NY CIVIL ENGINEERING

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11th April 2022

Our ref: E220078

RE: Flood Level Design

Dear Sir/Madam,

Regarding the flood affectation of No.7 Solomon Court, Greenacre;

NY Civil Engineering has undertaken an assessment of the proposal at No.7 Solomon Court, Greenacre with respect to the flood information received from Canterbury Bankstown Council Ref. WP-SIA-460/2022 – appended to this letter.

Council has identified the 1% AEP flood level on the site as RL 30.80m AHD.

The habitable floor level of the building is proposed at RL 31.90m AHD – 1100mm above the 1% AEP top water level, thus meeting freeboard requirements. The driveway also reaches a crest level of RL 30.80m AHD at the boundary prior to descending into the proposed basement. The level of RL 30.80m AHD at the boundary is achieved with a vehicle crossing of approx. 7.4% grade from back of layback to the kerb, with transition grades internally compliant with AS2890.1:2004.

The design of the building is compliant with the requirements specified in Part B12 Schedule 5 of Bankstown Council's Development Control Plan 2015.

I trust this is sufficient information to proceed with the engineering assessment.

If you have further questions, please do not hesitate to contact the undersigned.

Full Name of Designer: Nader Zaki
Qualifications: ***BE(Civil) MIEAust***
Name of Employer: NY CIVIL ENGINEERING PTY LTD

Signature:

Level 1, 66 - 72 Rickard Road, Bankstown NSW
PO Box 8, Bankstown NSW 1885
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DX 11220 BANKSTOWN
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CITY OF CANTERBURY BANKSTOWN

To: Mr Tony Taouk
PO Box 4148
STRATHFIELD SOUTH NSW 2136

STORMWATER SYSTEM REPORT
7 Solomon Court, GREENACRE NSW 2190

Date: 10-Mar-2022
Ref: WP-SIA-460/2022
Development type: Detached Dwelling (single house)

NO — FLOOD/OVERLAND FLOW STUDY REQUIRED

The site may be affected by the following Council stormwater system components:

- Overland flowpath for excess stormwater runoff from the upstream catchment and associated with the drainage system located south west of the site.

The site will be subject to stormwater inundation from this overland flowpath during large storm events. Refer to the attached **"100 Year ARI Flood & PMF Extent Maps from Greenacre Park Catchment Study"** showing the flood contours to m AHD**. Provision should be made on site, and at boundary fences, for this stormwater runoff to pass unobstructed over the site. Stormwater flowing naturally onto the site must not be impeded or diverted.

The estimated 100 year ARI* flood level at the site is RL 30.8 m AHD.**

For this development, a flood /overland flow study to determine the 100 year ARI* water surface level is not necessary.

The Development Application submission shall be based on an AHD datum for levels where sites are affected by overland flow / flooding. Refer Bankstown Council's *Development Engineering Standards**.**

The proposed development including floor levels, shall comply with the development controls specified in Part B12 Schedule 5, of Bankstown's Development Control Plan 2015 - Catchments Affected by Stormwater Flooding.

Habitable floor levels are to be 500mm above the 100 year ARI* flood level at the site.

Runoff on the site, and naturally draining to it is to be collected and disposed of to Council's requirements detailed in Bankstown Council's *Development Engineering Standards****.

This report is given without the benefit of development plans or a site survey.

This report relates to the exposure of the subject site to Council's stormwater system, both underground and overland. It does not assess the suitability or otherwise of this site for the proposed development.

* Average Recurrence Interval

** Australian Height Datum

*** Bankstown Council's *Development Engineering Standards* and *Bankstown's Development Control Plan 2015* is available from Council's Customer Service Centre.

PMF Probable Maximum Flood

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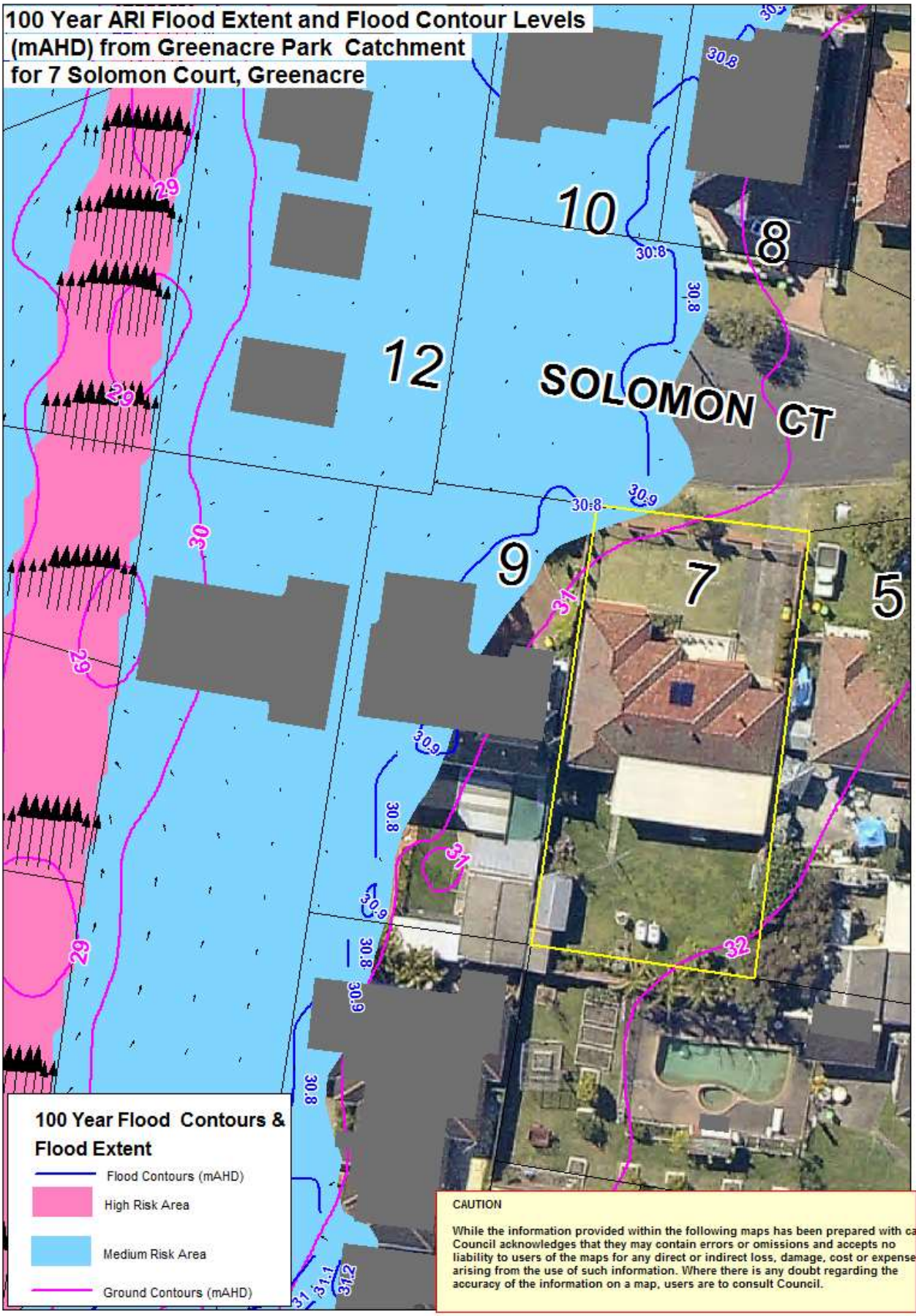
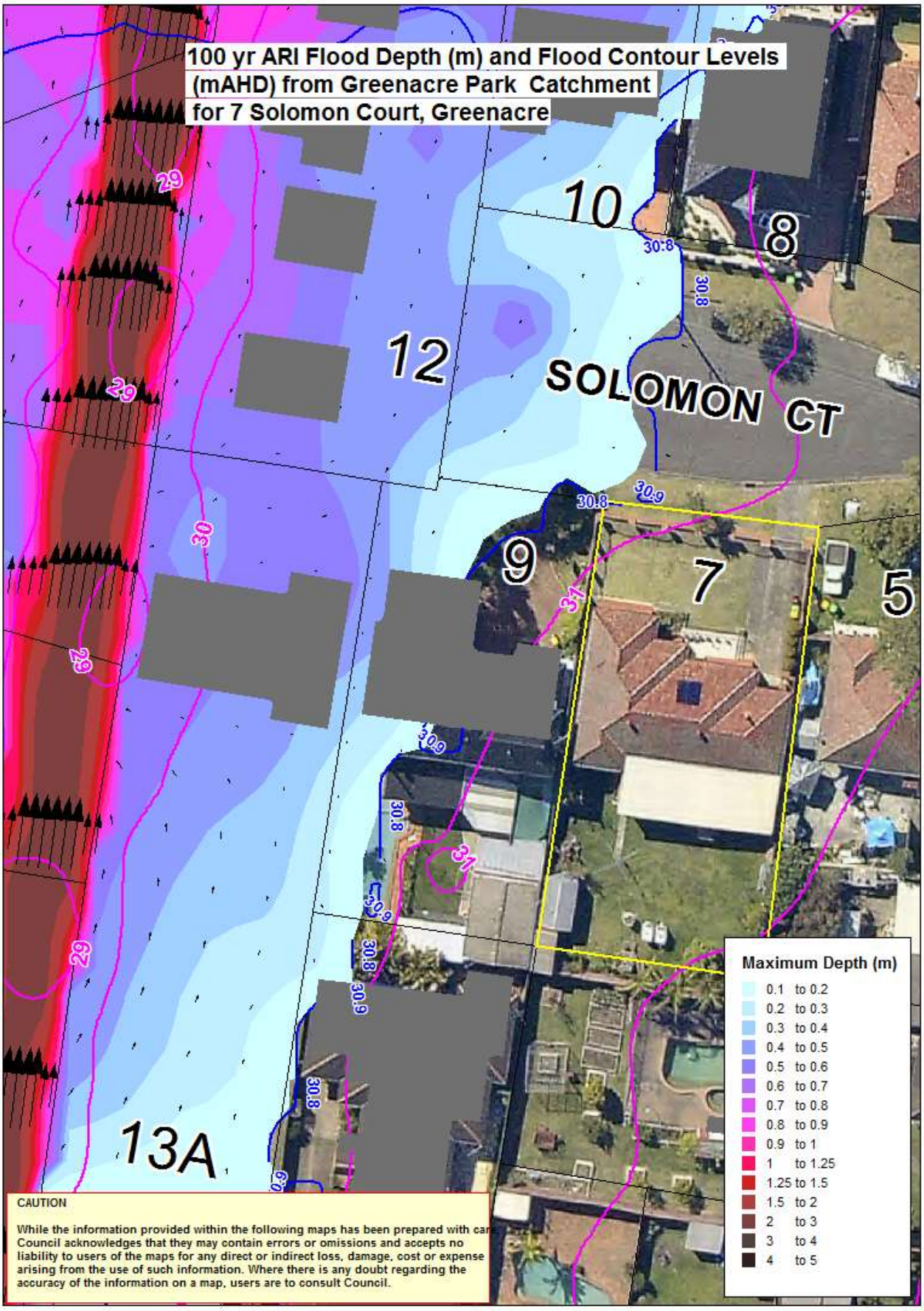
ENGINEER


100 Year ARI Flood Extent and Flood Contour Levels (mAHD) from Greenacre Park Catchment for 7 Solomon Court, Greenacre
SOLOMON CT
10
8
12
9
7
5
100 Year Flood Contours & Flood Extent
Flood Contours (mAHD)
High Risk Area
Medium Risk Area
Ground Contours (mAHD)
CAUTION
While the information provided within the following maps has been prepared with care, Council acknowledges that they may contain errors or omissions and accepts no liability to users of the maps for any direct or indirect loss, damage, cost or expense arising from the use of such information. Where there is any doubt regarding the accuracy of the information on a map, users are to consult Council.


100 yr ARI Flood Depth (m) and Flood Contour Levels (mAHD) from Greenacre Park Catchment for 7 Solomon Court, Greenacre
10
8
12
SOLOMON CT
9
7
5
13A
29
30
31
30.8
30.9
Maximum Depth (m)
0.1 to 0.2
0.2 to 0.3
0.3 to 0.4
0.4 to 0.5
0.5 to 0.6
0.6 to 0.7
0.7 to 0.8
0.8 to 0.9
0.9 to 1
1 to 1.25
1.25 to 1.5
1.5 to 2
2 to 3
3 to 4
4 to 5
CAUTION
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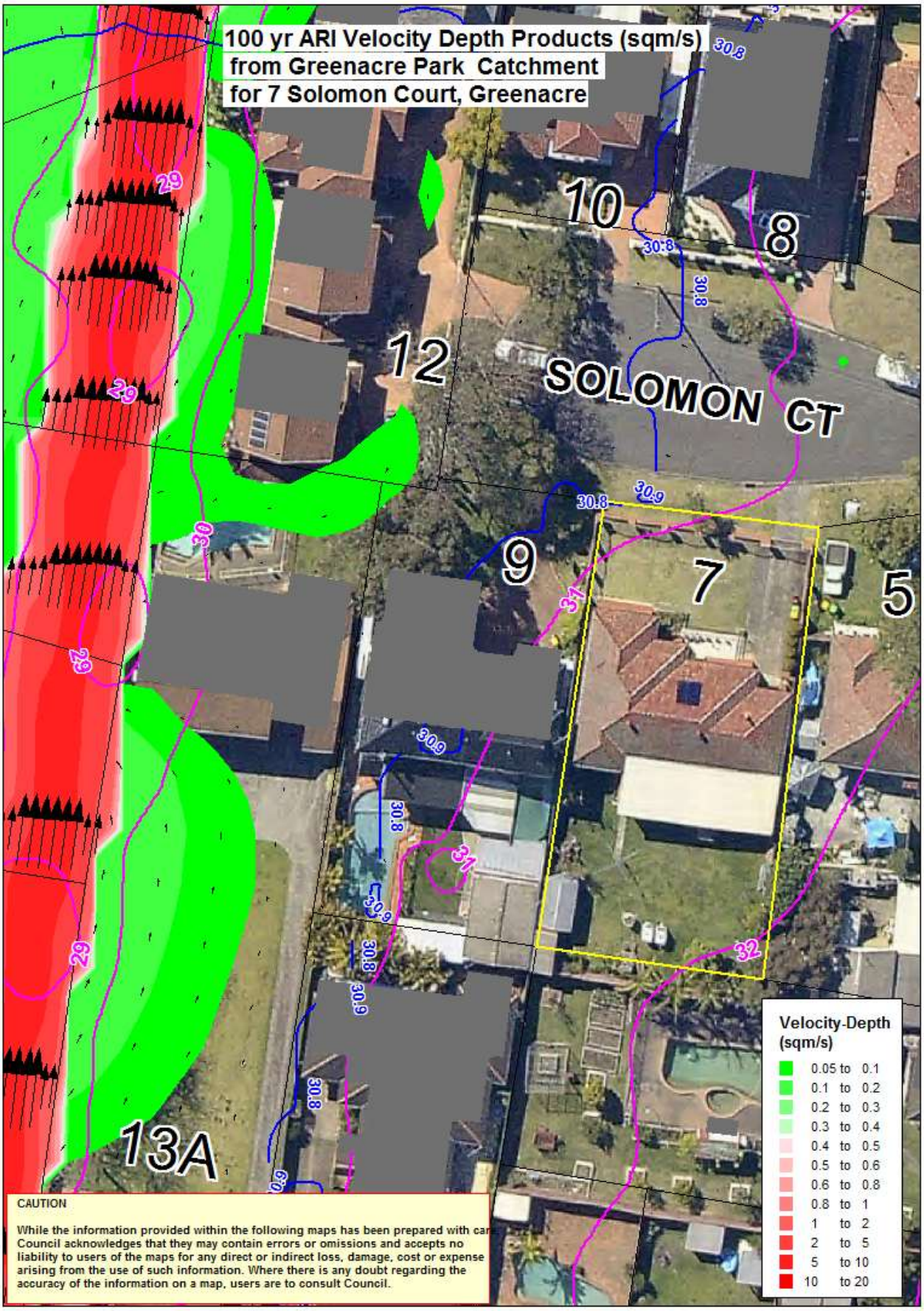
100 yr ARI Velocity Depth Products (sqm/s)
from Greenacre Park Catchment
for 7 Solomon Court, Greenacre
10
8
12
SOLOMON CT
9
7
5
13A
30.8
30.9
31
32
29
30
Velocity-Depth (sqm/s)
0.05 to 0.1
0.1 to 0.2
0.2 to 0.3
0.3 to 0.4
0.4 to 0.5
0.5 to 0.6
0.6 to 0.8
0.8 to 1
1 to 2
2 to 5
5 to 10
10 to 20
CAUTION
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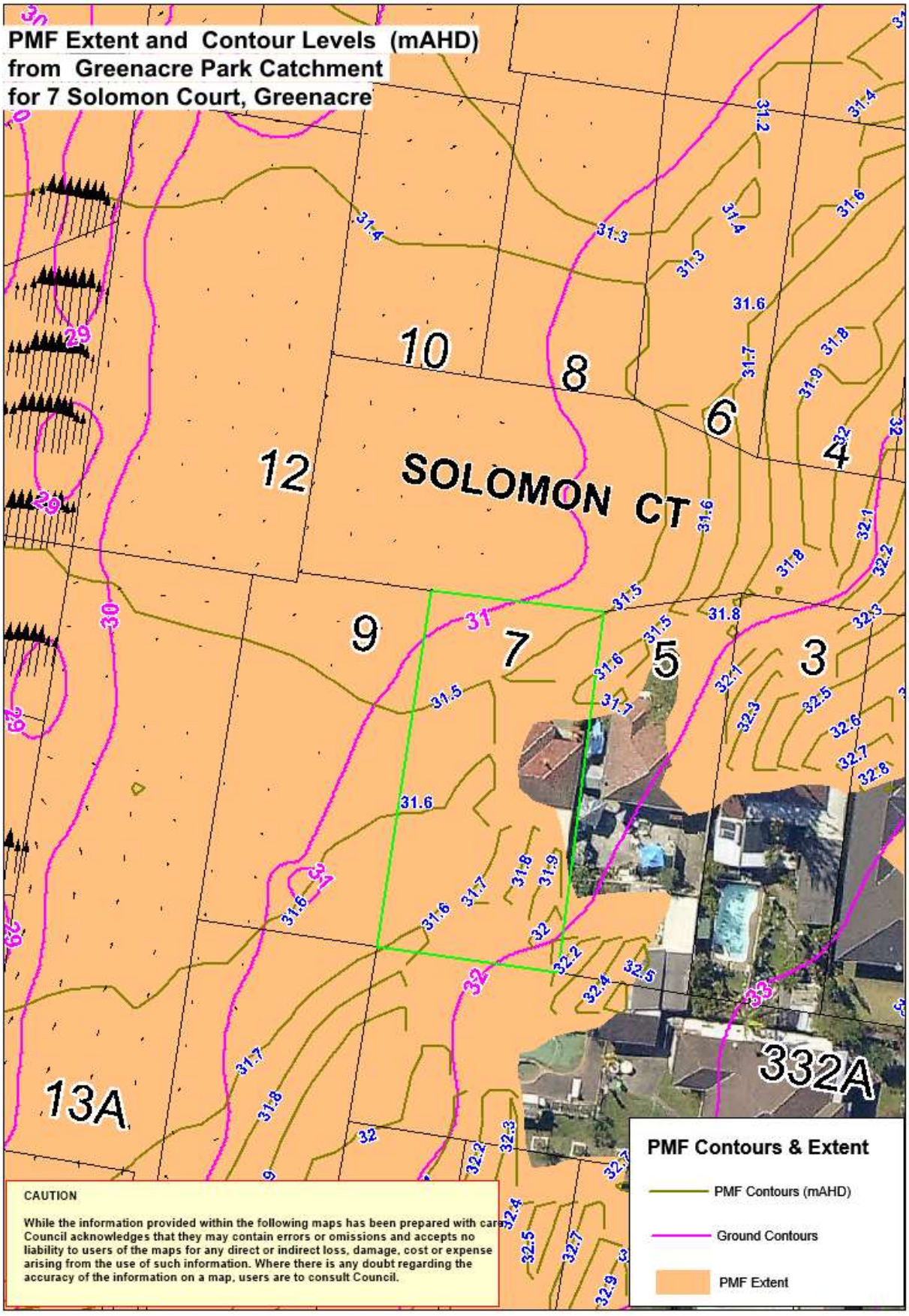
PMF Extent and Contour Levels (mAHD)
from Greenacre Park Catchment
for 7 Solomon Court, Greenacre
SOLOMON CT
10
8
6
4
12
9
7
5
3
13A
332A
CAUTION
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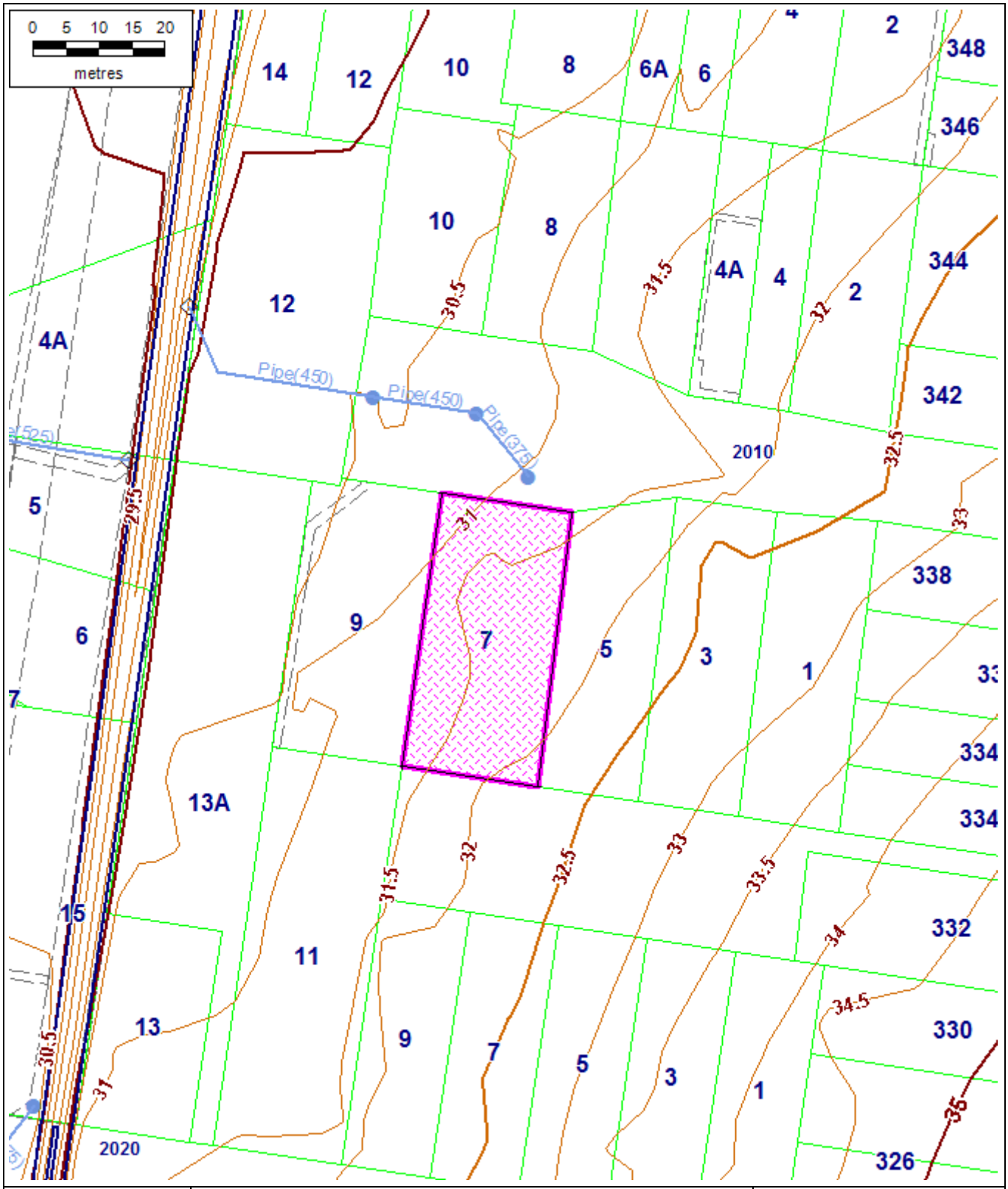
PMF Contours & Extent
PMF Contours (mAHD)
Ground Contours
PMF Extent



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10 March 2022

7 Solomon Court, Greenacre

GIS Map

DISCLAIMER: COUNCIL EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS.
THIS PLAN HAS NO LEGAL STANDING

CANTERBURY BANKSTOWN

1:836.2
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7 Solomon Court, Greenacre

Aerial Map

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