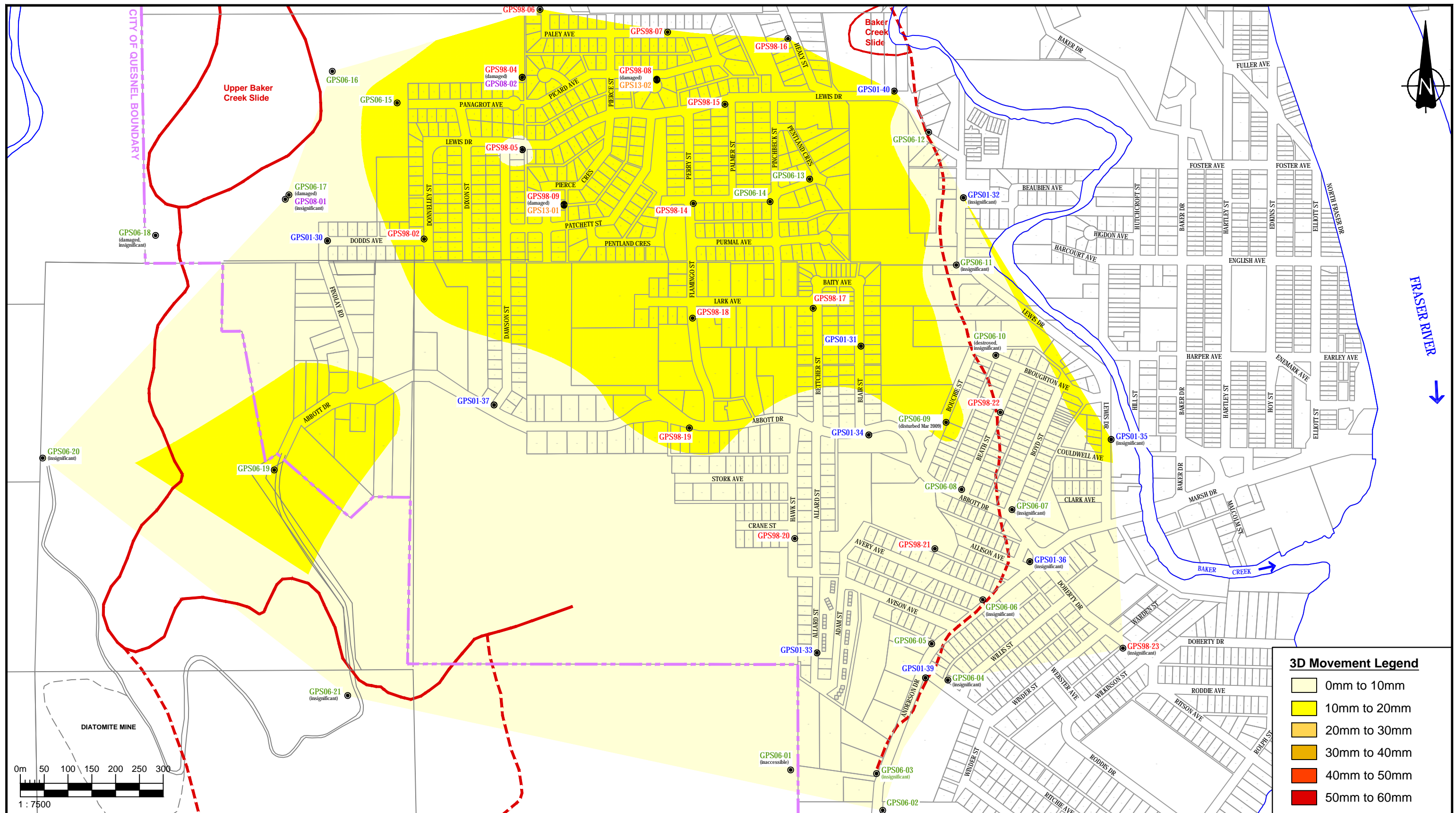
PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM**
QUESNEL, BC

DATE: JANUARY 2021

PROJECT NO.: KX0439755

REV. NO.: A

FIGURE 19



3D Movement Legend

Light Yellow	0mm to 10mm
Yellow	10mm to 20mm
Orange	20mm to 30mm
Dark Orange	30mm to 40mm
Red-Orange	40mm to 50mm
Red	50mm to 60mm

Legend

- Slide Extent
- Slide Extent (Approximate)

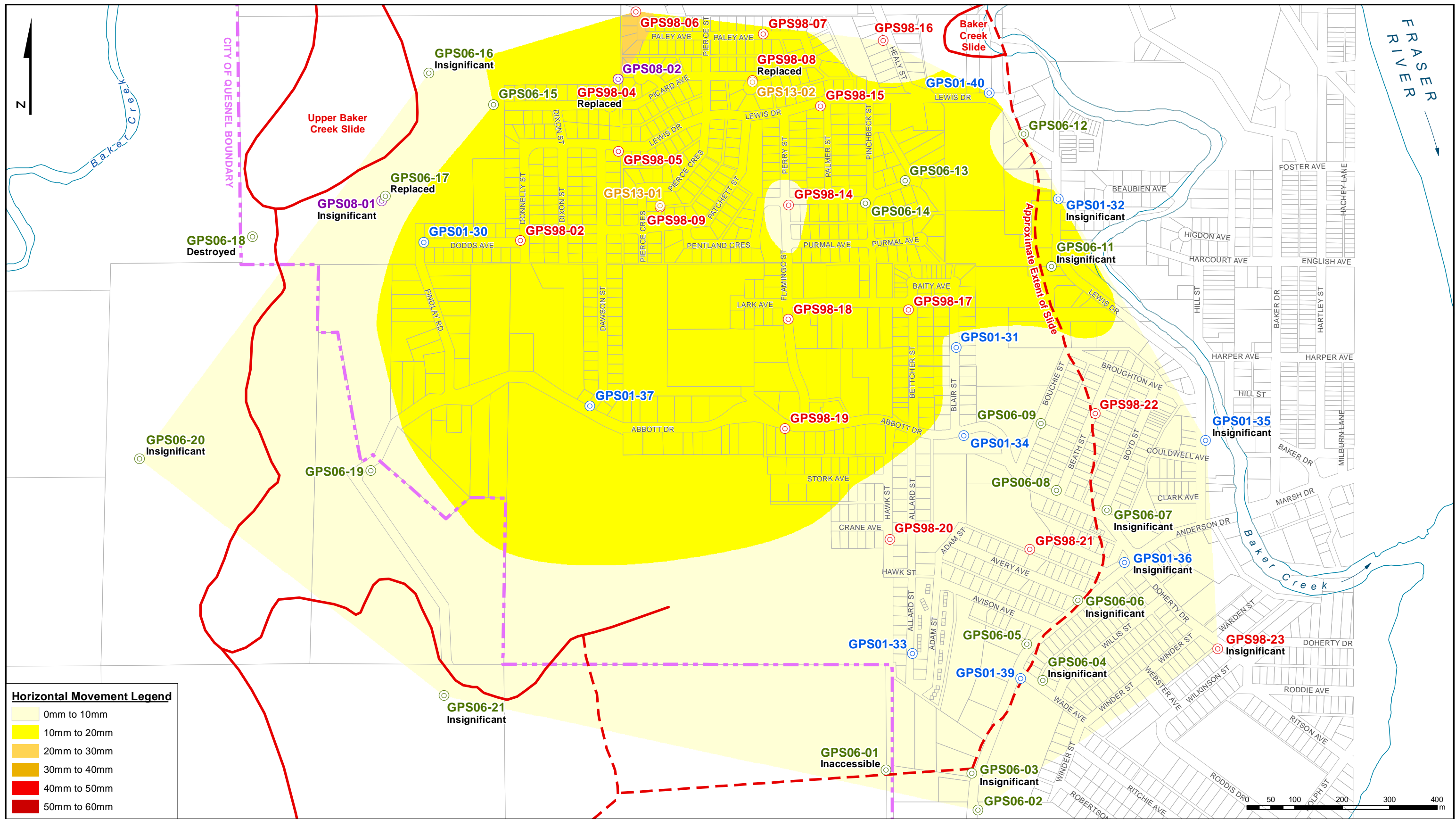


CLIENT:
CITY OF QUESNEL
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 3456 Opie Crescent
 Prince George, BC, CANADA V2N 2P9
 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB
 CHK'D BY: DO
 DATUM: NAD83
 PROJECTION: UTM Zone 10
 SCALE: 1:7 500

TITLE: **ANNUAL 3D MOVEMENT - 2013**
NOVEMBER 2012 TO NOVEMBER 2013
FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS
 PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM**
QUESNEL, BC

DATE: JANUARY 2021
 PROJECT NO.: KX0439755
 REV. NO.: A
FIGURE 20



Horizontal Movement Legend

- 0mm to 10mm
- 10mm to 20mm
- 20mm to 30mm
- 30mm to 40mm
- 40mm to 50mm
- 50mm to 60mm

Legend

- Slide Extent
- Slide Extent (Approximate)

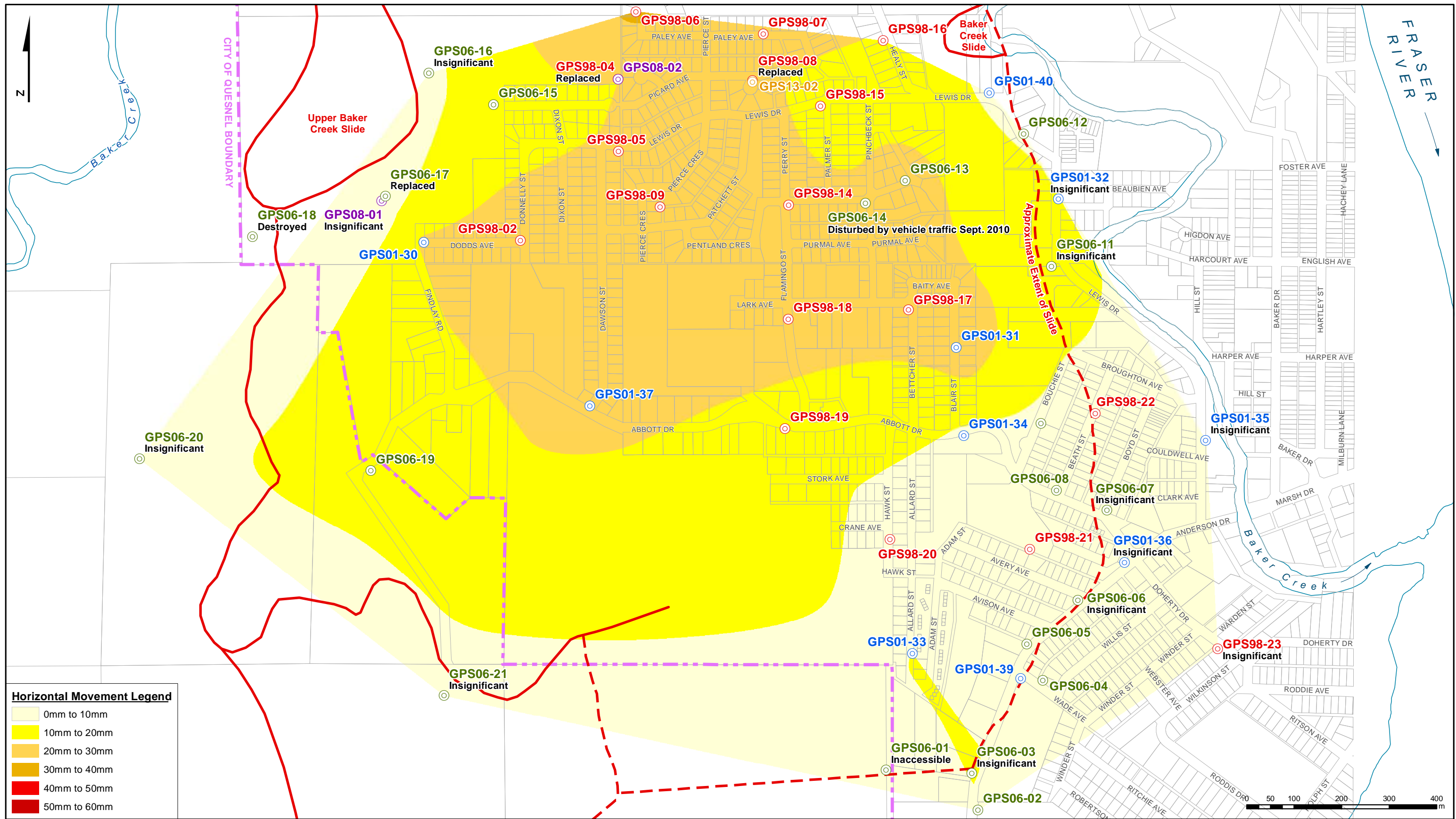


CLIENT:
CITY OF QUESNEL
 Wood Environment & Infrastructure Solutions
 a Division of Wood Canada Limited (Wood)
 3456 Opie Crescent
 Prince George, BC, CANADA V2N 2P9
 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB
 CHK'D BY: DO
 DATUM: NAD 83
 PROJECTION: UTM Zone 10
 SCALE: 1:7,500

TITLE: **ANNUAL HORIZONTAL MOVEMENT - 2014
 NOVEMBER 2013 TO NOVEMBER 2014
 FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS**
 PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM
 QUESNEL, BC**

DATE: JANUARY 2021
 PROJECT NO.: KX0439755
 REV NO.: A
FIGURE 21



Horizontal Movement Legend

- 0mm to 10mm
- 10mm to 20mm
- 20mm to 30mm
- 30mm to 40mm
- 40mm to 50mm
- 50mm to 60mm

Legend

- Slide Extent
- Slide Extent (Approximate)



CLIENT:
CITY OF QUESNEL

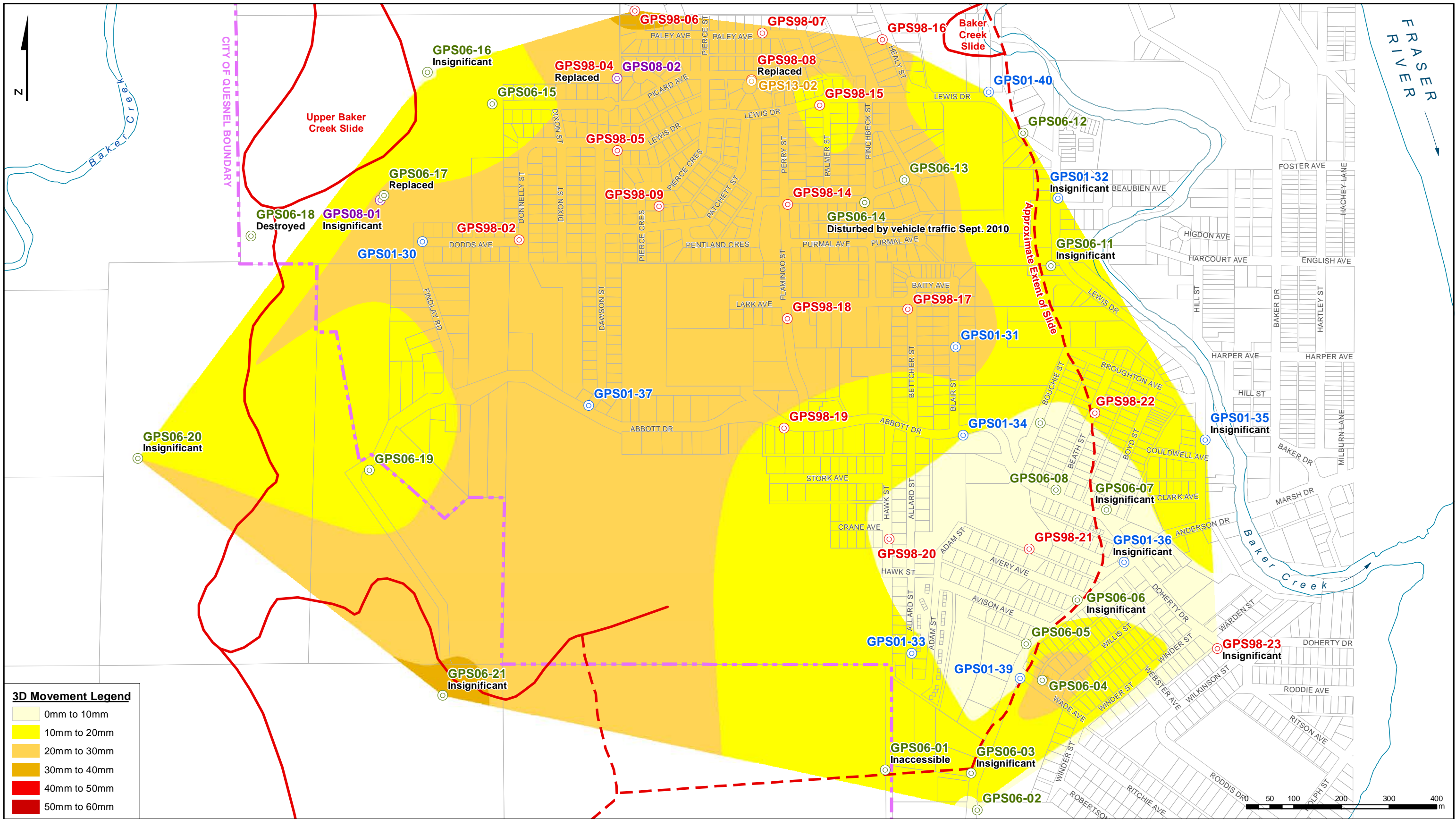
Wood Environment & Infrastructure Solutions
a Division of Wood Canada Limited (Wood)
3456 Opie Crescent
Prince George, BC, CANADA V2N 2P9
Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB
CHK'D BY: DO
DATUM: NAD 83
PROJECTION: UTM Zone 10
SCALE: 1:7,500

TITLE: **ANNUAL HORIZONTAL MOVEMENT - 2015
NOVEMBER 2014 TO DECEMBER 2015
FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS**

PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM
QUESNEL, BC**

DATE: JANUARY 2021
PROJECT NO.: KX0439755
REV NO.: A
FIGURE 23



Legend

- Slide Extent
- Slide Extent (Approximate)

CITY OF QUESNEL

CLIENT:
CITY OF QUESNEL

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DWN BY: BB
CHK'D BY: DO
DATUM: NAD 83
PROJECTION: UTM Zone 10
SCALE: 1:7,500

TITLE:
**ANNUAL 3D MOVEMENT - 2015
NOVEMBER 2014 TO DECEMBER 2015
FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS**

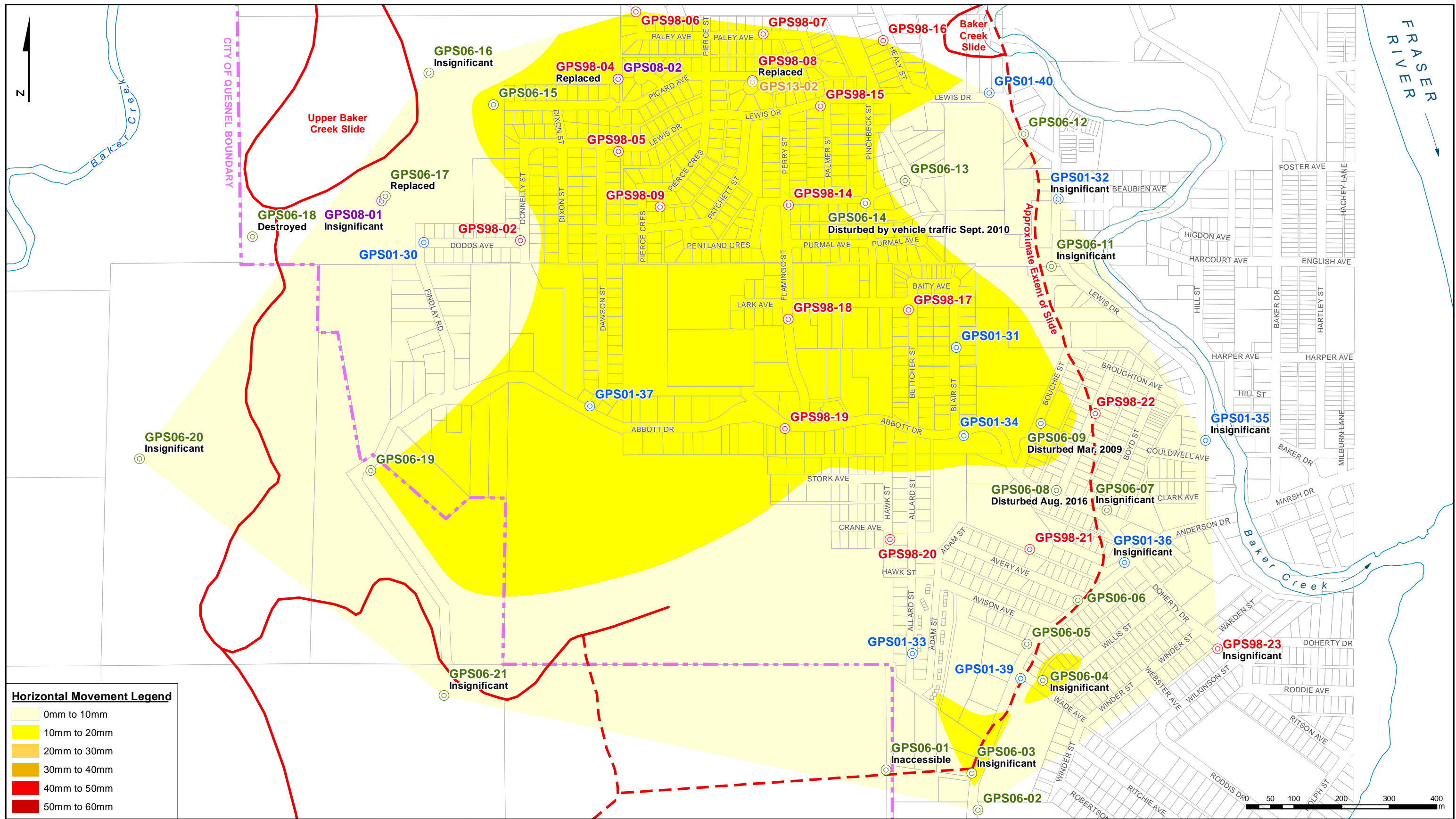
PROJECT:
**WEST QUESNEL LAND STABILITY PROGRAM
QUESNEL, BC**

DATE:
JANUARY 2021

PROJECT NO.:
KX0439755

REV NO.:
A

FIGURE 24



Horizontal Movement Legend

- 0mm to 10mm
- 10mm to 20mm
- 20mm to 30mm
- 30mm to 40mm
- 40mm to 50mm
- 50mm to 60mm

Legend

- Slide Extent
- Slide Extent (Approximate)

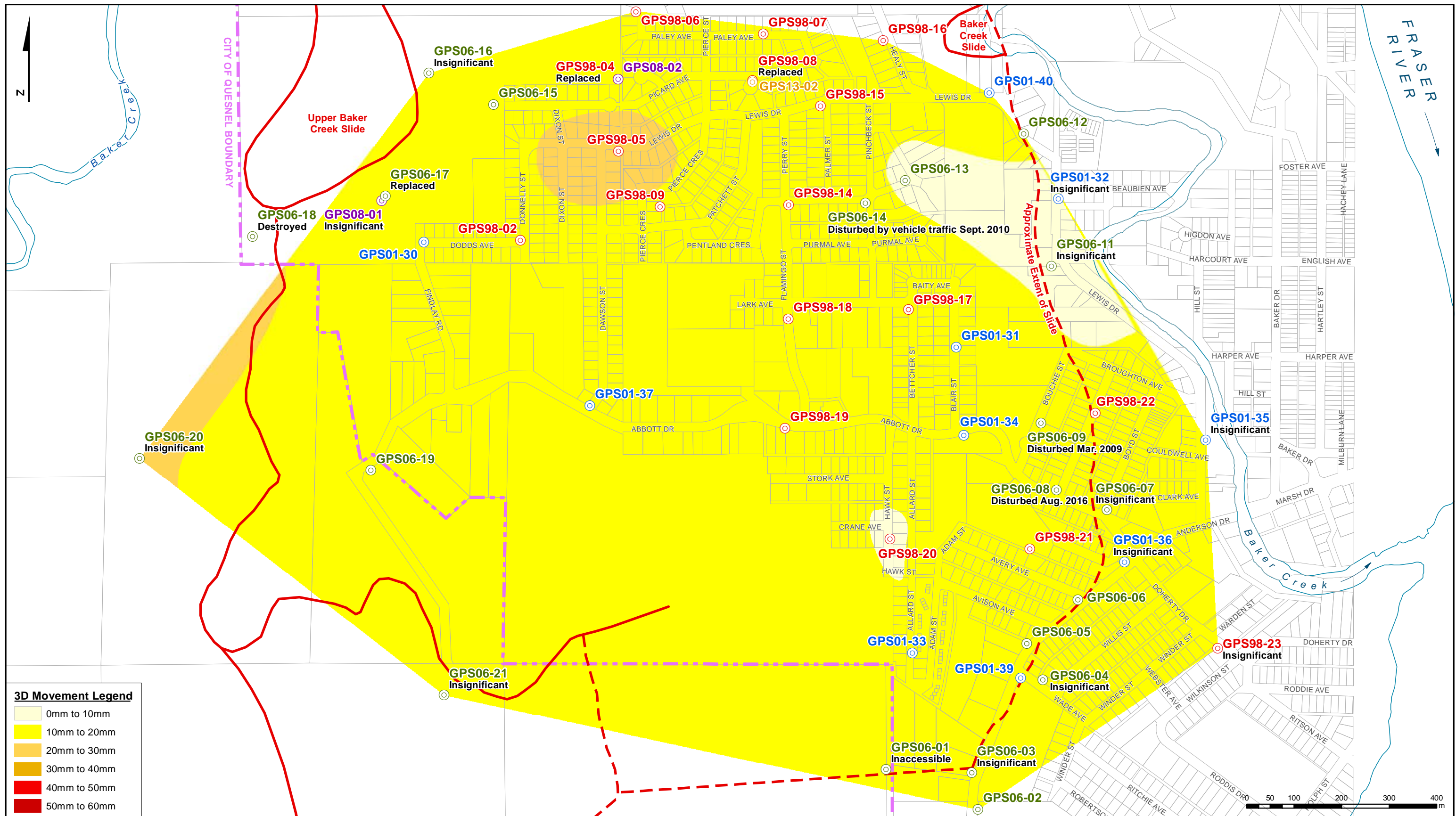


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DWN BY: BB
 CHK'D BY: PO
 DATUM: NAD 83
 PROJECTION: UTM Zone 10
 SCALE: 1:7,500

TITLE: **ANNUAL HORIZONTAL MOVEMENT - 2016
 DECEMBER 2015 TO DECEMBER 2016
 FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS**
 PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM
 QUESNEL, BC**

DATE: JANUARY 2021
 PROJECT NO.: KX0439755
 REV NO.: A
FIGURE 25



Legend

- Slide Extent
- Slide Extent (Approximate)

CITY OF Quesnel

wood.

CLIENT: CITY OF QUESNEL

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Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB

CHK'D BY: PO

DATUM: NAD 83

PROJECTION: UTM Zone 10

SCALE: 1:7,500

TITLE: ANNUAL 3D MOVEMENT - 2016
NOVEMBER 2015 TO DECEMBER 2016
FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS

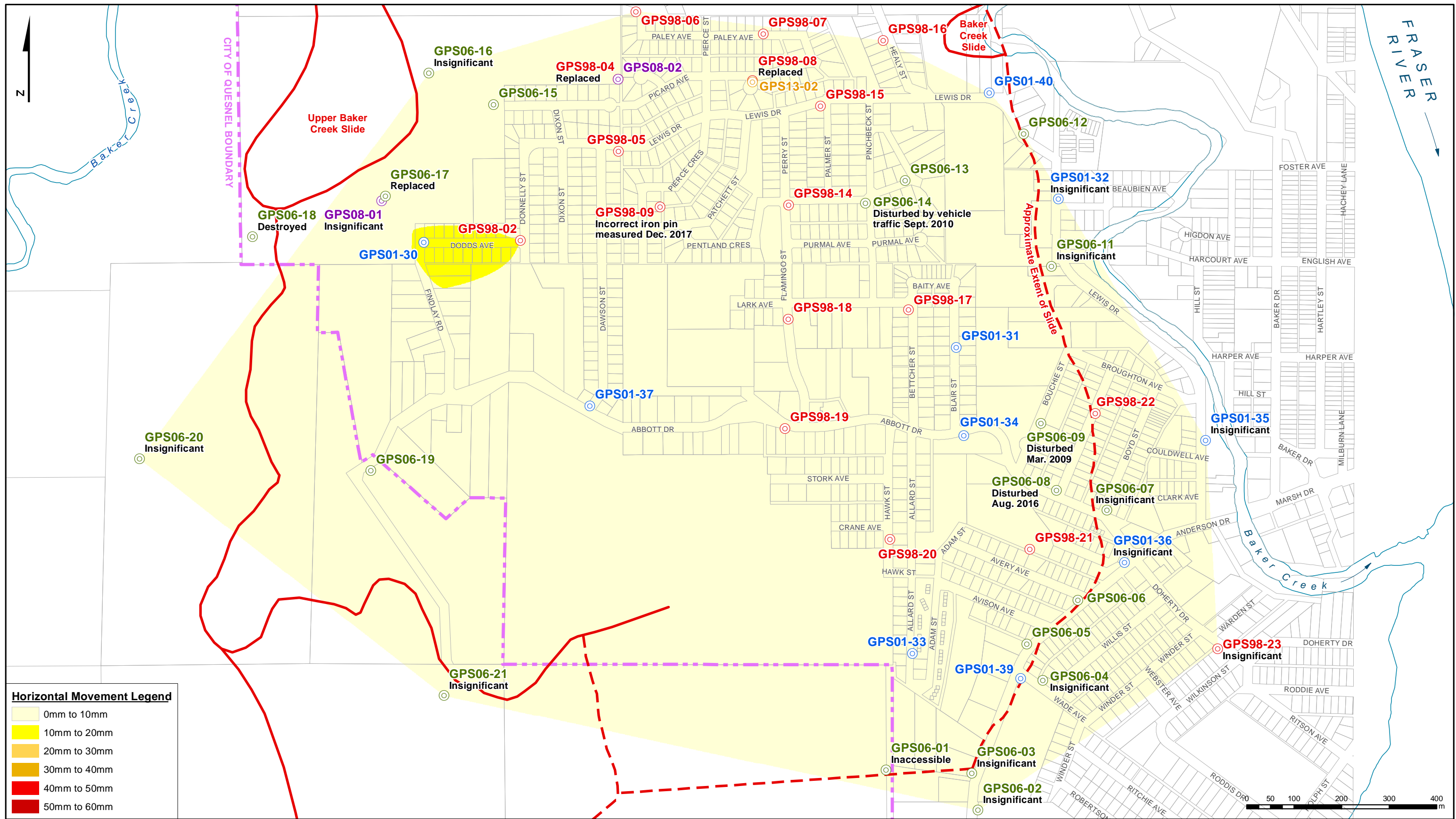
PROJECT: WEST QUESNEL LAND STABILITY PROGRAM
QUESNEL, BC

DATE: JANUARY 2021

PROJECT NO.: KX0439755

REV NO.: A

FIGURE 26



Horizontal Movement Legend

- 0mm to 10mm
- 10mm to 20mm
- 20mm to 30mm
- 30mm to 40mm
- 40mm to 50mm
- 50mm to 60mm

Legend

- Slide Extent
- Slide Extent (Approximate)

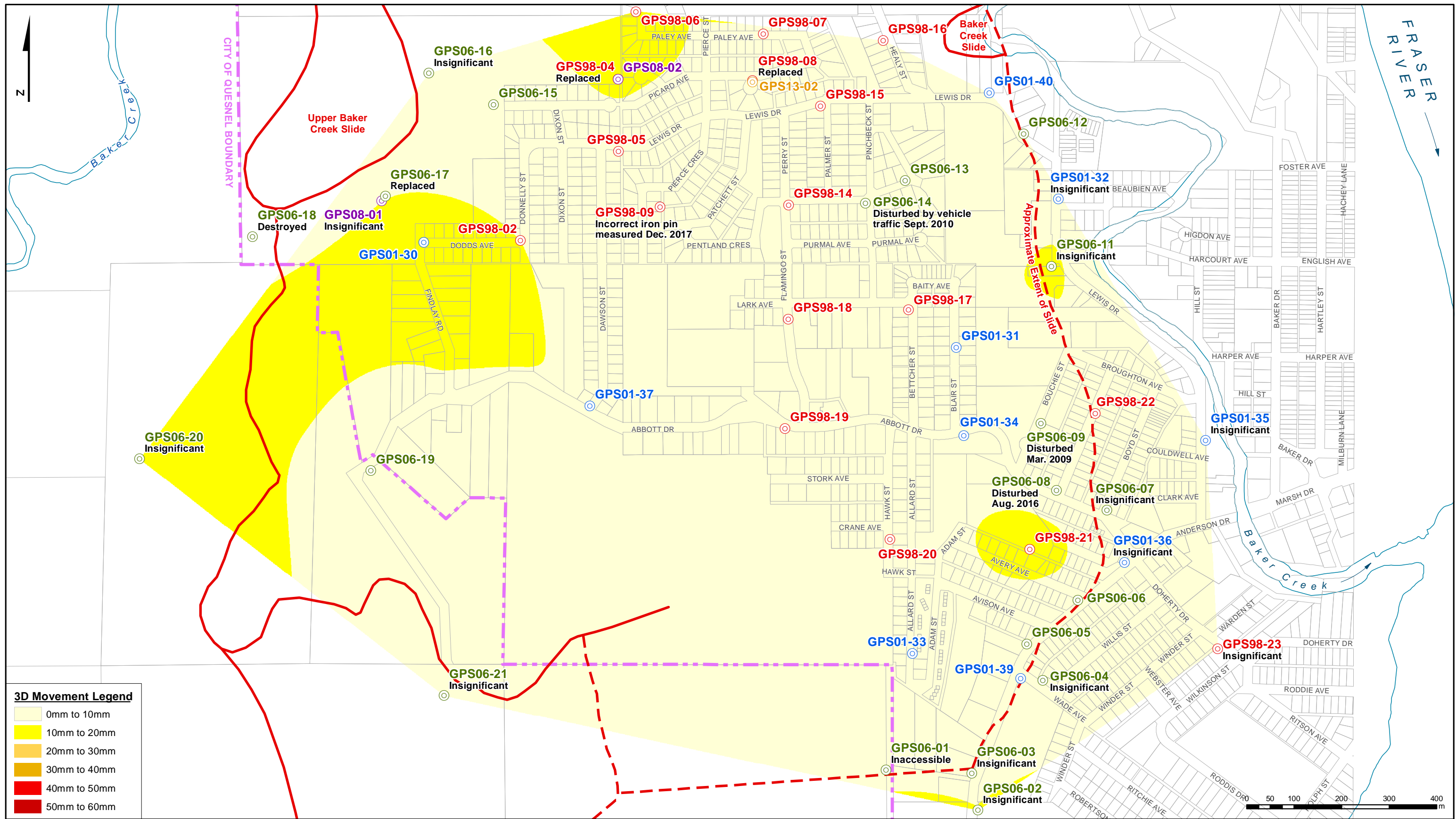


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 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB
 CHK'D BY: DO
 DATUM: NAD 83
 PROJECTION: UTM Zone 10
 SCALE: 1:7,500

TITLE: **ANNUAL HORIZONTAL MOVEMENT - 2017
 DECEMBER 2016 TO DECEMBER 2017
 FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS**
 PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM
 QUESNEL, BC**

DATE: JANUARY 2021
 PROJECT NO.: KX0439755
 REV NO.: A
FIGURE 27



Legend

- Slide Extent
- Slide Extent (Approximate)

CITY OF Quesnel

wood.

CLIENT: CITY OF QUESNEL

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3456 Opie Crescent
Prince George, BC, CANADA V2N 2P9
Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB

CHK'D BY: DO

DATUM: NAD 83

PROJECTION: UTM Zone 10

SCALE: 1:7,500

TITLE: ANNUAL 3D MOVEMENT - 2017
DECEMBER 2016 TO DECEMBER 2017
FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS

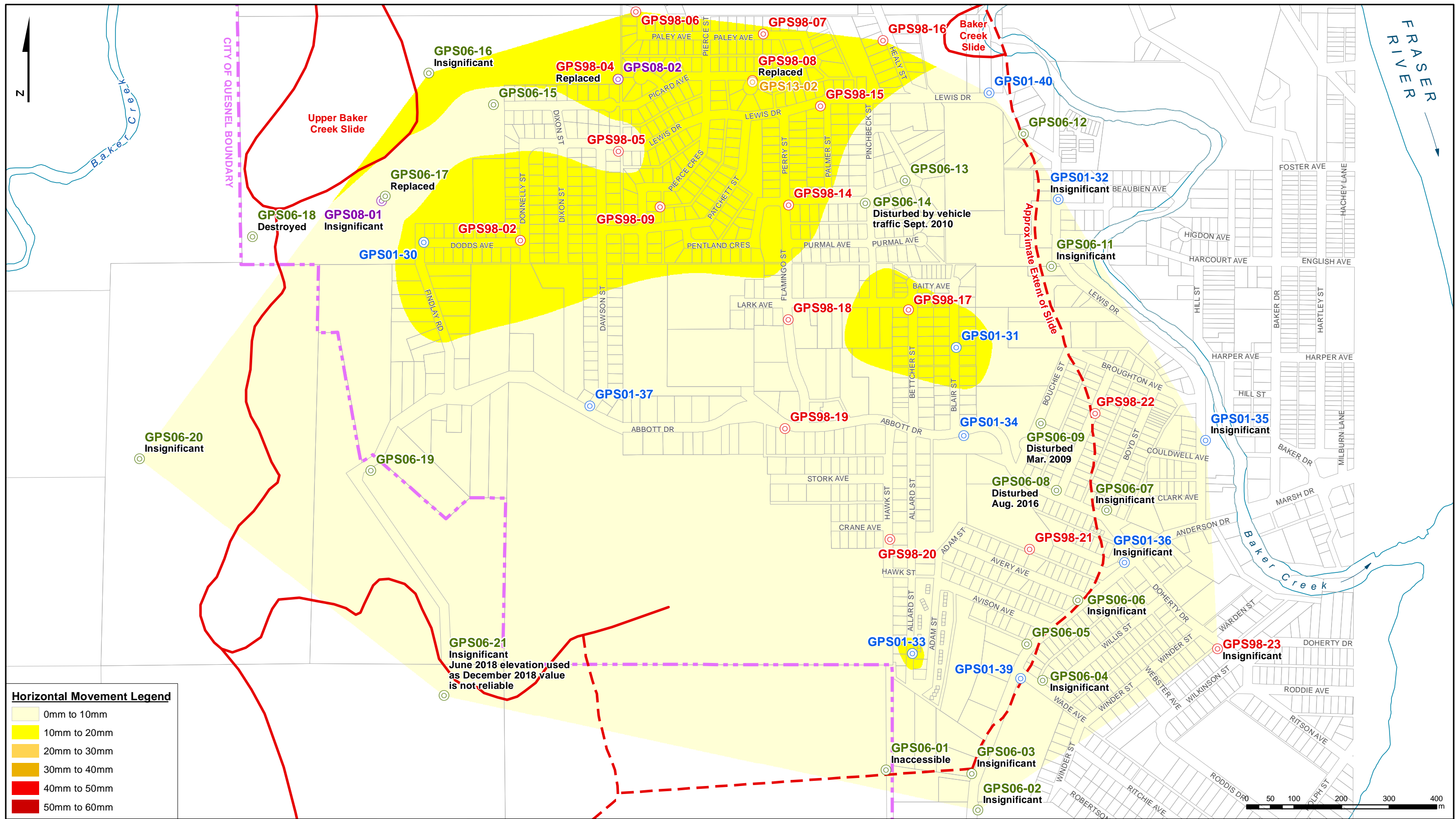
PROJECT: WEST QUESNEL LAND STABILITY PROGRAM
QUESNEL, BC

DATE: JANUARY 2021

PROJECT NO.: KX0439755

REV NO.: A

FIGURE 28



Horizontal Movement Legend

- 0mm to 10mm
- 10mm to 20mm
- 20mm to 30mm
- 30mm to 40mm
- 40mm to 50mm
- 50mm to 60mm

Legend

- Slide Extent
- Slide Extent (Approximate)

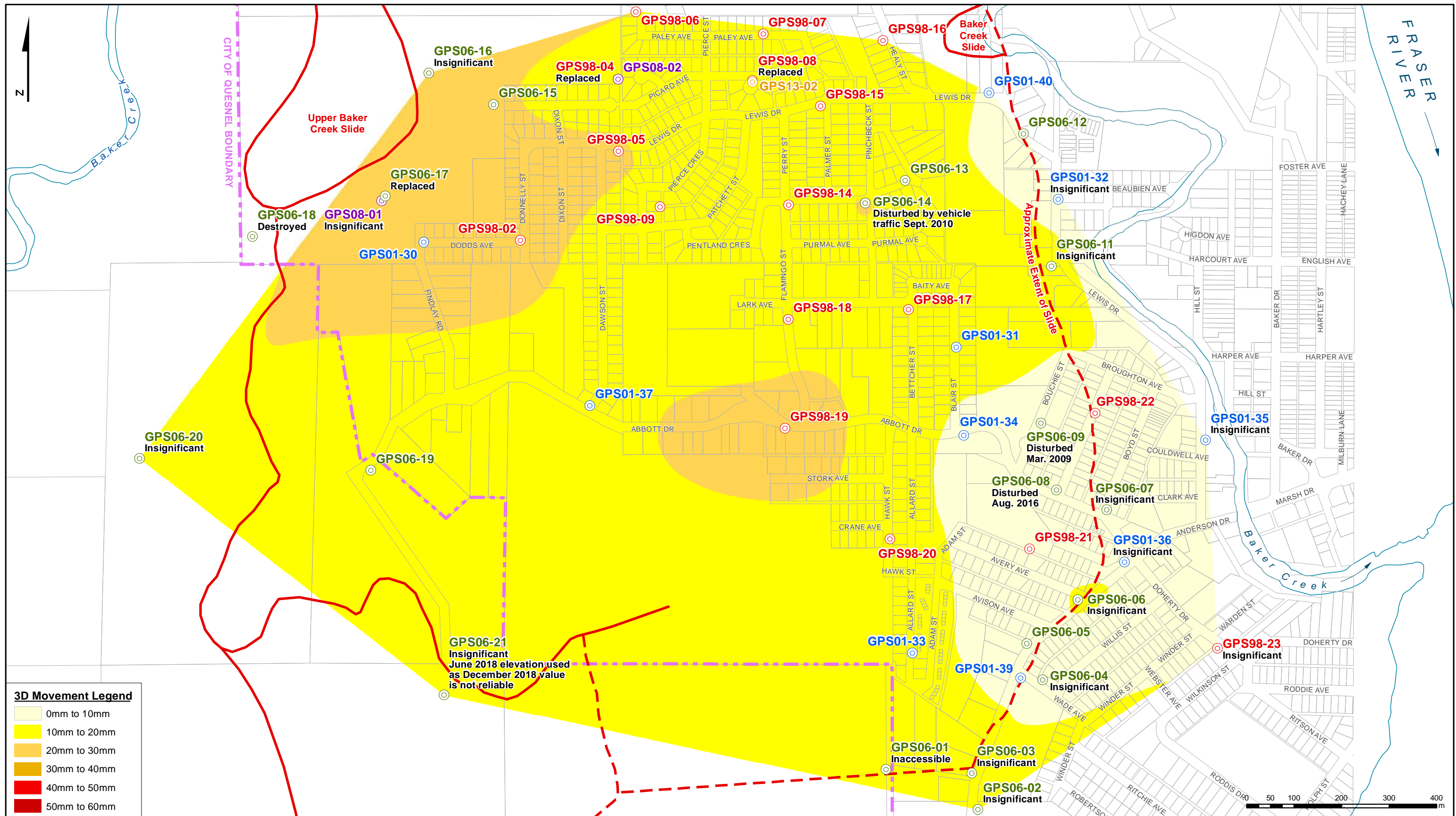


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CITY OF QUESNEL
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 3456 Opie Crescent
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 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB
 CHK'D BY: DO
 DATUM: NAD 83
 PROJECTION: UTM Zone 10
 SCALE: 1:7,500

TITLE: **ANNUAL HORIZONTAL MOVEMENT - 2018
 DECEMBER 2017 TO DECEMBER 2018
 FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS**
 PROJECT: **WEST QUESNEL LAND STABILITY PROGRAM
 QUESNEL, BC**

DATE: JANUARY 2021
 PROJECT NO.: KX0439755
 REV NO.: A
FIGURE 29



3D Movement Legend

- 0mm to 10mm
- 10mm to 20mm
- 20mm to 30mm
- 30mm to 40mm
- 40mm to 50mm
- 50mm to 60mm

Legend

- Slide Extent
- Slide Extent (Approximate)



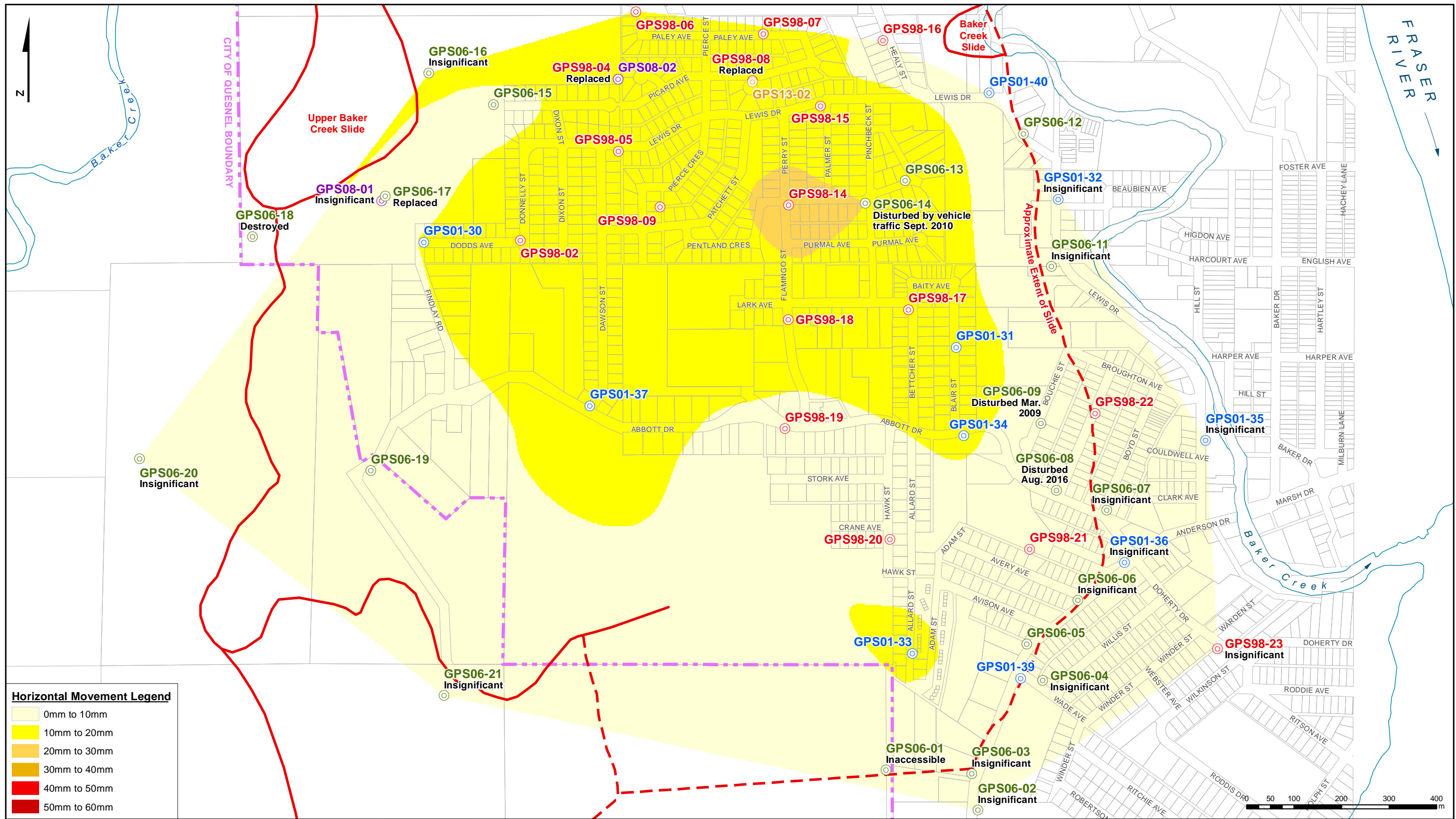
CLIENT:
CITY OF QUESNEL
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 3456 Opie Crescent
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 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB
 CHK'D BY: DO
 DATUM: NAD 83
 PROJECTION: UTM Zone 10
 SCALE: 1:7,500

TITLE:
**ANNUAL 3D MOVEMENT - 2018
 FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS**
 PROJECT:
**WEST QUESNEL LAND STABILITY PROGRAM
 QUESNEL, BC**

DATE:
 JANUARY 2021
 PROJECT NO.:
 KX0439755
 REV NO.:
 A

FIGURE 30



Horizontal Movement Legend

0mm to 10mm
10mm to 20mm
20mm to 30mm
30mm to 40mm
40mm to 50mm
50mm to 60mm

Legend

- Slide Extent
- Slide Extent (Approximate)

CITY OF Quesnel

wood.

CLIENT: CITY OF QUESNEL

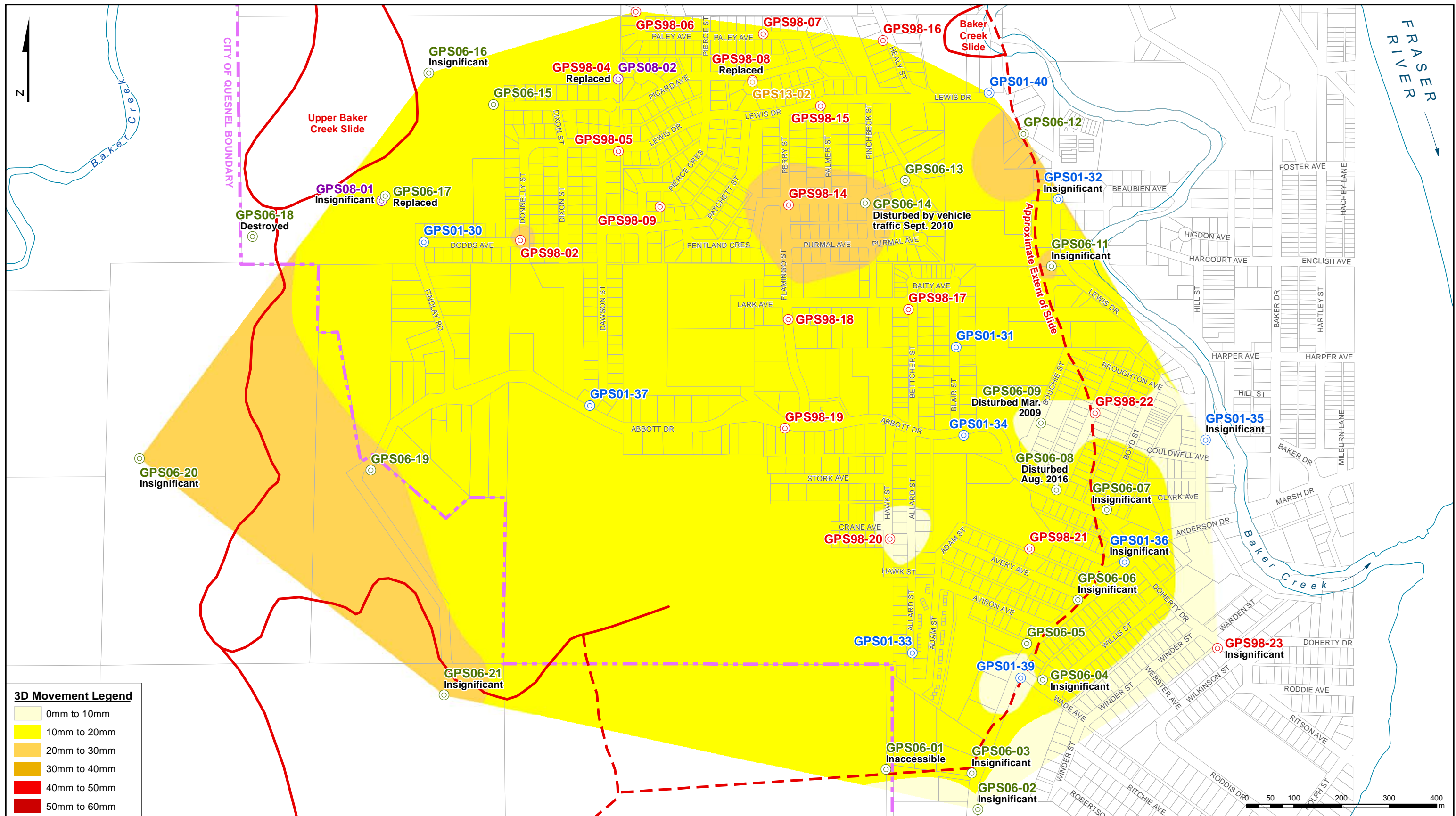
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 a Division of Wood Canada Limited (Wood)
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 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB
 CHK'D BY: DO
 DATUM: NAD 83
 PROJECTION: UTM Zone 10
 SCALE: 1:7,500

TITLE: ANNUAL HORIZONTAL MOVEMENT - 2019
 DECEMBER 2018 TO DECEMBER 2019
 FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS

PROJECT: WEST QUESNEL LAND STABILITY PROGRAM
 QUESNEL, BC

DATE: JANUARY 2021
 PROJECT NO.: KX0439755
 REV NO.: A
 FIGURE 31



Legend

- Slide Extent
- Slide Extent (Approximate)

CITY OF Quesnel

wood.

CLIENT: CITY OF QUESNEL

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DWN BY: BB

CHK'D BY: DO

DATUM: NAD 83

PROJECTION: UTM Zone 10

SCALE: 1:7,500

TITLE: ANNUAL 3D MOVEMENT - 2019
DECEMBER 2018 TO DECEMBER 2019
FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS

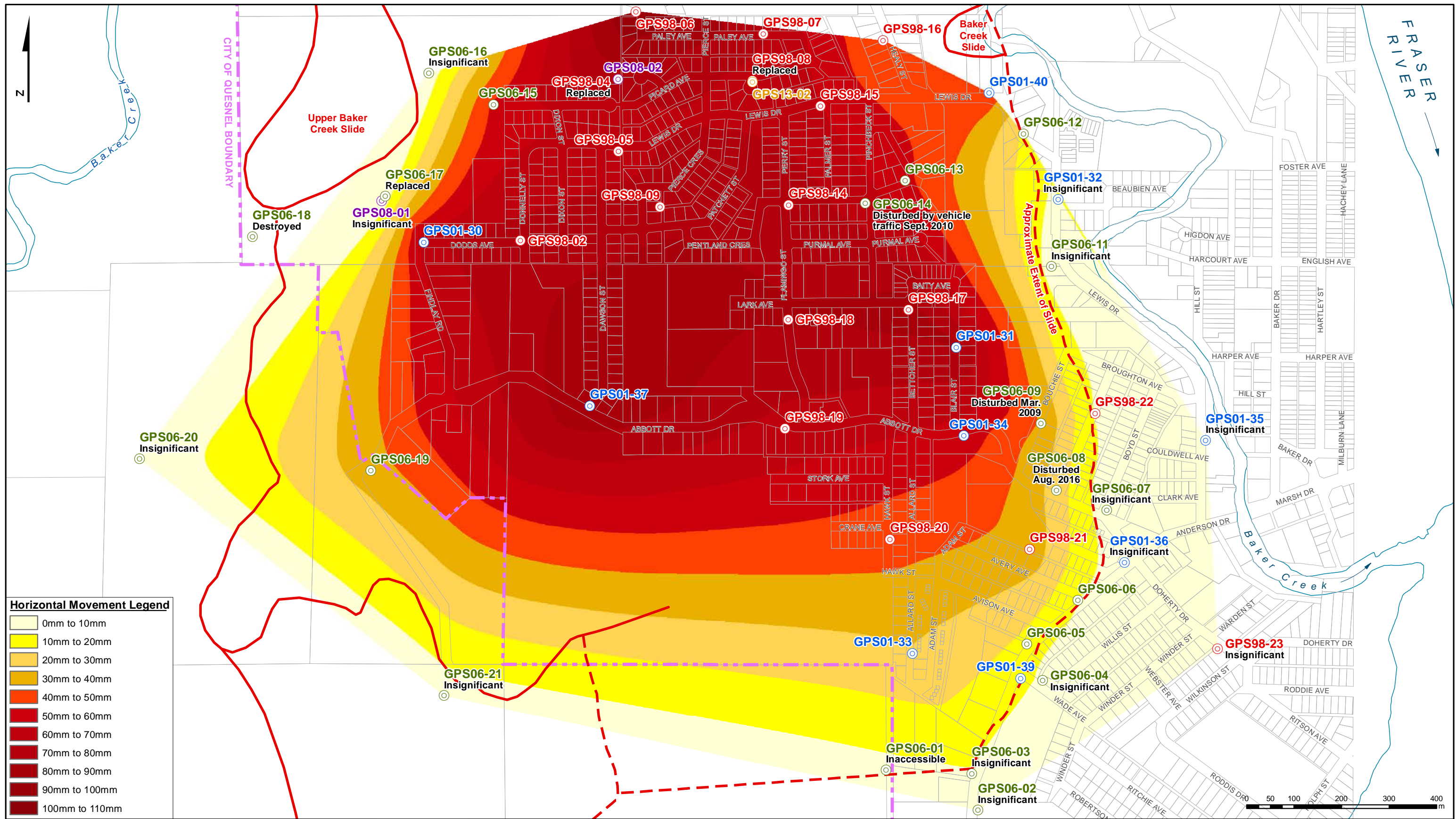
PROJECT: WEST QUESNEL LAND STABILITY PROGRAM
QUESNEL, BC

DATE: JANUARY 2021

PROJECT NO.: KX0439755

REV NO.: A

FIGURE 32



Legend

- Slide Extent
- Slide Extent (Approximate)

CLIENT:

CITY OF QUESNEL

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Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB

CHK'D BY: DO

DATUM: NAD 83

PROJECTION: UTM Zone 10

SCALE: 1:7,500

TITLE: ANNUAL HORIZONTAL MOVEMENT - 2020
DECEMBER 2019 TO DECEMBER 2020
FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS

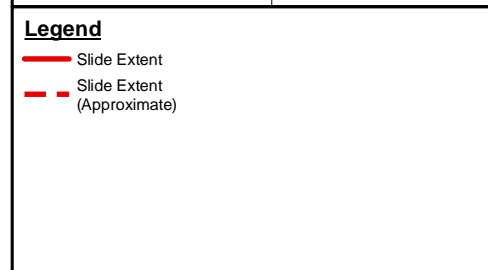
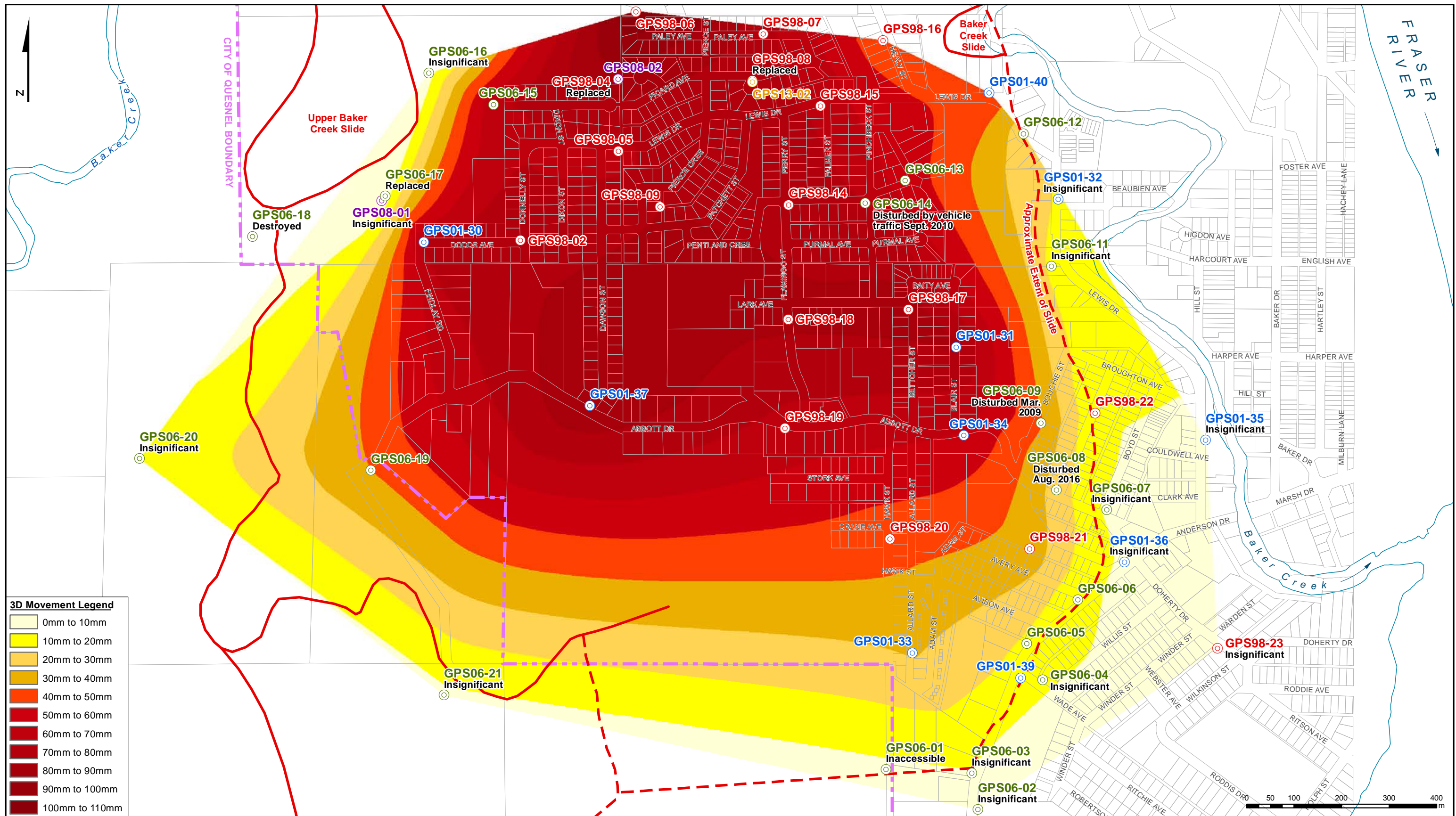
PROJECT: WEST QUESNEL LAND STABILITY PROGRAM
QUESNEL, BC

DATE: JANUARY 2021

PROJECT NO.: KX0439755

REV NO.: A

FIGURE 33



CLIENT:
CITY OF QUESNEL

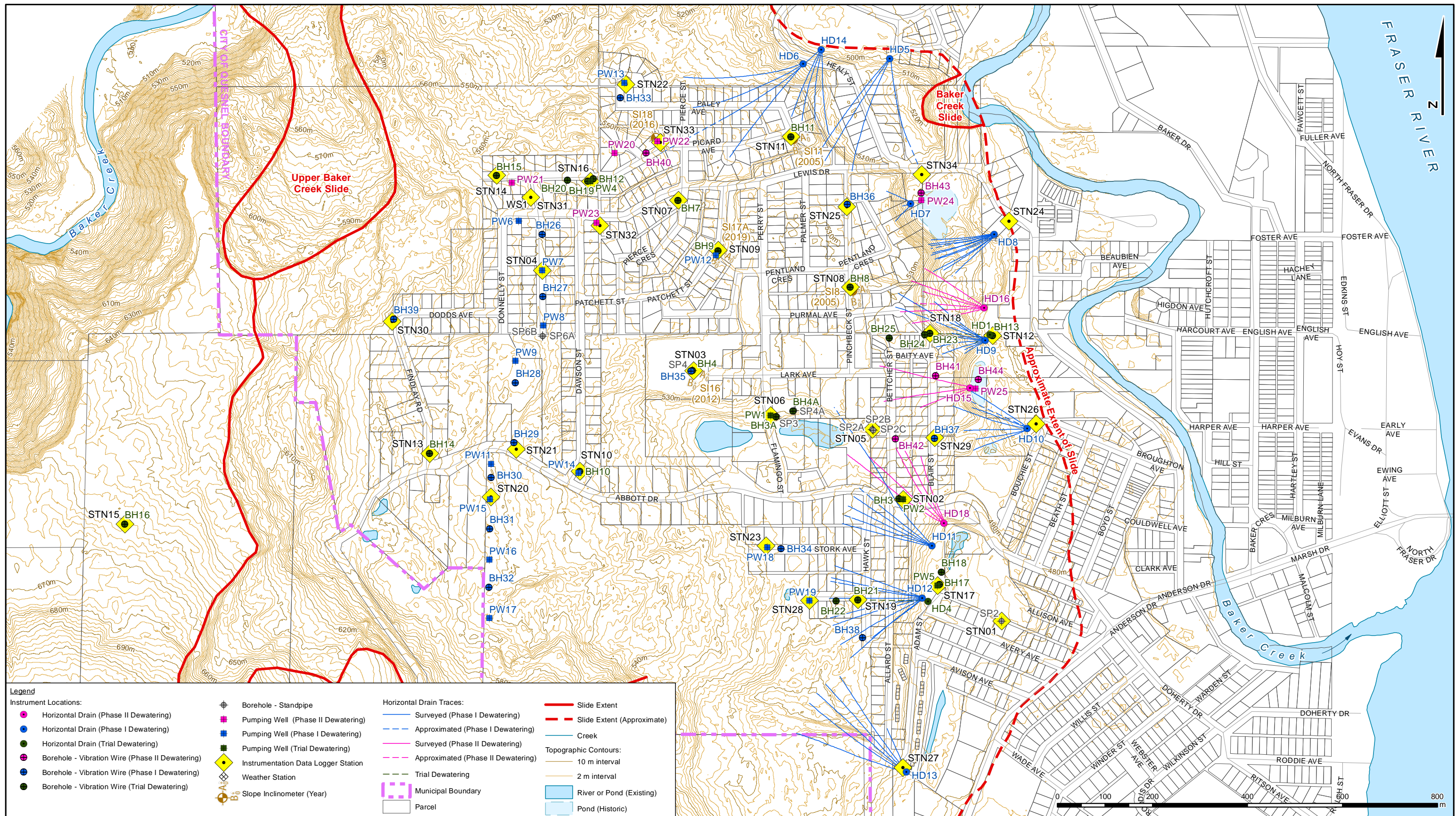
Wood Environment & Infrastructure Solutions
a Division of Wood Canada Limited (Wood)
3456 Opie Crescent
Prince George, BC, CANADA V2N 2P9
Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB
CHK'D BY: DO
DATUM: NAD 83
PROJECTION: UTM Zone 10
SCALE: 1:7,500

TITLE: ANNUAL 3D MOVEMENT - 2020
DECEMBER 2019 TO DECEMBER 2020
FOR THE 1998, 2001, 2006 AND 2008 GPS HUBS

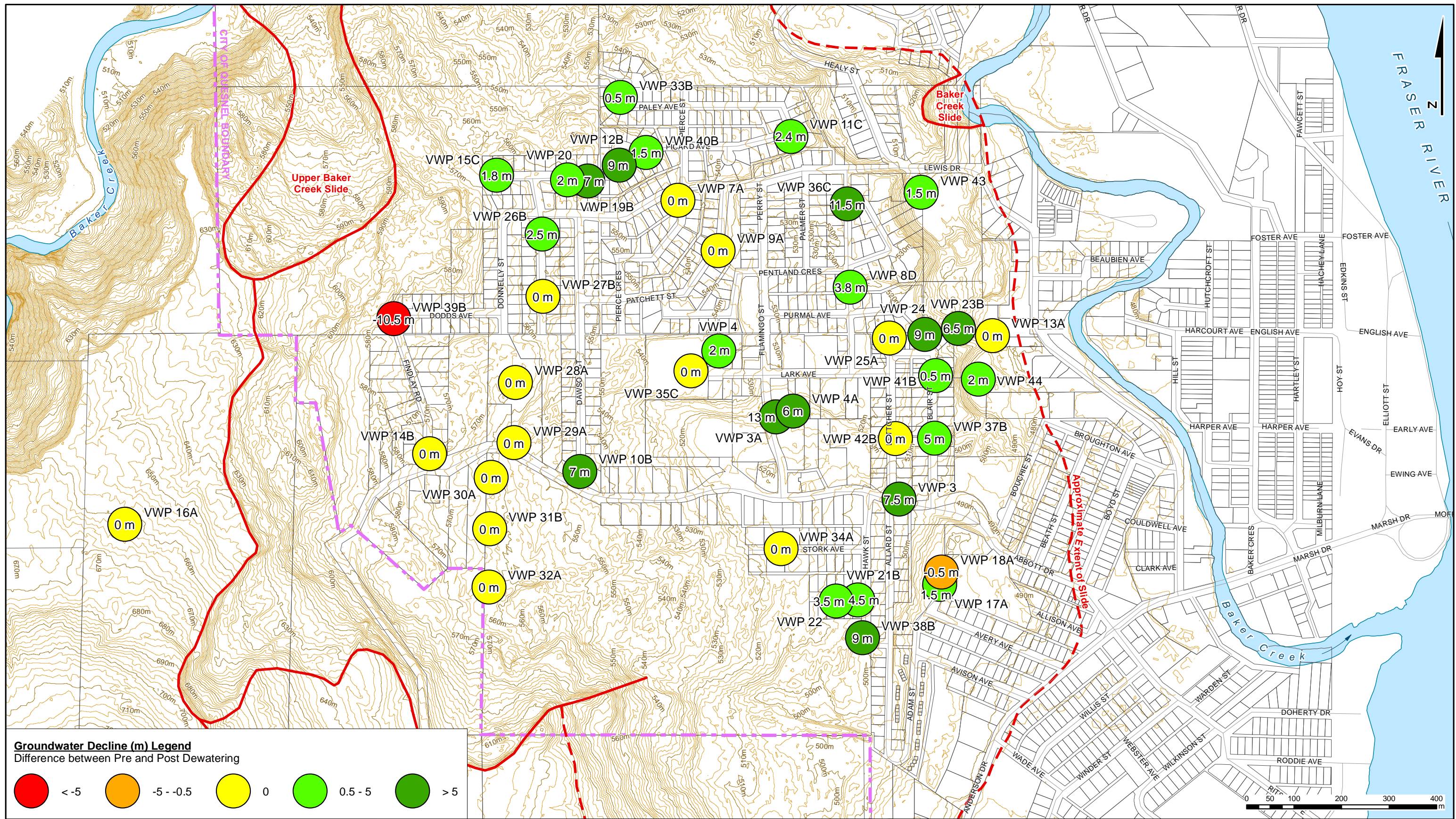
PROJECT: WEST QUESNEL LAND STABILITY PROGRAM
QUESNEL, BC

DATE: JANUARY 2021
PROJECT NO.: KX0439755
REV NO.: A
FIGURE 34



Legend		Instrument Locations:		Horizontal Drain Traces:		Slide Extent		Topographic Contours:	
	Horizontal Drain (Phase II Dewatering)		Borehole - Standpipe		Surveyed (Phase I Dewatering)		Slide Extent		10 m interval
	Horizontal Drain (Phase I Dewatering)		Pumping Well (Phase II Dewatering)		Approximated (Phase I Dewatering)		Slide Extent (Approximate)		2 m interval
	Horizontal Drain (Trial Dewatering)		Pumping Well (Phase I Dewatering)		Surveyed (Phase II Dewatering)		Creek		River or Pond (Existing)
	Borehole - Vibration Wire (Phase II Dewatering)		Pumping Well (Trial Dewatering)		Approximated (Phase II Dewatering)		Parcel		Pond (Historic)
	Borehole - Vibration Wire (Phase I Dewatering)		Instrumentation Data Logger Station		Trial Dewatering		Municipal Boundary		
	Borehole - Vibration Wire (Trial Dewatering)		Weather Station		Parcel				
	Borehole - Vibration Wire (Trial Dewatering)		Slope Inclinometer (Year)						

	CLIENT:	CITY OF QUESNEL	DWN BY:	BB	TITLE:	OVERALL INSTRUMENTATION SITE PLAN	DATE:	JANUARY 2021
	Wood Environment & Infrastructure Solutions a Division of Wood Canada Limited (Wood) 3456 Opie Crescent Prince George, BC, CANADA V2N 2P9 Tel. (250) 564-3243 Fax (250) 562-7045	CHK'D BY:	DO	DATUM:	NAD 83	PROJECT:	WEST QUESNEL LAND STABILITY PROGRAM QUESNEL, BC	PROJECT NO.:
			PROJECTION:	UTM Zone 10			REV NO.:	A
			SCALE:	1:7,500				FIGURE 35



Legend

- Red Solid Line: Slide Extent
- Red Dashed Line: Slide Extent (Approximate)

Note: Groundwater elevation of VWP 39B has increased by 2.5 m.



CLIENT:
CITY OF QUESNEL

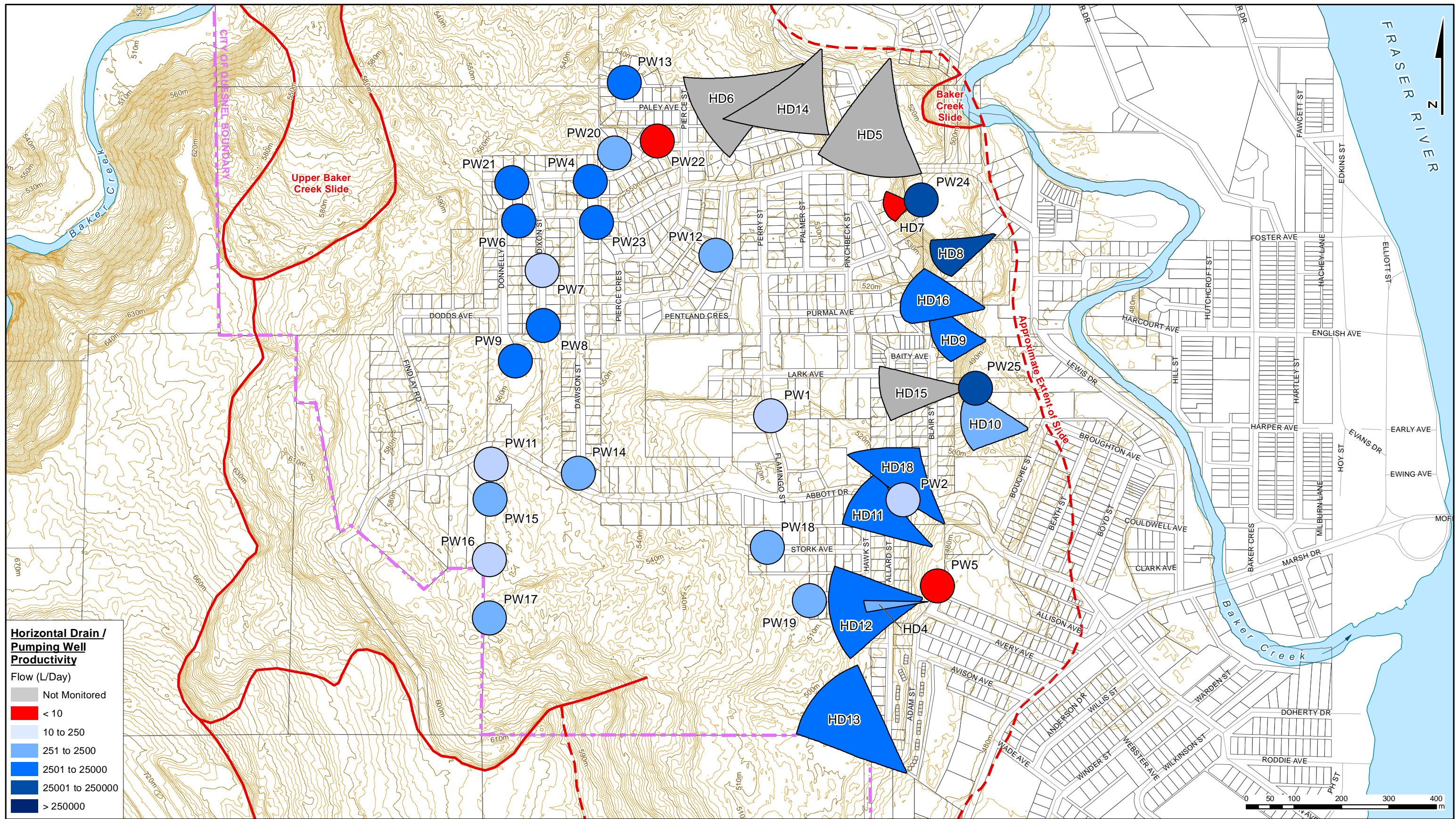
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 a Division of Wood Canada Limited (Wood)
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 Tel. (250) 564-3243 Fax (250) 562-7045

DWN BY: BB
 CHK'D BY: DO
 DATUM: NAD 83
 PROJECTION: UTM Zone 10
 SCALE: 1:7,500

TITLE:
CUMULATIVE GROUNDWATER DRAWDOWN TO END OF DECEMBER 2020

PROJECT:
WEST QUESNEL LAND STABILITY PROGRAM QUESNEL, BC

DATE: JANUARY 2021
 PROJECT NO.: KX0439755
 REV NO.: A
FIGURE 36



Legend

- Slide Extent
- Slide Extent (Approximate)

Note: Productivity flow (L/day) calculated by averaging total flows over number of days in service.



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DWN BY: BB
 CHK'D BY: DO
 DATUM: NAD 83
 PROJECTION: UTM Zone 10
 SCALE: 1:7,500

TITLE:
2020 PUMPING WELL & HORIZONTAL DRAIN PRODUCTIVITY

PROJECT:
WEST QUESNEL LAND STABILITY PROGRAM QUESNEL, BC

DATE: JANUARY 2021
 PROJECT NO.: KX0439755
 REV NO.: A
FIGURE 37