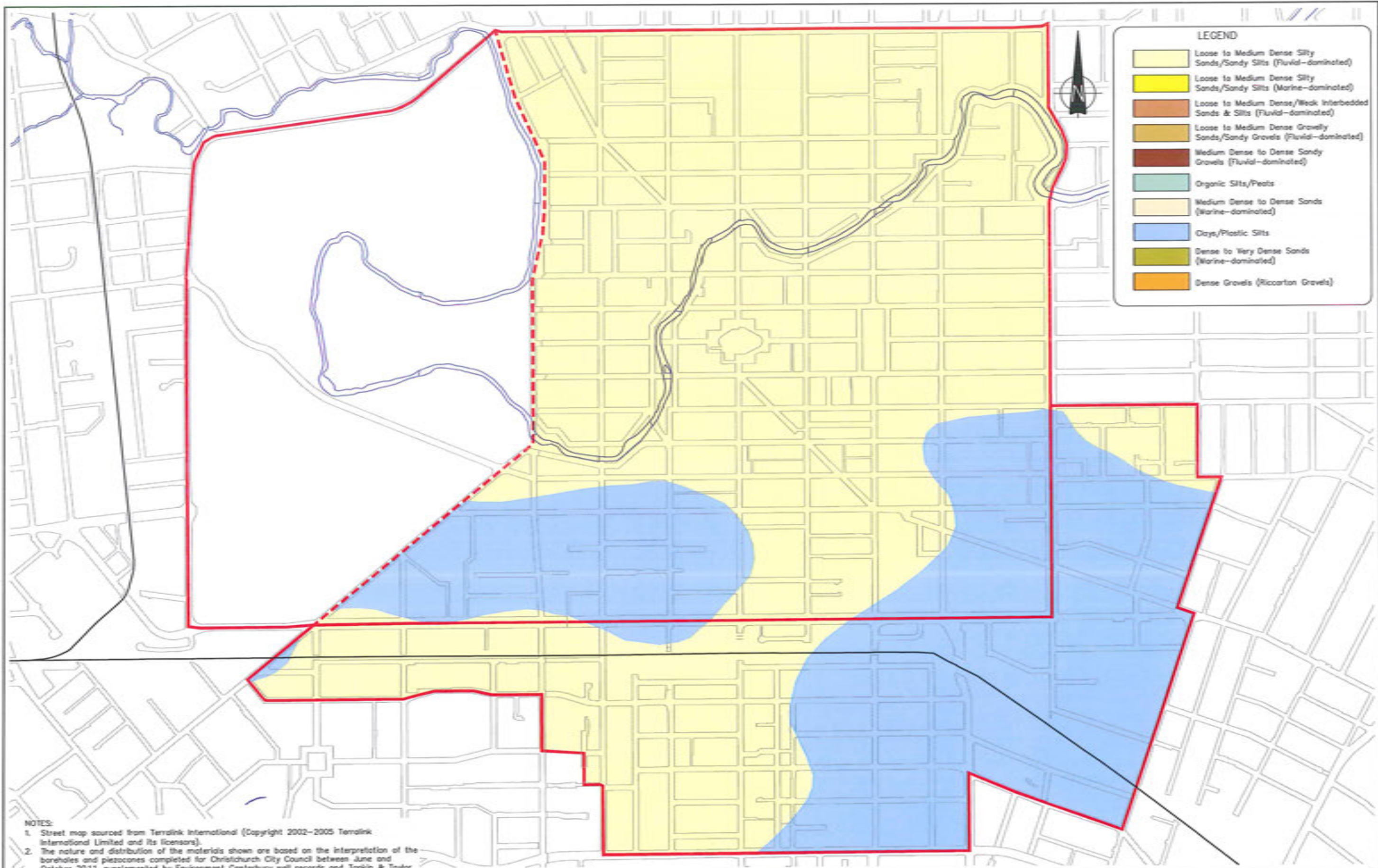


Appendix B: Geology Plans

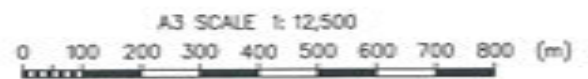


LEGEND

	Loose to Medium Dense Silty Sands/Sandy Silts (Fluvial-dominated)
	Loose to Medium Dense Silty Sands/Sandy Silts (Marine-dominated)
	Loose to Medium Dense/Weak Interbedded Sands & Silts (Fluvial-dominated)
	Loose to Medium Dense Gravelly Sands/Sandy Gravels (Fluvial-dominated)
	Medium Dense to Dense Sandy Gravels (Fluvial-dominated)
	Organic Silts/Peats
	Medium Dense to Dense Sands (Marine-dominated)
	Clays/Plastic Silts
	Dense to Very Dense Sands (Marine-dominated)
	Dense Gravels (Riccarton Gravels)

NOTES:

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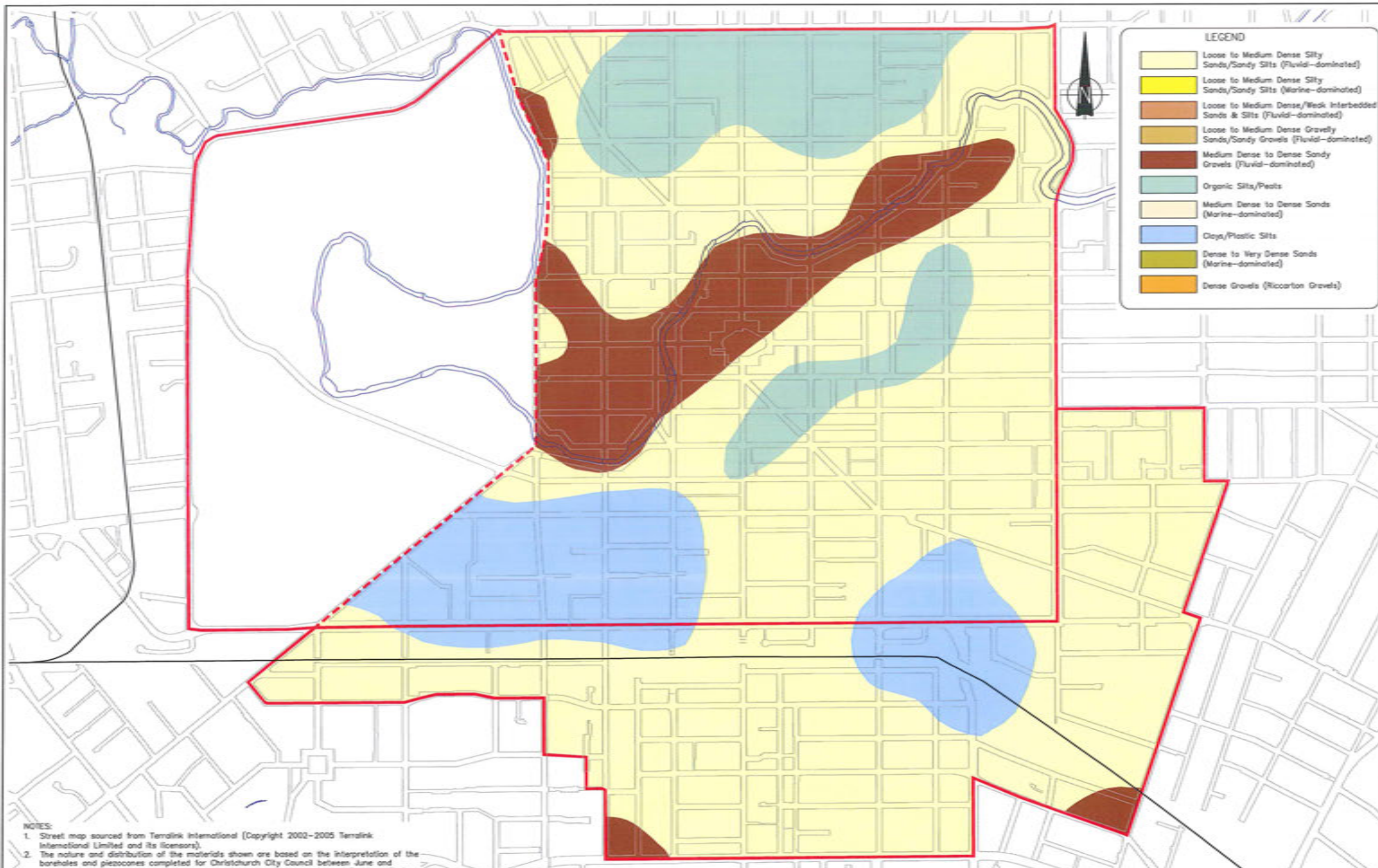
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CHRISTCHURCH CITY COUNCIL
GEOLOGICAL INTERPRETATIVE REPORT
CHRISTCHURCH CENTRAL CITY
Geology Plan - Sheet 1 (1 to 2m)

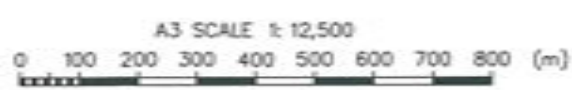
REV. No. B 1

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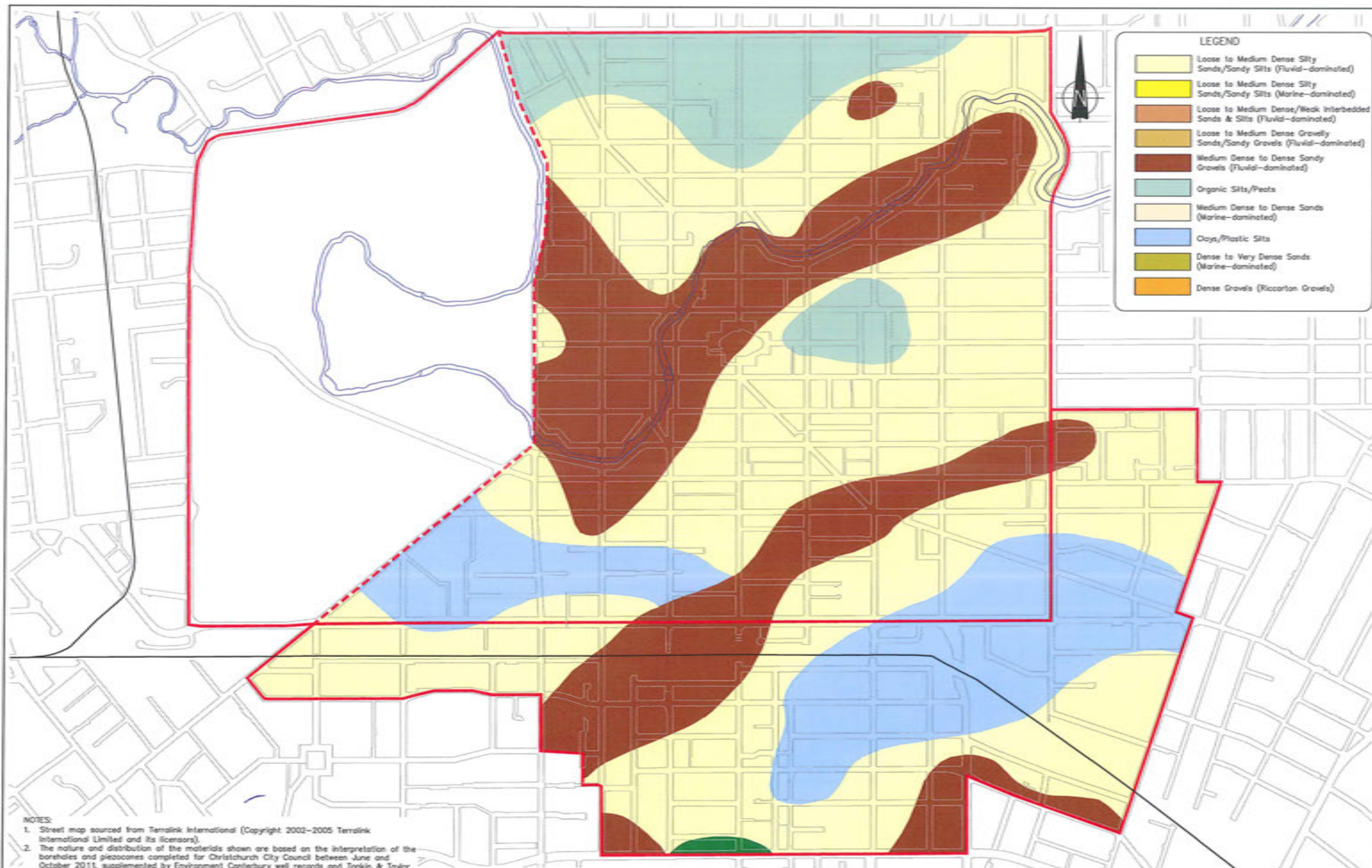
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CHRISTCHURCH CITY COUNCIL
GEOLOGICAL INTERPRETATIVE REPORT
CHRISTCHURCH CENTRAL CITY
Geology Plan – Sheet 2 (2 to 3m)

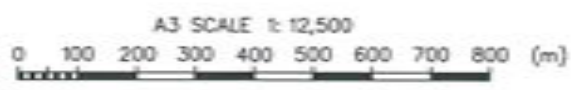
FIG. No. B2

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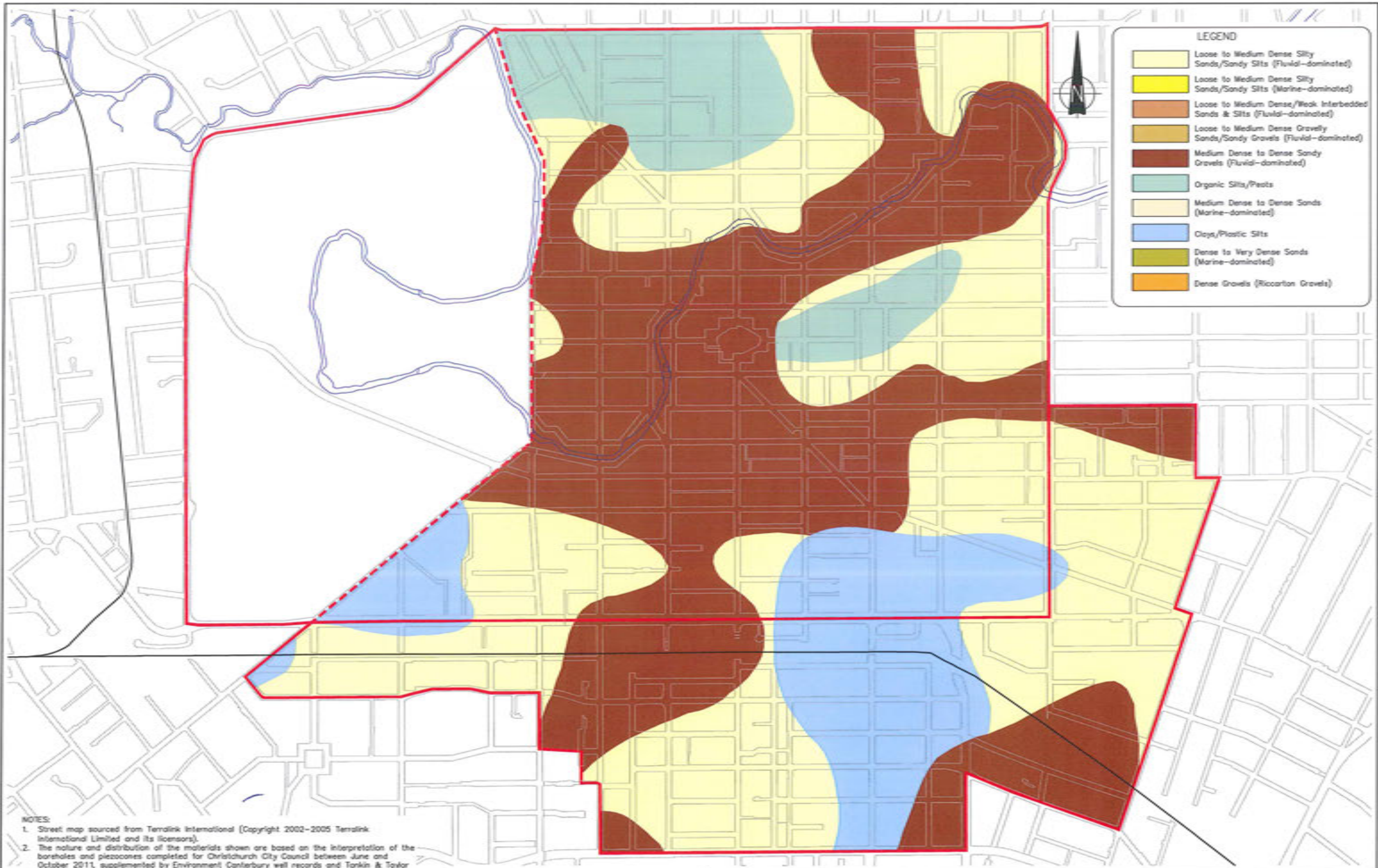
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CHRISTCHURCH CITY COUNCIL
GEOLOGICAL INTERPRETATIVE REPORT
CHRISTCHURCH CENTRAL CITY
Geology Plan - Sheet 3 (3 to 4m)

FIG. No. B3

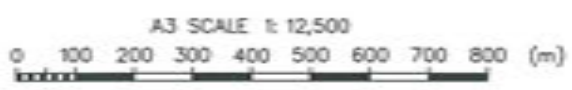
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LEGEND

	Loose to Medium Dense Silty Sands/Sandy Silts (Fluvial-dominated)
	Loose to Medium Dense Silty Sands/Sandy Silts (Marine-dominated)
	Loose to Medium Dense/Weak Interbedded Sands & Silts (Fluvial-dominated)
	Loose to Medium Dense Gravely Sands/Sandy Gravels (Fluvial-dominated)
	Medium Dense to Dense Sandy Gravels (Fluvial-dominated)
	Organic Silts/Peats
	Medium Dense to Dense Sands (Marine-dominated)
	Clays/Plastic Silts
	Dense to Very Dense Sands (Marine-dominated)
	Dense Gravels (Riccortan Gravels)

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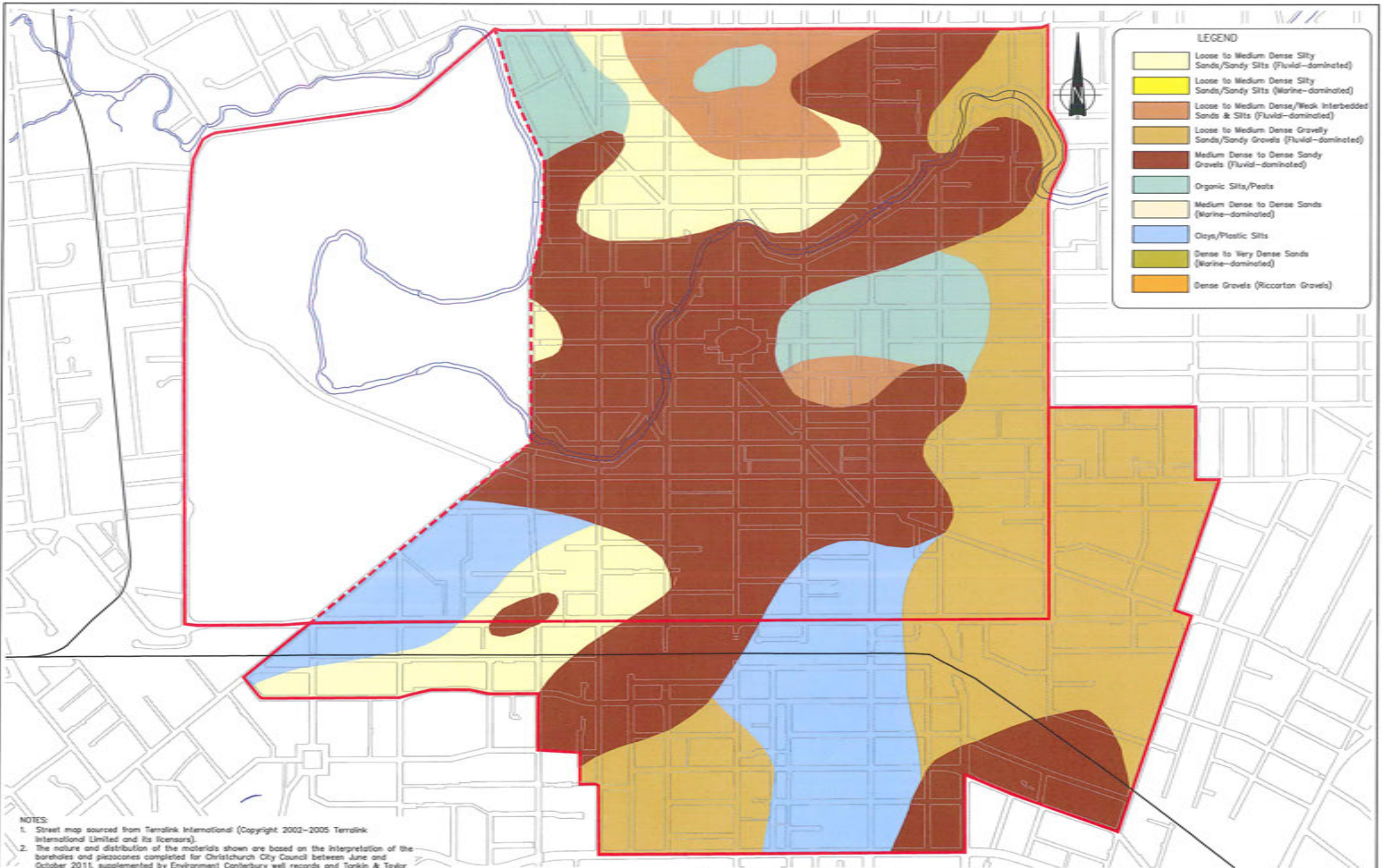
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CHRISTCHURCH CITY COUNCIL
 GEOLOGICAL INTERPRETATIVE REPORT
 CHRISTCHURCH CENTRAL CITY
 Geology Plan - Sheet 4 (4 to 5m)

FIG. No. B4

REV. 0



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A3 SCALE 1:12,500

0 100 200 300 400 500 600 700 800 (m)

**Christchurch
City Council**



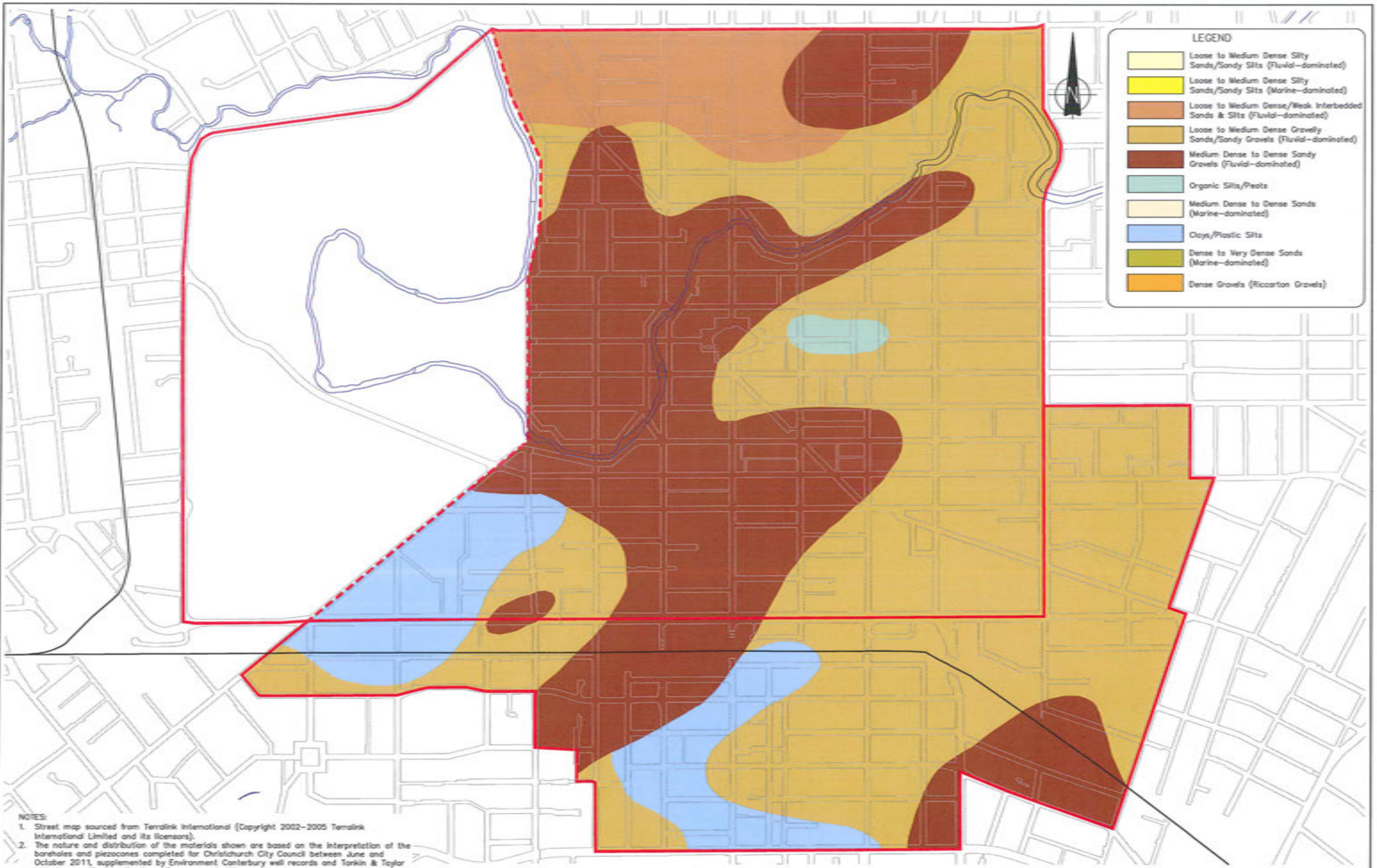
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CHRISTCHURCH CITY COUNCIL
GEOLOGICAL INTERPRETATIVE REPORT
CHRISTCHURCH CENTRAL CITY
Geology Plan - Sheet 5 (5 to 6m)

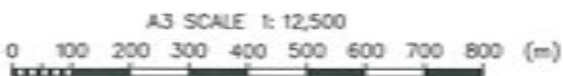
FIG. No. B5

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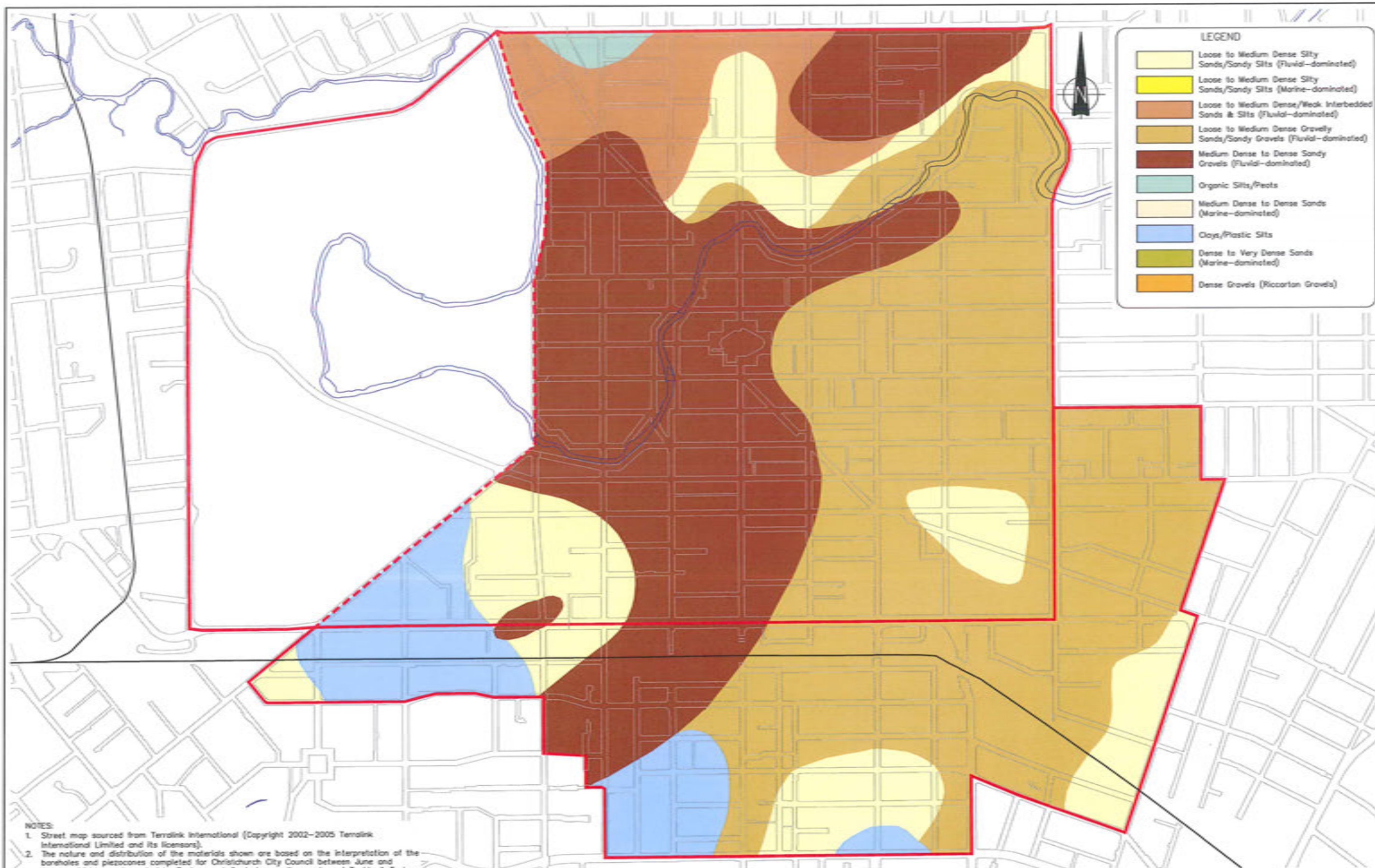


NOTES:

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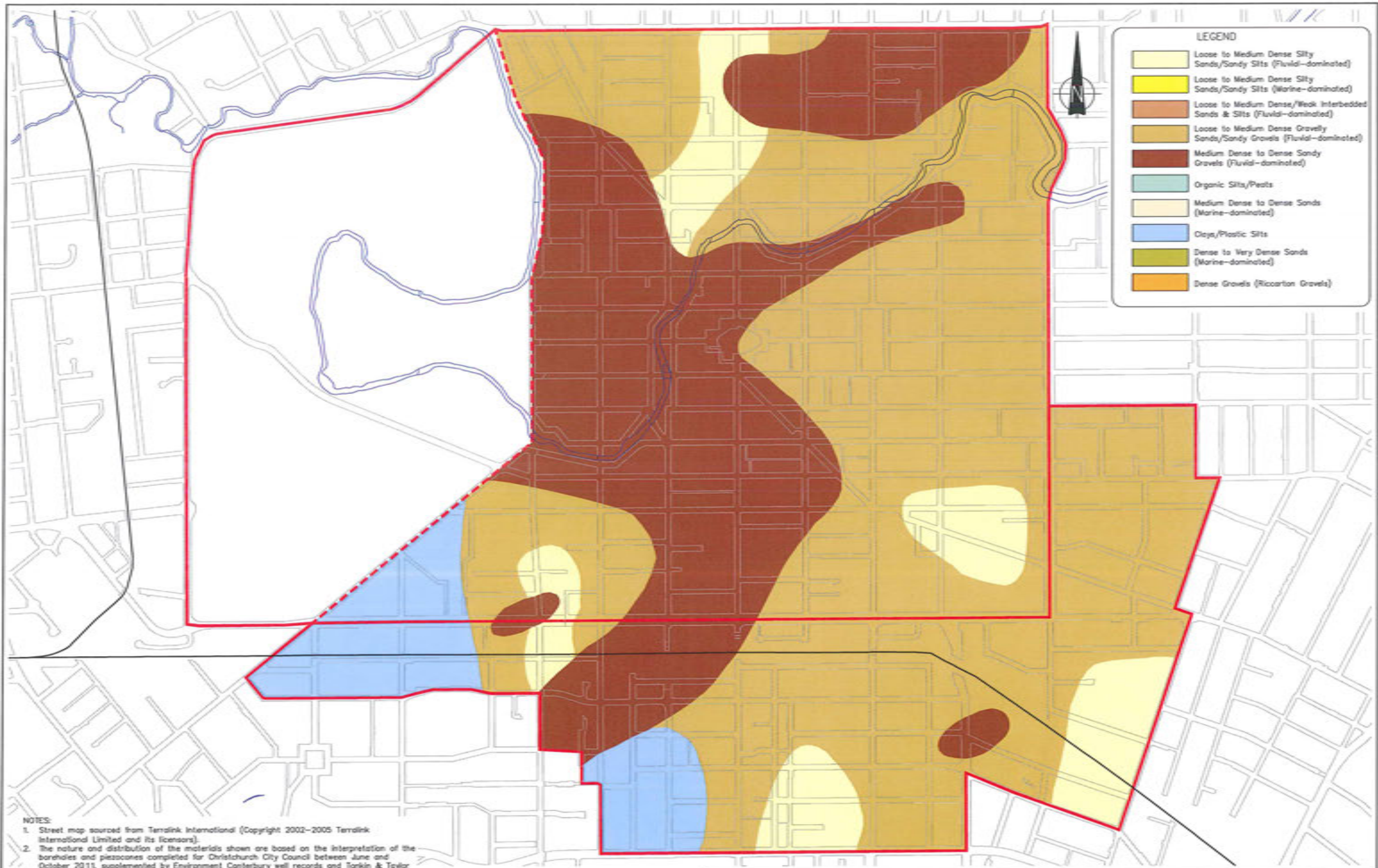
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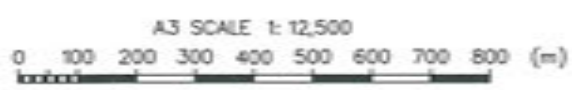
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CHRISTCHURCH CITY COUNCIL
 GEOLOGICAL INTERPRETATIVE REPORT
 CHRISTCHURCH CENTRAL CITY
 Geology Plan - Sheet 7 (7 to 8m)

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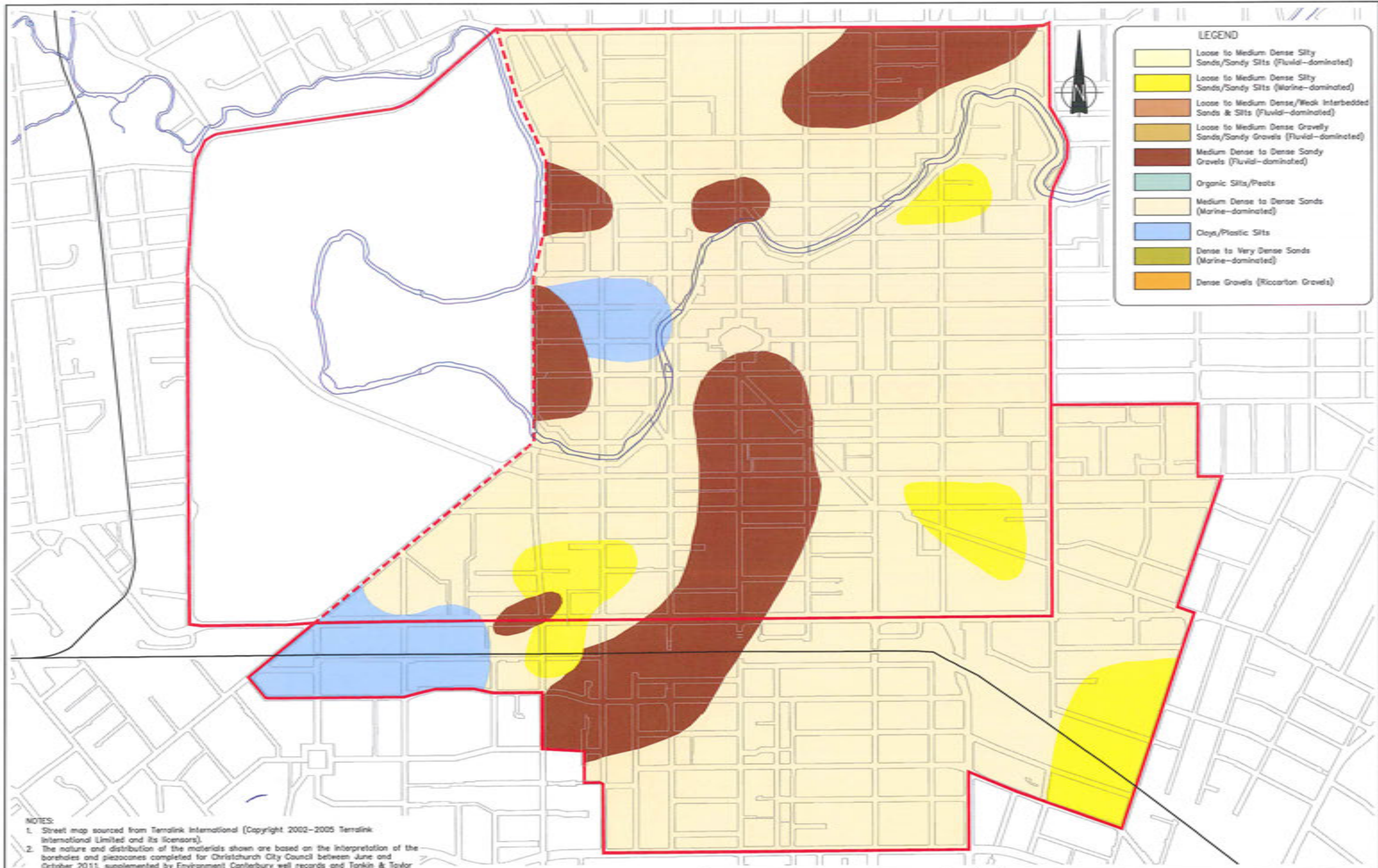
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CHRISTCHURCH CITY COUNCIL
GEOLOGICAL INTERPRETATIVE REPORT
CHRISTCHURCH CENTRAL CITY
Geology Plan - Sheet 8 (8 to 9m)

FIG. No. B8

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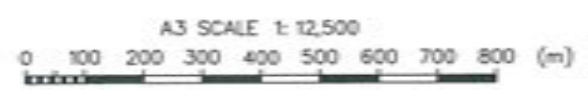


LEGEND

	Loose to Medium Dense Silty Sands/Sandy Silts (Fluvial-dominated)
	Loose to Medium Dense Silty Sands/Sandy Silts (Marine-dominated)
	Loose to Medium Dense/Weak Interbedded Sands & Silts (Fluvial-dominated)
	Loose to Medium Dense Gravelly Sands/Sandy Gravels (Fluvial-dominated)
	Medium Dense to Dense Sandy Gravels (Fluvial-dominated)
	Organic Silts/Peats
	Medium Dense to Dense Sands (Marine-dominated)
	Clays/Plastic Silts
	Dense to Very Dense Sands (Marine-dominated)
	Dense Gravels (Riccarton Gravels)

NOTES:

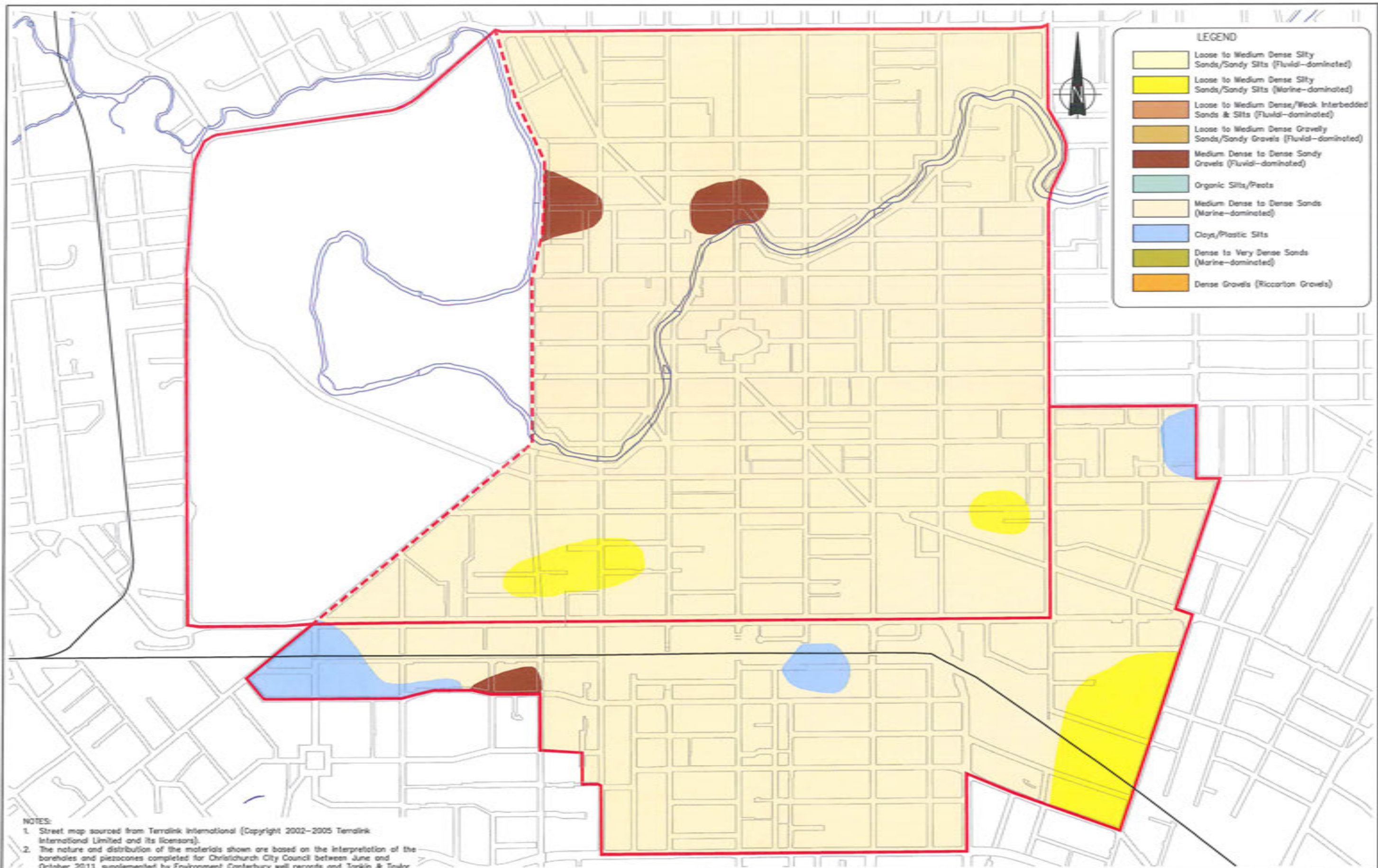
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CHRISTCHURCH CITY COUNCIL
GEOLOGICAL INTERPRETATIVE REPORT
CHRISTCHURCH CENTRAL CITY
Geology Plan - Sheet 9 (9 to 10m)

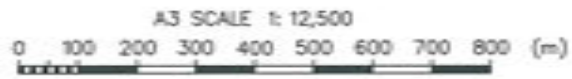


LEGEND

	Loose to Medium Dense Silty Sands/Sandy Silts (Fluvial-dominated)
	Loose to Medium Dense Silty Sands/Sandy Silts (Marine-dominated)
	Loose to Medium Dense/Weak Interbedded Sands & Silts (Fluvial-dominated)
	Loose to Medium Dense Gravelly Sands/Sandy Gravelly Sands (Fluvial-dominated)
	Medium Dense to Dense Sandy Gravelly Sands (Fluvial-dominated)
	Organic Silts/Peats
	Medium Dense to Dense Sands (Marine-dominated)
	Clays/Plastic Silts
	Dense to Very Dense Sands (Marine-dominated)
	Dense Gravelly Sands (Riccarton Gravels)

NOTES:

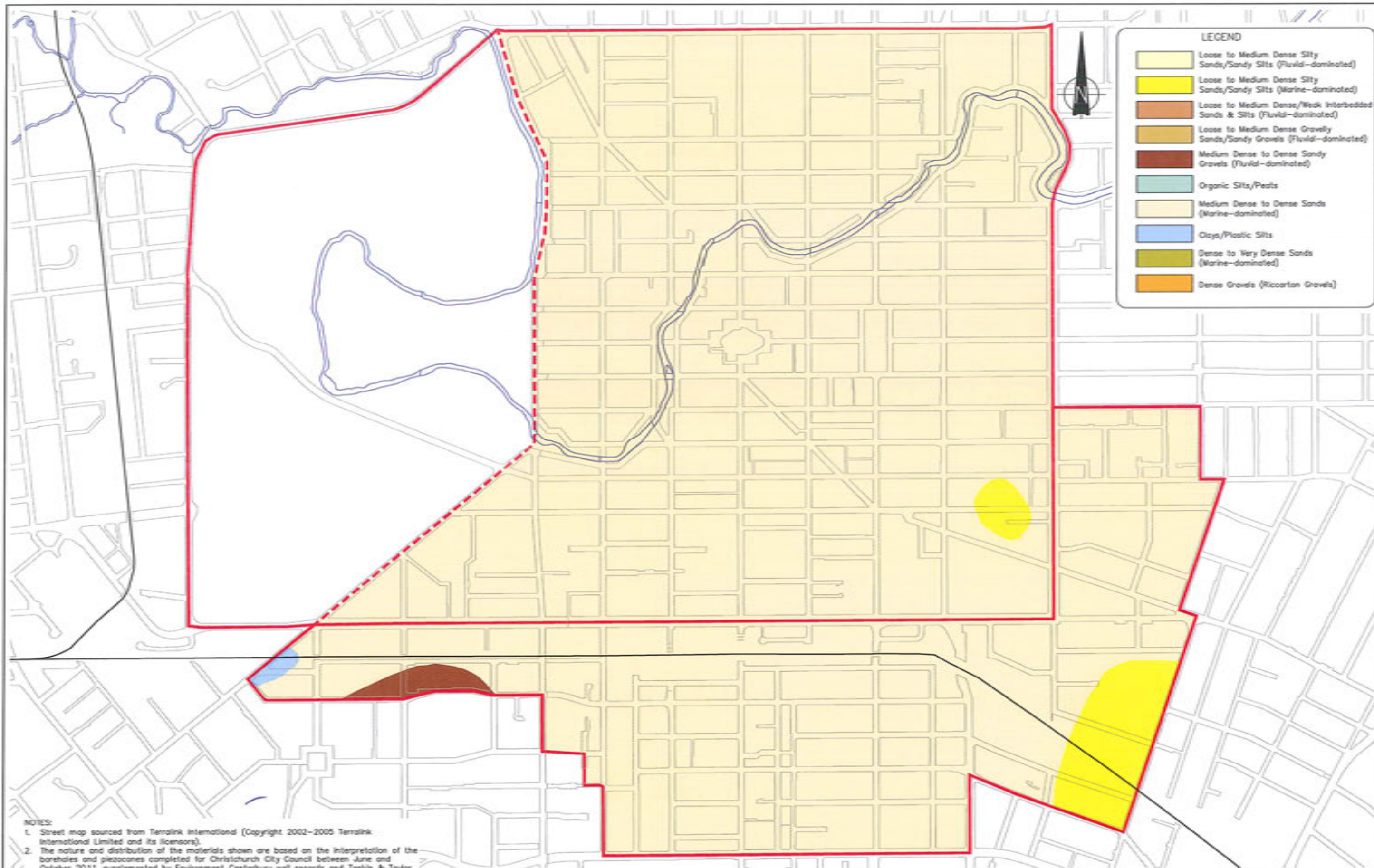
1. Street map sourced from Terralink International (Copyright 2002-2005 Terralink International Limited and its licensors).
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CHRISTCHURCH CITY COUNCIL
 GEOLOGICAL INTERPRETATIVE REPORT
 CHRISTCHURCH CENTRAL CITY
 Geology Plan - Sheet 10 (10 to 12m)

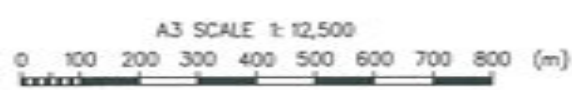


LEGEND

	Loose to Medium Dense Silty Sands/Sandy Silts (Fluvial-dominated)
	Loose to Medium Dense Silty Sands/Sandy Silts (Marine-dominated)
	Loose to Medium Dense/Weak Interbedded Sands & Silts (Fluvial-dominated)
	Loose to Medium Dense Gravelly Sands/Sandy Gravels (Fluvial-dominated)
	Medium Dense to Dense Sandy Gravels (Fluvial-dominated)
	Organic Silts/Peats
	Medium Dense to Dense Sands (Marine-dominated)
	Clays/Plastic Silts
	Dense to Very Dense Sands (Marine-dominated)
	Dense Gravels (Riccarton Gravels)

NOTES:

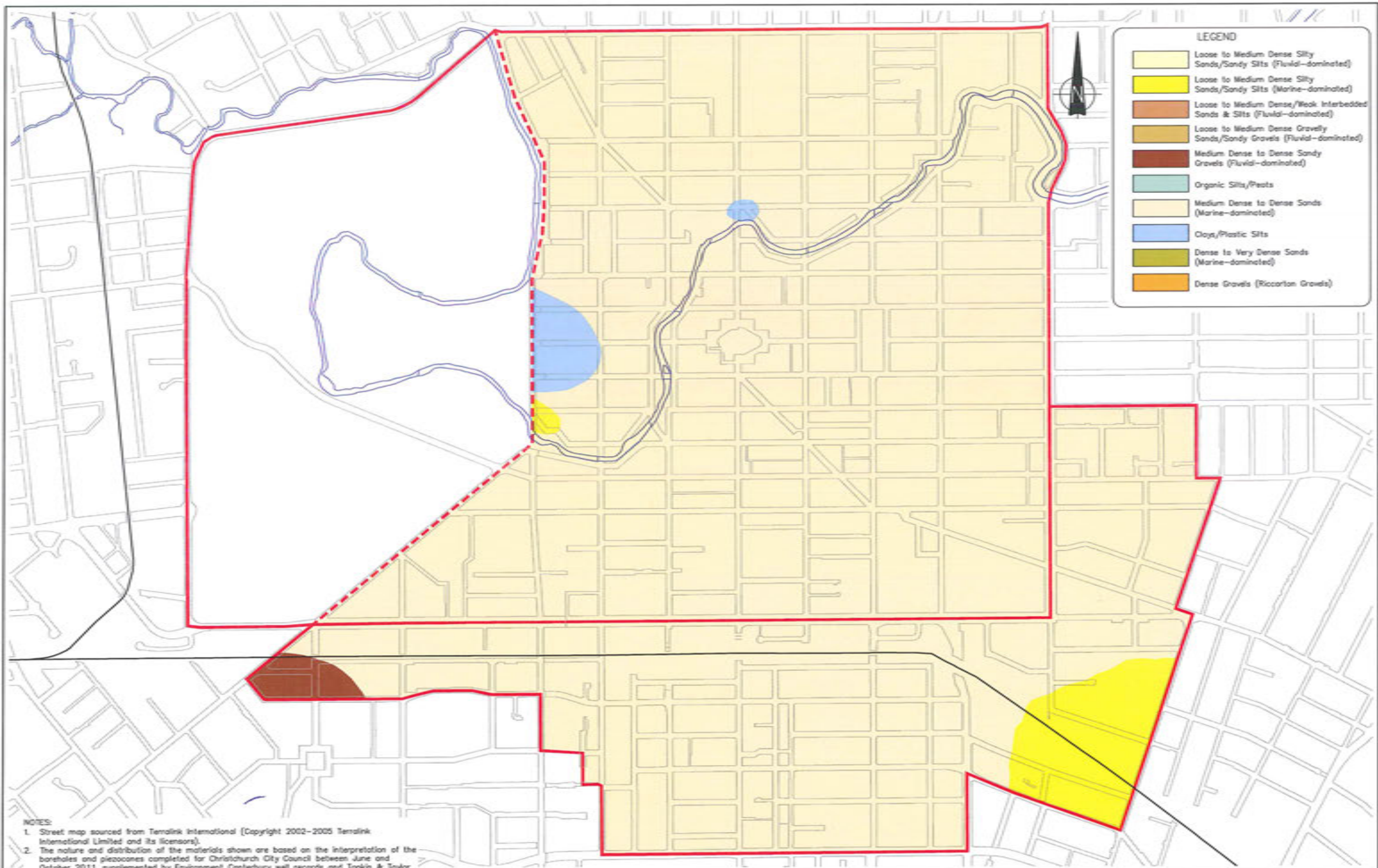
1. Street map sourced from Terralink International (Copyright 2002-2005 Terralink International Limited and its licensors).
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GEOLOGICAL INTERPRETATIVE REPORT
CHRISTCHURCH CENTRAL CITY
Geology Plan – Sheet 11 (12 to 14m)

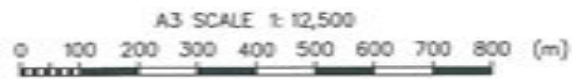


LEGEND

	Loose to Medium Dense Silty Sands/Sandy Silts (Fluvial-dominated)
	Loose to Medium Dense Silty Sands/Sandy Silts (Marine-dominated)
	Loose to Medium Dense/Weak Interbedded Sands & Silts (Fluvial-dominated)
	Loose to Medium Dense Gravelly Sands/Sandy Gravels (Fluvial-dominated)
	Medium Dense to Dense Sandy Gravels (Fluvial-dominated)
	Organic Silts/Peats
	Medium Dense to Dense Sands (Marine-dominated)
	Clays/Plastic Silts
	Dense to Very Dense Sands (Marine-dominated)
	Dense Gravels (Riccarton Gravels)

NOTES:

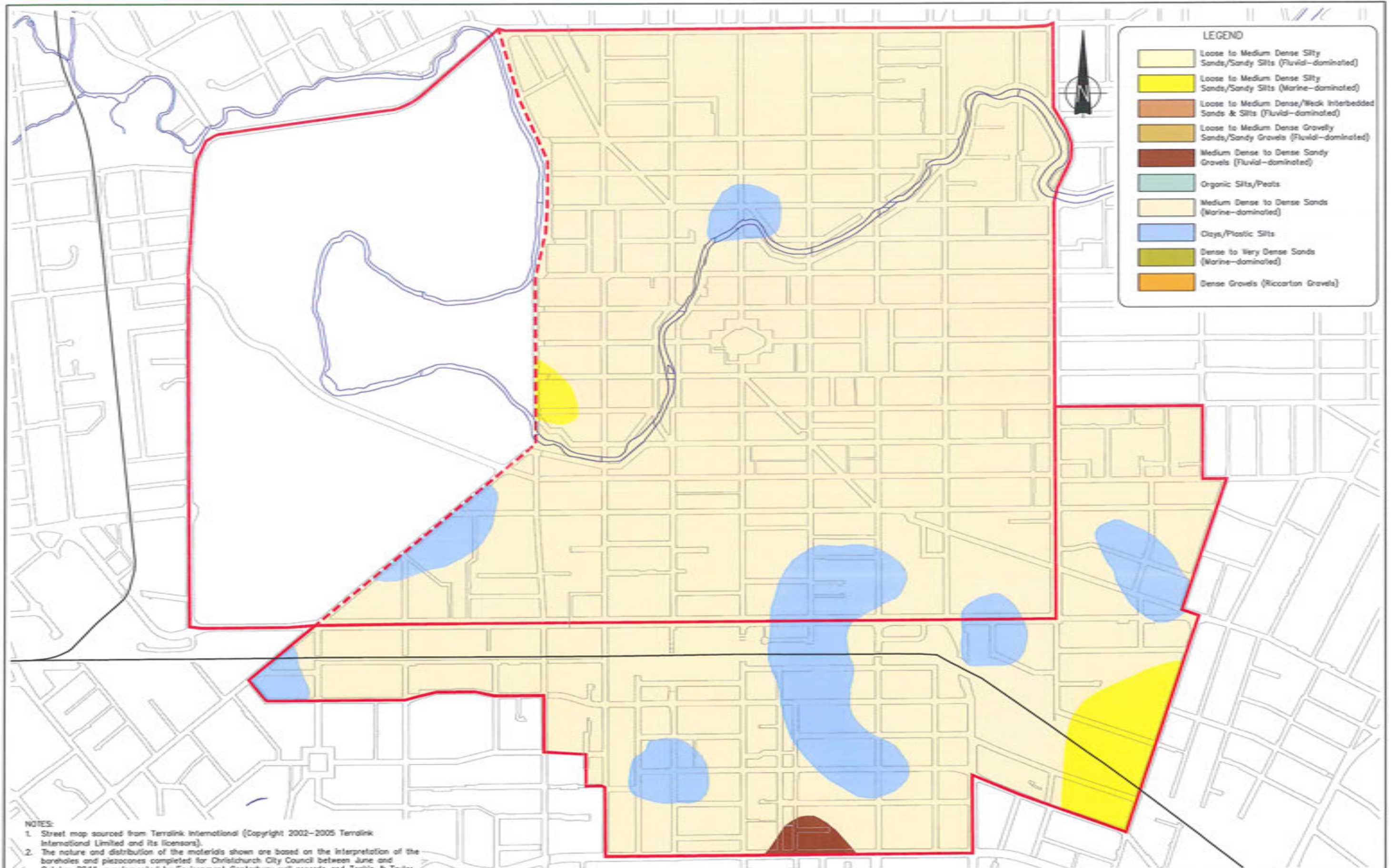
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 CHRISTCHURCH CENTRAL CITY
 Geology Plan - Sheet 12 (14 to 16m)



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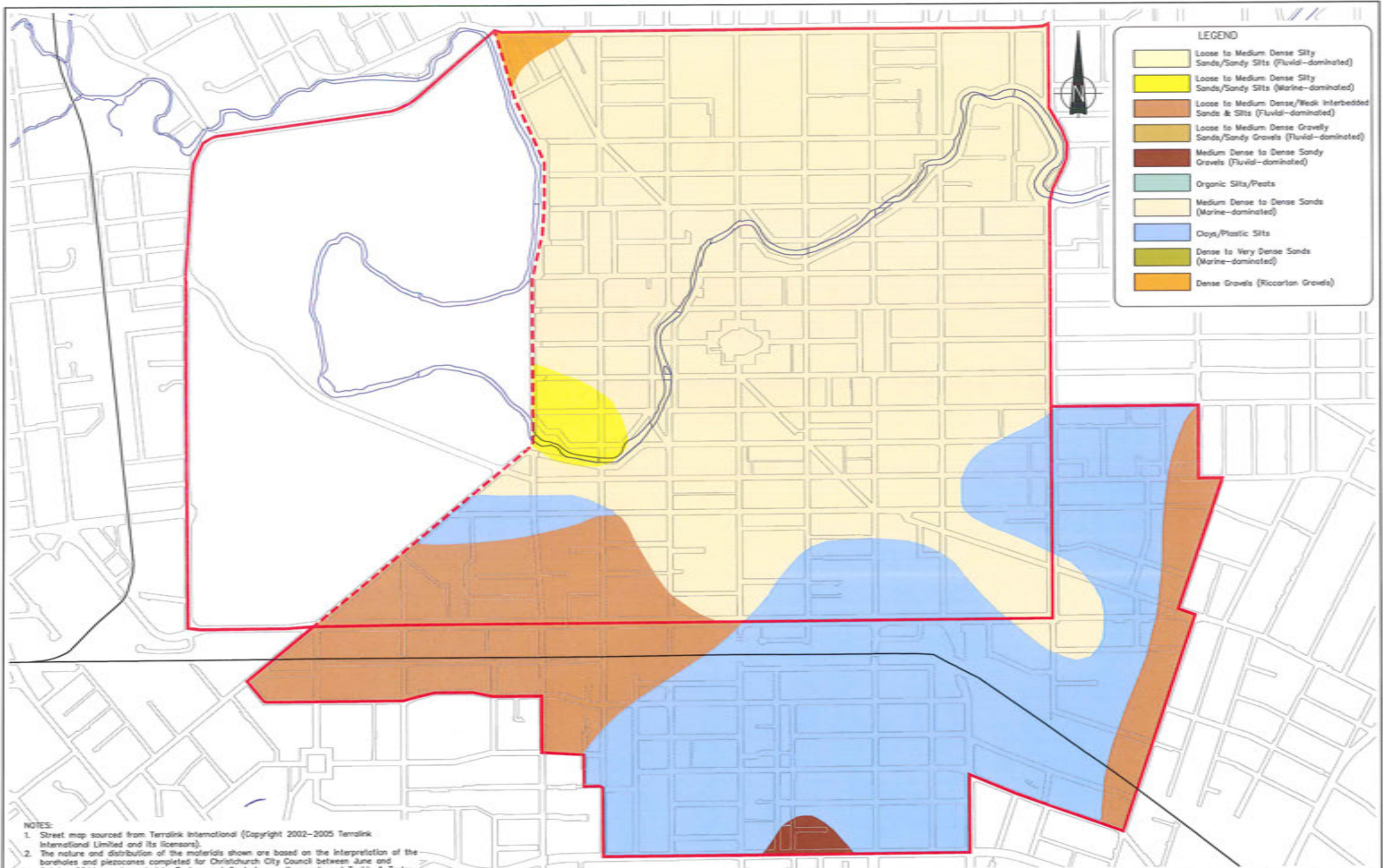
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 GEOLOGICAL INTERPRETATIVE REPORT
 CHRISTCHURCH CENTRAL CITY
 Geology Plan - Sheet 13 (16 to 18m)



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Christchurch City Council

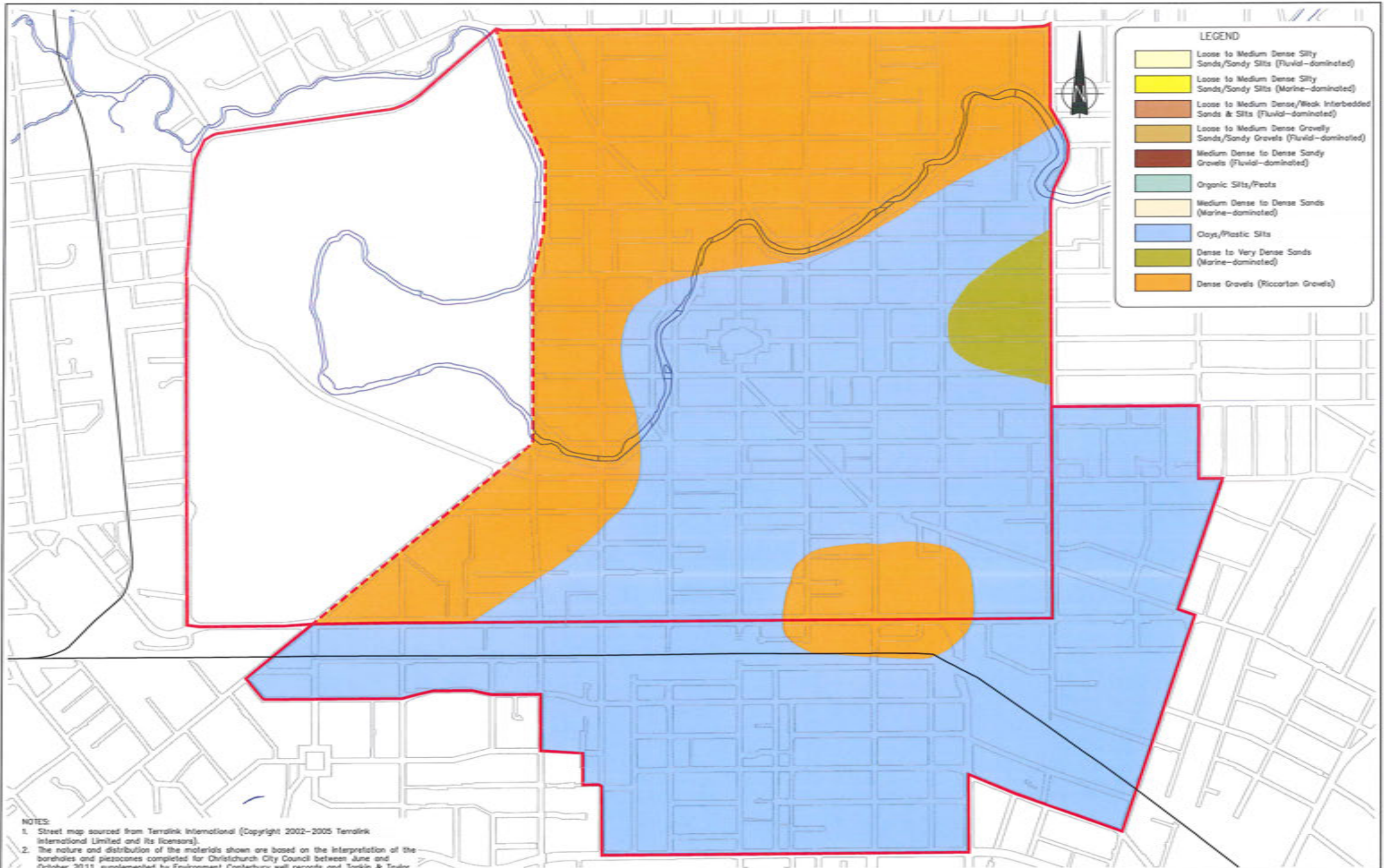
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CHRISTCHURCH CITY COUNCIL
 GEOLOGICAL INTERPRETATIVE REPORT
 CHRISTCHURCH CENTRAL CITY
 Geology Plan - Sheet 15 (18 to 20m)

FIG. No. B 14

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Christchurch City Council

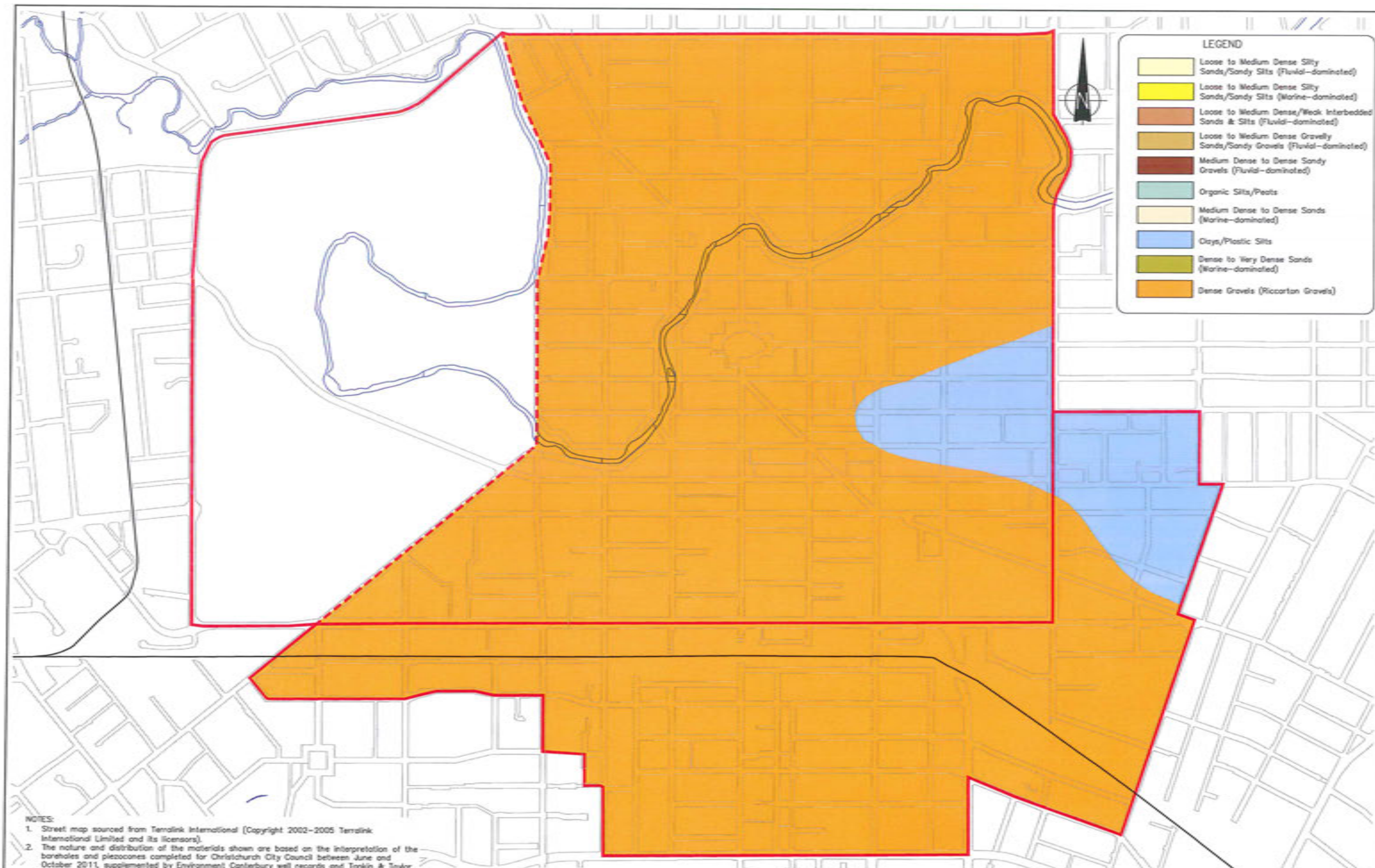
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PROJECT No.	52000.301	

CHRISTCHURCH CITY COUNCIL
 GEOLOGICAL INTERPRETATIVE REPORT
 CHRISTCHURCH CENTRAL CITY
 Geology Plan - Sheet 15 (20 to 25m)

FIG. No. B 15

REV. 0



- NOTES:**
1. Street map sourced from Terralink International (Copyright 2002-2005 Terralink International Limited and its licensors).
 2. The nature and distribution of the materials shown are based on the interpretation of the boreholes and piezometers completed for Christchurch City Council between June and October 2011, supplemented by Environment Canterbury well records and Tonkin & Taylor Ltd site specific investigations. The areas of different dominant material types have been simplified for presentation purposes. The actual ground conditions at specification locations could vary from those indicated.
 3. This information should be used for preliminary purposes only. Detailed investigations are required to determine the actual ground conditions present at specific locations.

A3 SCALE 1:12,500
 0 100 200 300 400 500 600 700 800 (m)

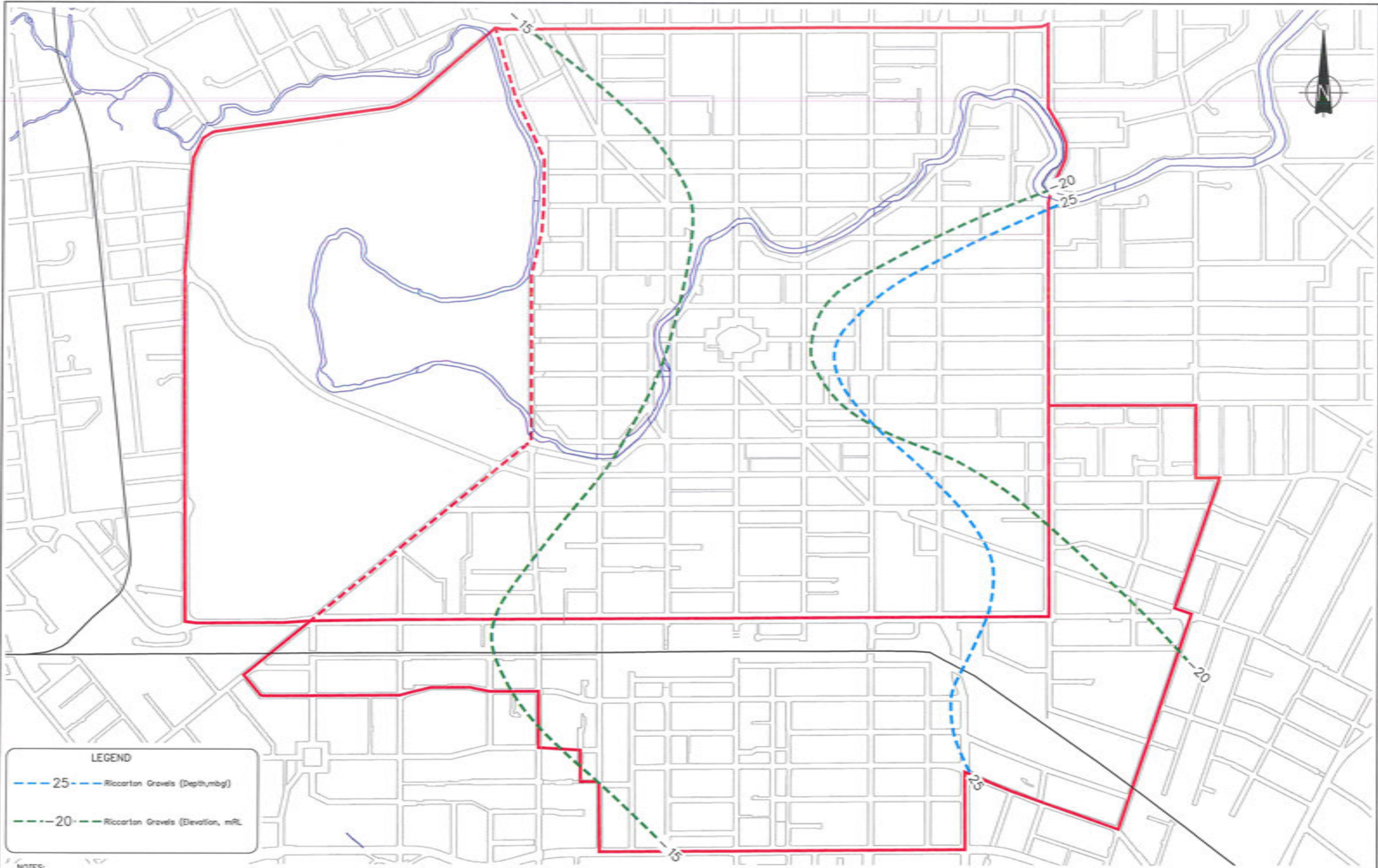


Tonkin & Taylor
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 33 Parkhouse Road, Wigram, Christchurch
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DATE: 11/11/11	LJD	Nov. 11
DRAWING CHECKED: DAF	11	
APPROVED: AFF	9	
FILE: \\52000.301-B1_16.dwg		
SCALE: (A1 A3 300)		
1:12500		
PROJECT No: 52000.301		

CHRISTCHURCH CITY COUNCIL
 GEOLOGICAL INTERPRETATIVE REPORT
 CHRISTCHURCH CENTRAL CITY
 Geology Plan - Sheet 1 (25 to 30m)

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LEGEND

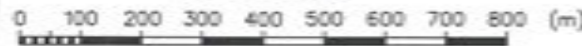
---25--- Riccarton Gravels (Depth, mbg)

---20--- Riccarton Gravels (Elevation, mRL)

NOTES:

1. Street map sourced from Terralink International (Copyright 2002-2005 Terralink International Limited and its licensors).
2. Depth/elevation contours are based on data from both recent (2011) investigations and historic Environment Canterbury well records (where considered reliable).
3. The depth/elevation contours are intended to provide a general overview only. There is considerable local variation due to channeling of the surface combined with the very gentle west to east gradient.

SCALE 1: 12,500



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DRAWN	NSW	Oct 11
DRAWING CHECKED	RAP	11
APPROVED	OFF	11
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SCALES (AT AS SIZE)		
1: 12500		
PROJECT No. 52000.301		

CHRISTCHURCH CITY COUNCIL
 GEOLOGICAL INTERPRETATIVE REPORT
 CHRISTCHURCH CENTRAL CITY
 Depth/Elevation of Riccarton Gravels